



UPL Limited, Unit -2
Plot No. 3405/6, G.I.D.C.
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India.

w: upl-ltd.com
t: +91 2646 250578 / 250575

November 24, 2020

TO,
Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryavaran Bhawan,
E-5 Area Colony, Link Road-3,
Ravishankar Nagar
Bhopal - 462 016, Madhya Pradesh

BY Email / Speed Post

Sub :- UPL Ltd (Unit 2) - Half yearly Compliance Report to conditions of Environmental Clearance (April 2020 to September 2020)

Ref: - (1) Environmental Clearance - J.11011/77/2002-IA.II dated 17.07.2003; and
(2) Environmental Clearance - J.11011/1281/2007-IA (II) dated 15.04.2008 and
(3) Environmental Clearance - J-11011/77/2002-IA-II (I) dated 10.01.2020 & Amendment dated
30.06.2020
(4) MoEF &CC Notification No. S.O 5845(E) dated 26th November,2018

Dear Sir,


Kindly refer above Environmental Clearance (Ref 1) J.11011/77/2002-IA.II dated 17.07.2003 and (Ref 2) J.11011/1281/2007-IA (II) dated 15.04.2008 and (Ref 3) J-11011/77/2002-IA-II (I) dated 10/1/2020 & its Amendment dated 30/6/2020 granted to our Unit # 02 located at Plot # 3405 / 3406 / 3460-A, Notified Industrial Estate GIDC, Ankleshwar – 393 002, Dist – Bharuch, Gujarat.

We are submitting herewith the half yearly compliance report along with various other required details with respect to our Unit 02 for period April 2020 to September 2020.

As per MoEF&CC Circular no SO 5845 (E) dated 26/11/2018, A soft copy (DVD) is enclosed containing our compliance report.

We hope above is in order.

Yours faithfully,
For, **UPL Limited**


V. V. Reddy
(Unit Head)

| | | |
|----------|---|--|
| Copy to: | The Zonal Officer Central Pollution Control Board Parivesh Bhavan Opp VMC Ward Office # 10 Subhanpura, Vadodara – 390 023 | The Regional Officer Gujarat Pollution Control Board Ankleshwar – 393 002 GPCB XGN ID # 15832 |
|----------|---|--|

Enclosed : CD (DVD) Containing Soft Copy of Half Yearly Compliance Report for April 2020 To September 2020.

Office copy



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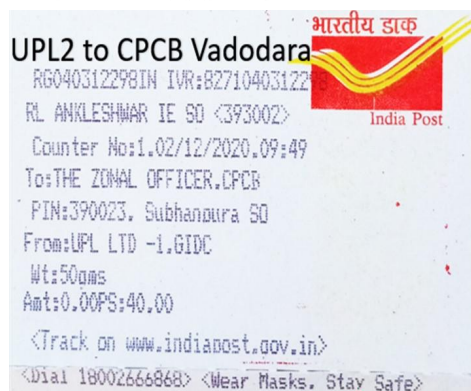
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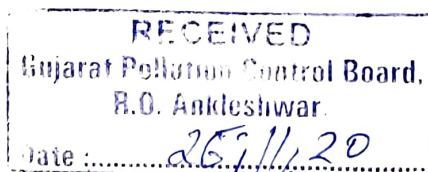



V. V. Reddy
(Unit Head)

Copy to: The Zonal Officer
Central Pollution Control Board
Parivesh Bhavan
Opp VMC Ward Office # 10
Subhanpura, Vadodara – 390 023

→ The Regional Officer
Gujarat Pollution Control Board
Ankleshwar – 393 002
GPCB XGN ID # 15832

Enclosed : CD (DVD) Containing Soft Copy of Half Yearly Compliance Report for April 2020 To September 2020.



**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|---------------|-------------------------------|------------------------------|----------|-----------|-----------|------------|---------------------------------|--|-----------|----------|--------|-------|--|--|-----------|----------|------------------------|--|-------------------------------------|---------------|---|------------|-------|--------|---|------------|--------|---------|---|------------|-------|---------|---|------------|------|---------|---|------------|-------|---------|---|-------------|-------|---------|-------|----------------------------------|--|------------|-----------------|--------------|------------|-------|-----|
| 1.0 | <p>The Ex Post Facto Environmental Clearance is granted for the following products; ⇒ Phorate / Turbuphos @ 3600 MT/ Year ⇒ Acephate @ 960 MT / Year</p> <p>The land area of the project is 65625 km². The project does not involve forest land and displacement of people.</p> <p>Water requirement of 340.1 m³/day will be met from the GIDC.</p> | <p>The unit has discontinued production of Phorate in compliance to Pesticide Prohibition Order dated 8/8/2018. During period of April 2020 to September 2020, the production of Turbuphos is 351.39 MT (Six Monthly Total) and Acephate is 7783.1 MT(Six Monthly Total).</p> <p>We have obtained different permissions with product mix change which are described below.</p> <table border="1"> <thead> <tr> <th>Product</th> <th>EC Letter Dated 15/04/2008</th> <th>EC Letter Dated 10/1/2020</th> </tr> </thead> <tbody> <tr> <td>Acephate</td> <td>12000 TPA</td> <td>36000 TPA</td> </tr> <tr> <td>Phorate OR</td> <td rowspan="2">6000 TPA (Combined Capacity)</td> <td>Discontinued Since Banned by Ministry of Agriculture</td> </tr> <tr> <td>Turbuphos</td> <td>6000 TPA</td> </tr> </tbody> </table> <p>Copy of EC letter dated 15/04/2008 & 10/01/2020 is enclosed along with this report as Annexure 1A & 1B.</p> <p>The unit has taken product mix changes and obtained New EC with expansion in quantities. The revised production quantities are given below.</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Month</th> <th colspan="2">Actual Production for reporting Period</th> </tr> <tr> <th>Turbuphos</th> <th>Acephate</th> </tr> </thead> <tbody> <tr> <td colspan="2">GPCB Approved Quantity</td> <td>350 MT/Month (Combined Capacity)</td> <td>1430 MT/Month</td> </tr> <tr> <td>1</td> <td>Apr - 2020</td> <td>68.10</td> <td>801.45</td> </tr> <tr> <td>2</td> <td>May - 2020</td> <td>119.85</td> <td>1396.95</td> </tr> <tr> <td>3</td> <td>Jun - 2020</td> <td>35.41</td> <td>1397.75</td> </tr> <tr> <td>4</td> <td>Jul - 2020</td> <td>0.00</td> <td>1395.45</td> </tr> <tr> <td>5</td> <td>Aug - 2020</td> <td>40.86</td> <td>1397.25</td> </tr> <tr> <td>6</td> <td>Sept - 2020</td> <td>87.16</td> <td>1394.25</td> </tr> </tbody> </table> <p>Copy of latest GPCB CC&A AWH-105668 dated 20.04.2020 up to 01.08.2025 is attached as Annexure – 1C)</p> <p>The Production details is enclosed as Annexure-2.</p> <p>The Unit is having total land area of 65625 M². The project is located within Notified Industrial Estate, GIDC, Ankleshwar hence, no forest and displacement of people are involved during the project activity. The copy of land allotment issued from GIDC is attached as Annexure 3.</p> <p>The fresh water is supply through GIDC, Ankleshwar and average water consumption is 325.28 m³/day (for April 2020 to September 2020). The UPL Unit 2 has obtained EC vide # J-11011/1281/2007-IA(II) dated 15th April, 2008 with permission of water requirement of 1043 KL/Day. The copy of EC is attached as Annexure 1A.</p> <p>The Monthly Summary of Water consumption is given below.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Water Consumption in KL/Month</th> <th>Average Water Consumption in KL/Day</th> </tr> </thead> <tbody> <tr> <td>GPCB Limit</td> <td>31,638 KL/Month</td> <td>1,043 KL/Day</td> </tr> <tr> <td>Apr - 2020</td> <td>9,463</td> <td>315</td> </tr> </tbody> </table> | Product | EC Letter Dated 15/04/2008 | EC Letter Dated 10/1/2020 | Acephate | 12000 TPA | 36000 TPA | Phorate OR | 6000 TPA (Combined Capacity) | Discontinued Since Banned by Ministry of Agriculture | Turbuphos | 6000 TPA | Sr. No | Month | Actual Production for reporting Period | | Turbuphos | Acephate | GPCB Approved Quantity | | 350 MT/Month (Combined Capacity) | 1430 MT/Month | 1 | Apr - 2020 | 68.10 | 801.45 | 2 | May - 2020 | 119.85 | 1396.95 | 3 | Jun - 2020 | 35.41 | 1397.75 | 4 | Jul - 2020 | 0.00 | 1395.45 | 5 | Aug - 2020 | 40.86 | 1397.25 | 6 | Sept - 2020 | 87.16 | 1394.25 | Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | Apr - 2020 | 9,463 | 315 |
| Product | EC Letter Dated 15/04/2008 | EC Letter Dated 10/1/2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate | 12000 TPA | 36000 TPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phorate OR | 6000 TPA (Combined Capacity) | Discontinued Since Banned by Ministry of Agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbuphos | | 6000 TPA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Month | Actual Production for reporting Period | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Turbuphos | Acephate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Approved Quantity | | 350 MT/Month (Combined Capacity) | 1430 MT/Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Apr - 2020 | 68.10 | 801.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | May - 2020 | 119.85 | 1396.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Jun - 2020 | 35.41 | 1397.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Jul - 2020 | 0.00 | 1395.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Aug - 2020 | 40.86 | 1397.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Sept - 2020 | 87.16 | 1394.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr - 2020 | 9,463 | 315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---------------|--|-------|---------------|----------|--|--|--|---------------|-----------------------|-------------------|---|---|------------------------|-----------|----------------|------------------|---------------------------------------|----------------------------|--|--------|------|-----|-----|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|--------------|--------|-------------|-------------|-------------|--------------|--|------------|-------------|--|--|--|
| | | | | May - 2020 | 13,860 | 447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Jun - 2020 | 9,366 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Jul - 2020 | 8,384 | 270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Aug - 2020 | 9,491 | 306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Sept - 2020 | 8,963 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <i>*All Values are well within GPCB Limits</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | The solid waste in the form of ETP sludge (7.5 MTPM), incinerator ash (9.0TPM) and inorganic salts from evaporation system (30MTPM) will be disposed off in the common secured landfill of M/s Bharuch Enviro Infrastructure Limited at Ankleshwar. | <p><i>The quantity of solid hazardous wastes has been changed due to further expansions vide EC letter no # J-11011/1281/2007-IA(II) dated 15th April, 2008 & Product Mix Change. The generated solid waste such as ETP sludge and evaporation salt are sent to Bharuch Enviro Infrastructure Limited (BEIL), Ankleshwar. BEIL membership is enclosed as Annexure-4. However, the Unit has discontinued operation of captive incinerator. The communication on discontinuation of captive incinerator has been made to GPCB vide UPL Letter dated 08/09/2006. The copy of letter is attached as Annexure 4A.</i></p> <p>The Summary of Hazardous Waste Quantity sent to BEIL given below.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th rowspan="2">MONTH</th> <th rowspan="2">Opening STOCK</th> <th colspan="4">DISPOSAL</th> <th rowspan="2">Closing Stock</th> </tr> <tr> <th>ORGANIC PROCESS WASTE</th> <th>AQ PROCES S WASTE</th> <th>SENT TO BEIL, ANKLESHWA R FOR INCINERATIO N</th> <th>Sent to Cement Kiln for Co-process / Co-incinerati on</th> </tr> </thead> <tbody> <tr> <td colspan="2">GPCB Limit in MT/Annum</td> <td>9285.3 MT/Year</td> <td>3403 MT/Year</td> <td colspan="2">Total –12688.3 MT/Annum (9285.3+3403)</td> <td></td> </tr> <tr> <td>Apr 20</td> <td>8.49</td> <td>251</td> <td>145</td> <td>144.97</td> <td>251</td> <td>8.508</td> </tr> <tr> <td>May 20</td> <td>8.51</td> <td>979</td> <td>891</td> <td>265.45</td> <td>1603</td> <td>9.818</td> </tr> <tr> <td>Jun 20</td> <td>9.82</td> <td>1068</td> <td>1846</td> <td>183.01</td> <td>2732</td> <td>9.148</td> </tr> <tr> <td>Jul 20</td> <td>9.15</td> <td>1263</td> <td>45</td> <td>822.25</td> <td>487</td> <td>8.228</td> </tr> <tr> <td>Aug 20</td> <td>8.23</td> <td>4305</td> <td>349</td> <td>652.12</td> <td>4003</td> <td>6.938</td> </tr> <tr> <td>Sep 20</td> <td>6.94</td> <td>1296</td> <td>6</td> <td>214.35</td> <td>1087</td> <td>7.978</td> </tr> <tr> <td>Total</td> <td></td> <td>9162</td> <td>3282</td> <td>2282</td> <td>10162</td> <td></td> </tr> </tbody> </table> <p><i>*All Quantities are well within GPCB CC & A Limit and unit has obtained EC for Expansion of Existing products with increase in Hazardous Waste Quantity and applied to SPCB for EC to CTO.</i></p> | | | | | MONTH | Opening STOCK | DISPOSAL | | | | Closing Stock | ORGANIC PROCESS WASTE | AQ PROCES S WASTE | SENT TO BEIL, ANKLESHWA R FOR INCINERATIO N | Sent to Cement Kiln for Co-process / Co-incinerati on | GPCB Limit in MT/Annum | | 9285.3 MT/Year | 3403 MT/Year | Total –12688.3 MT/Annum (9285.3+3403) | | | Apr 20 | 8.49 | 251 | 145 | 144.97 | 251 | 8.508 | May 20 | 8.51 | 979 | 891 | 265.45 | 1603 | 9.818 | Jun 20 | 9.82 | 1068 | 1846 | 183.01 | 2732 | 9.148 | Jul 20 | 9.15 | 1263 | 45 | 822.25 | 487 | 8.228 | Aug 20 | 8.23 | 4305 | 349 | 652.12 | 4003 | 6.938 | Sep 20 | 6.94 | 1296 | 6 | 214.35 | 1087 | 7.978 | Total | | 9162 | 3282 | 2282 | 10162 | | | | | | |
| MONTH | Opening STOCK | DISPOSAL | | | | Closing Stock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ORGANIC PROCESS WASTE | AQ PROCES S WASTE | SENT TO BEIL, ANKLESHWA R FOR INCINERATIO N | Sent to Cement Kiln for Co-process / Co-incinerati on | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit in MT/Annum | | 9285.3 MT/Year | 3403 MT/Year | Total –12688.3 MT/Annum (9285.3+3403) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 8.49 | 251 | 145 | 144.97 | 251 | 8.508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 8.51 | 979 | 891 | 265.45 | 1603 | 9.818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 9.82 | 1068 | 1846 | 183.01 | 2732 | 9.148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 9.15 | 1263 | 45 | 822.25 | 487 | 8.228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 8.23 | 4305 | 349 | 652.12 | 4003 | 6.938 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 6.94 | 1296 | 6 | 214.35 | 1087 | 7.978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 9162 | 3282 | 2282 | 10162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th colspan="7">SOLID WASTE DETAILS –Landfilling Disposal to BEIL – Ankleshwar</th> </tr> <tr> <th rowspan="2">MONTH</th> <th rowspan="2">OP STOCK</th> <th colspan="3">GENERATION</th> <th rowspan="2">DISPOSA L TO BEIL</th> <th rowspan="2">CL. STOCK</th> </tr> <tr> <th>ETP sludge</th> <th>EVAPORATION SALT</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td colspan="7" style="text-align: center;">ALL QTY IN MT/MONTH</td> </tr> <tr> <td>Apr 20</td> <td>7.24</td> <td>29</td> <td>243.00</td> <td>279.24</td> <td>270.56</td> <td>8.68</td> </tr> <tr> <td>May 20</td> <td>8.68</td> <td>27</td> <td>377.00</td> <td>412.68</td> <td>404.73</td> <td>7.95</td> </tr> <tr> <td>Jun 20</td> <td>7.95</td> <td>30</td> <td>353.00</td> <td>390.95</td> <td>381.27</td> <td>9.68</td> </tr> <tr> <td>Jul 20</td> <td>9.68</td> <td>31</td> <td>483.00</td> <td>523.68</td> <td>514.02</td> <td>9.66</td> </tr> <tr> <td>Aug 20</td> <td>9.66</td> <td>29</td> <td>492.00</td> <td>530.66</td> <td>499.73</td> <td>30.93</td> </tr> <tr> <td>Sep 20</td> <td>30.93</td> <td>27</td> <td>498.00</td> <td>555.93</td> <td>0.00</td> <td>555.93</td> </tr> <tr> <td>Total</td> <td></td> <td>173</td> <td>2446</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | SOLID WASTE DETAILS –Landfilling Disposal to BEIL – Ankleshwar | | | | | | | MONTH | OP STOCK | GENERATION | | | DISPOSA L TO BEIL | CL. STOCK | ETP sludge | EVAPORATION SALT | TOTAL | ALL QTY IN MT/MONTH | | | | | | | Apr 20 | 7.24 | 29 | 243.00 | 279.24 | 270.56 | 8.68 | May 20 | 8.68 | 27 | 377.00 | 412.68 | 404.73 | 7.95 | Jun 20 | 7.95 | 30 | 353.00 | 390.95 | 381.27 | 9.68 | Jul 20 | 9.68 | 31 | 483.00 | 523.68 | 514.02 | 9.66 | Aug 20 | 9.66 | 29 | 492.00 | 530.66 | 499.73 | 30.93 | Sep 20 | 30.93 | 27 | 498.00 | 555.93 | 0.00 | 555.93 | Total | | 173 | 2446 | | | |
| SOLID WASTE DETAILS –Landfilling Disposal to BEIL – Ankleshwar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTH | OP STOCK | GENERATION | | | DISPOSA L TO BEIL | CL. STOCK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ETP sludge | EVAPORATION SALT | TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALL QTY IN MT/MONTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 7.24 | 29 | 243.00 | 279.24 | 270.56 | 8.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 8.68 | 27 | 377.00 | 412.68 | 404.73 | 7.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 7.95 | 30 | 353.00 | 390.95 | 381.27 | 9.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 9.68 | 31 | 483.00 | 523.68 | 514.02 | 9.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 9.66 | 29 | 492.00 | 530.66 | 499.73 | 30.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 30.93 | 27 | 498.00 | 555.93 | 0.00 | 555.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 173 | 2446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | |
|--------------------------------|--|---|---|-----------------------|--------------------------------|----------------------------|---|-----------|--|--|--|--|--|--|
| | <p>It is also noted that Public hearing of the project was held on 16.01.02. Gujarat Pollution Control Board has granted NOC for 300 MTPM of Phorate (Tech)/Turbophos (Tech) on 17th Nov, 1995 and 80MTPM of Acephate on 2nd April, 1996. Cost of the project is Rs. 16.5 crores.</p> | <table border="1"> <tr> <td>GPCB Limit in MT/Annum</td> <td>336</td> <td>3240</td> <td></td> <td></td> <td></td> </tr> </table> | GPCB Limit in MT/Annum | 336 | 3240 | | | | | | | | | |
| GPCB Limit in MT/Annum | 336 | 3240 | | | | | | | | | | | | |
| | | *All Quantities are well within GPCB CC & A Limit. | | | | | | | | | | | | |
| | | Total Solid Waste Quantity To BEIL, ANKLESHWAR For Landfilling (MT/MONTH) | | | | | | | | | | | | |
| | | Month | Solids (ETP Sludge + Evaporation Salt) | Plastic Waste | Insulation Waste | Construction Debris | Monthly Total Solid Waste Quantity to BEIL | | | | | | | |
| | | Apr 20 | 270.56 | 2.42 | 3.56 | 0.00 | 276.54 | | | | | | | |
| | | May 20 | 404.73 | 3.11 | 2.63 | 0.00 | 410.47 | | | | | | | |
| | | Jun 20 | 381.27 | 5.00 | 3.46 | 0.00 | 389.73 | | | | | | | |
| | | Jul 20 | 514.02 | 0.00 | 0.00 | 0.00 | 514.02 | | | | | | | |
| | | Aug 20 | 499.73 | 0.00 | 4.38 | 0.00 | 504.11 | | | | | | | |
| | | Sep 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | |
| | | Total | 2070.31 | 10.53 | 14.03 | 0.00 | | | | | | | | |
| | | GPCB Limit in MT/Year | 3576 | 120 | 48 | Non - Hazardous | | | | | | | | |
| | | <p>*All Quantities are well within GPCB CC & A Limit. Please refer Annexure-5 for hazardous waste disposal details (April 2020 to September 2020) & Annexure 1C for latest CC&A # AWH-97435 dated 21.02.2019 valid till 02-08-2025.</p> | | | | | | | | | | | | |
| | | <p>The MoM of public hearing is enclosed as Annexure-6 & summarized details of Action Plan is given below.</p> | | | | | | | | | | | | |
| | | <table border="1"> <tr> <td>Sr. No</td> <td>No of Concerns Raised</td> <td>No of Action plans implemented</td> </tr> <tr> <td>1</td> <td>10</td> <td>10</td> </tr> </table> | Sr. No | No of Concerns Raised | No of Action plans implemented | 1 | 10 | 10 | | | | | | |
| Sr. No | No of Concerns Raised | No of Action plans implemented | | | | | | | | | | | | |
| 1 | 10 | 10 | | | | | | | | | | | | |
| | | <p>NOCs issued by Gujarat Pollution Control Board (GPCB) for Phorate (Tech)/Terbuphos (Tech) and Acephate are attached as Annexure-7. The incurred project cost is Rs. 16.5 Crores. Complied.</p> | | | | | | | | | | | | |
| 2.0 | <p>The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions:</p> | -- | | | | | | | | | | | | |
| A – SPECIFIC CONDITIONS | | | | | | | | | | | | | | |
| i | <p>The gaseous emissions (SO₂, NO_x, HCl, HC, NH₃, H₂S and Cl₂) and particulate matter from various process units should conform to the</p> | <p>We do flue & process stack monitoring through our lab internally and through third party (ENPRO Envirotech and Engineers Pvt Ltd) for consented parameters like PM, SO₂, NO_x, HCl, NH₃, H₂S, HC & Cl₂. We also conduct VOC Monitoring. The details of VOC Monitoring are given in</p> | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|---|--------|------------------|--|--|-----|-----|---|----------|-----|-----|---|--------------------------|-----|----|---|------------------|-----|----|---|-----------------|-----|----|--------|------------------|--|--|-----|-----|---|---------------|----|----|---|---------|-----|-----|---|-----|-----|----|---|----------|----|----|---|----------------|-----|-----|
| | standards prescribed by the concerned authorities from time to time. At no time, the emission levels should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency. | <p>compliance of EC Condition no ii. All parameters of process stack and flue stacks are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-8).</p> <p>We have established inhouse environmental laboratory with monitoring facilities. We have internal and external monitoring for all stacks/noise/effluent/VOC/Fugitive emissions. All results are well within limit. The details of monitoring are given in Annexure 8 (Stack Monitoring), Annexure 9 (Ambient Air Quality Monitoring), Annexure 10 (VOC Monitoring), Annexure 11 (Fugitive Emission), & Annexure 13 (Treated Effluent Analysis).</p> <p>The Unit ensures control of emission levels by operation of installed Air Pollution Control Devices. The regular maintenance during plant shutdown is also practiced keeping up date of installed APCD. In event of failure of pollution control systems, the respective unit is not started until achievement of desired efficiency. The details of control system (Interlocks) installed is attached as Annexure 12.</p> <p>Complied</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ii | Fugitive emissions in the workplace environment, product, raw material storage areas must be regularly monitored. The fugitive emissions containing solvents from the process and storage tank vents and accidental leakage of ethyl mercaptan and tertiary butyl mercaptan should be subjected to thermal destruction in the fume incinerator. | <p>We are monitoring fugitive emissions at workplace environment, product and raw material storage by using portable monitors for Tertiary Butyl Mercaptan (TBM), H₂S, NH₃ and Cl₂ by Internal QA laboratory team. Detailed report for fugitive emissions monitoring done by internal laboratory is enclosed as Annexure-11.</p> <p>The summarized results of internal laboratory for period of April 2020 to September 2020 are as follows;</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Major Parameters</th> <th colspan="2">Monitoring result / range (ppb) April 2020 to September 2020</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Chlorine</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>2</td> <td>Tertiary Butyl Mercaptan</td> <td>BDL</td> <td>40</td> </tr> <tr> <td>3</td> <td>H₂S</td> <td>BDL</td> <td>45</td> </tr> <tr> <td>4</td> <td>NH₃</td> <td>BDL</td> <td>50</td> </tr> </tbody> </table> <p><i>*There is no limit for Fugitive Emission hence we are comparing monitored values with TLV / TWA. For Tertiary Butyl Mercaptan, TLV- TWA is 0.5 ppm; for H₂S, TLV is 10 ppm and for NH₃, TLV is 25 ppm.</i></p> <p>All vents from the process reactor and storage tanks containing Tertiary Butyl Mercaptan (TBM) are connected to the captive fume incinerator for thermal destruction. The details of fume incineration system is attached as Annexure 12. The VOC is monitored, and results of VOC are attached as Annexure 10. The summary of VOC Monitoring Result is given below.</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Major Parameters</th> <th colspan="2">Monitoring result / range (ppb) April 2020 to September 2020</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ethyl Acetate</td> <td>27</td> <td>82</td> </tr> <tr> <td>2</td> <td>Toluene</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>MDC</td> <td>BDL</td> <td>52</td> </tr> <tr> <td>4</td> <td>Methanol</td> <td>21</td> <td>40</td> </tr> <tr> <td>5</td> <td>Di Ethyl Amine</td> <td>BDL</td> <td>BDL</td> </tr> </tbody> </table> | Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | Min | Max | 1 | Chlorine | BDL | BDL | 2 | Tertiary Butyl Mercaptan | BDL | 40 | 3 | H ₂ S | BDL | 45 | 4 | NH ₃ | BDL | 50 | Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | Min | Max | 1 | Ethyl Acetate | 27 | 82 | 2 | Toluene | BDL | BDL | 3 | MDC | BDL | 52 | 4 | Methanol | 21 | 40 | 5 | Di Ethyl Amine | BDL | BDL |
| Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Chlorine | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Tertiary Butyl Mercaptan | BDL | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | H ₂ S | BDL | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | NH ₃ | BDL | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Ethyl Acetate | 27 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Toluene | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MDC | BDL | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Methanol | 21 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Di Ethyl Amine | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|------------|--|--------------|------------------------|---------------------------------|-------|----|---|-------|------------|--|-------|------|-------------------------------|-------|------|----------------------------|-----------|--------|------------------|---------------------------------|-----------|-----|-----|---|---------------|----|----|---|---------|-----|-----|---|-----|-----|----|---|----------|----|----|---|----------------|-----|-----|
| | The flue gas emissions from the incinerator should conform to the standards prescribed by the Gujarat Pollution Control Board. | <p>The flue gas from Captive Fume Incinerator confirms to the standard stipulated by GPCB. The monitoring result ranges by external laboratory for Fume Incinerator are given below.</p> <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th> <th colspan="2">Monitoring results in mg/nM³ (April 2020 to September 2020)</th> <th rowspan="2">GPCB Permissible Limit</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>PM</td> <td>6.1</td> <td>7.0</td> <td>150 mg/nm3</td> </tr> <tr> <td>SO₂</td> <td>17.5</td> <td>21.8</td> <td>40 mg/nm3</td> </tr> <tr> <td>NOx</td> <td>11.4</td> <td>16.1</td> <td>25 mg/nm3</td> </tr> <tr> <td>HCl</td> <td>BDL</td> <td>BDL</td> <td>20 mg/nm3</td> </tr> </tbody> </table> <p>Complied.</p> | Parameter | Monitoring results in mg/nM ³ (April 2020 to September 2020) | | GPCB Permissible Limit | Min | Max | PM | 6.1 | 7.0 | 150 mg/nm3 | SO ₂ | 17.5 | 21.8 | 40 mg/nm3 | NOx | 11.4 | 16.1 | 25 mg/nm3 | HCl | BDL | BDL | 20 mg/nm3 | | | | | | | | | | | | | | | | | | | | | | |
| Parameter | Monitoring results in mg/nM ³ (April 2020 to September 2020) | | | GPCB Permissible Limit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PM | 6.1 | 7.0 | 150 mg/nm3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SO ₂ | 17.5 | 21.8 | 40 mg/nm3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOx | 11.4 | 16.1 | 25 mg/nm3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HCl | BDL | BDL | 20 mg/nm3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iii | <p>The process emissions (H₂S and NH₃, methyl chloride and volatile organic carbon) should be scrubbed through ventury and packed column scrubbers and conform to prescribed standards.</p> <p>The efficiency of the scrubber should be improved and maintained as per the best practicable technology.</p> <p>VOC data should be monitored and submitted to the Ministry.</p> | <p>Process emissions such as H₂S, NH₃, Methyl Chloride and VOC are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. We also do process stack monitoring against GPCB standards through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB. The monitoring ranges for all stacks is given in compliance of specific condition no 1 with internal and external monitoring results. (detailed report is attached as Annexure-8).</p> <p>The logbook is maintained for scrubbers and reviewed weekly during operational meetings with Unit Head. The efficiency of scrubbers is Summarized below.</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Stack Attached To</th> <th>% Efficiency</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Acephate Plant - Water Scrubber</td> <td>99.52</td> </tr> <tr> <td>2</td> <td>DETA/DETCI/ZnDTP/Terbuphos Plant Scrubber</td> <td>99.95</td> </tr> <tr> <td>3</td> <td>P2S5 Charging Reactor Terbuphos Plant Scrubber</td> <td>99.95</td> </tr> <tr> <td>4</td> <td>HCl Scrubber - Devrinol Plant</td> <td>99.99</td> </tr> <tr> <td>5</td> <td>Local Vent - Carbon Filter</td> <td>99.99</td> </tr> </tbody> </table> <p>VOC report is being submitted to the Ministry along with half yearly EC compliance report as Annexure 10. The Summarized monitoring data of period: April 2020 to September 2020 is given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Major Parameters</th> <th colspan="2">Monitoring result / range (ppb)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ethyl Acetate</td> <td>27</td> <td>82</td> </tr> <tr> <td>2</td> <td>Toluene</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>MDC</td> <td>BDL</td> <td>52</td> </tr> <tr> <td>4</td> <td>Methanol</td> <td>21</td> <td>40</td> </tr> <tr> <td>5</td> <td>Di Ethyl Amine</td> <td>BDL</td> <td>BDL</td> </tr> </tbody> </table> <p><i>*There is no limit for Fugitive Emission hence we are comparing monitored values with TLV-TWA. For Mercaptan, TLV-TWA is 0.5 ppm; for H₂S, TLV is 10 ppm and for NH₃, TLV is 25 ppm.</i></p> <p>Complied.</p> | Sr. No | Stack Attached To | % Efficiency | 1 | Acephate Plant - Water Scrubber | 99.52 | 2 | DETA/DETCI/ZnDTP/Terbuphos Plant Scrubber | 99.95 | 3 | P2S5 Charging Reactor Terbuphos Plant Scrubber | 99.95 | 4 | HCl Scrubber - Devrinol Plant | 99.99 | 5 | Local Vent - Carbon Filter | 99.99 | Sr. No | Major Parameters | Monitoring result / range (ppb) | | Min | Max | 1 | Ethyl Acetate | 27 | 82 | 2 | Toluene | BDL | BDL | 3 | MDC | BDL | 52 | 4 | Methanol | 21 | 40 | 5 | Di Ethyl Amine | BDL | BDL |
| Sr. No | Stack Attached To | % Efficiency | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Acephate Plant - Water Scrubber | 99.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | DETA/DETCI/ZnDTP/Terbuphos Plant Scrubber | 99.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | P2S5 Charging Reactor Terbuphos Plant Scrubber | 99.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HCl Scrubber - Devrinol Plant | 99.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Local Vent - Carbon Filter | 99.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Major Parameters | Monitoring result / range (ppb) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Ethyl Acetate | 27 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Toluene | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MDC | BDL | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Methanol | 21 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Di Ethyl Amine | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--|------------------------------|-----------------------------|--------------------------------|------------------------------|------------------|--------|-------|------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|-------|----------------------------------|--------|------|
| iv | <p>As reflected in the EIA /EMP report, effluent generation should not exceed 218 m3/d. To reduce the organic load , various effluent streams should be segregated , and following treatment system should be followed.</p> <ul style="list-style-type: none"> The organic waste water streams generated from the process and low boilers and distillation residues generated from the process, which are organic in nature should be collected separately and incinerated. The effluent stream containing high dissolved solid before discharging into solar evaporation pond (SEP) having an area of 4000 sq.m should be treated suitably. Solvents from the effluent should be recovered before discharging into SEP. Besides, as reflected in EIA /EMP report, aqueous stream containing high dissolved solid | <p>The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. We have taken Environmental clearance vide EC letter no J-11011/1281/2007-IA(II) dated April 15th, 2008 with permission of total waste water generation of 533 KLD. The copy of EC letter is attached as Annexure 1A. The treated effluent analysis report (through internal lab) is attached as Annexure-13 for the period April 2020 to September 2020. The treated effluent from ETP is sent to RO Plant for Treatment & Recycle / Reuse since unit has implemented ZLD from May-2014.</p> <p>We are having full-fledged Effluent Treatment Plant (ETP) (capacity @ 550 KLD) having primary, secondary & tertiary treatment. We have segregated all effluent streams according to their treatment criteria and proper treatment is being given.</p> <p>The Summary of Waste Water Generation, Treatment & Disposal is tabulated below.</p> <table border="1" data-bbox="695 842 1489 1150"> <thead> <tr> <th>Month</th> <th>RO Inlet Quantity in KL/Day</th> <th>RO Permeate Quantity in KL/Day</th> <th>RO Reject Quantity in KL/Day</th> <th>Discharge in KLD</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>106.6</td> <td>85.7</td> <td>20.9</td> <td>NIL</td> </tr> <tr> <td>May 20</td> <td>159.1</td> <td>127.5</td> <td>31.5</td> <td>NIL</td> </tr> <tr> <td>Jun 20</td> <td>174.3</td> <td>139.1</td> <td>35.3</td> <td>NIL</td> </tr> <tr> <td>Jul 20</td> <td>157.5</td> <td>124.7</td> <td>32.7</td> <td>NIL</td> </tr> <tr> <td>Aug 20</td> <td>142.5</td> <td>111.2</td> <td>31.3</td> <td>NIL</td> </tr> <tr> <td>Sep 20</td> <td>158.5</td> <td>126.7</td> <td>31.8</td> <td>NIL</td> </tr> </tbody> </table> <p><i>The unit is ZLD since Month May 2014 & all RO Reject is sent to evaporation system.</i></p> <ul style="list-style-type: none"> The generated Organic waste streams such as low boiler, distillation residues, aqueous waste are being sent to BEIL, Ankleshwar for incineration. BEIL membership is enclosed as Annexure-4 & Detailed Quantity of Incinerable Waste Sent to BEIL is attached as Annexure 05. Complied We are not using solar evaporation pond (SEP) any more. The Unit has discontinued operation of solar evaporation pond. The communication on discontinuation of solar evaporation pond has been made to GPCB vide UPL Letter no. u-2/f/a-2/06 dated July 7, 2006. The copy of letter is attached as Annexure 4B. The effluent having high Total Dissolved Solid (TDS) are sent to captive evaporation systems. The summarized evaporation report (period: April 2020 to September 2020) is tabulated below. <table border="1" data-bbox="722 1816 1463 1885"> <thead> <tr> <th>Month</th> <th>Evaporation Quantity in KL/Month</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>1877</td> </tr> </tbody> </table> | Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | Apr 20 | 106.6 | 85.7 | 20.9 | NIL | May 20 | 159.1 | 127.5 | 31.5 | NIL | Jun 20 | 174.3 | 139.1 | 35.3 | NIL | Jul 20 | 157.5 | 124.7 | 32.7 | NIL | Aug 20 | 142.5 | 111.2 | 31.3 | NIL | Sep 20 | 158.5 | 126.7 | 31.8 | NIL | Month | Evaporation Quantity in KL/Month | Apr 20 | 1877 |
| Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 106.6 | 85.7 | 20.9 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 159.1 | 127.5 | 31.5 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 174.3 | 139.1 | 35.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 157.5 | 124.7 | 32.7 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 142.5 | 111.2 | 31.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 158.5 | 126.7 | 31.8 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Evaporation Quantity in KL/Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 1877 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|---|--------|------|--------|------|--------|------|--------|------|--------|------|--|-------|--|--------|-----|--------|-----|--------|-----|--------|----|--------|-----|--------|-----|-----------|-------------------|---|--|-----|-----|----|-----------|-----|------|-----|---------|----|----|-----|----------|----|----|-----------------|----------|----|----|----------------|---------|-----|-----|--------|-------|-----|-----|-----------|----------|-----|-----|
| | <p>should be evaporated by installation of evaporation system with the help of steam.</p> <ul style="list-style-type: none"> The streams with high organic load (i.e. high COD and BOD), should be treated chemically with hydrogen peroxide and then sent to effluent treatment plant for further treatment. The dilute waste streams generated from the process, utilities including blow downs of cooling towers and boilers and wastewater from softening plant and domestic waste water should be given primary, secondary and tertiary treatment. The treated effluent after conforming to the prescribed standards by GPCB should be discharged into GIDC drain, which also carries effluent from the industrial estates namely Ankleshwar, Panoli and Jhagadia. | <table border="1"> <tr><td>May 20</td><td>2767</td></tr> <tr><td>Jun 20</td><td>3064</td></tr> <tr><td>Jul 20</td><td>3281</td></tr> <tr><td>Aug 20</td><td>2982</td></tr> <tr><td>Sep 20</td><td>3266</td></tr> </table> | May 20 | 2767 | Jun 20 | 3064 | Jul 20 | 3281 | Aug 20 | 2982 | Sep 20 | 3266 | <ul style="list-style-type: none"> The generated salt after evaporation is sent to BEIL, Ankleshwar for landfilling. The details of land filing waste is given in Annexure 5. Complied. In the chemical treatment section, effluent having high COD/organic load is treated with Hydrogen Peroxide (H₂O₂) followed by ETP. The detailed effluent treatment scheme showing process of chemical treatment is attached as Annexure-14. The quantity of High COD Effluent treatment is Summarized Below. <table border="1"> <thead> <tr> <th>Month</th> <th>High COD - Chemical Treatment (H₂O₂ treatment) Quantity In KL/Month</th> </tr> </thead> <tbody> <tr><td>Apr 20</td><td>224</td></tr> <tr><td>May 20</td><td>260</td></tr> <tr><td>Jun 20</td><td>170</td></tr> <tr><td>Jul 20</td><td>82</td></tr> <tr><td>Aug 20</td><td>217</td></tr> <tr><td>Sep 20</td><td>314</td></tr> </tbody> </table> <ul style="list-style-type: none"> ETP having primary, secondary and tertiary treatment facilities are in operation and all dilute effluent streams generated from the process, utility and sewage are being treated in existing ETP with capacity of 550 KLD. The details of treated water quality from ETP (Feed to RO Plant) is given as Annexure 13. The summarized analysis results are given below <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Permissible Limit</th> <th colspan="2">Measured Values from (April 20 to Sep 20)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr><td>pH</td><td>5.5 - 8.5</td><td>6.5</td><td>8.43</td></tr> <tr><td>BOD</td><td>30 mg/l</td><td>17</td><td>30</td></tr> <tr><td>COD</td><td>250 mg/l</td><td>64</td><td>99</td></tr> <tr><td>Suspended Solid</td><td>100 mg/l</td><td>18</td><td>49</td></tr> <tr><td>Oil and Grease</td><td>10 mg/l</td><td>BDL</td><td>BDL</td></tr> <tr><td>Phenol</td><td>1mg/l</td><td>BDL</td><td>BDL</td></tr> <tr><td>Sulphides</td><td>0.5 mg/l</td><td>0.1</td><td>0.4</td></tr> </tbody> </table> <p><i>All Values are in mg/l except pH</i></p> <p>However, the Unit is operating as Zero Liquid Discharge (ZLD) since May-2014 by using RO system followed by evaporation system and NO effluent is being discharged to GIDC drain/ NCT for further treatment/disposal. The treated waste water analysis report is attached as Annexure 13. However, the unit is having membership of Final Effluent Treatment Plant operated by Narmada Clean Tech (NCT). The copy of membership is attached as Annexure 25.</p> | Month | High COD - Chemical Treatment (H ₂ O ₂ treatment) Quantity In KL/Month | Apr 20 | 224 | May 20 | 260 | Jun 20 | 170 | Jul 20 | 82 | Aug 20 | 217 | Sep 20 | 314 | Parameter | Permissible Limit | Measured Values from (April 20 to Sep 20) | | Min | Max | pH | 5.5 - 8.5 | 6.5 | 8.43 | BOD | 30 mg/l | 17 | 30 | COD | 250 mg/l | 64 | 99 | Suspended Solid | 100 mg/l | 18 | 49 | Oil and Grease | 10 mg/l | BDL | BDL | Phenol | 1mg/l | BDL | BDL | Sulphides | 0.5 mg/l | 0.1 | 0.4 |
| May 20 | 2767 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 3064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 3281 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 2982 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 3266 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | High COD - Chemical Treatment (H ₂ O ₂ treatment) Quantity In KL/Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 224 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 260 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 314 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parameter | Permissible Limit | Measured Values from (April 20 to Sep 20) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | 5.5 - 8.5 | 6.5 | 8.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD | 30 mg/l | 17 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COD | 250 mg/l | 64 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suspended Solid | 100 mg/l | 18 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil and Grease | 10 mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenol | 1mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulphides | 0.5 mg/l | 0.1 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|---|-----------|-------------------|---|--|-----|-----|----|-----------|-----|------|-----|---------|----|----|-----|----------|----|----|-----------------|----------|----|----|----------------|---------|-----|-----|--------|-------|-----|-----|-----------|----------|-----|-----|
| | <ul style="list-style-type: none"> • The treated effluent should conform to the standards prescribed by the Gujarat State Pollution Control Board vide its Gazette Notification dated 30th October, 2001 before discharging into sea via Amlakhadi drain. • The effluent quality before disposal to the Amlakhadi drain should be as follows: <ul style="list-style-type: none"> PH - 5.5 to 8.5 BOD - 130 mg/l COD - 100 mg/l Suspended solid - 100mg/l Oil and grease- 10mg/l Phenol - 1mg/l Sulphides - 0.5mg/l | <p>The Unit is operating as Zero Liquid Discharge (ZLD) since May- 2014 by using RO system followed by evaporation system and NO effluent is being discharged to Amlakhadi/ Sea for further treatment/disposal. However, the unit is having membership of Common Conveyance & Treatment System operated by Narmada Clean Tech (NCT)- a common effluent treatment plant developed by Gujarat Industrial Development Corporation (GIDC).</p> <p>The Unit is operating as Zero Liquid Discharge (ZLD) since May- 2014 by using RO system followed by evaporation system and NO effluent is being discharged to Amlakhadi/ Sea for further treatment/disposal. The treated waste water analysis report is attached as Annexure 13. Moreover, the Unit has also installed online CCTV Camera and magnetic flow meter at ETP outlet line and online CCTV footage is being transmitted to CPCB website.</p> <p>The summary of treated water quality is given below & detailed report is attached as Annexure 13.</p> <table border="1" data-bbox="695 898 1489 1304"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Permissible Limit</th> <th colspan="2">Measured Values from (Apr 20 to Sep 20)</th> </tr> <tr> <th>Min</th> <th>Min</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 - 8.5</td> <td>6.5</td> <td>8.43</td> </tr> <tr> <td>BOD</td> <td>30 mg/l</td> <td>17</td> <td>30</td> </tr> <tr> <td>COD</td> <td>250 mg/l</td> <td>64</td> <td>99</td> </tr> <tr> <td>Suspended Solid</td> <td>100 mg/l</td> <td>18</td> <td>49</td> </tr> <tr> <td>Oil and Grease</td> <td>10 mg/l</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>Phenol</td> <td>1mg/l</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>Sulphides</td> <td>0.5 mg/l</td> <td>0.1</td> <td>0.4</td> </tr> </tbody> </table> <p><u>All Values are in mg/l except pH</u> Complied.</p> | Parameter | Permissible Limit | Measured Values from (Apr 20 to Sep 20) | | Min | Min | pH | 5.5 - 8.5 | 6.5 | 8.43 | BOD | 30 mg/l | 17 | 30 | COD | 250 mg/l | 64 | 99 | Suspended Solid | 100 mg/l | 18 | 49 | Oil and Grease | 10 mg/l | BDL | BDL | Phenol | 1mg/l | BDL | BDL | Sulphides | 0.5 mg/l | 0.1 | 0.4 |
| Parameter | Permissible Limit | Measured Values from (Apr 20 to Sep 20) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | 5.5 - 8.5 | 6.5 | 8.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD | 30 mg/l | 17 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COD | 250 mg/l | 64 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suspended Solid | 100 mg/l | 18 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil and Grease | 10 mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenol | 1mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulphides | 0.5 mg/l | 0.1 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| v | <p>The Company should recover methyl chloride (CH₃Cl) by installation of CH₃Cl recovery plant.</p> <p>Further, solvent recovery should be improved and attempts should be made to achieve at least 90% recovery, wherever possible.</p> <p>Rest of the solvents, which can't be recovered should be incinerated. Action plan in this regard should be submitted to the Ministry within three months.</p> | <p>Methyl chloride recovery plant is not installed as no product was manufactured which generates methyl chloride during reporting period.</p> <p>The solvent recovery is above 95% and will be further improved. We have solvent recovery internally integrated with manufacturing process. We have installed primary & secondary condensation. We have supplied chilled water at primary stage for condensation of solvents & Chilled brine for secondary condensation. We have proper monitoring of solvent recovery and we are regularly monitoring generation of VOCs.</p> <p>Organic residue from distillation system after recovery of solvent is sent for incineration at BEIL, Ankleshwar. The quantity of waste sent to BEIL for incineration has been attached as Annexure 05.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
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| Sr. No. | Condition | Compliance Status |
|---------|--|--|
| vi | <p>The Company should upgrade existing incinerator for incineration of hazardous waste.</p> <p>The organic aqueous and solid waste generated from the unit should be collected and incinerated for total destruction.</p> <p>As reflected in the EIA / EMP report, the solid waste and the ash obtained after incineration should be stored within the plant premises in a pit with impervious flooring and leachate collection system.</p> <p>The incinerated ash and the sludge from ETP should be finally disposed off in a common Treatment, Storage and Disposal Facility (TSDF) developed by M/s Bharuch Enviro Infrastructure Limited.</p> <p>The leachate should be sent to ETP for treatment.</p> | <p>Not Applicable - We have dismantled captive incinerator and all incineration wastes (distillation residue, organic aqueous, organic solid wastes, etc.) are being sent to BEIL, Ankleshwar for incineration. BEIL membership is enclosed as Annexure-4. The communication for discontinuation of incinerator to GPCB is attached as Annexure 4A.</p> <p>We have dismantled captive incinerator and all incineration wastes (distillation residue, organic aqueous, organic solid wastes etc) are being sent to BEIL, Ankleshwar for incineration. BEIL membership is enclosed as Annexure-4. The communication for discontinuation of incinerator to GPCB is attached as Annexure 4A. The quantities of Hazardous Waste sent to BEIL for disposal is attached as Annexure 5.</p> <p>As mentioned above, we have discontinued incineration process for hazardous wastes. The generated organic residues are sent to BEIL, Ankleshwar for Incineration and disposal. The Unit has provided dedicated hazardous waste storage area as per CPCB Guidelines. The photograph showing Hazardous waste storage area is given below.</p>  <p>The unit has discontinued incinerator hence no incineration Ash has been generated from plant. ETP sludge is being disposed to BEIL, Ankleshwar for landfilling. The quantity details of Hazardous Waste Generation and disposal for reporting period is attached as Annexure-5 & Summarized above in EC Compliance Condition No VI.</p> <p>Leachate is taken to full-fledged ETP for further treatment. Complied.</p> |
| vii | <p>As per the commitment given to the Ministry, the existing incineration system should be upgraded by 31.03.2004 .</p> <p>The Company should also take membership of common Incineration system being set up by Bharuch Enviro Infrastructure Limited at GIDC, Ankleshwar</p> | <p>We have dismantled captive incinerator and all incineration wastes (distillation residue, organic aqueous, organic solid wastes etc.) are being sent to BEIL, Ankleshwar for incineration. The communication for discontinuation of incinerator to GPCB is attached as Annexure 4A.</p> <p>BEIL membership is enclosed as Annexure-4 and hazardous waste details is attached as Annexure-5. The summary of Hazardous Waste disposal to BEIL is submitted in Compliance to EC Condition no IV. Complied.</p> |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--|--------|-------|-------------------------------|--|-------------------------------|-----|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|
| Viii | <p>The destructive efficiency of the incinerator should be assessed by an agency like the Central Pollution Control Board and a report submitted.</p> <p>The Company should monitor VOCs and data submitted to the Ministry /CPCB/SPCB regularly.</p> | <p>Not Applicable.</p> <p>We have dismantled captive incinerator and all incineration wastes (distillation residue, organic aqueous, organic solid wastes etc.) are being sent to BEIL, Ankleshwar for incineration. BEIL membership is enclosed as Annexure-4 and hazardous waste details is attached as Annexure-5 & Summarized in EC Compliance Condition no VI.</p> <p>The VOC monitoring being done regularly, and data is being submitted to Ministry/CPCB/GPCB. Please refer Annexure-10 for VOC monitoring details (period: April 2020 to September 2020). The analysis ranges of VOC Monitoring are given in EC Compliance Specific condition no iii.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ix | <p>As per the Charter on Corporate Responsibility on Environment Protection, the bio-assay test should be replaced by Toxicity Factor test method developed by CPCB.</p> <p>Toxicity factor of four (TF-4) should be achieved by December 2003 and TF-2 by July, 2006.</p> <p>Action plan in this regard should be submitted within three months on issue of this letter.</p> | <p>Complied.</p> <p>We are doing bio-assay and Toxicity Factor test and TF-4 is replaced by TF-2. All reports are being submitted to the Ministry regularly along with half yearly compliance report. The summary of TF test and Bio-Assay Result has been given in table below & detailed analysis report is attached as Annexure-15.</p> <table border="1" data-bbox="695 877 1484 1163"> <thead> <tr> <th rowspan="2">Sr. NO</th> <th rowspan="2">Month</th> <th colspan="2">TF Result</th> <th rowspan="2">Bio Assay Result (% Survival)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Apr 20</td> <td>1</td> <td>2</td> <td>100</td> </tr> <tr> <td>2</td> <td>May 20</td> <td>1</td> <td>2</td> <td>100</td> </tr> <tr> <td>3</td> <td>Jun 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>4</td> <td>Jul 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>5</td> <td>Aug 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>6</td> <td>Sep 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> </tbody> </table> <p>The Unit is ZLD Since May 2014. The treated effluent from ETP is sent to RO for Treatment and treated water is recycled back in plant.</p> <p>We are doing bio-assay and Toxicity Factor test and TF-4 is replaced by TF-2. All reports are being submitted to the Ministry regularly along with half yearly compliance report. Please refer Annexure-15 for detailed reports.</p> <p>The copy of action plan submitted to MoEF is attached as Annexure 16A & Compliance of Action plan is attached as Annexure 16B.</p> <p>Additionally, the unit has implemented Zero Liquid Discharge (ZLD) since May 2014.</p> | Sr. NO | Month | TF Result | | Bio Assay Result (% Survival) | Min | Max | 1 | Apr 20 | 1 | 2 | 100 | 2 | May 20 | 1 | 2 | 100 | 3 | Jun 20 | 1 | 1 | 100 | 4 | Jul 20 | 1 | 1 | 100 | 5 | Aug 20 | 1 | 1 | 100 | 6 | Sep 20 | 1 | 1 | 100 |
| Sr. NO | Month | TF Result | | | Bio Assay Result (% Survival) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Apr 20 | 1 | 2 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | May 20 | 1 | 2 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Jun 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Jul 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Aug 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Sep 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | <p>As per the action plan submitted to the Ministry, the Company should adopt waste minimization/cleaner production techniques to reduce solvent, raw material, water and energy consumption.</p> | <p>This is an ongoing activity. We have made our unit as ZLD since May-2014 through RO followed by evaporation system. By this way, we reduced our water intake quantity and waste water discharge quantity. Our solvent recovery is more than 96% and trying to improve further. As cleaner production technique, we are recovering by-products from the waste stream such as dilute acetic acid and sodium acetate from Acephate plant. The action plan and its compliance status is attached as Annexure 17.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | |
|--|---|--|------------------|-----------------------|--|---|---|--|---------------------------------------|---|
| | <p>The company should install modified P2S5 handling system with tote bins to prevent spillages.</p> <p>To reduce decontamination and disposal, the Company should recycle the drums.</p> | <p>We have installed proper P2S5 handling system with tote bins. The photograph showing Tote Bins is attached as Annexure 18.</p> <p>We have installed drum de-contamination facility where all drums are getting de-contaminated and reused/recycled. The photograph showing drum decontamination facility is attached as Annexure 19. Complied.</p> | | | | | | | | |
| Xi | The Company should undertake rainwater harvesting measures as per action plan in this regard submitted to this Ministry. | <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection comes to 1168 KL in a year. The collected rain water is used as cooling tower make up water. Also, part of the rain water collected is taken to storage tanks. The storage tank capacity is 650 KL. We are not recharging harvested rain water in to the ground due to local SPCB restriction. The copy of action plan submitted to MoEF is attached as Annexure 16 A & Compliance of Action plan is attached as Annexure 16 B. Complied.</p> | | | | | | | | |
| Xii | The project proponent shall comply with the environmental protection measures and safeguards recommended in EIA/EMP/Risk Analysis reports as well as the recommendations of the public hearing panel. | <p>All environmental protection measures and recommended safe guards are complied; given in EIA/EMP/Risk analysis report and during public hearing.</p> <p>The detailed compliance to EMP & Risk Analysis is given below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">EMP Requirements</th> <th style="text-align: center;">Implementation Status</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <p>Air Pollution Control Flue Gas & Process Vents</p> </td> <td style="vertical-align: top;"> <p>Use of Clean Fuel: The unit has provided Natural Gas/LSHS/FO Based boilers with adequate stack height for dispersion of pollutants.</p> <p>Process Emissions: The Process emissions such as H₂S, NH₃, HCL and Cl₂ are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. The unit has also provided bag filters for handling of particulate matter emissions. <i>The details of monitoring are summarized in Compliance of Specific Condition No I.</i></p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Air Pollution Control Fugitive Emission Control</p> </td> <td style="vertical-align: top;"> <p>The unit has provided seal less pumps, closed transfer of materials with pneumatic pressure, solvents, minimization in manual handling, implementation of LDAR Programme for minimization of fugitive emissions. <i>The details of monitoring are summarized in Compliance of Specific Condition No II.</i></p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Water Pollution Control</p> </td> <td style="vertical-align: top;"> <p>The unit has provided 550 KLD Capacity of ETP with primary, secondary & tertiary treatment capacity. The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. <i>The details of monitoring are summarized in Compliance of Specific Condition No IV.</i></p> </td> </tr> </tbody> </table> | EMP Requirements | Implementation Status | <p>Air Pollution Control Flue Gas & Process Vents</p> | <p>Use of Clean Fuel: The unit has provided Natural Gas/LSHS/FO Based boilers with adequate stack height for dispersion of pollutants.</p> <p>Process Emissions: The Process emissions such as H₂S, NH₃, HCL and Cl₂ are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. The unit has also provided bag filters for handling of particulate matter emissions. <i>The details of monitoring are summarized in Compliance of Specific Condition No I.</i></p> | <p>Air Pollution Control Fugitive Emission Control</p> | <p>The unit has provided seal less pumps, closed transfer of materials with pneumatic pressure, solvents, minimization in manual handling, implementation of LDAR Programme for minimization of fugitive emissions. <i>The details of monitoring are summarized in Compliance of Specific Condition No II.</i></p> | <p>Water Pollution Control</p> | <p>The unit has provided 550 KLD Capacity of ETP with primary, secondary & tertiary treatment capacity. The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. <i>The details of monitoring are summarized in Compliance of Specific Condition No IV.</i></p> |
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|--------------------------|--|---|-------------------------|--|------------------|--|------------------|--|--------------------------|--|------------------------|--|-----------------------|---|------------------------|---|
| | | <table border="1"> <tr> <td data-bbox="691 289 964 552">Noise Pollution Control</td> <td data-bbox="964 289 1505 552"> <p>The Unit has provided acoustic enclosures, preventive maintenance, to high noise generating machinery. The employees are provided Ear plug, ear muff for prevention of noise. The green belt developed to curtain ambient air noise levels.</p> <p><u>The details of monitoring are summarized in Compliance of General Condition No V.</u></p> </td> </tr> <tr> <td data-bbox="691 552 964 814">Waste Management</td> <td data-bbox="964 552 1505 814"> <p>The unit has obtained membership of TSDF – BEIL Ankleshwar for disposal of Hazardous waste. The by products have been sold to authorized end user based on applicability of HWM Rules 2016.</p> <p><u>The details of compliance are summarized in Compliance of Specific & General Condition No IV.</u></p> </td> </tr> <tr> <td data-bbox="691 814 964 947">Water Management</td> <td data-bbox="964 814 1505 947"> <p>The unit is not using ground water or river water. The water is supplied by GIDC.</p> <p><u>The details of monitoring are summarized in Compliance of Condition No I.</u></p> </td> </tr> <tr> <td data-bbox="691 947 964 1360">Environmental Monitoring</td> <td data-bbox="964 947 1505 1360"> <p>The monitoring of different environmental parameters in Stacks, AAQM, Noise, Fugitive emissions, VOCs, Daily effluent analysis are on-going at internal laboratory of UPL Unit 2 as well as conducted by Third Party - NABL Accredited laboratory.</p> <p>The unit has installed continuous online meter at treated effluent for parameters Flow & Camera as per CPCB Guidelines since unit is ZLD.</p> <p><u>The details of monitoring are summarized in Compliance of Specific Condition No I, IV,IX & General condition no IV.</u></p> </td> </tr> <tr> <td data-bbox="691 1360 964 1633">Environmental Auditing</td> <td data-bbox="964 1360 1505 1633"> <p>The Environmental Audit has been conducted by External auditor duly appointed by GPCB for Each Financial Year for Environmental Audit of all parameters. The auditor submits audit report with recommendation to GPCB for Improvements.</p> <p><u>The details of monitoring are summarized in Compliance of Specific Condition No I, IV,IX & General condition no IV.</u></p> </td> </tr> <tr> <td data-bbox="691 1633 964 1791">Rain Water Harvesting</td> <td data-bbox="964 1633 1505 1791"> <p>The unit has implemented rain water harvesting for DG house, Laboratory Building, and Store & Commercial Godown.</p> <p><u>The details of monitoring are summarized in Compliance of Specific Condition No XI.</u></p> </td> </tr> <tr> <td data-bbox="691 1791 964 1881">Green Belt Development</td> <td data-bbox="964 1791 1505 1881"> <p>The unit has implemented green belt development activity by coverage of 13911.58 M² area.</p> </td> </tr> </table> | Noise Pollution Control | <p>The Unit has provided acoustic enclosures, preventive maintenance, to high noise generating machinery. The employees are provided Ear plug, ear muff for prevention of noise. The green belt developed to curtain ambient air noise levels.</p> <p><u>The details of monitoring are summarized in Compliance of General Condition No V.</u></p> | Waste Management | <p>The unit has obtained membership of TSDF – BEIL Ankleshwar for disposal of Hazardous waste. The by products have been sold to authorized end user based on applicability of HWM Rules 2016.</p> <p><u>The details of compliance are summarized in Compliance of Specific & General Condition No IV.</u></p> | Water Management | <p>The unit is not using ground water or river water. 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| Noise Pollution Control | <p>The Unit has provided acoustic enclosures, preventive maintenance, to high noise generating machinery. The employees are provided Ear plug, ear muff for prevention of noise. The green belt developed to curtain ambient air noise levels.</p> <p><u>The details of monitoring are summarized in Compliance of General Condition No V.</u></p> | | | | | | | | | | | | | | | |
| Waste Management | <p>The unit has obtained membership of TSDF – BEIL Ankleshwar for disposal of Hazardous waste. The by products have been sold to authorized end user based on applicability of HWM Rules 2016.</p> <p><u>The details of compliance are summarized in Compliance of Specific & General Condition No IV.</u></p> | | | | | | | | | | | | | | | |
| Water Management | <p>The unit is not using ground water or river water. The water is supplied by GIDC.</p> <p><u>The details of monitoring are summarized in Compliance of Condition No I.</u></p> | | | | | | | | | | | | | | | |
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| Green Belt Development | <p>The unit has implemented green belt development activity by coverage of 13911.58 M² area.</p> | | | | | | | | | | | | | | | |

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|------------------|---|---|--|--|------|---|--|---------|------|------|---------|-------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|--------------|--------------|-------------|
| | | | <i>The details of monitoring are summarized in Compliance of Specific Condition No XIII.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Environmental Management Cell | The unit has full-fledged environment management cell in place for Reporting, Auditing & Monitoring of Environmental Parameters and regulations. <i>The details of monitoring are summarized in Compliance of General Condition No VIII.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Hazard Identification & Risk Assessment / Disaster Management | The unit has identified Major Hazards associated with all high risk activities & prepared Risk Assessment. The Outcome of risk assessment with higher hazards has been covered under work permit procedure with different safety checks and systems for minimization of Hazards. The Onsite emergency plan is prepared and submitted to regulatory on annual basis. The unit conducts mock-drills for preparedness during crisis. The unit is a part of Crisis Management Group operated by GIDC Ankleshwar. <i>The details of monitoring are summarized in Compliance of General Condition No III.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Xiii | <p>Green belt of adequate width and density in the project area of 1200 sq.m in addition to 7642 sq.m of area already afforested should be provided to mitigate the effect of fugitive emissions all-round the plant.</p> <p>The development of green belt along the boundary wall, open space and avenue roads should be improved in consultation with the local DFO as per the CPCB guidelines.</p> | <p>The unit has developed 13911.58 sq. m of factory area as a green belt. In addition, the unit has signed agreement for development of 45 acres (182,108.54 m2) of land for greenbelt development from ~3 km distance at survey no 611/613/614/615 & 616 located at village – Mandva The Map showing green belt area is attached as Annexure 26. The Photograph showing existing green belt is attached as Annexure 20.</p> <p>The unit has developed green belt as per local DFO/CPCB Guidelines. The unit maintains green belt by appointment of dedicated horticulturist and maintenance team. Unit takes new saplings from captive nursery located at Unit 1 for further development of green belt.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xiv | As per the policy decision taken vide this Ministry's Circular no. J-21011/8/98IA II (I) dated 14th May, 2002 and 23rd June, 2003, the Company should earmark a separate fund i.e. 1% of the project cost (Rs. 16.5 crores as per questionnaire) for eco-development measures including community welfare measures in the project area. | <p>We submitted eco-development cost details to GPCB/Ministry, indicating about 1% (INR 16.50 Lacs) towards eco-development measures including community welfare measures with approval from GPCB (please refer submitted letter as Annexure-21 & Summarized below.</p> <table border="1" data-bbox="691 1549 1505 1879"> <thead> <tr> <th data-bbox="691 1549 834 1619">Year</th> <th data-bbox="834 1549 1203 1619">Contribution in Rs. Lakhs for Technical Library at Ankleshwar</th> <th data-bbox="1203 1549 1505 1619">Contribution in Rs. Lakhs for School at Ankleshwar</th> </tr> </thead> <tbody> <tr> <td data-bbox="691 1619 834 1650">1997-98</td> <td data-bbox="834 1619 1203 1650">5.00</td> <td data-bbox="1203 1619 1505 1650">1.20</td> </tr> <tr> <td data-bbox="691 1650 834 1682">1998-99</td> <td data-bbox="834 1650 1203 1682">24.00</td> <td data-bbox="1203 1650 1505 1682">1.20</td> </tr> <tr> <td data-bbox="691 1682 834 1713">1999-00</td> <td data-bbox="834 1682 1203 1713">1.00</td> <td data-bbox="1203 1682 1505 1713">1.20</td> </tr> <tr> <td data-bbox="691 1713 834 1745">2000-01</td> <td data-bbox="834 1713 1203 1745">0.00</td> <td data-bbox="1203 1713 1505 1745">1.20</td> </tr> <tr> <td data-bbox="691 1745 834 1776">2001-02</td> <td data-bbox="834 1745 1203 1776">0.50</td> <td data-bbox="1203 1745 1505 1776">1.20</td> </tr> <tr> <td data-bbox="691 1776 834 1808">2002-03</td> <td data-bbox="834 1776 1203 1808">1.00</td> <td data-bbox="1203 1776 1505 1808">1.20</td> </tr> <tr> <td data-bbox="691 1808 834 1839">2003-04</td> <td data-bbox="834 1808 1203 1839">0.00</td> <td data-bbox="1203 1808 1505 1839">0.70</td> </tr> <tr> <td data-bbox="691 1839 834 1879">Total</td> <td data-bbox="834 1839 1203 1879">31.50</td> <td data-bbox="1203 1839 1505 1879">7.90</td> </tr> </tbody> </table> | | | Year | Contribution in Rs. Lakhs for Technical Library at Ankleshwar | Contribution in Rs. Lakhs for School at Ankleshwar | 1997-98 | 5.00 | 1.20 | 1998-99 | 24.00 | 1.20 | 1999-00 | 1.00 | 1.20 | 2000-01 | 0.00 | 1.20 | 2001-02 | 0.50 | 1.20 | 2002-03 | 1.00 | 1.20 | 2003-04 | 0.00 | 0.70 | Total | 31.50 | 7.90 |
| Year | Contribution in Rs. Lakhs for Technical Library at Ankleshwar | Contribution in Rs. Lakhs for School at Ankleshwar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1997-98 | 5.00 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1998-99 | 24.00 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1999-00 | 1.00 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000-01 | 0.00 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2001-02 | 0.50 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2002-03 | 1.00 | 1.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2003-04 | 0.00 | 0.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | 31.50 | 7.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status |
|-------------------------------|---|--|
| | <p>The amount should be deposited within two months in a separate account to be maintained by the Gujarat Pollution Control Board.</p> <p>The plans in this regard should be submitted to the Ministry as well as GPCB within three months of issue of this letter.</p> <p>After approval of action plan by the GPCB, the amount deposited may be released in two installments based on progress of implementation.</p> | <p>Complied.</p> <p>The UPL letter on approval from MoEF on policy decision submitted to GPCB is attached as Annexure 22. Complied</p> <p>The plans have been submitted to MoEF & GPCB vide UPL Letter no u2/1994/f/03 dated 22/12/2003. The copy of letter is attached as Annexure 21.</p> <p>The UPL letter on approval from MoEF on policy decision submitted to GPCB is attached as Annexure 22. Complied</p> <p>Complied</p> |
| B → GENERAL CONDITIONS | | |
| i | The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board | <p>All conditions given by Gujarat Pollution Control Board (GPCB) is being strictly followed by unit. The Unit is being audited by Schedule 1 Environmental Auditor appointed by GPCB under Environmental Audit Scheme. The compliance to consent conditions have been verified and certification of consent conditions have been submitted to GPCB by Auditor. In addition, we upload online monthly data through GPCB XGN website regularly. We also submit monthly external party monitoring results, Annual hazardous waste return, Environmental Statement etc. to Authorities in time.</p> <p>Complied.</p> |
| ii | <p>No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment & Forests.</p> <p>In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.</p> | <p>The Unit has not done any modification OR expansion without getting prior approval from the Ministry. Valid EC/NOC/CC&A received from the Government Authorities for any expansion OR modification.</p> <p>We have obtained three Environmental Clearance (1) EC No # J.11011/77/2002-IA.II dated 17.07.2003; (2) EC No # J.11011/1281/2007-IA (II) dated 15.04.2008 (3) EC No # J.11011/77/2002-IA.II dated 10.01.2020 for expansion of pesticide technical and intermediate products.</p> <p>Complied.</p> <p>We have applied to MoEF&CC for proposed expansions to existing unit. The MoEF&CC has granted standard ToR vide letter no J-11011/180/2016-IA(II) dated 31st January 2018. The copy of Terms of Reference letter is attached as Annexure 23. The MoEF&CC has further examined proposal and granted Environmental Clearance Letter J-11011/77/2002-IA(II) dated 10th January 2020. The copy of Environmental Clearance Granted is attached as Annexure 1B.</p> |
| iii | The project authorities must strictly comply with the rules and regulations under the Manufacture, | The unit is complying with the MSIHC Rules, 2000 by implementation of MSIHC Rules 2000 with development of onsite emergency plan, Mock |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
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Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|---|---|----|-------|---------|-------------------------|----------------------------------|----------|----------|--------------------------|---|------------|-------------------|---------------|--|---------------|---------------|------------|-----------------|------------|------|------|
| | <p>Storage and Import of Hazardous Chemicals Rules, 2000.</p> <p>Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc., must be obtained.</p> | <p>drills, safety audit and dyke-wall provision to applicable Hazardous chemicals. The compliance to MSIHC Rules 2000 is summarized below.</p> <table border="1" data-bbox="695 359 1497 464"> <thead> <tr> <th>Sr. No</th> <th>Total No of Sub Rules under MSIHC Rules 2000</th> <th>Total No of Sub Rules under MSIHC Rules 2000 complied by Unit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> <td>20</td> </tr> </tbody> </table> <p>All necessary prior approvals have been obtained from Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc. The details of approvals is summarized below.</p> <table border="1" data-bbox="695 590 1497 1010"> <thead> <tr> <th>Sr. No</th> <th>Approval No (Letter No)</th> <th>Approved Substance with Quantity</th> <th>Validity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P/HQ/GJ/15/1042 (P10593)</td> <td>Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO</td> <td>31.12.2023</td> </tr> <tr> <td>2</td> <td>435/2018</td> <td>Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI</td> <td>31.12.2020</td> </tr> <tr> <td>3</td> <td>S06005113A</td> <td>Factory Licence</td> <td>31.12.2024</td> </tr> </tbody> </table> <p>Complied.</p> | Sr. No | Total No of Sub Rules under MSIHC Rules 2000 | Total No of Sub Rules under MSIHC Rules 2000 complied by Unit | 1 | 20 | 20 | Sr. No | Approval No (Letter No) | Approved Substance with Quantity | Validity | 1 | P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | 2 | 435/2018 | Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI | 31.12.2020 | 3 | S06005113A | Factory Licence | 31.12.2024 | | |
| Sr. No | Total No of Sub Rules under MSIHC Rules 2000 | Total No of Sub Rules under MSIHC Rules 2000 complied by Unit | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Approval No (Letter No) | Approved Substance with Quantity | Validity | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 435/2018 | Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI | 31.12.2020 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | S06005113A | Factory Licence | 31.12.2024 | | | | | | | | | | | | | | | | | | | | | | | |
| iv | <p>The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003.</p> <p>bAuthorization from the State Pollution Control Board must be obtained for collection, storage, treatment and disposal of hazardous wastes.</p> | <p>We are treating / disposing off the hazardous wastes generated as per the conditions of the Authorization given by GPCB under the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. In addition to this, Yearly Hazardous Waste return is being submitted to GPCB regularly. We are disposing our hazardous wastes (landfilling wastes and incineration wastes) to TSDF site of BEIL, Ankleshwar. <u>The summary of Hazardous disposal quantity is given in Compliance of Specific Condition IV.</u></p> <p>We have obtained valid Authorization from SPCB vide Authorization no. AWH 97435 dated 21.02.2019 valid till 02.08.2025 and latest Consent granted by GPCB vide GPCB CC&A AWH-105668 dated 20.04.2020 up to 01.08.2025. (The copies of valid CC& A are attached as Annexure – 1C).</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| v | <p>The overall noise levels in and around the plant area should be kept well within the standards (8SdBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p> | <p>Noise monitoring is being done twice in a month through our internal laboratory. Ear muffs & ear plugs are provided to the person working in high noise area like compressor, boiler area. Acoustic enclosures are also provided. The detailed noise monitoring report is attached as Annexure-27. Summarized noise monitoring report (period: April 2020 to September 2020) is as follows:</p> <table border="1" data-bbox="695 1696 1497 1881"> <thead> <tr> <th colspan="5">Summarized Noise Monitoring Report (Internal Monitoring)</th> </tr> <tr> <th rowspan="2">Month</th> <th colspan="2">Minimum</th> <th colspan="2">Maximum</th> </tr> <tr> <th>Day Time</th> <th>Night Time</th> <th>Day Time</th> <th>Night Time</th> </tr> </thead> <tbody> <tr> <td><i>GPCB Limit</i></td> <td>75 dBA</td> <td>70 dBA</td> <td>75 dBA</td> <td>70 dBA</td> </tr> <tr> <td>Apr 20</td> <td>35.4</td> <td>66.8</td> <td>33.1</td> <td>64.6</td> </tr> </tbody> </table> | Summarized Noise Monitoring Report (Internal Monitoring) | | | | | Month | Minimum | | Maximum | | Day Time | Night Time | Day Time | Night Time | <i>GPCB Limit</i> | 75 dBA | 70 dBA | 75 dBA | 70 dBA | Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 |
| Summarized Noise Monitoring Report (Internal Monitoring) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Minimum | | Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | Day Time | Night Time | Day Time | Night Time | | | | | | | | | | | | | | | | | | | | | | |
| <i>GPCB Limit</i> | 75 dBA | 70 dBA | 75 dBA | 70 dBA | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
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Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---|------|--------|------|------|------|-------------|---------------|-----------------------|--|---|-------------------|------------------------------|---|--------------------|-----------------------|--|------------------|------------------|-------------------------------------|------------------|----------------|------------------|--------------------|-----------------------------|------------------------------|
| | | | | May 20 | 35.2 | 69.9 | 31.1 | 68.9 | | | | | | | | | | | | | | | | | | | |
| | | Jun 20 | 38.8 | 69.3 | 40.2 | 67.6 | | | | | | | | | | | | | | | | | | | | | |
| | | Jul 20 | 50.9 | 69.9 | 43.8 | 68.9 | | | | | | | | | | | | | | | | | | | | | |
| | | Aug 20 | 52.2 | 69.9 | 45.6 | 69.4 | | | | | | | | | | | | | | | | | | | | | |
| | | Sep 20 | 55.2 | 69.9 | 40.2 | 69.4 | | | | | | | | | | | | | | | | | | | | | |
| | | All parameters are well within permissible limit. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | |
| vi | Occupational health surveillance programme should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre should be strengthened and medical records of each employee should be maintained separately | <p>The company is having medical doctor and Occupational Health Center and an ambulance. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency every year for Physical examination, Hemoglobin, Complete Blood Count, ESR, Complete Urine Examination, Liver Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc. Regular Blood Cholinesterase Activity (BCA) test for employees is also being carried out including contract employees. Sample copy is enclosed for your ready reference as Annexure-28. <u>No Occupational Health Disease is Reported.</u></p> <p>We have strengthened our occupational health care center by deployment of full-time resident doctor in clinic with latest instruments, First Aid Kits, Ambulance, Emergency Kits and Antidots.</p> <p>All medical records are being maintained. During April 2020 to September 2020, medical check-up done for employees including contract employees. The unit also conducts pre-employment medical checkup. Sample copy is enclosed for your ready reference as Annexure-28. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| vii | A separate Environment Management Cell equipped with full fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions. | <p>The details of Environment Management Cell are given below.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Designation</th> <th>Qualification</th> </tr> </thead> <tbody> <tr> <td>Dr. Mritunjay Chaubey</td> <td>Global VP – Environment, Sustainability & Green Cell</td> <td>B.Tech, M .Tech. and Ph.D. in Environmental Engineering</td> </tr> <tr> <td>Mr. Ajay Pancholi</td> <td>Senior Manager - Environment</td> <td>B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management</td> </tr> <tr> <td>Mr. Sanjay Bachhav</td> <td>Manager - Environment</td> <td>MSc In Chemistry & Diploma in Industrial Environment</td> </tr> <tr> <td>Mr. Purvesh Soni</td> <td>Environment Lead</td> <td>BE Civil, M.E – Environmental Engg.</td> </tr> <tr> <td>Mr. Jayesh Patil</td> <td>Senior Manager</td> <td>MSc in Chemistry</td> </tr> <tr> <td>Ms. Rinsu Varghese</td> <td>Sr. Executive - Environment</td> <td>BE Environmental Engg & PDIS</td> </tr> </tbody> </table> | | | | | Name | Designation | Qualification | Dr. Mritunjay Chaubey | Global VP – Environment, Sustainability & Green Cell | B.Tech, M .Tech. and Ph.D. in Environmental Engineering | Mr. Ajay Pancholi | Senior Manager - Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | Mr. Sanjay Bachhav | Manager - Environment | MSc In Chemistry & Diploma in Industrial Environment | Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | Mr. Jayesh Patil | Senior Manager | MSc in Chemistry | Ms. Rinsu Varghese | Sr. Executive - Environment | BE Environmental Engg & PDIS |
| Name | Designation | Qualification | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. Mritunjay Chaubey | Global VP – Environment, Sustainability & Green Cell | B.Tech, M .Tech. and Ph.D. in Environmental Engineering | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Ajay Pancholi | Senior Manager - Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Sanjay Bachhav | Manager - Environment | MSc In Chemistry & Diploma in Industrial Environment | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Jayesh Patil | Senior Manager | MSc in Chemistry | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ms. Rinsu Varghese | Sr. Executive - Environment | BE Environmental Engg & PDIS | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
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|---------------------|--|--|---------|-----------------------------------|-----------------------------|---|-----|------|---|----|---|------------------------|----|---|-------------------|----|---|-----------------|----|---|------------------------|----|---|--------------------|-----|---|--------------------|---|--------------------------|-----|----|-----------------------------|----|----|---------|----|---------------------|--|-------------|
| | | <ul style="list-style-type: none"> Internal Environment management cell comprising of Unit Head, plant Head, SHE Head & Corporate Environment head is in operation for close monitoring. The environment cell verifies environmental performance and involves in environmental audit. Stack Monitoring, Ambient Air Monitoring, Solid Waste Analysis is being done by third party (ENPRO Envirotech and Engineers Pvt Ltd) while Bio Assay Test, Toxicity Factor test, Fugitive Emission, VOC Monitoring, Noise Level Monitoring are carried out by our internal laboratory. The analysis of effluent is done in our full-fledged internal laboratory. The structure showing environment management cell is attached as Annexure 29. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| viii | <p>The project authorities will provide adequate funds both for recurring and non-recurring expenditure to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all conditions stipulated herein.</p> <p>The funds should not be diverted for any other purposes.</p> | <p>The Company has spent INR 1913 Lacs for environmental protection measures along with the projects implemented from 2008 To YTD. The revenue expenditure for environmental protection measures is included in our budget and sufficient amount is available. All funds allocated for Environment Management System is not diverted for any other purpose.</p> <p>The detail of expenditure is as follows:</p> <table border="1" data-bbox="695 947 1490 1478"> <thead> <tr> <th data-bbox="695 947 854 1035">Sr. No.</th> <th data-bbox="854 947 1349 1035">EMS Expenditure from 2008 Onwards</th> <th data-bbox="1349 947 1490 1035">Capital Cost (in INR- Lacs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="695 1035 854 1073">1</td> <td data-bbox="854 1035 1349 1073">ETP</td> <td data-bbox="1349 1035 1490 1073" rowspan="2">1500</td> </tr> <tr> <td data-bbox="695 1073 854 1110">2</td> <td data-bbox="854 1073 1349 1110">RO</td> </tr> <tr> <td data-bbox="695 1110 854 1148">3</td> <td data-bbox="854 1110 1349 1148">Hazardous storage area</td> <td data-bbox="1349 1110 1490 1148">34</td> </tr> <tr> <td data-bbox="695 1148 854 1186">4</td> <td data-bbox="854 1148 1349 1186">Drum washing area</td> <td data-bbox="1349 1148 1490 1186">25</td> </tr> <tr> <td data-bbox="695 1186 854 1224">5</td> <td data-bbox="854 1186 1349 1224">Scrubber system</td> <td data-bbox="1349 1186 1490 1224">15</td> </tr> <tr> <td data-bbox="695 1224 854 1262">6</td> <td data-bbox="854 1224 1349 1262">Green belt development</td> <td data-bbox="1349 1224 1490 1262">19</td> </tr> <tr> <td data-bbox="695 1262 854 1299">7</td> <td data-bbox="854 1262 1349 1299">Evaporation system</td> <td data-bbox="1349 1262 1490 1299" rowspan="2">200</td> </tr> <tr> <td data-bbox="695 1299 854 1337">8</td> <td data-bbox="854 1299 1349 1337">Chemical oxidation</td> </tr> <tr> <td data-bbox="695 1337 854 1375">9</td> <td data-bbox="854 1337 1349 1375">Fume incineration system</td> <td data-bbox="1349 1337 1490 1375">100</td> </tr> <tr> <td data-bbox="695 1375 854 1413">10</td> <td data-bbox="854 1375 1349 1413">Ambient Air Quality Station</td> <td data-bbox="1349 1375 1490 1413">12</td> </tr> <tr> <td data-bbox="695 1413 854 1451">11</td> <td data-bbox="854 1413 1349 1451">Sensors</td> <td data-bbox="1349 1413 1490 1451">08</td> </tr> <tr> <td colspan="2" data-bbox="695 1451 1349 1478">TOTAL (Lacs)</td> <td data-bbox="1349 1451 1490 1478">1913</td> </tr> </tbody> </table> <p>No funds have been diverted for any other purposes and separate funds are allocated to Environment Management. Complied.</p> | Sr. No. | EMS Expenditure from 2008 Onwards | Capital Cost (in INR- Lacs) | 1 | ETP | 1500 | 2 | RO | 3 | Hazardous storage area | 34 | 4 | Drum washing area | 25 | 5 | Scrubber system | 15 | 6 | Green belt development | 19 | 7 | Evaporation system | 200 | 8 | Chemical oxidation | 9 | Fume incineration system | 100 | 10 | Ambient Air Quality Station | 12 | 11 | Sensors | 08 | TOTAL (Lacs) | | 1913 |
| Sr. No. | EMS Expenditure from 2008 Onwards | Capital Cost (in INR- Lacs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ETP | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | RO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Hazardous storage area | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Drum washing area | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Scrubber system | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Green belt development | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Evaporation system | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Chemical oxidation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Fume incineration system | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Ambient Air Quality Station | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Sensors | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL (Lacs) | | 1913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ix | <p>The implementation of the project vis-a-vis Environmental Action Plans will be monitored by Ministry's Regional Office at Bhopal/Gujarat Pollution Control Board/ Central Pollution Control Board.</p> <p>A six monthly compliance status report should be submitted to the monitoring agencies</p> | <p>The action plan for solvent recovery, Toxicity Factor Test, Rain water harvesting, Contribution to Eco Development Programme and Membership of common incineration system have been implemented. The compliance status of all action plans has been submitted as Annexure 16 B. Officials from MoEF&CC – Regional office Bhopal visited the site, details are given below.</p> <ol style="list-style-type: none"> Shri Dr. H.V.C.Chary Guntupalli, Visit Date : 16/7/2018. Shri Dr. Mehrotra, Visit Date : 25/1/2006. <p>We are submitting the half yearly compliance report in December and July every year to the Ministry/SPCB/CPCB.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---------|---|--|--------|------------|-------------------|---|--|----------|---|--|----------|---|---------------------------------------|----------|---|---|----------|---|--------------|----------|
| | | Complied. | | | | | | | | | | | | | | | | | | |
| x | The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office. | EC dated 17.07.2003 was received by us on 30.07.2003. Advertisement was given Gujarati & English Newspapers and details submitted to GPCB and MoEF. Advertisement was published in the Indian Express newspaper (English) on 4 th August 2003 and in Loksatta Jansatta newspaper (Gujarati) on 4 th August, 2003 which is within seven days from date of receipt of Environmental Clearance. Copy of the advertisement with letter submitted to MoEF is attached as Annexure-30 A . Complied. | | | | | | | | | | | | | | | | | | |
| Xi | The project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work, if any. | Since this is an ex post-facto Environmental Clearance for an existing unit, this condition is not applicable. Complied. | | | | | | | | | | | | | | | | | | |
| 4.0 | The Ministry may revoke or suspend the clearance, if the implementation of any of the above conditions is not satisfactory. | Noted. | | | | | | | | | | | | | | | | | | |
| 5.0 | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions. | Noted. | | | | | | | | | | | | | | | | | | |
| 6.0 | The above conditions will be en, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act,1974, the Air (Prevention and Control of Pollution) Act, 1981, the environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and the rules. | The compliance to different acts is tabulated below. <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Regulation</th> <th>Compliance Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Water (Prevention and Control of Pollution) Act 1974</td> <td>Complied</td> </tr> <tr> <td>2</td> <td>The Air (Prevention and Control of Pollution) Act 1981</td> <td>Complied</td> </tr> <tr> <td>3</td> <td>The Environmental Protection Act 1986</td> <td>Complied</td> </tr> <tr> <td>4</td> <td>Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016</td> <td>Complied</td> </tr> <tr> <td>5</td> <td>PLI Act 1991</td> <td>Complied</td> </tr> </tbody> </table> <p>The compliance of above rules has been certified by GPCB Appointed Schedule 1 Auditor and submitted to GPCB on annual basis. Complied.</p> | Sr. No | Regulation | Compliance Status | 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | 3 | The Environmental Protection Act 1986 | Complied | 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | 5 | PLI Act 1991 | Complied |
| Sr. No | Regulation | Compliance Status | | | | | | | | | | | | | | | | | | |
| 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | | | | | | | | | | | | | | | | | | |
| 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | | | | | | | | | | | | | | | | | | |
| 3 | The Environmental Protection Act 1986 | Complied | | | | | | | | | | | | | | | | | | |
| 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | | | | | | | | | | | | | | | | | | |
| 5 | PLI Act 1991 | Complied | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | | | | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|-----------------------------------|-----------------|--|--|--|--|---------|---------------------------------|--------------------------------------|-----------------------------------|----------|------|------|--------|----------|----------------------------|------|--------|------------|---|--------|------|--------|----------------------------|------|--------|----------|-------|------------|--------|-------------|-------|--|--|-----------------|---------|-----|----|----------------------|----|-----|---|---------|---------------------------------|--------------------------------------|-----------------------------------|------|------|------|-------|-------|---------------------|---------------------|--------|
| 2.0 | <p>The Ministry of Environment and Forests has examined the proposal and noted that the proposal is for environmental clearance for expansion of Pesticides and Intermediate Products at Unit # 2, Plot No.3405/ 3406, GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat by M/s United Phosphorous Ltd.</p> <p>The unit was earlier accorded environment clearance from the Ministry on 17.07.2003.</p> <p>The land area available is 65,625 m².</p> <p>The cost of the project will be Rs. 42.5 Crores. The details of the existing and proposed products are as given below:-</p> | | | | <p>Noted.</p> <p>The Unit has been granted Environmental Clearance from MoEF vide letter no J/11011/77/2002-IA(II) dated 17.07.2003. The copy of granted environmental clearance is attached as Annexure 24.</p> <p>The Total land area is 65625 M². The copy of land allotment letter is attached as Annexure 03.</p> <p>The actual cost of project is Rs. 46.5 Crores.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S. No. | Name of Products | Capacity (MTM) | | <p>The unit has taken different Product Mix Changes to EC granted products from GPCB and added formulation products in existing plant.</p> <p>The Production quantities are summarized below.</p> <table border="1"> <thead> <tr> <th>Product</th> <th>GPCB Permissible Limit MT/Month</th> <th>GPCB Permissible Limit MT/Six Months</th> <th>Total Production in MT/Six Months</th> </tr> </thead> <tbody> <tr> <td>Acephate</td> <td>1430</td> <td>8580</td> <td>7783.1</td> </tr> <tr> <td>Terbufos</td> <td rowspan="3">350 (Combined Capacity)</td> <td rowspan="3">2100</td> <td>351.39</td> </tr> <tr> <td>Metasystox</td> <td>0</td> </tr> <tr> <td>Ethion</td> <td>86.8</td> </tr> <tr> <td>Asulam</td> <td rowspan="3">300 (Combined Capacity)</td> <td rowspan="3">1800</td> <td>1186.7</td> </tr> <tr> <td>Devrinol</td> <td>11.53</td> </tr> <tr> <td>Chlomazone</td> <td>922.02</td> </tr> <tr> <td>Bifenthrion</td> <td>385.3</td> <td></td> <td></td> </tr> <tr> <td>Ethofumisate OR</td> <td>23.5 OR</td> <td>141</td> <td>85</td> </tr> <tr> <td>Pyrasosulfuron ethyl</td> <td>40</td> <td>240</td> <td>0</td> </tr> </tbody> </table> <p>All Quantities are well within GPCB Consented Quantities. The Production details are attached as Annexure 2.</p> <p>Production Details of Other Products – Intermediate</p> <table border="1"> <thead> <tr> <th>Product</th> <th>GPCB Permissible Limit MT/Month</th> <th>GPCB Permissible Limit MT/Six Months</th> <th>Total Production in MT/Six Months</th> </tr> </thead> <tbody> <tr> <td>DETA</td> <td>1000</td> <td>6000</td> <td>383.5</td> </tr> <tr> <td>ZnDTP</td> <td>(Combined Capacity)</td> <td>(Combined Capacity)</td> <td>1410.5</td> </tr> </tbody> </table> <p>All Quantities are well within GPCB Consented Quantities.</p> | | | | Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | Acephate | 1430 | 8580 | 7783.1 | Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | Metasystox | 0 | Ethion | 86.8 | Asulam | 300 (Combined Capacity) | 1800 | 1186.7 | Devrinol | 11.53 | Chlomazone | 922.02 | Bifenthrion | 385.3 | | | Ethofumisate OR | 23.5 OR | 141 | 85 | Pyrasosulfuron ethyl | 40 | 240 | 0 | Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | DETA | 1000 | 6000 | 383.5 | ZnDTP | (Combined Capacity) | (Combined Capacity) | 1410.5 |
| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate | 1430 | 8580 | 7783.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metasystox | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethion | | | 86.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asulam | 300 (Combined Capacity) | 1800 | 1186.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol | | | 11.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlomazone | | | 922.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bifenthrion | 385.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethofumisate OR | 23.5 OR | 141 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pyrasosulfuron ethyl | 40 | 240 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA | 1000 | 6000 | 383.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZnDTP | (Combined Capacity) | (Combined Capacity) | 1410.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Existing | After Expansion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | Devrinol or Metabromuron | 140 or 30 | 300 or 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | Terbuphos/Phorate (Combined Capacity) | 200 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | Acephate or Metamitron | 160 or 60 | 1000 or 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | Phosphamidon (PD) or Surflan | 100 or 40 | 100 or 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | Dichlorovos (DDVP) | 85 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | Monocrotophos | - | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | Acetamapride or Imidacloprid | - | 100 or 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | Metribuzin | - | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total (Maximum) | | 685 | 2235 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Other Products-Intermediate Chemicals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | Di Ethyl ThioPhosphory Chloride (DETCL) | 160 | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | Para Chloro Ortho Cresol (PCOC) | 96 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | Di Methyl Phosphorus AmidoThionate (DMPAT) | 110 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | | | Compliance Status | | | | | | |
|------------------------------|---|----------------|---------------------|---|--------------|----------------------|---------------------------------|--------------|-------------------------|------------------------|
| 12 | Di Methyl MethylPhosphonate (DMMP) | 100 | 100 | Production Details Pesticide Formulations | | | | | | |
| | | | | GPCB Permissible Limit in MT/Month | | | 1010 (Combined Capacity) | | | |
| | | | | Month | | | Acephate 97% | | | |
| 13 | Di Ethyl Thio Phosphoric Acid (DETA)/Zinc Di Thio Phosphate (ZNDTP) | 300/150 500 | 600/ 400 1000 | Apr 20 | | | 0.000 | | | |
| | | | | May 20 | | | 1003.800 | | | |
| | | | | Jun 20 | | | 962.550 | | | |
| | | | | Jul 20 | | | 1005.2 | | | |
| | | | | Aug 20 | | | 997.5 | | | |
| | | | | Sep 20 | | | 986.25 | | | |
| 14 | Noflan | - | 8 | All Quantities are well within GPCB Consented Quantities. | | | | | | |
| 15 | Absolute Alcohol | 420 | 420 | Production Details of By Products | | | | | | |
| Total (Maximum) | | | | 1386 | | | 1894 | | | |
| Pesticide Formulation | | | | | | | | | | |
| 16 | Paraquate Di Chloro Formulation-100 % (PQDC) | 60 | 60 | Month | NaSH | Spent Solvent | Ammonium Acetate | HCl | Ammonium Bromide | Sodium Sulphate |
| By- Products | | | | Apr 20 | 95.3 | 52.04 | 1475.0 | 0 | 0 | 0 |
| 17 | Sodium Hydrogen Sulphide (NASH) | 462 | 558.4 | May 20 | 183.4 | 48.91 | 2973.0 | 0 | 0 | 99.90 |
| 18 | Methyl Chloride | 36.2 | 36.2 | Jun 20 | 128.9 | 60.48 | 934.21 | 188.3 | 21.18 | 105.00 |
| 19 | Ammonium Acetate (32%)/Ammonium Sulphate | 84/Nil | 1288/ 812 | Jul 20 | 57.34 | 64.56 | 722.97 | 233.1 | 99.74 | 99.95 |
| 20 | Methanol | 11 | 11.84 | Aug 20 | 43.72 | 10.54 | 150.8 | 0 | 95.020 | 30.00 |
| 21 | Hydrochloric Acid (30%) | 52 | 55.72 | Sep 20 | 101.6 | 35.05 | 73.21 | 169.79 | - | 120.00 |
| 22 | Spent Acid | 146 | 146 | Total | 610.3 | 271.6 | 6329.2 | 591.2 | 215.9 | 454.9 |
| 23 | Sodium Sulphate | 30 | 30 | All Quantities are well within GPCB Consented Quantities. | | | | | | |
| 24 | Sodium Bomide | 57 | 57 | Complied | | | | | | |
| 25 | Ammonium Chloride | 50 | 50 | *All Quantities are well within limit. | | | | | | |
| 26 | POCl ₃ from Noflan | - | 20.49 | | | | | | | |
| 27 | Ammonia from Noflan | - | 0.36 | | | | | | | |
| 28 | Ethanol from Acetamidiprid | - | 0.84 | | | | | | | |
| Total (Maximum) | | 928.2 | 1281.85 | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| <p>3</p> | <p>The water 1,043 KLD will be sourced from the GIDC water supply.</p> <p>The waste water 533 KLD will be treated in the existing ETP after upgradation.</p> <p>The existing ETP is of 300 KLD capacity and up to tertiary treatment which shall be increased to 600 KLD.</p> <p>High TDS water is being evaporated and High COD effluent is being chemically treated with H2O2 followed by ETP treatment.</p> | <p>The fresh water is supply through GIDC, Ankleshwar and daily water consumption is tracked by unit. The daily water consumption details is summarized below for reporting period</p> <table border="1" data-bbox="803 325 1513 640"> <thead> <tr> <th>Month</th> <th>Water Consumption in KL/Month</th> <th>Average Water Consumption in KL/Day</th> </tr> </thead> <tbody> <tr> <td>GPCB Limit</td> <td>31,638 KL/Month</td> <td>1,043 KL/Day</td> </tr> <tr> <td>Apr - 2020</td> <td>9,463</td> <td>315</td> </tr> <tr> <td>May - 2020</td> <td>13,860</td> <td>447</td> </tr> <tr> <td>Jun - 2020</td> <td>9,366</td> <td>312</td> </tr> <tr> <td>Jul - 2020</td> <td>8,384</td> <td>270</td> </tr> <tr> <td>Aug - 2020</td> <td>9,491</td> <td>306</td> </tr> <tr> <td>Sept - 2020</td> <td>8,963</td> <td>299</td> </tr> </tbody> </table> <p><i>*All Values are well within GPCB Limits</i></p> <p>The generated waste water is treated in full-fledged ETP having capacity of 550 KLD. The unit has upgraded ETP & achieved ZLD since May-2014. The details of waste water generation is summarized below.</p> <table border="1" data-bbox="803 829 1513 1123"> <thead> <tr> <th>Month</th> <th>RO Inlet Quantity in KL/Day</th> <th>RO Permeate Quantity in KL/Day</th> <th>RO Reject Quantity in KL/Day</th> <th>Discharge in KLD</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>106.6</td> <td>85.7</td> <td>20.9</td> <td>NIL</td> </tr> <tr> <td>May 20</td> <td>159.1</td> <td>127.5</td> <td>31.5</td> <td>NIL</td> </tr> <tr> <td>Jun 20</td> <td>174.3</td> <td>139.1</td> <td>35.3</td> <td>NIL</td> </tr> <tr> <td>Jul 20</td> <td>157.5</td> <td>124.7</td> <td>32.7</td> <td>NIL</td> </tr> <tr> <td>Aug 20</td> <td>142.5</td> <td>111.2</td> <td>31.3</td> <td>NIL</td> </tr> <tr> <td>Sep 20</td> <td>158.5</td> <td>126.7</td> <td>31.8</td> <td>NIL</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The unit is ZLD since Month May 2014 & all RO Reject is sent to evaporation system. <p>The waste water treatment plant is upgraded up to 550 KLD with primary, secondary & tertiary treatment facility. The unit has achieved ZLD since May-2014.</p> <p>In the chemical treatment section, effluent having high COD/organic load is treated with Hydrogen Peroxide followed by ETP. The high TDS water such as RO Reject is evaporated. The detailed effluent treatment scheme showing process of chemical treatment is attached as Annexure-14. The summary of High TDS Effluent generated is given below.</p> <table border="1" data-bbox="820 1543 1494 1816"> <thead> <tr> <th>Month</th> <th>Quantity of High TDS Effluent Generation in KL/Month</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>1877</td> </tr> <tr> <td>May 20</td> <td>2767</td> </tr> <tr> <td>Jun 20</td> <td>3064</td> </tr> <tr> <td>Jul 20</td> <td>3281</td> </tr> <tr> <td>Aug 20</td> <td>2982</td> </tr> <tr> <td>Sep 20</td> <td>3266</td> </tr> </tbody> </table> <p>Process emissions such as H2S, NH3, HCL and Cl2 are being scrubbed through water scrubber/water + caustic (two stage)</p> | Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | Apr - 2020 | 9,463 | 315 | May - 2020 | 13,860 | 447 | Jun - 2020 | 9,366 | 312 | Jul - 2020 | 8,384 | 270 | Aug - 2020 | 9,491 | 306 | Sept - 2020 | 8,963 | 299 | Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | Apr 20 | 106.6 | 85.7 | 20.9 | NIL | May 20 | 159.1 | 127.5 | 31.5 | NIL | Jun 20 | 174.3 | 139.1 | 35.3 | NIL | Jul 20 | 157.5 | 124.7 | 32.7 | NIL | Aug 20 | 142.5 | 111.2 | 31.3 | NIL | Sep 20 | 158.5 | 126.7 | 31.8 | NIL | Month | Quantity of High TDS Effluent Generation in KL/Month | Apr 20 | 1877 | May 20 | 2767 | Jun 20 | 3064 | Jul 20 | 3281 | Aug 20 | 2982 | Sep 20 | 3266 |
|-------------------|--|--|------------------------------|-------------------------------|-------------------------------------|-------------------|------------------------|---------------------|------------|--------------|------------|------------|---------------|------------|------------|--------------|------------|------------|--------------|------------|------------|--------------|------------|-------------|--------------|------------|-------|-----------------------------|--------------------------------|------------------------------|------------------|--------|-------|------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|-------|--|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr - 2020 | 9,463 | 315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May - 2020 | 13,860 | 447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun - 2020 | 9,366 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul - 2020 | 8,384 | 270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug - 2020 | 9,491 | 306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept - 2020 | 8,963 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 106.6 | 85.7 | 20.9 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 159.1 | 127.5 | 31.5 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 174.3 | 139.1 | 35.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 157.5 | 124.7 | 32.7 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 142.5 | 111.2 | 31.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 158.5 | 126.7 | 31.8 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Quantity of High TDS Effluent Generation in KL/Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 1877 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 2767 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 3064 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 3281 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 2982 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 3266 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| <p>H₂S, NH₃, HCl and Cl₂ will be the main process emissions which will be scrubbed in water and/or caustic scrubbers.</p> <p>Stack height with all the reactors, incinerators and boilers shall be 30 m.</p> <p>For odor control, vapor incinerator has been installed.</p> <p>For H₂S, 3 stage scrubbers have been installed.</p> <p>The unit is carrying Bio-Assay test and toxicity factor which ranges in 2-4.</p> | <p>scrubber, carbon column. The details of Air Pollution control devices installed are given as Annexure 35. We also do process stack monitoring through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-8). <i>The analysis ranges are given in Compliance to EC Condition no VII.</i></p> <p>The unit has provided 30 M Stack height to all boilers, fume incinerator & all major process stacks. The stack height details are given in GPCB Consent attached as Annexure 1C & Summarized below.</p> <table border="1" data-bbox="808 621 1513 1104"> <thead> <tr> <th>Stack attached to</th> <th>Height (Meters)</th> </tr> </thead> <tbody> <tr> <td>Acephate / Metamitron</td> <td>20</td> </tr> <tr> <td>Mesotrion / Imazapic</td> <td>30</td> </tr> <tr> <td>DETA / ZnDTP</td> <td>30</td> </tr> <tr> <td>Solid Formulation Plant</td> <td>20</td> </tr> <tr> <td>Devrinol Plant</td> <td>30</td> </tr> <tr> <td>DETA / ZnDTP / DETCL</td> <td>30</td> </tr> <tr> <td>Acephate Plant (Ketene Process)</td> <td>30</td> </tr> <tr> <td>Metrubizin Plant</td> <td>30</td> </tr> <tr> <td>Noflan Plant</td> <td>30</td> </tr> <tr> <td>DETA / ZnDTP Plant</td> <td>30</td> </tr> <tr> <td>Noflan Plant</td> <td>30</td> </tr> <tr> <td>Acephate Plant Ketene Process</td> <td>30</td> </tr> <tr> <td>Fume Incinerator attached to Terbuphos</td> <td>30</td> </tr> </tbody> </table> <p>The unit has discontinued Incineration Unit & Obtained Membership of CHWTSDF – BEIL, Ankleshwar. The copy of correspondence with GPCB is attached as Annexure 4A.</p> <p>Fume incinerator is installed for thermal destruction of all vapor streams containing odor and VOCs and is in operation. The logbook is maintained for scrubbers and reviewed weekly during operational meetings with Unit Head. The details of fume incinerator have been attached as Annexure 12. The Unit has implemented closed handling system for Hazardous Chemicals as follows.</p> <ol style="list-style-type: none"> 1) Usage of Seal less / Mechanically Sealed pumps 2) Implementation of LDAR Programme 3) Online Sensors provided for Hazardous Chemicals 4) Installation of Chilled Brine Condensing System connected to reactors. 5) Condensers provided sufficient HTA and residence time. 6) Separate space for storage of solvents 7) Proper earthing & flame proof storages. <p>The unit has installed three stage scrubbers for control of H₂S emission in Terbuphos Plant.</p> <p>The unit has implemented Bio-assay and Toxicity Factor test and being conducted internally, and data are maintained (please refer</p> | Stack attached to | Height (Meters) | Acephate / Metamitron | 20 | Mesotrion / Imazapic | 30 | DETA / ZnDTP | 30 | Solid Formulation Plant | 20 | Devrinol Plant | 30 | DETA / ZnDTP / DETCL | 30 | Acephate Plant (Ketene Process) | 30 | Metrubizin Plant | 30 | Noflan Plant | 30 | DETA / ZnDTP Plant | 30 | Noflan Plant | 30 | Acephate Plant Ketene Process | 30 | Fume Incinerator attached to Terbuphos | 30 |
|--|--|-------------------|-----------------|-----------------------|----|----------------------|----|--------------|----|-------------------------|----|----------------|----|----------------------|----|---------------------------------|----|------------------|----|--------------|----|--------------------|----|--------------|----|-------------------------------|----|--|----|
| Stack attached to | Height (Meters) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate / Metamitron | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesotrion / Imazapic | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solid Formulation Plant | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP / DETCL | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate Plant (Ketene Process) | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metrubizin Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate Plant Ketene Process | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fume Incinerator attached to Terbuphos | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--------|--------|-----------------------------|---|-------------------------|----------------------------|---|------------------|------------------------------|---|------------------|------------------------------|---|------------------|-----------------------------|---|------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|----|-------------------|-----------------------------|----|-------------------|-----------------------------|
| | | Annexure-15 for detailed report). The unit has achieved TF<2 for treated effluent in-spite of ZLD Since May 2014. <i>The details of TF Test are given in EC Compliance Specific Condition No V.</i> Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | The project activity is listed at S.N. 5(b) under Category 'A' and the proposal was appraised at centre level in 78 th meeting of the Expert Appraisal Committee (Industry) held during 20 th – 22 nd February, 2008. | Noted. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Based on the information submitted by the Project Authorities, the Ministry of Environment and Forests hereby accords the environmental clearance to the above project under the provisions of EIA Notification dated 14 th September, 2006 subject to compliance of the following specific and general conditions: | Noted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A → SPECIFIC CONDITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i | The company shall comply all the stipulations given the environmental clearance issued vide F. No. J-11011/77/2002-IA(II) dated 17 th July 2003. | Regularly, we are submitting compliance status against issued EC dated 17 th July, 2003. Please refer above Half yearly EC compliance report for the environmental clearance issued vides F. No. J-11011/77/2002-IA(II) dated 17 th July 2003. EC copy is attached as Annexure-24 . All points are complied. The summary of last Eleven submissions is given below. <table border="1"> <thead> <tr> <th align="center" colspan="3">EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 & # J.11011/1281/2007-IA (II) dated 15.04.2008 & # J.11011/77/2002-IA.II dated 10.01.2020</th> </tr> <tr> <th align="center">Sr. No</th> <th align="center">Period</th> <th align="center">UPL Unit 2 Submission Dates</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">Oct 19 to Mar 20</td> <td align="center">UPL U2 Letter dated</td> </tr> <tr> <td align="center">2</td> <td align="center">Apr 19 to Sep 19</td> <td align="center">UPL U2 Letter dated 26/05/20</td> </tr> <tr> <td align="center">3</td> <td align="center">Oct 18 to Mar 19</td> <td align="center">UPL U2 Letter dated 07/06/19</td> </tr> <tr> <td align="center">4</td> <td align="center">Apr 18 to Sep 18</td> <td align="center">UPL U2 Letter dated 24/1/19</td> </tr> <tr> <td align="center">5</td> <td align="center">Jan 18 to Jun 18</td> <td align="center">UPL U2 Letter dated 19/9/18</td> </tr> <tr> <td align="center">6</td> <td align="center">July 17 To Dec 17</td> <td align="center">UPL U2 Letter dated 30/1/18</td> </tr> <tr> <td align="center">7</td> <td align="center">Jan 17 To June 17</td> <td align="center">UPL U2 Letter dated 31/7/17</td> </tr> <tr> <td align="center">8</td> <td align="center">July 16 To Dec 16</td> <td align="center">UPL U2 Letter dated 23/1/17</td> </tr> <tr> <td align="center">9</td> <td align="center">Jan 16 To June 16</td> <td align="center">UPL U2 Letter dated 11/8/16</td> </tr> <tr> <td align="center">10</td> <td align="center">July 15 To Dec 15</td> <td align="center">UPL U2 Letter dated 11/2/16</td> </tr> <tr> <td align="center">11</td> <td align="center">Jan 15 To June 15</td> <td align="center">UPL U2 Letter dated 28/7/15</td> </tr> </tbody> </table> Complied. | EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 & # J.11011/1281/2007-IA (II) dated 15.04.2008 & # J.11011/77/2002-IA.II dated 10.01.2020 | | | Sr. No | Period | UPL Unit 2 Submission Dates | 1 | Oct 19 to Mar 20 | UPL U2 Letter dated | 2 | Apr 19 to Sep 19 | UPL U2 Letter dated 26/05/20 | 3 | Oct 18 to Mar 19 | UPL U2 Letter dated 07/06/19 | 4 | Apr 18 to Sep 18 | UPL U2 Letter dated 24/1/19 | 5 | Jan 18 to Jun 18 | UPL U2 Letter dated 19/9/18 | 6 | July 17 To Dec 17 | UPL U2 Letter dated 30/1/18 | 7 | Jan 17 To June 17 | UPL U2 Letter dated 31/7/17 | 8 | July 16 To Dec 16 | UPL U2 Letter dated 23/1/17 | 9 | Jan 16 To June 16 | UPL U2 Letter dated 11/8/16 | 10 | July 15 To Dec 15 | UPL U2 Letter dated 11/2/16 | 11 | Jan 15 To June 15 | UPL U2 Letter dated 28/7/15 |
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| Sr. No | Period | UPL Unit 2 Submission Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ii | Before starting implementation of proposed project, the project authority shall obtain in advance written permission from the management of CETP/FETP that existing CETP/FETP shall be able to take the discharge load and shall also be able to comply with the prescribed standards as desired by CPCB/GPCB with the pollution load of the unit. | We have taken valid membership of FETP, NCT Ankleshwar for taking additional effluent load from proposed expansion. The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. The wastewater recycling system details is summarized in EC Compliance Point No 3, the details of forced evaporation effluent quantity are given in EC Compliance Point No 3 and the treated | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|------------------------------|-----------------------------|---|------------------------------|------------------|--------|-------|-----------|------|------|--------|---------|-------|------|-----|----------|-------|-------|-----------------|----------|--------|-------|----------------|---------|-----|--------|--------|-------|------|-----|-----------|----------|-------|------|-----|
| | | <p>waste water analysis report for the period April 20 to September 20 is attached as Annexure 13 (Feed to RO Plant).</p> <p>We are having full-fledged Effluent Treatment Plant (ETP) (capacity @ 550 KLD) having primary, secondary & tertiary treatment. Moreover, the Unit has also installed online CCTV Camera and magnetic flow meter at ETP outlet line and online CCTV footage is being transmitted to CPCB website. All parameters are well within permissible limit of GPCB. The unit has implemented ZLD Since May 2014. The effluent generation, treatment quantity is summarized as below.</p> <table border="1" data-bbox="805 653 1521 953"> <thead> <tr> <th>Month</th> <th>RO Inlet Quantity in KL/Day</th> <th>RO Permeate Quantity in KL/Day</th> <th>RO Reject Quantity in KL/Day</th> <th>Discharge in KLD</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>106.6</td> <td>85.7</td> <td>20.9</td> <td>NIL</td> </tr> <tr> <td>May 20</td> <td>159.1</td> <td>127.5</td> <td>31.5</td> <td>NIL</td> </tr> <tr> <td>Jun 20</td> <td>174.3</td> <td>139.1</td> <td>35.3</td> <td>NIL</td> </tr> <tr> <td>Jul 20</td> <td>157.5</td> <td>124.7</td> <td>32.7</td> <td>NIL</td> </tr> <tr> <td>Aug 20</td> <td>142.5</td> <td>111.2</td> <td>31.3</td> <td>NIL</td> </tr> <tr> <td>Sep 20</td> <td>158.5</td> <td>126.7</td> <td>31.8</td> <td>NIL</td> </tr> </tbody> </table> <p align="center"><i>The unit is ZLD since Month May 2014 & all RO Reject is sent to evaporation system.</i></p> <p>Complied.</p> | Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | Apr 20 | 106.6 | 85.7 | 20.9 | NIL | May 20 | 159.1 | 127.5 | 31.5 | NIL | Jun 20 | 174.3 | 139.1 | 35.3 | NIL | Jul 20 | 157.5 | 124.7 | 32.7 | NIL | Aug 20 | 142.5 | 111.2 | 31.3 | NIL | Sep 20 | 158.5 | 126.7 | 31.8 | NIL |
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| Aug 20 | 142.5 | 111.2 | 31.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 158.5 | 126.7 | 31.8 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iii | <p>The project authorities shall install own effluent treatment plant to treat the waste water to achieve the COD less than 250 mg/litre as the inlet norm of the FETP and shall obtain the membership of CETP/FETP for disposal of treated effluent and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal.</p> <p>The company shall maintain the valid membership</p> | <p>The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. The wastewater recycling system details is attached as Annexure-14, the details of forced evaporation effluent quantity is summarized in EC Compliance Point No 3 and the treated waste water analysis report for the period April 2020 to September 2020 is attached as Annexure 13 (Feed To RO). The treated effluent results are summarized below (Feed To RO).</p> <table border="1" data-bbox="805 1304 1521 1717"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Permissible Limit</th> <th colspan="2">Measured Values from (April 2020 to September 2020)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5 - 8.5</td> <td>6.5</td> <td>8.43</td> </tr> <tr> <td>BOD</td> <td>30 mg/l</td> <td>17</td> <td>30</td> </tr> <tr> <td>COD</td> <td>250 mg/l</td> <td>64</td> <td>99</td> </tr> <tr> <td>Suspended Solid</td> <td>100 mg/l</td> <td>18</td> <td>49</td> </tr> <tr> <td>Oil and Grease</td> <td>10 mg/l</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>Phenol</td> <td>1mg/l</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>Sulphides</td> <td>0.5 mg/l</td> <td>0.1</td> <td>0.4</td> </tr> </tbody> </table> <p><i>All Values are in mg/l except pH</i></p> <p>We have taken valid membership of FETP/CETP, NCT Ankleshwar for taking additional effluent load from proposed expansion. The copy of membership is attached as Annexure 25. Complied.</p> | Parameter | Permissible Limit | Measured Values from (April 2020 to September 2020) | | Min | Max | pH | 5.5 - 8.5 | 6.5 | 8.43 | BOD | 30 mg/l | 17 | 30 | COD | 250 mg/l | 64 | 99 | Suspended Solid | 100 mg/l | 18 | 49 | Oil and Grease | 10 mg/l | BDL | BDL | Phenol | 1mg/l | BDL | BDL | Sulphides | 0.5 mg/l | 0.1 | 0.4 | |
| Parameter | Permissible Limit | Measured Values from (April 2020 to September 2020) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH | 5.5 - 8.5 | 6.5 | 8.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD | 30 mg/l | 17 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COD | 250 mg/l | 64 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Suspended Solid | 100 mg/l | 18 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil and Grease | 10 mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phenol | 1mg/l | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulphides | 0.5 mg/l | 0.1 | 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iv | <p>The unit shall carry out the monitoring for all Pesticides which are being produced or proposed</p> | <p>We have sealed all our bore wells in 1996 and afterwards fresh water have been supplied by GIDC, Ankleshwar. The unit does not</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--------|-------|-------------------------------|--|-------------------------------|-----|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|---|--------|---|---|-----|
| | to be produced in the ground water. Results shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. Afterwards, yearly monitoring for these pesticides shall be carried out. | commit any discharge to land/surface/CETP. The Unit is ZLD Since May 2014. The treated effluent is recycled/reused within plant premises. The unit has also not implemented Rain water recharge (Ground water recharge) system. As per CEPI Guidelines, the ground water withdrawal is not permitted in Ankleshwar GIDC Area. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| v | Bioassay test and toxicity index shall be carried out regularly for the waste water before and after treatment. | <p>We are doing bio-assay and Toxicity Factor test and TF-4 is replaced by TF-2. All reports are being submitted to the Ministry regularly along with half yearly compliance report. The summary of analysis of TF is given below & refer Annexure-15 for detailed reports. The Unit has implemented ZLD Since May 2014.</p> <table border="1" data-bbox="808 684 1515 957"> <thead> <tr> <th rowspan="2">Sr. NO</th> <th rowspan="2">Month</th> <th colspan="2">TF Result</th> <th rowspan="2">Bio Assay Result (% Survival)</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Apr 20</td> <td>1</td> <td>2</td> <td>100</td> </tr> <tr> <td>2</td> <td>May 20</td> <td>1</td> <td>2</td> <td>100</td> </tr> <tr> <td>3</td> <td>Jun 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>4</td> <td>Jul 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>5</td> <td>Aug 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> <tr> <td>6</td> <td>Sep 20</td> <td>1</td> <td>1</td> <td>100</td> </tr> </tbody> </table> <p>*All Results are well within limit. Complied.</p> | Sr. NO | Month | TF Result | | Bio Assay Result (% Survival) | Min | Max | 1 | Apr 20 | 1 | 2 | 100 | 2 | May 20 | 1 | 2 | 100 | 3 | Jun 20 | 1 | 1 | 100 | 4 | Jul 20 | 1 | 1 | 100 | 5 | Aug 20 | 1 | 1 | 100 | 6 | Sep 20 | 1 | 1 | 100 |
| Sr. NO | Month | TF Result | | | Bio Assay Result (% Survival) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Apr 20 | 1 | 2 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | May 20 | 1 | 2 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Jun 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Jul 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Aug 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Sep 20 | 1 | 1 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vi | The company shall install continuous monitoring equipment for H2S and Cl2 from the stack and data shall be submitted with reports. | <p>The unit has installed continuous monitoring devices at plant area for H2S at Terbuphos Plant, HCl in Devrinol plant and Ammonia in Acephate plant with integration of live readings and high value alarming system to CCR.</p> <p>We are monitoring fugitive emissions using portable monitors for Total Mercaptan (TM), H2S, NH3 and VOC and data are being maintained. The measurement range of fugitive emission is given in <u>compliance to EC Condition VII</u>. Detailed report for fugitive emissions is enclosed as Annexure-11. However, there is no limit for Fugitive Emission hence we are comparing monitored values with TLV / TWA. For Total Mercaptan, TWA is 0.5 ppm; for H2S, TLV is 10 ppm and for NH3, TLV is 25 ppm. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vii | The gaseous emissions (SO2, NOx, HCl, Cl2, H2S, CO, HC and VOC) along with SPM and RSPM from various process units and work environment shall be monitored regularly and shall conform to the standards prescribed by the concerned authorities from time to time. | <p>We do flue & process stack monitoring through our lab internally and through third party (ENPRO Envirotech and Engineers Pvt Ltd) for consented parameters like PM, SO2, NOx, HCl, NH3, H2S & Cl2. The HC is monitored under VOC Monitoring.</p> <p>All parameters of process stack and flue stacks are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-8).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|--------|------------------|--|--|-----|-----|---|---------------|----|----|---|---------|-----|-----|---|-----|-----|----|---|----------|----|----|---|----------------|-----|-----|
| | <p>At no time, the emission levels shall go beyond the stipulated standards.</p> <p>In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p> | <p>The ambient air monitoring is being conducted for PM2.5, RSPM (PM10), SO2, NOx, HCl, Cl2, NH3, HF, H2S and Hydrocarbon through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-9).</p> <p>Fugitive emission is controlled by using seal-less pumps for toxic chemicals, flange-guards, mechanical seals for pumps and reactors etc. We are monitoring fugitive emissions using portable monitors for Tertiary Butyl Mercaptan (TBM), H2S, NH3 and VOC. However, there are no such standards for fugitive emissions. All vents from the reactor containing Tertiary Butyl Mercaptan (TBM) are connected to the captive fume incinerator for thermal destruction. However, no tertiary butyl mercaptan emission is emitted from any process. In addition, fugitive emission monitoring at various locations are being carried out by our internal laboratory (through portable VOC meter) and data is being maintained. Detailed report for fugitive emissions is enclosed as Annexure-11.</p> <p>The summarized results of internal laboratory for period of April 2020 to September 2020 are as follows;</p> <table border="1" data-bbox="808 1010 1507 1325"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Major Parameters</th> <th colspan="2">Monitoring result / range (ppb) April 2020 to September 2020</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ethyl Acetate</td> <td>27</td> <td>82</td> </tr> <tr> <td>2</td> <td>Toluene</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>MDC</td> <td>BDL</td> <td>52</td> </tr> <tr> <td>4</td> <td>Methanol</td> <td>21</td> <td>40</td> </tr> <tr> <td>5</td> <td>Di Ethyl Amine</td> <td>BDL</td> <td>BDL</td> </tr> </tbody> </table> <p>The Internal and external laboratory results are well within limit. At no time the emission levels go beyond stipulated standards. The ranges of stack monitoring, Ambient Air Quality Monitoring and Fugitive emission monitoring are given in table above.</p> <p>The unit has implemented interlocking system for air pollution control devices. In event of non-operation of pollution control system, the respective plant/unit is not started. The details of interlocks are attached as Annexure 12.</p> <p>Complied.</p> | Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | Min | Max | 1 | Ethyl Acetate | 27 | 82 | 2 | Toluene | BDL | BDL | 3 | MDC | BDL | 52 | 4 | Methanol | 21 | 40 | 5 | Di Ethyl Amine | BDL | BDL |
| Sr. No | Major Parameters | Monitoring result / range (ppb) April 2020 to September 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Ethyl Acetate | 27 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Toluene | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MDC | BDL | 52 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Methanol | 21 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Di Ethyl Amine | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | |
| viii | The company shall provide the monitoring arrangement with all the vents for monitoring of (SO2, NOx, HCl, Cl2, H2S, CO, HC and VOC) along with PM, SPM and RSPM and reports shall be submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal. | The company has provided monitoring arrangements such as platforms, power supply, porthole, ladders to all stacks The process stacks including fume incinerator have been monitored as per GPCB consented parameters such as Cl2,H2S,HC,HCN,NH3,HCl, PM and flue gas stacks are monitored for Particulate Matter (PM), SO2 and NOx. | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|-------------------|-------------------|--|--|----------------------|--|------------------------------------|----------------|------------------------------------|----------------|-------------------------------------|--|----------------------|----|---------------------------------|----|------------------|----|--------------|----|--------------------|----|--------------|----|-------------------------------|----|---|----|
| | | <p>The ambient air monitoring is being conducted for PM2.5, RSPM (PM10), SO₂, NO_x, HCl, Cl₂, NH₃, HF, H₂S and Hydrocarbon through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-9).</p> <p><u>Summarized monitoring data are given in compliance to EC Specific Condition no VII.</u></p> <p>All reports are submitted to SPCB on monthly basis and the Ministry every half yearly.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ix | Chilled Brine Secondary Condensers shall be provided for control of evaporation of low boiling solvents. | <p>Suitable chilling system is provided to secondary condenser for Volatile Organic Compound (VOC) emission control. We have maintained solvent recovery above 96% from spent solvent and will be improved further.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | Standards notified for pesticides unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed by the Unit. | <p>We have/will be implemented the amended pesticide sector's standards time to time whenever applicable. The compliance of pesticide specific standard is attached as Annexure 31 & Summarized Below</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Particular</th> <th style="text-align: center;">Compliance Status</th> </tr> </thead> <tbody> <tr> <td>Process Emissions PM, HCl, Cl₂, H₂S, CH₃Cl</td> <td>Complied – All emissions are well within norms</td> </tr> <tr> <td>Effluent Standards</td> <td>Unit is ZLD – No discharge is committed since May 2014</td> </tr> <tr> <td>Emission Standards for Incinerator</td> <td>Not Applicable</td> </tr> <tr> <td>Effluent Standards for Incinerator</td> <td>Not Applicable</td> </tr> <tr> <td>Storm Water Not Mixed with effluent</td> <td>The unit has separate drainage network for storm water</td> </tr> </tbody> </table> <p>Complied.</p> | Particular | Compliance Status | Process Emissions PM, HCl, Cl ₂ , H ₂ S, CH ₃ Cl | Complied – All emissions are well within norms | Effluent Standards | Unit is ZLD – No discharge is committed since May 2014 | Emission Standards for Incinerator | Not Applicable | Effluent Standards for Incinerator | Not Applicable | Storm Water Not Mixed with effluent | The unit has separate drainage network for storm water | | | | | | | | | | | | | | | | |
| Particular | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Process Emissions PM, HCl, Cl ₂ , H ₂ S, CH ₃ Cl | Complied – All emissions are well within norms | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Effluent Standards | Unit is ZLD – No discharge is committed since May 2014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emission Standards for Incinerator | Not Applicable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Effluent Standards for Incinerator | Not Applicable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storm Water Not Mixed with effluent | The unit has separate drainage network for storm water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xi | The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, Cl ₂ , SO ₂ , etc. high efficiency scrubbers shall be provided with each reactor. | <p>Stack height details for reactors, boilers and fume incinerator are summarized below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Stack attached to</th> <th style="text-align: center;">Height (Meters)</th> </tr> </thead> <tbody> <tr><td>Acephate / Metamitron</td><td style="text-align: center;">20</td></tr> <tr><td>Mesotrion / Imazapic</td><td style="text-align: center;">30</td></tr> <tr><td>DETA / ZnDTP</td><td style="text-align: center;">30</td></tr> <tr><td>Solid Formulation Plant</td><td style="text-align: center;">20</td></tr> <tr><td>Devrinol Plant</td><td style="text-align: center;">30</td></tr> <tr><td>DETA / ZnDTP / DETCL</td><td style="text-align: center;">30</td></tr> <tr><td>Acephate Plant (Ketene Process)</td><td style="text-align: center;">30</td></tr> <tr><td>Metrubizin Plant</td><td style="text-align: center;">30</td></tr> <tr><td>Noflan Plant</td><td style="text-align: center;">30</td></tr> <tr><td>DETA / ZnDTP Plant</td><td style="text-align: center;">30</td></tr> <tr><td>Noflan Plant</td><td style="text-align: center;">30</td></tr> <tr><td>Acephate Plant Ketene Process</td><td style="text-align: center;">30</td></tr> <tr><td>Fume Incinerator attached to Terubuphos</td><td style="text-align: center;">30</td></tr> </tbody> </table> | Stack attached to | Height (Meters) | Acephate / Metamitron | 20 | Mesotrion / Imazapic | 30 | DETA / ZnDTP | 30 | Solid Formulation Plant | 20 | Devrinol Plant | 30 | DETA / ZnDTP / DETCL | 30 | Acephate Plant (Ketene Process) | 30 | Metrubizin Plant | 30 | Noflan Plant | 30 | DETA / ZnDTP Plant | 30 | Noflan Plant | 30 | Acephate Plant Ketene Process | 30 | Fume Incinerator attached to Terubuphos | 30 |
| Stack attached to | Height (Meters) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate / Metamitron | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesotrion / Imazapic | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solid Formulation Plant | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP / DETCL | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate Plant (Ketene Process) | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metrubizin Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate Plant Ketene Process | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fume Incinerator attached to Terubuphos | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|--|--|---------------|--|---|----------------|----------------------|----------------|--------------|-----------------|-------------------------|-----------------------------|----------------|-----------------|----------------------|-----------------|---------------------------------|----------------|------------------|-----------------|--------------|----------------|--------------------|-----------------|--------------|----------------------------------|--|-------------------------------------|-------|-------------------------------------|----------|----|--------|----|---------|----|---------|----|--------|----|--------|----|
| | | <p>Process/flue gas emissions such as SO₂, H₂S, NH₃, HCL, CL₂, HC etc are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. We also do process stack monitoring through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are well within permissible limit prescribed by GPCB (detailed report is attached as Annexure-8). <u>The summarized results are given in compliance to specific condition no VII.</u></p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| xii | <p>Water /Alkali Two stage Scrubber systems, Mist Eliminator with Koch filter and wet Scrubber with Mist Eliminator shall be installed for the boilers, Thermic Fluid heater, D.G. Sets.</p> <p>The scrubbed water shall be sent to ETP for further treatment.</p> | <p>All process/flue gas emissions are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. The details of Air Pollution Control System installed have been attached as Annexure 35 & Summarized below.</p> <table border="1" data-bbox="808 783 1521 1287"> <thead> <tr> <th>Name of Stack</th> <th>Air Pollution Control Measures Installed</th> </tr> </thead> <tbody> <tr> <td>Acephate / Metamitron</td> <td>Water scrubber</td> </tr> <tr> <td>Mesotrion / Imazapic</td> <td>Water scrubber</td> </tr> <tr> <td>DETA / ZnDTP</td> <td>Alkali scrubber</td> </tr> <tr> <td>Solid Formulation Plant</td> <td>Dust Collector + Bag Filter</td> </tr> <tr> <td>Devrinol Plant</td> <td>Alkali scrubber</td> </tr> <tr> <td>DETA / ZnDTP / DETCL</td> <td>Alkali scrubber</td> </tr> <tr> <td>Acephate Plant (Ketene Process)</td> <td>Water scrubber</td> </tr> <tr> <td>Metrubizin Plant</td> <td>Alkali scrubber</td> </tr> <tr> <td>Noflan Plant</td> <td>Water scrubber</td> </tr> <tr> <td>DETA / ZnDTP Plant</td> <td>Alkali scrubber</td> </tr> <tr> <td>Noflan Plant</td> <td>Alkali Scrubber + Water Scrubber</td> </tr> <tr> <td>Fume Incinerator attached to Terbuphos</td> <td>Heater / furnace – low sulphur fuel</td> </tr> </tbody> </table> <p>We are using Natural Gas as fuel in the boiler; hence Koch Filter / Wet Scrubber / Mist Eliminator not required. The scrubbed water is segregated & sent to full-fledged ETP for treatment and re-use through RO & evaporation system. The details are given below.</p> <table border="1" data-bbox="808 1451 1521 1686"> <thead> <tr> <th>Month</th> <th>Scrubbed Water Quantity in KL/Month</th> </tr> </thead> <tbody> <tr> <td>April 20</td> <td>51</td> </tr> <tr> <td>May 20</td> <td>49</td> </tr> <tr> <td>June 20</td> <td>54</td> </tr> <tr> <td>July 20</td> <td>48</td> </tr> <tr> <td>Aug 20</td> <td>62</td> </tr> <tr> <td>Sep 20</td> <td>55</td> </tr> </tbody> </table> <p>Complied.</p> | Name of Stack | Air Pollution Control Measures Installed | Acephate / Metamitron | Water scrubber | Mesotrion / Imazapic | Water scrubber | DETA / ZnDTP | Alkali scrubber | Solid Formulation Plant | Dust Collector + Bag Filter | Devrinol Plant | Alkali scrubber | DETA / ZnDTP / DETCL | Alkali scrubber | Acephate Plant (Ketene Process) | Water scrubber | Metrubizin Plant | Alkali scrubber | Noflan Plant | Water scrubber | DETA / ZnDTP Plant | Alkali scrubber | Noflan Plant | Alkali Scrubber + Water Scrubber | Fume Incinerator attached to Terbuphos | Heater / furnace – low sulphur fuel | Month | Scrubbed Water Quantity in KL/Month | April 20 | 51 | May 20 | 49 | June 20 | 54 | July 20 | 48 | Aug 20 | 62 | Sep 20 | 55 |
| Name of Stack | Air Pollution Control Measures Installed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate / Metamitron | Water scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesotrion / Imazapic | Water scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP | Alkali scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solid Formulation Plant | Dust Collector + Bag Filter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol Plant | Alkali scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP / DETCL | Alkali scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate Plant (Ketene Process) | Water scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metrubizin Plant | Alkali scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | Water scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA / ZnDTP Plant | Alkali scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noflan Plant | Alkali Scrubber + Water Scrubber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fume Incinerator attached to Terbuphos | Heater / furnace – low sulphur fuel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Scrubbed Water Quantity in KL/Month | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April 20 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June 20 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| July 20 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | <p>The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs.</p> | <p>Suitable chilling system is provided to secondary condenser for Volatile Organic Compound (VOC) emission control. The photograph showing chilled brine condenser is attached as Annexure 32. The measured ranges of VOC are given below.</p> <table border="1" data-bbox="808 1850 1521 1915"> <thead> <tr> <th>Sr. No</th> <th>Major Parameters</th> <th>Monitoring result / range (ppb) April 20 To September 20</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sr. No | Major Parameters | Monitoring result / range (ppb) April 20 To September 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Major Parameters | Monitoring result / range (ppb) April 20 To September 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | |
|--------------------------|--|---|--------------------------|-----|-----|-------------------------|----------------------------------|----------|--------------------------|---|------------|----------|--|------------|------------|-----------------|------------|
| | | | | Min | Max | | | | | | | | | | | | |
| | | 1 | Chlorine | BDL | BDL | | | | | | | | | | | | |
| | | 2 | Tertiary Butyl Mercaptan | BDL | 40 | | | | | | | | | | | | |
| | | 3 | H2S | BDL | 45 | | | | | | | | | | | | |
| | | 4 | NH3 | BDL | 50 | | | | | | | | | | | | |
| | | <p><i>*There is no limit for Fugitive Emission hence we are comparing monitored values with TLV-TWA. For Mercaptan, TLV-TWA is 0.5 ppm; for H2S, TLV is 10 ppm and for NH3, TLV is 25 ppm.</i></p> <p>Complied.</p> | | | | | | | | | | | | | | | |
| | The project authority shall ensure that the solvent recovery shall not be less than 95%. | Solvent recovery is above 95% from spent solvent and will be improved further. Complied. | | | | | | | | | | | | | | | |
| -- | Solvent management shall be as follows: | | | | | | | | | | | | | | | | |
| | A. Reactor shall be connected to chilled brine condenser system | All reactor vents are connected to common Condenser or Fume incinerator to reduce fugitive/VOC emission. Total 7 Nos of reactor connected with common chilled brine system Complied. | | | | | | | | | | | | | | | |
| | B. Reactor and solvent handling pump shall have mechanical seals to prevent leakages | All the reactors & pumps are having suitable mechanical seals to prevent any leakages. Total 150 Pumps with Mechanical seal / Canned Pumps. Complied. | | | | | | | | | | | | | | | |
| | C. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery | The condensers provided for solvent recovery are having 20% excess HTA to achieve more than 96% recovery. Complied. | | | | | | | | | | | | | | | |
| | D. Solvents shall be stored in a separate space specified with all safety measures | The solvents are stored in separate Underground (UG) tanks & required Chief Controller of Explosives (CCOE) license has been taken. All the required safety aspects are being incorporated. The details of licenses is tabulated below. | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Approval No (Letter No)</th> <th>Approved Substance with Quantity</th> <th>Validity</th> </tr> </thead> <tbody> <tr> <td>P/HQ/GJ/15/1042 (P10593)</td> <td>Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO</td> <td>31.12.2023</td> </tr> <tr> <td>435/2018</td> <td>Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI</td> <td>31.12.2020</td> </tr> <tr> <td>S06005113A</td> <td>Factory Licence</td> <td>31.12.2024</td> </tr> </tbody> </table> | | | | Approval No (Letter No) | Approved Substance with Quantity | Validity | P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | 435/2018 | Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI | 31.12.2020 | S06005113A | Factory Licence | 31.12.2024 |
| Approval No (Letter No) | Approved Substance with Quantity | Validity | | | | | | | | | | | | | | | |
| P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 KI – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | | | | | | | | | | | | | | | |
| 435/2018 | Sodium Hydroxide : 40 kl Recovered Methanol (50%) : 15 KL Fresh Methanol : 50 KI | 31.12.2020 | | | | | | | | | | | | | | | |
| S06005113A | Factory Licence | 31.12.2024 | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|--|--------|------------------|--|--|-----|-----|---|---------------|----|----|---|---------|-----|-----|---|-----|-----|----|---|----------|----|----|---|----------------|-----|-----|
| | <p>E. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done</p> <p>F. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> | <p>Proper earthing with jumpers, cathodic protection to the UG solvent tanks are provided. Complied.</p> <p>Total plant has flame proof electrical installations. Suitable breather valves (40 Nos) are also provided at the vents of the solvent tanks. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | <p>Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by MPCB.</p> | <p>We are monitoring fugitive emissions using portable monitors for Total Mercaptan (TM), H₂S, NH₃ and VOC. However, there are no such standards for fugitive emissions. All vents from the reactor containing Mercaptan are connected to the captive fume incinerator for thermal destruction. In addition, fugitive emission monitoring at various locations are being carried out by our internal laboratory (through portable VOC meter) and data is being maintained. Detailed report for fugitive emissions is enclosed as Annexure-11.</p> <p>The summarized results of internal laboratory for period of April 2020 to September 2020 are as follows;</p> <table border="1" data-bbox="805 911 1510 1188"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Major Parameters</th> <th colspan="2">Monitoring result / range (ppb) Apr 20 to Sep-20</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ethyl Acetate</td> <td>27</td> <td>82</td> </tr> <tr> <td>2</td> <td>Toluene</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>3</td> <td>MDC</td> <td>BDL</td> <td>52</td> </tr> <tr> <td>4</td> <td>Methanol</td> <td>21</td> <td>40</td> </tr> <tr> <td>5</td> <td>Di Ethyl Amine</td> <td>BDL</td> <td>BDL</td> </tr> </tbody> </table> <p><i>*There is no limit for Fugitive Emission hence we are comparing monitored values with TLV / TWA. For Tertiary Butyl Mercaptan, TWA is 0.5 ppm; for H₂S, TLV is 10 ppm and for NH₃, TLV is 25 ppm.</i></p> <p>Fugitive emission is controlled by using seal-less pumps for toxic chemicals, flange-guards, mechanical seals for pumps and reactors etc.</p> <p>Complied.</p> | Sr. No | Major Parameters | Monitoring result / range (ppb) Apr 20 to Sep-20 | | Min | Max | 1 | Ethyl Acetate | 27 | 82 | 2 | Toluene | BDL | BDL | 3 | MDC | BDL | 52 | 4 | Methanol | 21 | 40 | 5 | Di Ethyl Amine | BDL | BDL |
| Sr. No | Major Parameters | Monitoring result / range (ppb) Apr 20 to Sep-20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Min | Max | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Ethyl Acetate | 27 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Toluene | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MDC | BDL | 52 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Methanol | 21 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Di Ethyl Amine | BDL | BDL | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | <p>For control of fugitive emission and VOCs following steps shall be followed :</p> <p>A. Closed handling system shall be provided for chemicals</p> <p>B. Reflux condenser shall be provided over reducer</p> | <p>All the chemicals are handled through closed systems as follows</p> <ol style="list-style-type: none"> 1) All Chemicals are stored under covered, leak proof storages. 2) All Chemicals are transferred through closed pipeline covered with flange guards (Splash Proof) having direct delivery in reactor only. 3) All Finished Goods are packed in automated packing area without manpower interventions. 4) All Chemicals are loaded/unloaded by mechanized systems only. Complied. <p>Wherever required suitable reflux condensers are provided on reducer. Total 15 Nos are provided. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
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| Sr. No. | Condition | Compliance Status |
|---------|--|---|
| | <p>C. Solvent handling pump shall be provided with mechanical seals to prevent leakages</p> <p>D. System of leak detection and repair of pump/pipeline based on preventive maintenance</p> <p>E. Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</p> | <p>All the chemical handling pumps are provided with suitable mechanical seals / Canned pumps are also safe guarded with pressure switches. Total 150 Pumps with mechanical seal or canned pumps provided. Complied.</p> <p>We work on SAP system & the system has full-fledged inbuilt preventive maintenance system. The unit has implemented LDAR Programme for Leak prevention. Complied.</p> <p>The solvents are transferred to reactors through close pipelines only. Suitable breather valves (40 Nos of valves) are provided at the vents. Complied.</p> |
| -- | <p>Use of toxic solvents like Methylene Chloride (M.C.) etc. shall be minimized to the extent possible.</p> <p>Benzene shall not be used as solvent and no odorous compounds/gas like Mercaptans or Hydrogen Sulfide shall be used or formed in any of reactions at the site</p> | <p>Presently No chemicals like methylene chloride is being used in manufacturing activities.</p> <p>We are not using benzene as the solvent. All vents from the reactors of Terbuphos plant containing Tertiary Butyl Mercaptan (TBM), H₂S are connected to the captive fume incinerator for thermal destruction. <u>The detailed summary of Compliance Incineration system is given in Specific Condition 7.</u></p> <p>We are also monitoring fugitive emissions using portable monitors for Tertiary Butyl Mercaptan (TBM), H₂S, NH₃, VOC etc. In addition, fugitive emission monitoring at various locations are being carried out by our internal laboratory (through portable VOC meter) and data is being maintained. Detailed report for fugitive emissions is enclosed as Annexure-11 and VOC Monitoring Report is attached as Annexure - 10. <u>The summarized report is enclosed in Compliance to EC Condition above.</u></p> <p>Complied.</p> |
| -- | <p>All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N₂ blanketing and condensers will be provided for all the storage tanks.</p> <p>Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions.</p> | <p>We have provided storage tanks under negative pressure wherever applicable. The communication for EC Amendment has been sent to MoEF&CC New Delhi for Amendment to EC Condition. The copy of letter is attached as Annexure 33. Nitrogen blanketing is used for certain material storages and hence they are under slightly positive pressure.</p> <p>Breather valves (45 Nos) are provided for solvent storages wherever necessary. Closed handling system and Seal-less pumps/Mechanical seal (150 Nos) are provided for hazardous/toxic chemical handling such as T-butyl Mercaptan.</p> |

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|---------|---|--|
| | Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary. | Solvent traps/ Condensers are provided. Chilled Brine system is provided for VOC emission control. VOC monitoring is being carried out through third party (ENPRO Envirotech and Engineers Pvt Ltd) and Detailed report for fugitive emissions is enclosed as Annexure-11. Complied. |
| -- | <p>All venting equipment shall have vapour recovery system.</p> <p>All the pumps and other equipment's where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors.</p> <p>Provision for immediate isolation of such equipment, in case of a leakage will also be made.</p> <p>The company shall provide a well-defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions.</p> <p>The detectors sensitivity will be in ppm levels.</p> | <p>All venting of equipment is connected to condensers/ process Scrubbers to scrub excess vapor. Total 7 Vents are connected to common condensers connected to fume Incinerator.</p> <p>LDAR (Leak Detection And Repairs) system is being followed to reduce VOC / HC emission. We also monitor LEL through LEL meter. In addition, sensors are provided for hazardous chemicals like EM, H2S, NH3 and VOC. Usage of seal less pumps for toxic chemicals.</p> <p>The unit has provided isolation valves/ slip blinds at shop floors as well as Central Control Room. In event of leakage / spillage the Isolation of supply has been practiced.</p> <p>LDAR (Leak Detection And Repairs) system is being followed to reduce VOC / HC emission. We also monitor LEL through LEL meter. In addition, sensors are provided for hazardous chemicals like EM, H2S, NH3 and VOC. Mechanical seals for certain reactors. Regular inspections are carried out with reference to plant operations like Pumps, Valves, Pipes, etc., as per maintenance software (SAP).</p> <p>The unit has provided online continuous Hazardous chemicals detection meters at different plant areas for NH₃ & HCl. The measurement range is in PPM level and same has been connected to Central Control Room. The higher values beyond TLV-TWA the CCR operator receives alarm on screen asking for immediate action.</p> <p><u><i>The measurement ranges of Fugitive emissions/ VOC is given in Compliance to Specific Condition No VII.</i></u></p> <p>Complied.</p> |
| -- | Entire quantity of the ETP sludge (27.5 MTM), Incineration Ash (18 MTM), & Salts from evaporation system (272 MTM) shall be sent to the M/s. BEIL for secured landfilling. | The unit has taken different product mix changes and added later on formulation products which generates additional hazardous waste. The generated solid waste such as ETP sludge and evaporation salt are sent to Bharuch Enviro Infrastructure Limited (BEIL), Ankleshwar. BEIL membership is enclosed as Annexure-04. However, the Unit has not installed any captive incinerator. Please refer Annexure-05 for hazardous waste details (for April 2020 to September 2020). |

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| Sr. No. | Condition | Compliance Status |
|---------|--|---|
| | <p>Discarded Drums/Containers (3500 Nos. per month) shall be decontaminated and sold to approved scrap vendors and Used oil (1600 LTM) shall be sold to the approved recyclers.</p> <p>Filter Aid inert (3.25 MTM), Process Organic liquid/solid waste (772.525 MTM), and Aqueous liquid waste (644 MTM) shall be sent to Incinerator.</p> | <p>Discarded drums are being sent to scrap processors after getting approval through Ankleshwar Environmental Preservation Society (AEPS) assigned by Gujarat Pollution Control Board (GPCB) and generated used oil is sent to approved recyclers. The photograph showing drum decontamination facility is attached as Annexure 19</p> <p>Process organic solid / aqueous wastes, filter aid inert are sent to BEIL, Ankleshwar for incineration. We are treating / disposing off the hazardous wastes generated as per the conditions of the Authorization given by GPCB under the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.</p> <p>In addition to this, Yearly Hazardous Waste return is being submitted to GPCB regularly. We are disposing our hazardous wastes (landfilling wastes and incineration wastes) to TSDf site of BEIL, Ankleshwar. We have obtained valid Authorization from SPCB vide Authorization no. AWH 97435 dated 21.02.2019 valid till 02.08.2025. Consent copy is attached herewith for your ready reference as Annexure-1C.</p> <p>Complied.</p> |
| -- | <p>During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.</p> | <p>We are taking extreme care while transferring / charging of any material. Garland drains are provided surrounding the plants to avoid storm water contamination. The garland drain is meeting to ETP for further treatment. The photograph showing garland drain is given below.</p> <div data-bbox="808 1171 1511 1671" data-label="Image"> </div> <p align="center">A Photograph Showing Garland Drain in Plant Area</p> <p>Complied.</p> |
| -- | <p>The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit.</p> | <p>All venting of equipment is connected to condensers/ process Scrubbers to scrub excess vapour. LDAR (Leak Detection And Repairs) system is being followed to reduce VOC / HC emission. We also monitor LEL through LEL meter. In addition, sensors are provided for hazardous chemicals like EM, H2S, NH3 and VOC. All</p> |

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|--|---|--|----------------|-----------------------------------|--------------|---------------------------------|-----------------------------|---|--|-----------------------------|-----------------|
| | | <p>odorous streams (Gaseous form) generated from the Terbuphos plant are sent to captive fume incinerator for thermal destruction. Usage of seal less/mechanical seal pumps for toxic chemicals. Mechanical seals for certain reactors. Regular inspections are carried out with reference to plant operations like Pumps, Valves, Pipes etc., as per maintenance software (SAP).</p> <p>Complied.</p> | | | | | | | | | |
| -- | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | <p>The company is having medical doctor and Occupational Health Center and an ambulance. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency every year for Physical examination, Hemoglobin, Complete Blood Count, ESR, Complete Urine Examination, Liver Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc. Regular Blood Cholinesterase Activity (BCA) test for employees is also being carried out for all Employees including contract employees. Sample copy is enclosed for your ready reference as Annexure-28.</p> <p><u>No Occupational Health Disease is Reported.</u></p> <p>We have strengthened our occupational health care center by deployment of full-time resident doctor in clinic with latest instruments, First Aid Kits, Ambulance, Emergency Kits and Antidots.</p> <p>All medical records are being maintained. The unit also conducts pre-employment medical checkup. Sample copy is enclosed for your ready reference as Annexure-28.</p> <p>Complied.</p> | | | | | | | | | |
| -- | The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. | <p>Adequate fire extinguishers & fire hydrant system is installed & maintained. The details of Fire Fighting Network and preparedness of unit in case of fire is detailed in Onsite Emergency Plan.</p> <p>Complied.</p> | | | | | | | | | |
| -- | Training shall be imparted to all employees on safety and health aspects of chemicals handling. | <p>We provide regular training & re-training to all employees for the safety & health aspects of various chemicals handled. <u>The training details are summarized below.</u></p> <table border="1" data-bbox="808 1528 1507 1913"> <thead> <tr> <th data-bbox="808 1528 1507 1608">Training Topic</th> </tr> </thead> <tbody> <tr> <td data-bbox="808 1608 1507 1644">Safety Level 0 & Level 1 Training</td> </tr> <tr> <td data-bbox="808 1644 1507 1680">ERT Training</td> </tr> <tr> <td data-bbox="808 1680 1507 1715">Guideline for Point Supervision</td> </tr> <tr> <td data-bbox="808 1715 1507 1751">Flammable Material Handling</td> </tr> <tr> <td data-bbox="808 1751 1507 1787">Leakage -Spillage identity & control attend</td> </tr> <tr> <td data-bbox="808 1787 1507 1822">Combustible & Flammable liquid, Hazchem code</td> </tr> <tr> <td data-bbox="808 1822 1507 1858">Behavior Based Safety (BBS)</td> </tr> <tr> <td data-bbox="808 1858 1507 1913">Chemical Safety</td> </tr> </tbody> </table> | Training Topic | Safety Level 0 & Level 1 Training | ERT Training | Guideline for Point Supervision | Flammable Material Handling | Leakage -Spillage identity & control attend | Combustible & Flammable liquid, Hazchem code | Behavior Based Safety (BBS) | Chemical Safety |
| Training Topic | | | | | | | | | | | |
| Safety Level 0 & Level 1 Training | | | | | | | | | | | |
| ERT Training | | | | | | | | | | | |
| Guideline for Point Supervision | | | | | | | | | | | |
| Flammable Material Handling | | | | | | | | | | | |
| Leakage -Spillage identity & control attend | | | | | | | | | | | |
| Combustible & Flammable liquid, Hazchem code | | | | | | | | | | | |
| Behavior Based Safety (BBS) | | | | | | | | | | | |
| Chemical Safety | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----------------------------|---------------------------------|-------------------------------------|--|--|-----------------------------------|--------------|---------------------------------|-----------------------------|---|--|-----------------------------|-----------------|---|----------------------------|--------------------|----------------------|--------------------------------|
| | <p>As informed to the Ministry, OHSAS 18001 shall be continued.</p> <p>Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.</p> <p>Training to all employees on handling of chemicals shall be imparted.</p> | <table border="1" style="width: 100%; text-align: center;"> <tr><td>Emergency Preparedness & Response (EPR)</td></tr> <tr><td>EHS Bridging the skill Gap</td></tr> <tr><td>Hazard Recognition</td></tr> <tr><td>Electrostatic Hazard</td></tr> <tr><td>Incident Investigation- Basics</td></tr> </table> <p>The Unit is ISO-45001 Management System Certified. The copy of certificate is attached as Annexure-34).</p> <p>Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency every year. All medical records are being maintained. Sample copy is enclosed for your ready reference as Annexure-28.</p> <p>Proper training for handling of chemicals is being given time to time to employees. <u>The summary of Training is given below.</u></p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>Training Topic</td></tr> <tr><td>Safety Level 0 & Level 1 Training</td></tr> <tr><td>ERT Training</td></tr> <tr><td>Guideline for Point Supervision</td></tr> <tr><td>Flammable Material Handling</td></tr> <tr><td>Leakage -Spillage identity & control attend</td></tr> <tr><td>Combustible & Flammable liquid, Hazchem code</td></tr> <tr><td>Behavior Based Safety (BBS)</td></tr> <tr><td>Chemical Safety</td></tr> <tr><td>Emergency Preparedness & Response (EPR)</td></tr> <tr><td>EHS Bridging the skill Gap</td></tr> <tr><td>Hazard Recognition</td></tr> <tr><td>Electrostatic Hazard</td></tr> <tr><td>Incident Investigation- Basics</td></tr> </table> <p>Complied.</p> | Emergency Preparedness & Response (EPR) | EHS Bridging the skill Gap | Hazard Recognition | Electrostatic Hazard | Incident Investigation- Basics | Training Topic | Safety Level 0 & Level 1 Training | ERT Training | Guideline for Point Supervision | Flammable Material Handling | Leakage -Spillage identity & control attend | Combustible & Flammable liquid, Hazchem code | Behavior Based Safety (BBS) | Chemical Safety | Emergency Preparedness & Response (EPR) | EHS Bridging the skill Gap | Hazard Recognition | Electrostatic Hazard | Incident Investigation- Basics |
| Emergency Preparedness & Response (EPR) | | | | | | | | | | | | | | | | | | | | | |
| EHS Bridging the skill Gap | | | | | | | | | | | | | | | | | | | | | |
| Hazard Recognition | | | | | | | | | | | | | | | | | | | | | |
| Electrostatic Hazard | | | | | | | | | | | | | | | | | | | | | |
| Incident Investigation- Basics | | | | | | | | | | | | | | | | | | | | | |
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| Guideline for Point Supervision | | | | | | | | | | | | | | | | | | | | | |
| Flammable Material Handling | | | | | | | | | | | | | | | | | | | | | |
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| Hazard Recognition | | | | | | | | | | | | | | | | | | | | | |
| Electrostatic Hazard | | | | | | | | | | | | | | | | | | | | | |
| Incident Investigation- Basics | | | | | | | | | | | | | | | | | | | | | |
| -- | Usage of PPEs by all employees/ workers shall be ensured. | <p>Proper Personal Protective Equipment (PPE's) such as Safety Shoes, Safety Goggles, Safety Helmets, Ear Plugs, Hand Gloves & Other hazard-oriented PPEs are given to all employees and workers.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | |
| -- | The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP) for pesticide units. | <p>All points included in the CREP has been implemented. Details are Summarized Below.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">CREP Requirement</td> <td style="width: 50%;">Compliance</td> </tr> <tr> <td>Segregation of Effluent Streams</td> <td>Complied. The segregation in place.</td> </tr> <tr> <td>Detoxification and High COD Stream Treatment</td> <td>Complied. The High COD Streams are given H2O2 Treatment.</td> </tr> </table> | CREP Requirement | Compliance | Segregation of Effluent Streams | Complied. The segregation in place. | Detoxification and High COD Stream Treatment | Complied. The High COD Streams are given H2O2 Treatment. | | | | | | | | | | | | | |
| CREP Requirement | Compliance | | | | | | | | | | | | | | | | | | | | |
| Segregation of Effluent Streams | Complied. The segregation in place. | | | | | | | | | | | | | | | | | | | | |
| Detoxification and High COD Stream Treatment | Complied. The High COD Streams are given H2O2 Treatment. | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | |
|-------------------------------|--|--|--|
| | | Improvement in Solvent Recovery | Complied. We have more than 95% Solvent Recovery |
| | | Hazardous Air Pollution Control | Complied, Installed scrubbers, Bag Filter |
| | | Control of Fugitive Emissions/VOCs | Complied, Implemented closed handling system & regular monitoring of VOCs & Fugitive emissions |
| | | Upgradation of Incinerators | Complied – All incinerable waste sent to BEIL TSDF |
| | | Replacement of Bio Assay test with TF | Complied – Implemented TF 2 |
| | | Minimum Scale of Production to afford cost of pollution load | Not Applicable |
| | | Non-complying units should met notified standards | Not Applicable – Unit is complying all standards |
| | -- The project authorities shall develop greenbelt in 12,252 m2 of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission. | <p>The unit has total 65,625 sq.m. of land area. Till the date unit has developed 13,911.58 M² of factory area as green belt and additional greenbelt area of 315 sq.m is proposed.</p> <p>In addition, the unit has signed agreement for development of 45 acres (182,108.54 m2) of land for greenbelt development from ~3 km distance at survey no 611/613/614/615 & 616 located at village – Mandva.</p> <p>Complied.</p> | |
| B → GENERAL CONDITIONS | | | |
| | -- The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body. | <p>All conditions given by State Pollution Control Board (GPCB) is being strictly followed and compliance to consent conditions has been certified by Schedule 1 Auditor appointed by GPCB for Environmental Audit.</p> <p>In addition, we upload online monthly data through GPCB XGN website regularly. We also submit monthly external party monitoring results, Annual hazardous waste return, water cess return, Environmental Statement etc., to Authorities in time.</p> <p>Complied.</p> | |
| | <p>-- No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.</p> <p>In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the</p> | <p>The Unit has not done any modification OR expansion without getting prior approval from the Ministry. Valid EC/NOC/CC&A received from the Government Authorities for any expansion OR modification. We have obtained three Environmental Clearance (1) EC No # J.11011/77/2002-IA.II dated 17.07.2003; (2) EC No # J.11011/1281/2007-IA (II) dated 15.04.2008 (3) EC No # J.11011/77/2002-IA.II dated 10.01.2020 for expansion of pesticide technical and intermediate products.</p> <p>No Deviations or alterations in project have been proposed.</p> <p>Complied.</p> | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
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| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | |
|--------------------------|---|---|-------------------------|----------------------------------|----------|--------------------------|---|------------|----------|---|------------|------------|-----------------|------------|
| | Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | | | | | | | | | | | | | |
| -- | <p>The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended.</p> <p>Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.</p> | <p>The unit is complying with the MSIHC Rules, 2000. All necessary prior approvals have been obtained from Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc. The details of approval is summarized below.</p> <table border="1" data-bbox="808 527 1513 963"> <thead> <tr> <th data-bbox="808 527 1000 604">Approval No (Letter No)</th> <th data-bbox="1000 527 1352 604">Approved Substance with Quantity</th> <th data-bbox="1352 527 1513 604">Validity</th> </tr> </thead> <tbody> <tr> <td data-bbox="808 604 1000 772">P/HQ/GJ/15/1042 (P10593)</td> <td data-bbox="1000 604 1352 772">Solvent Class A : 150 Kl – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO</td> <td data-bbox="1352 604 1513 772">31.12.2023</td> </tr> <tr> <td data-bbox="808 772 1000 909">435/2018</td> <td data-bbox="1000 772 1352 909">Sodium Hydroxide: 40 kl Recovered Methanol (50%): 15 KL Fresh Methanol: 50 Kl</td> <td data-bbox="1352 772 1513 909">31.12.2020</td> </tr> <tr> <td data-bbox="808 909 1000 963">S06005113A</td> <td data-bbox="1000 909 1352 963">Factory Licence</td> <td data-bbox="1352 909 1513 963">31.12.2024</td> </tr> </tbody> </table> <p>We are treating / disposing off the hazardous wastes generated as per the conditions of the Authorization given by GPCB under the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. In addition to this, Yearly Hazardous Waste return is being submitted to GPCB regularly. We are disposing our hazardous wastes (landfilling wastes and incineration wastes) to TSDF site of BEIL, Ankleshwar. We have obtained valid Authorization from SPCB vide Authorization no. AWH 97435 dated 21.02.2019 valid till 02.08.2025 and latest Consent granted by GPCB vide GPCB CC&A AWH-105668 dated 20.04.2020 up to 01.08.2025. (The copies of valid CC& A are attached herewith for your ready reference as Annexure – 1C). The BEIL membership certificate is enclosed as Annexure-04. Complied.</p> | Approval No (Letter No) | Approved Substance with Quantity | Validity | P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 Kl – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | 435/2018 | Sodium Hydroxide: 40 kl Recovered Methanol (50%): 15 KL Fresh Methanol: 50 Kl | 31.12.2020 | S06005113A | Factory Licence | 31.12.2024 |
| Approval No (Letter No) | Approved Substance with Quantity | Validity | | | | | | | | | | | | |
| P/HQ/GJ/15/1042 (P10593) | Solvent Class A : 150 Kl – TOLUENE, METHANOL, ETHANOL Class B : 40 kl - HSD Class C : 40 kl - FO | 31.12.2023 | | | | | | | | | | | | |
| 435/2018 | Sodium Hydroxide: 40 kl Recovered Methanol (50%): 15 KL Fresh Methanol: 50 Kl | 31.12.2020 | | | | | | | | | | | | |
| S06005113A | Factory Licence | 31.12.2024 | | | | | | | | | | | | |
| -- | Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board. | Three Ambient Air monitoring stations are installed as per CPCB/GPCB guideline. We do ambient air monitoring through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-9) & Summarized in Specific Condition No VII. Complied. | | | | | | | | | | | | |
| -- | For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. | Stack height are maintained as 30 m for reactors, <u>the summarized details of stack height is given in compliance to specific condition XI</u> . Boilers and fume incinerator. Process/flue gas emissions such as SO ₂ , H ₂ S, NH ₃ , HCL, CL ₂ , HC, etc., are being scrubbed through water scrubber/water + caustic (two stage) scrubber, carbon column. <u>The details of Air Pollution Control Measures adopted by</u> | | | | | | | | | | | | |

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by UPL Limited, Unit # 02, Ankleshwar, Gujarat
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| Sr. No. | Condition | Compliance Status | | | | | | |
|---------|--|--|--------|--|---|---|----|----|
| | The scrubbed water shall be sent to ETP for further treatment. | <p><u>Unit have been summarized in compliance to Specific Condition no XII.</u></p> <p>We also do process stack monitoring through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are well within permissible limit prescribed by GPCB (detailed report is attached as Annexure-8). <u>The summarized results of stack monitoring have been given in Compliance to EC Condition No VII.</u></p> <p>The scrubbed water is sent to ETP consisting of primary, secondary & tertiary treatment systems for treatment and re-use through RO and evaporation system.</p> <p>Complied.</p> | | | | | | |
| -- | <p>The company shall undertake following Waste Minimization measures: -</p> <ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Maximizing recoveries • Use of automated material transfer system to minimize spillage. • Use of Closed Feed system into batch reactors. | <p>All the ingredients at various stages are controlled & yield / efficiencies are measured at the source and disposal point.</p> <p>Wherever possible, the by-products are recycled back i.e. From Ammonium Acetate, we are recovering valuable products Ammonium Sulphate and Acetic Acid / Sodium Acetate. <u>The details of by product recovery are given in EC Compliance Condition No 2.</u></p> <p>By scrubbing H2S, the by-product NASH is generated and is being sold as by-product. <u>The details of by product recovery are given in EC Compliance Condition No 2.</u></p> <p>We have implemented automation in material transferring wherever possible to minimize leakage/spillage and also implemented LDAR system.</p> <p>We are using closed loop feed system to transfer the material by pipelines / tote bins.</p> <p>Complied.</p> | | | | | | |
| -- | The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. | <p>We are disposing off the hazardous wastes generated as per the conditions of the Authorization given by GPCB under the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016. The detailed compliance to HWM Rules 2016 has been Summarized below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No</th> <th style="text-align: center;">Total No of Sub Rules under HWM Rules 2016</th> <th style="text-align: center;">Total No of Sub Rules under HWM Rules 2016 complied by Unit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">26</td> <td style="text-align: center;">26</td> </tr> </tbody> </table> <p>In addition to this, Yearly Hazardous Waste annual return is being submitted to GPCB regularly. We are disposing our hazardous wastes (landfilling wastes and incineration wastes) to TSDF site of BEIL, Ankleshwar.</p> | Sr. No | Total No of Sub Rules under HWM Rules 2016 | Total No of Sub Rules under HWM Rules 2016 complied by Unit | 1 | 26 | 26 |
| Sr. No | Total No of Sub Rules under HWM Rules 2016 | Total No of Sub Rules under HWM Rules 2016 complied by Unit | | | | | | |
| 1 | 26 | 26 | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
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| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|---------------|---------------|-----------------------|--|---|-------------------|------------------------------|---|--------------------|-----------------------|--|------------------|------------------|-------------------------------------|------------------|----------------|----------------------------|---------------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|
| | Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes. | We have obtained valid Authorization from SPCB vide Authorization no. AWH 97435 dated 21.02.2019 valid till 02.08.2025, provisional consent to operate no. AWH-105668 dated 10.12.2019 and latest Consent granted by GPCB vide GPCB CC&A AWH-105668 dated 20.04.2020 up to 01.08.2025. (The copies of valid CC& A are attached herewith for your ready reference as Annexure – 1C). Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | The employees working near high noise area like compressor, boiler area, are provided Ear muffs & ear plugs. Acoustic enclosures / silencers are also provided. Also, development of green belt towards periphery of plant premises has been added advantage for reduction of ambient noise. Noise monitoring is being done twice in a month through our internal laboratory. The detailed report is attached as Annexure-27 . Summarized noise monitoring report (period: April 2020 to September 2020) is as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th align="center" colspan="5">Summarized Noise Monitoring Report (Internal Monitoring)</th> </tr> <tr> <th rowspan="2">Month</th> <th colspan="2">Minimum</th> <th colspan="2">Maximum</th> </tr> <tr> <th>Day Time</th> <th>Night Time</th> <th>Day Time</th> <th>Night Time</th> </tr> <tr> <td></td> <td align="center">75 dBA</td> <td align="center">70 dBA</td> <td align="center">75 dBA</td> <td align="center">70 dBA</td> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td align="center">35.4</td> <td align="center">66.8</td> <td align="center">33.1</td> <td align="center">64.6</td> </tr> <tr> <td>May 20</td> <td align="center">35.2</td> <td align="center">69.9</td> <td align="center">31.1</td> <td align="center">68.9</td> </tr> <tr> <td>Jun 20</td> <td align="center">38.8</td> <td align="center">69.3</td> <td align="center">40.2</td> <td align="center">67.6</td> </tr> <tr> <td>Jul 20</td> <td align="center">50.9</td> <td align="center">69.9</td> <td align="center">43.8</td> <td align="center">68.9</td> </tr> <tr> <td>Aug 20</td> <td align="center">52.2</td> <td align="center">69.9</td> <td align="center">45.6</td> <td align="center">69.4</td> </tr> <tr> <td>Sep 20</td> <td align="center">55.2</td> <td align="center">69.9</td> <td align="center">40.2</td> <td align="center">69.4</td> </tr> </tbody> </table> <p>All parameters are well within permissible limit prescribed by SPCB. Complied.</p> | Summarized Noise Monitoring Report (Internal Monitoring) | | | | | Month | Minimum | | Maximum | | Day Time | Night Time | Day Time | Night Time | | 75 dBA | 70 dBA | 75 dBA | 70 dBA | Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 | May 20 | 35.2 | 69.9 | 31.1 | 68.9 | Jun 20 | 38.8 | 69.3 | 40.2 | 67.6 | Jul 20 | 50.9 | 69.9 | 43.8 | 68.9 | Aug 20 | 52.2 | 69.9 | 45.6 | 69.4 | Sep 20 | 55.2 | 69.9 | 40.2 | 69.4 |
| Summarized Noise Monitoring Report (Internal Monitoring) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Minimum | | Maximum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Day Time | Night Time | Day Time | Night Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 75 dBA | 70 dBA | 75 dBA | 70 dBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 35.2 | 69.9 | 31.1 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 38.8 | 69.3 | 40.2 | 67.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 50.9 | 69.9 | 43.8 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 52.2 | 69.9 | 45.6 | 69.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 55.2 | 69.9 | 40.2 | 69.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions. | The details of Environment Management Cell are given below. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Designation</th> <th>Qualification</th> </tr> </thead> <tbody> <tr> <td>Dr. Mritunjay Chaubey</td> <td>Global VP – Environment & Sustainability</td> <td>B.Tech, M .Tech. and Ph.D. in Environmental Engineering</td> </tr> <tr> <td>Mr. Ajay Pancholi</td> <td>Senior Manager - Environment</td> <td>B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management</td> </tr> <tr> <td>Mr. Sanjay Bachhav</td> <td>Manager - Environment</td> <td>MSc In Chemistry & Diploma in Industrial Environment</td> </tr> <tr> <td>Mr. Purvesh Soni</td> <td>Environment Lead</td> <td>BE Civil, M.E – Environmental Engg.</td> </tr> <tr> <td>Mr. Jayesh Patil</td> <td>Senior Manager</td> <td>BSc in Organic Chemistry &</td> </tr> </tbody> </table> | Name | Designation | Qualification | Dr. Mritunjay Chaubey | Global VP – Environment & Sustainability | B.Tech, M .Tech. and Ph.D. in Environmental Engineering | Mr. Ajay Pancholi | Senior Manager - Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | Mr. Sanjay Bachhav | Manager - Environment | MSc In Chemistry & Diploma in Industrial Environment | Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | Mr. Jayesh Patil | Senior Manager | BSc in Organic Chemistry & | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | Designation | Qualification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dr. Mritunjay Chaubey | Global VP – Environment & Sustainability | B.Tech, M .Tech. and Ph.D. in Environmental Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Ajay Pancholi | Senior Manager - Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Sanjay Bachhav | Manager - Environment | MSc In Chemistry & Diploma in Industrial Environment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mr. Jayesh Patil | Senior Manager | BSc in Organic Chemistry & | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|--|-------------------------|-----------------------------|-----------------------------|-------------------------|-----|------|---|----|---|------------------------|----|---|-------------------|----|---|-----------------|----|---|------------------------|----|---|--------------------|-----|---|--------------------|---|--------------------------|-----|----|-----------------------------|----|----|---------|----|---------------------|--|-------------|
| | | <table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Ms. Rinsu Varghese</td> <td style="width: 25%;">Sr. Executive - Environment</td> <td style="width: 25%;">-</td> <td style="width: 25%;">B.E. Environment & PDIS</td> </tr> </table> <ul style="list-style-type: none"> Internal Environment management cell comprising of Unit Head, plant Head, SHE Head & Corporate Environment head is in operation for close monitoring. The environment cell verifies environmental performance and involves in environmental audit. Stack Monitoring, Ambient Air Monitoring, Solid Waste Analysis is being done by third party (ENPRO Envirotech and Engineers Pvt Ltd) while Bio Assay Test, Toxicity Factor test, Fugitive Emission, VOC Monitoring, Noise Level Monitoring are carried out by our internal laboratory. The analysis of effluent is done in our full-fledged internal laboratory. The structure showing environment management cell is attached as Annexure 29. <p>Complied.</p> | Ms. Rinsu Varghese | Sr. Executive - Environment | - | B.E. Environment & PDIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ms. Rinsu Varghese | Sr. Executive - Environment | - | B.E. Environment & PDIS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes | <p>The Company has spent INR 1913 Lacs for environmental protection measures along with the projects implemented. The revenue expenditure for environmental protection measures is included in our budget and sufficient amount is available. All funds allocated for Environment Management System is not diverted for any other purpose. The detail of expenditure is as follows:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="text-align: left;">Sr. No.</th> <th style="text-align: left;">EMS Expenses Since 2008</th> <th style="text-align: left;">Capital Cost (In INR- Lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ETP</td> <td rowspan="2">1500</td> </tr> <tr> <td>2</td> <td>RO</td> </tr> <tr> <td>3</td> <td>Hazardous storage area</td> <td>34</td> </tr> <tr> <td>4</td> <td>Drum washing area</td> <td>25</td> </tr> <tr> <td>5</td> <td>Scrubber system</td> <td>15</td> </tr> <tr> <td>6</td> <td>Green belt development</td> <td>19</td> </tr> <tr> <td>7</td> <td>Evaporation system</td> <td rowspan="2">200</td> </tr> <tr> <td>8</td> <td>Chemical oxidation</td> </tr> <tr> <td>9</td> <td>Fume incineration system</td> <td>100</td> </tr> <tr> <td>10</td> <td>Ambient Air Quality Station</td> <td>12</td> </tr> <tr> <td>11</td> <td>Sensors</td> <td>08</td> </tr> <tr> <td colspan="2">TOTAL (Lacs)</td> <td>1913</td> </tr> </tbody> </table> <p>Complied.</p> | Sr. No. | EMS Expenses Since 2008 | Capital Cost (In INR- Lacs) | 1 | ETP | 1500 | 2 | RO | 3 | Hazardous storage area | 34 | 4 | Drum washing area | 25 | 5 | Scrubber system | 15 | 6 | Green belt development | 19 | 7 | Evaporation system | 200 | 8 | Chemical oxidation | 9 | Fume incineration system | 100 | 10 | Ambient Air Quality Station | 12 | 11 | Sensors | 08 | TOTAL (Lacs) | | 1913 |
| Sr. No. | EMS Expenses Since 2008 | Capital Cost (In INR- Lacs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ETP | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | RO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Hazardous storage area | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Drum washing area | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Scrubber system | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Green belt development | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Evaporation system | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Chemical oxidation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Fume incineration system | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Ambient Air Quality Station | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Sensors | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL (Lacs) | | 1913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | The project authorities shall provide rainwater harvesting system and ground water recharge. | <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection comes to 1168 KL in a year. The collected rain water is used as cooling tower make up water. Also, part of the rain water collected is taken to storage tanks. The storage tank capacity is 650 KL. We are not recharging harvested rain water in to the ground due to local SPCB restriction. The copy of action plan submitted to MoEF is attached as Annexure 16 A & Compliance of Action plan is attached as Annexure 16 B.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|--|--|--------|--------|-----------------------------|---|--------------------|------------------------------|---|------------------|------------------------------|---|------------------|------------------------------|---|------------------|-----------------------------|---|------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|----|-------------------|-----------------------------|----|-------------------|-----------------------------|
| -- | The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office /SPCB / CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies. | <p>We are submitting the half yearly compliance report in February and August every year to the Ministry/SPCB/CPCB. The summary of last eleven submissions is given below.</p> <table border="1" data-bbox="808 394 1515 930"> <thead> <tr> <th colspan="3" data-bbox="808 394 1515 520">EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 & # J.11011/1281/2007-IA (II) dated 15.04.2008 & # J.11011/77/2002-IA.II dated 10.01.2020</th> </tr> <tr> <th data-bbox="808 520 922 558">Sr. No</th> <th data-bbox="922 520 1149 558">Period</th> <th data-bbox="1149 520 1515 558">UPL Unit 2 Submission Dates</th> </tr> </thead> <tbody> <tr><td data-bbox="808 558 922 596">1</td><td data-bbox="922 558 1149 596">Oct 19 to March 20</td><td data-bbox="1149 558 1515 596">UPL U2 Letter dated 26/05/20</td></tr> <tr><td data-bbox="808 596 922 634">2</td><td data-bbox="922 596 1149 634">Apr 19 to Sep 19</td><td data-bbox="1149 596 1515 634">UPL U2 Letter dated 20/11/19</td></tr> <tr><td data-bbox="808 634 922 672">3</td><td data-bbox="922 634 1149 672">Oct 18 to Mar 19</td><td data-bbox="1149 634 1515 672">UPL U2 Letter dated 07/06/19</td></tr> <tr><td data-bbox="808 672 922 709">4</td><td data-bbox="922 672 1149 709">Apr 18 to Sep 18</td><td data-bbox="1149 672 1515 709">UPL U2 Letter dated 24/1/19</td></tr> <tr><td data-bbox="808 709 922 747">5</td><td data-bbox="922 709 1149 747">Jan 18 to Jun 18</td><td data-bbox="1149 709 1515 747">UPL U2 Letter dated 19/9/18</td></tr> <tr><td data-bbox="808 747 922 785">6</td><td data-bbox="922 747 1149 785">July 17 To Dec 17</td><td data-bbox="1149 747 1515 785">UPL U2 Letter dated 30/1/18</td></tr> <tr><td data-bbox="808 785 922 823">7</td><td data-bbox="922 785 1149 823">Jan 17 To June 17</td><td data-bbox="1149 785 1515 823">UPL U2 Letter dated 31/7/17</td></tr> <tr><td data-bbox="808 823 922 861">8</td><td data-bbox="922 823 1149 861">July 16 To Dec 16</td><td data-bbox="1149 823 1515 861">UPL U2 Letter dated 23/1/17</td></tr> <tr><td data-bbox="808 861 922 898">9</td><td data-bbox="922 861 1149 898">Jan 16 To June 16</td><td data-bbox="1149 861 1515 898">UPL U2 Letter dated 11/8/16</td></tr> <tr><td data-bbox="808 898 922 936">10</td><td data-bbox="922 898 1149 936">July 15 To Dec 15</td><td data-bbox="1149 898 1515 936">UPL U2 Letter dated 11/2/16</td></tr> <tr><td data-bbox="808 936 922 974">11</td><td data-bbox="922 936 1149 974">Jan 15 To June 15</td><td data-bbox="1149 936 1515 974">UPL U2 Letter dated 28/7/15</td></tr> </tbody> </table> <p>Complied.</p> | EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 & # J.11011/1281/2007-IA (II) dated 15.04.2008 & # J.11011/77/2002-IA.II dated 10.01.2020 | | | Sr. No | Period | UPL Unit 2 Submission Dates | 1 | Oct 19 to March 20 | UPL U2 Letter dated 26/05/20 | 2 | Apr 19 to Sep 19 | UPL U2 Letter dated 20/11/19 | 3 | Oct 18 to Mar 19 | UPL U2 Letter dated 07/06/19 | 4 | Apr 18 to Sep 18 | UPL U2 Letter dated 24/1/19 | 5 | Jan 18 to Jun 18 | UPL U2 Letter dated 19/9/18 | 6 | July 17 To Dec 17 | UPL U2 Letter dated 30/1/18 | 7 | Jan 17 To June 17 | UPL U2 Letter dated 31/7/17 | 8 | July 16 To Dec 16 | UPL U2 Letter dated 23/1/17 | 9 | Jan 16 To June 16 | UPL U2 Letter dated 11/8/16 | 10 | July 15 To Dec 15 | UPL U2 Letter dated 11/2/16 | 11 | Jan 15 To June 15 | UPL U2 Letter dated 28/7/15 |
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| Sr. No | Period | UPL Unit 2 Submission Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Oct 19 to March 20 | UPL U2 Letter dated 26/05/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3 | Oct 18 to Mar 19 | UPL U2 Letter dated 07/06/19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 | July 17 To Dec 17 | UPL U2 Letter dated 30/1/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Jan 17 To June 17 | UPL U2 Letter dated 31/7/17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | Jan 16 To June 16 | UPL U2 Letter dated 11/8/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 11 | Jan 15 To June 15 | UPL U2 Letter dated 28/7/15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office. | <p>The EC was received by UPL Unit 2 on 15/5/2008 & Advertisement was given Gujarati & English Newspapers and details submitted to GPCB and MoEF. Advertisement was published in the Indian Express newspaper (English) on 20th May 2008 and in Gujarat Samachar newspaper (Gujarati) on 21st May, 2008. The Copy of the advertisements are attached as Annexure-30 B with submission of EC copy to GPCB.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -- | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. | <p>Complied.</p> <p>Financial Closure Date : The project was financially closed on 11th May 2015.</p> <p>Final Approval Details : The project has received following approvals from SPCB. ⇒ Consent To Establish (NOC) # 47139 dated 25.07.2012 ⇒ CC&A amendment AWH#65674 dated 11.05.2015 from GPCB against the Environmental Clearance</p> <p>Date of Start of Project The Project has been started from 12th May 2015. The Unit has informed to Regional Office of MoEF as well as Ministry vide letter dated 6th June 2018. The copy of letter is attached as Annexure 36.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Half Yearly EC Compliance Report for Environmental Clearance # J.11011/1281/2007-IA.II dated 15.04.2008
by UPL Limited, Unit # 02, Ankleshwar, Gujarat
Period from April 2020 to September 2020**

| Sr. No. | Condition | Compliance Status | | | | | | | | | | | | | | | | | | |
|---------|---|--|--------|------------|-------------------|---|--|----------|---|--|----------|---|---------------------------------------|----------|---|---|----------|---|--------------|----------|
| 7 | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory | Noted. | | | | | | | | | | | | | | | | | | |
| 8 | The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions | Noted. | | | | | | | | | | | | | | | | | | |
| 9 | Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997 | <p>The unit had one matter at Hon'ble supreme court with respect to post facto environmental clearance obtained by unit in year 2003. The Hon'ble Supreme Court stayed NGT order.</p> <p>In the judgement dated 1st April 2020, the Hon'ble Supreme Court directed the unit to deposit compensation quantified at ₹10 crores with GPCB within a period of four months from the date of receipt of the certified copy of this judgment and it shall be duly utilized for restoration and remedial measures to improve the quality of the environment in the industrial area in which the unit operates. The Hon'ble supreme court impugned judgment of the NGT dated 8 January 2016 in so far as it directed the revocation of the ECs and closure of the industries as well as the order in review dated 17 May 2016.</p> <p>The case number at Hon'ble supreme court is "Civil Appeal No 3175 of 2016".</p> <p>The UPL Limited (Unit 2) has Submitted Rs. 10 Crores to Gujarat Pollution Control Board on 5th August 2020.</p> <p>The copy of judgement & receipt of submission of Rs. 10 Crores to GPCB is attached herewith as Annexure 45 for your ready reference.</p> | | | | | | | | | | | | | | | | | | |
| 10 | The above conditions will be en, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules | <p>The compliance to different acts is tabulated below.</p> <table border="1"> <thead> <tr> <th align="center">Sr. No</th> <th align="center">Regulation</th> <th align="center">Compliance Status</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td>Water (Prevention and Control of Pollution) Act 1974</td> <td align="center">Complied</td> </tr> <tr> <td align="center">2</td> <td>The Air (Prevention and Control of Pollution) Act 1981</td> <td align="center">Complied</td> </tr> <tr> <td align="center">3</td> <td>The Environmental Protection Act 1986</td> <td align="center">Complied</td> </tr> <tr> <td align="center">4</td> <td>Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016</td> <td align="center">Complied</td> </tr> <tr> <td align="center">5</td> <td>PLI Act 1991</td> <td align="center">Complied</td> </tr> </tbody> </table> <p>The compliance of above rules has been certified by GPCB Appointed Schedule 1 Auditor and submitted to GPCB on annual basis.</p> <p>Complied.</p> | Sr. No | Regulation | Compliance Status | 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | 3 | The Environmental Protection Act 1986 | Complied | 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | 5 | PLI Act 1991 | Complied |
| Sr. No | Regulation | Compliance Status | | | | | | | | | | | | | | | | | | |
| 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | | | | | | | | | | | | | | | | | | |
| 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | | | | | | | | | | | | | | | | | | |
| 3 | The Environmental Protection Act 1986 | Complied | | | | | | | | | | | | | | | | | | |
| 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | | | | | | | | | | | | | | | | | | |
| 5 | PLI Act 1991 | Complied | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|-----------------------------------|---------------------------|--|---------------------------|------------------------------|-----------------------|---|---|--|-----|-----|------------|-----|--|----|----|----|----|----|---|--------------|----|-----|--------------|----|---|----------|-----|-----|----------|-----|---|--------------------|-----|-----|--------------------|-----|--|---|--------------|-----|-----|--------------|-----|---|---|--|-----|-----|--|-----|---|-------------------|----------|---------------------------|-------------------|---------------------------|--------------|---|--------------|---|---|----------|-------|-----|----------|-------|---|------------------|----------|-----|------------------|----------|---|----|---------------|----|-----|-----------------------|----|----|------------|-----|-----|------------|-----|----|-----------|-----|-----|-----------|-----|----------|---------------------|------------------|------------------|---------------------|-----|--|---------|---------------------------------|--------------------------------------|-----------------------------------|-----------------|------|------|--------|-----------------|----------------------------|------|--------|-------------------|---|---------------|------|---------------|--------|-----------------|----------------------------|------|-------|-------------------|--------|--------------------|-------|------------------------|---------|-----|----|-----------------------------|----|-----|---|
| 1. | This has reference to your online proposal No. IA/GJ/IND2/91392/2002 dated 4th July, 2019 for environmental clearance to the above mentioned project | Noted. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/S UPL Ltd in an area of 65,625 sqm located at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat). | Complied. The Land area is 65625 Sq M. The Unit is located in Notified Industrial Estate, GIDC, Ankleshwar. The copy of Land Allotment documents are attached as Annexure 3 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | <p>The details of existing and proposed products are as under</p> <table border="1"> <thead> <tr> <th>Plant No</th> <th>S. N .</th> <th>Product Name</th> <th>Existing Capacity (TP/M)</th> <th>Proposed Capacity (TP/M)</th> <th>After Expansion Product Name</th> <th>Total Capacity (TP/M)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">A</td> <td>1</td> <td>D-Devrinol OR Devrinol OR Clomazone (combined capacity)</td> <td>300</td> <td>NIL</td> <td>D-Devrinol</td> <td>300</td> </tr> <tr> <td></td> <td>OR</td> <td>OR</td> <td>OR</td> <td>OR</td> <td>OR</td> </tr> <tr> <td>2</td> <td>Metobromuron</td> <td>60</td> <td>NIL</td> <td>Metobromuron</td> <td>60</td> </tr> <tr> <td>3</td> <td>Devrinol</td> <td>NIL</td> <td>400</td> <td>Devrinol</td> <td>400</td> </tr> <tr> <td>4</td> <td>Imazapic Technical</td> <td>NIL</td> <td>500</td> <td>Imazapic Technical</td> <td>500</td> </tr> <tr> <td></td> <td>5</td> <td>Ethofumesate</td> <td>NIL</td> <td>100</td> <td>Ethofumesate</td> <td>100</td> </tr> <tr> <td rowspan="3">B</td> <td>6</td> <td>Terbuphos OR Metasystox (combined capacity)</td> <td>500</td> <td>NIL</td> <td>Terbuphos OR Metasystox (combined capacity)</td> <td>500</td> </tr> <tr> <td rowspan="2">7</td> <td>Acetamiprid OR</td> <td>10 OR</td> <td rowspan="2">40 (combined capacity)</td> <td>Acetamiprid OR</td> <td rowspan="2">50 (combined capacity)</td> </tr> <tr> <td>Imidacloprid</td> <td>5</td> <td>Imidacloprid</td> </tr> <tr> <td rowspan="2">C</td> <td>8</td> <td>Acephate</td> <td>1,225</td> <td>NIL</td> <td>Acephate</td> <td>1,225</td> </tr> <tr> <td>9</td> <td>OR Metamitron</td> <td>OR 60</td> <td>NIL</td> <td>OR Metamitron</td> <td>OR 60</td> </tr> <tr> <td rowspan="4">D</td> <td>10</td> <td>Surflan OR</td> <td>40</td> <td>NIL</td> <td>Surflan Azoxytobin</td> <td>40</td> </tr> <tr> <td>11</td> <td>Azoxytobin</td> <td>NIL</td> <td>200</td> <td>Azoxytobin</td> <td>200</td> </tr> <tr> <td>12</td> <td>Clomazone</td> <td>NIL</td> <td>300</td> <td>Clomazone</td> <td>300</td> </tr> <tr> <td>13 OR</td> <td>Monocrotophos OR</td> <td>10 (combined)</td> <td>90 (combined)</td> <td>Monocrotophos OR</td> <td>100</td> </tr> </tbody> </table> | Plant No | S. N . | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) | A | 1 | D-Devrinol OR Devrinol OR Clomazone (combined capacity) | 300 | NIL | D-Devrinol | 300 | | OR | OR | OR | OR | OR | 2 | Metobromuron | 60 | NIL | Metobromuron | 60 | 3 | Devrinol | NIL | 400 | Devrinol | 400 | 4 | Imazapic Technical | NIL | 500 | Imazapic Technical | 500 | | 5 | Ethofumesate | NIL | 100 | Ethofumesate | 100 | B | 6 | Terbuphos OR Metasystox (combined capacity) | 500 | NIL | Terbuphos OR Metasystox (combined capacity) | 500 | 7 | Acetamiprid OR | 10 OR | 40 (combined capacity) | Acetamiprid OR | 50 (combined capacity) | Imidacloprid | 5 | Imidacloprid | C | 8 | Acephate | 1,225 | NIL | Acephate | 1,225 | 9 | OR Metamitron | OR 60 | NIL | OR Metamitron | OR 60 | D | 10 | Surflan OR | 40 | NIL | Surflan Azoxytobin | 40 | 11 | Azoxytobin | NIL | 200 | Azoxytobin | 200 | 12 | Clomazone | NIL | 300 | Clomazone | 300 | 13 OR | Monocrotophos OR | 10 (combined) | 90 (combined) | Monocrotophos OR | 100 | <p>The EC was granted on 10/1/2020 & the unit has obtained Consent to Establish from GPCB for EC approved products vide CTE#15472 dated 24.01.2020. The copy of Consent to Establish & Its Amendment is Enclosed as Annexure 37. We have started construction activities for implementation of project.</p> <p>Last six-month production details are given in a Table Below. All production quantity is well within permissible limit.</p> <table border="1"> <thead> <tr> <th>Product</th> <th>GPCB Permissible Limit MT/Month</th> <th>GPCB Permissible Limit MT/Six Months</th> <th>Total Production in MT/Six Months</th> </tr> </thead> <tbody> <tr> <td>Acephate</td> <td>1430</td> <td>8580</td> <td>7783.1</td> </tr> <tr> <td>Terbufos</td> <td rowspan="4">350 (Combined Capacity)</td> <td rowspan="4">2100</td> <td>351.39</td> </tr> <tr> <td>Metasystox</td> <td>0</td> </tr> <tr> <td>Ethion</td> <td>86.8</td> </tr> <tr> <td>Asulam</td> <td>1186.7</td> </tr> <tr> <td>Devrinol</td> <td rowspan="3">300 (Combined Capacity)</td> <td rowspan="3">1800</td> <td>11.53</td> </tr> <tr> <td>Chlomazone</td> <td>922.02</td> </tr> <tr> <td>Bifenthrion</td> <td>385.3</td> </tr> <tr> <td>Ethofumisate OR</td> <td>23.5 OR</td> <td>141</td> <td>85</td> </tr> <tr> <td>Pyrasosulfuron ethyl</td> <td>40</td> <td>240</td> <td>0</td> </tr> </tbody> </table> | Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | Acephate | 1430 | 8580 | 7783.1 | Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | Metasystox | 0 | Ethion | 86.8 | Asulam | 1186.7 | Devrinol | 300 (Combined Capacity) | 1800 | 11.53 | Chlomazone | 922.02 | Bifenthrion | 385.3 | Ethofumisate OR | 23.5 OR | 141 | 85 | Pyrasosulfuron ethyl | 40 | 240 | 0 |
| Plant No | S. N . | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 1 | D-Devrinol OR Devrinol OR Clomazone (combined capacity) | 300 | NIL | D-Devrinol | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | OR | OR | OR | OR | OR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | Metobromuron | 60 | NIL | Metobromuron | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | Devrinol | NIL | 400 | Devrinol | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | Imazapic Technical | NIL | 500 | Imazapic Technical | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | Ethofumesate | NIL | 100 | Ethofumesate | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 6 | Terbuphos OR Metasystox (combined capacity) | 500 | NIL | Terbuphos OR Metasystox (combined capacity) | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | Acetamiprid OR | 10 OR | 40 (combined capacity) | Acetamiprid OR | 50 (combined capacity) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Imidacloprid | 5 | | Imidacloprid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 8 | Acephate | 1,225 | NIL | Acephate | 1,225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | OR Metamitron | OR 60 | NIL | OR Metamitron | OR 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 10 | Surflan OR | 40 | NIL | Surflan Azoxytobin | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | Azoxytobin | NIL | 200 | Azoxytobin | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | Clomazone | NIL | 300 | Clomazone | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 OR | Monocrotophos OR | 10 (combined) | 90 (combined) | Monocrotophos OR | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate | 1430 | 8580 | 7783.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metasystox | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethion | | | 86.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asulam | | | 1186.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol | 300 (Combined Capacity) | 1800 | 11.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlomazone | | | 922.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bifenthrion | | | 385.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethofumisate OR | 23.5 OR | 141 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pyrasosulfuron ethyl | 40 | 240 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | | | | | Compliance Status |
|---------|---|--|---|-----------------------------------|--|-------------------|
| E | 13 | 2-4 D technical (2, 4- Dichloro Phenoxy Acetic Acid) (combined capacity) | capacity) | capacity) | 2-4 D technical (2, 4- Dichloro Phenoxy Acetic Acid) (combined capacity) | |
| | 14 | Dichlorvos (DDVP) OR | 85 OR | NIL | Mesotrion | 85 |
| | | Ethofumesate OR | 50 OR | NIL | | |
| | | Mesotrion OR Pyrazosulfuron Ethyl | 85 OR 85 | NIL NIL | OR Pyrazosulfuron Ethyl (Combined Capacity) | |
| | 15 | Metribuzin | 5 | NIL | Metribuzin | 5 |
| | 16 | Acephate | NIL | 1,775 | Acephate | 1,775 |
| | TOTAL A - Submitted in PFR & Form 1 | | 2,235 | 3,575 | | 5,810 |
| | TOTAL A1 Revised After Exclusion of Prohibited Pesticides | | 2,175 | 3,405 | -- | 5,580 |
| | Based on The Pesticide (Prohibition) Order 2018 dated 8th August 2018 by Ministry of Agriculture and Farmers Welfare the Products - Dichlorovos, Phorate & Phosphamidon are Prohibited for Manufacture, Formulate, Import with effect from the 1 st January, 2019. | | | | | |
| | B) Intermediate Chemicals - Existing and Proposed capacity | | | | | |
| A | 1 | Di Methyl Methyl Phosphonate (DMMP) | 100 | 200 | Di Methyl Methyl Phosphonate (DMMP) | 300 |
| B | 2 | Ethyl ThioPhosphoryl Chloride (DETCL) | 50 | NIL | Ethyl ThioPhosphoryl Chloride (DETCL) | 50 |
| | | OR | OR | | OR | OR |
| | Amino Aceto Nitrile Sulphate (AANS) | 160 | Amino Aceto Nitrile Sulphate (AANS) | | 160 | |
| | OR | OR | OR | | OR | |
| | Myristyl oxide (MO) amine | 160 | Myristyl oxide (MO) amine (Combined Capacity) | | 160 | |
| 3 | Para Chloro Cresol (PCOC) | 96 | NIL | Para Chloro Cresol (PCOC) | 96 | |
| 4 | Ethyl Thio Phosphoric Acid (DETA) | 1,000 | 1,000 | Ethyl Thio Phosphoric Acid (DETA) | 2,000 | |
| | OR ZnDTP (Combined Capacity) | | | OR ZnDTP (Combined Capacity) | | |
| 5 | Absolute alcohol | 420 | NIL | Absolute alcohol | 420 | |
| 6 | Noflan | 8 | NIL | Noflan | 8 | |
| C | 7 | Di Methyl Phosphorus | 110 | 890 | Di Methyl Phosphorus | 1000 |

All Quantities are well within GPCB Consented Quantities. The Production details are attached as **Annexure 2. Production Details of Other Products – Intermediate**

| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months |
|---------|---------------------------------|--------------------------------------|-----------------------------------|
| DETA | 1000 | 6000 | 383.5 |
| ZnDTP | (Combined Capacity) | (Combined Capacity) | 1410.5 |

All Quantities are well within GPCB Consented Quantities.

| Sr. No. | EC Condition | | | | | | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|-----------------------------|--------------|--|------------------------|--------------|--|---------|-------------------------|-----------------------------|---|-----|------|---|----|---|------------------------|----|---|-------------------|----|---|-----------------|----|---|------------------------|----|---|--------------------|-----|---|--------------------|---|--------------------------|-----|----|-----------------------------|----|----|---------|----|---------------------|--|-------------|
| | | Amido Thionate (DMPAT) | | | Amido Thionate (DMPAT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL B - Submitted in PFR & Form 1 | 1,894 | 2,090 | | | 3,984 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL B1 Revised After Exclusion of Prohibited Pesticides | 1,894 | 2,090 | | | 3,984 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Grand Total (A + B) As per PFR Submission | 4,129 | 5,665 | | | 9,794 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Grand Total (A1 + B1) After Exclusion of Prohibited Pesticides | 4,069 | 5,495 | | | 9,564 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | <p>Existing land area is 65,625 sqm and no additional land will be used for proposed expansion. Industry has already developed greenbelt in an area of 14226.58 sqm out of total area of the project. The industry has also requested/signed MOU with GIDC for additional land for green belt development. The estimated project cost is Rs.445.89 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.26.02 Crores and the recurring cost (O&M) will be about Rs.34 crores per annum. Total Employment will be 103 persons as direct & 150 persons indirect after expansion.</p> | | | | | | <p>Complied. The land area of the project is 65,625 sqm and does not involve forest land and displacement of people as the unit is located within Notified Industrial Estate, GIDC, Ankleshwar. The copy of land allotment letter of UPL Unit 2 is attached as Annexure 03.</p> <p>We have started implementation of EC after grant of EC (10/1/2020) & Capital Investment is ongoing for construction activities.</p> <p>The revenue expenditure for environmental protection measures is included in our budget and sufficient amount is available. All funds allocated for Environment Management System is not diverted for any other purpose.</p> <p>The detail of expenditure is as follows:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>EMS Expenses Since 2008</th> <th>Capital Cost (In INR- Lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ETP</td> <td rowspan="2">1500</td> </tr> <tr> <td>2</td> <td>RO</td> </tr> <tr> <td>3</td> <td>Hazardous storage area</td> <td>34</td> </tr> <tr> <td>4</td> <td>Drum washing area</td> <td>25</td> </tr> <tr> <td>5</td> <td>Scrubber system</td> <td>15</td> </tr> <tr> <td>6</td> <td>Green belt development</td> <td>19</td> </tr> <tr> <td>7</td> <td>Evaporation system</td> <td rowspan="2">200</td> </tr> <tr> <td>8</td> <td>Chemical oxidation</td> </tr> <tr> <td>9</td> <td>Fume incineration system</td> <td>100</td> </tr> <tr> <td>10</td> <td>Ambient Air Quality Station</td> <td>12</td> </tr> <tr> <td>11</td> <td>Sensors</td> <td>08</td> </tr> <tr> <td colspan="2">TOTAL (Lacs)</td> <td>1913</td> </tr> </tbody> </table> | Sr. No. | EMS Expenses Since 2008 | Capital Cost (In INR- Lacs) | 1 | ETP | 1500 | 2 | RO | 3 | Hazardous storage area | 34 | 4 | Drum washing area | 25 | 5 | Scrubber system | 15 | 6 | Green belt development | 19 | 7 | Evaporation system | 200 | 8 | Chemical oxidation | 9 | Fume incineration system | 100 | 10 | Ambient Air Quality Station | 12 | 11 | Sensors | 08 | TOTAL (Lacs) | | 1913 |
| Sr. No. | EMS Expenses Since 2008 | Capital Cost (In INR- Lacs) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ETP | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | RO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Hazardous storage area | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Drum washing area | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Scrubber system | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Green belt development | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Evaporation system | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Chemical oxidation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Fume incineration system | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Ambient Air Quality Station | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Sensors | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL (Lacs) | | 1913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | <p>There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Narmada river flows at 7 km in North East</p> | | | | | | <p>Noted.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|------------------------------|-------------------------------|-------------------------------------|-------------------|------------------------|---------------------|------------|--------------|------------|------------|---------------|------------|------------|--------------|------------|------------|--------------|------------|------------|--------------|------------|-------------|--------------|------------|--|--|--|-------|-----------------------------|--------------------------------|------------------------------|------------------|--------|-------|------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|
| 6. | <p>Total water requirement will be 3442 cum/day of which fresh water requirement of 2747 cum/day proposed to be met from GIDC water supply.</p> <p>Effluent of 830 cum/day will be treated through existing ETP followed by RO and MEE. The plant will be based on Zero Liquid discharge system.</p> | <p>The unit has obtained Consent to Establish from GPCB for 2747 KL/D Fresh Water. However, the project is under implementation & No major water consumption in process has been reported. The water demand for existing product manufacturing is very less. The average water consumption for reporting period is 325.28 KL/Day.</p> <p>The unit receives fresh water supply from Gujarat Industrial development Corporation (GIDC). The monthly & daily summarized details of water consumption are given in a Table Below.</p> <table border="1" data-bbox="871 645 1517 1032"> <thead> <tr> <th>Month</th> <th>Water Consumption in KL/Month</th> <th>Average Water Consumption in KL/Day</th> </tr> </thead> <tbody> <tr> <td>GPCB Limit</td> <td>31,638 KL/Month</td> <td>1,043 KL/Day</td> </tr> <tr> <td>Apr - 2020</td> <td>9,463</td> <td>315</td> </tr> <tr> <td>May - 2020</td> <td>13,860</td> <td>447</td> </tr> <tr> <td>Jun - 2020</td> <td>9,366</td> <td>312</td> </tr> <tr> <td>Jul - 2020</td> <td>8,384</td> <td>270</td> </tr> <tr> <td>Aug - 2020</td> <td>9,491</td> <td>306</td> </tr> <tr> <td>Sept - 2020</td> <td>8,963</td> <td>299</td> </tr> <tr> <td colspan="3" style="text-align: center;"><i>*All Values are well within GPCB Limits</i></td> </tr> </tbody> </table> <p>The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. The treated effluent analysis report (through internal lab) is attached as Annexure-13 for the period April 2020 to September 2020. The treated effluent from ETP is sent to RO Plant for Treatment & Recycle / Reuse since unit has implemented ZLD from May-2014.</p> <p>We are having full-fledged Effluent Treatment Plant (ETP) (capacity @ 550 KLD) having primary, secondary & tertiary treatment. We have segregated all effluent streams according to their treatment criteria and proper treatment is being given.</p> <p>The Summary of Waste Water Generation, Treatment & Disposal is tabulated below.</p> <table border="1" data-bbox="871 1585 1517 1895"> <thead> <tr> <th>Month</th> <th>RO Inlet Quantity in KL/Day</th> <th>RO Permeate Quantity in KL/Day</th> <th>RO Reject Quantity in KL/Day</th> <th>Discharge in KLD</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>106.6</td> <td>85.7</td> <td>20.9</td> <td>NIL</td> </tr> <tr> <td>May 20</td> <td>159.1</td> <td>127.5</td> <td>31.5</td> <td>NIL</td> </tr> <tr> <td>Jun 20</td> <td>174.3</td> <td>139.1</td> <td>35.3</td> <td>NIL</td> </tr> <tr> <td>Jul 20</td> <td>157.5</td> <td>124.7</td> <td>32.7</td> <td>NIL</td> </tr> <tr> <td>Aug 20</td> <td>142.5</td> <td>111.2</td> <td>31.3</td> <td>NIL</td> </tr> <tr> <td>Sep 20</td> <td>158.5</td> <td>126.7</td> <td>31.8</td> <td>NIL</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The unit is ZLD since Month May 2014 & all RO Reject is sent to evaporation system. | Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | Apr - 2020 | 9,463 | 315 | May - 2020 | 13,860 | 447 | Jun - 2020 | 9,366 | 312 | Jul - 2020 | 8,384 | 270 | Aug - 2020 | 9,491 | 306 | Sept - 2020 | 8,963 | 299 | <i>*All Values are well within GPCB Limits</i> | | | Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | Apr 20 | 106.6 | 85.7 | 20.9 | NIL | May 20 | 159.1 | 127.5 | 31.5 | NIL | Jun 20 | 174.3 | 139.1 | 35.3 | NIL | Jul 20 | 157.5 | 124.7 | 32.7 | NIL | Aug 20 | 142.5 | 111.2 | 31.3 | NIL | Sep 20 | 158.5 | 126.7 | 31.8 | NIL |
| Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr - 2020 | 9,463 | 315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May - 2020 | 13,860 | 447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun - 2020 | 9,366 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul - 2020 | 8,384 | 270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug - 2020 | 9,491 | 306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept - 2020 | 8,963 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>*All Values are well within GPCB Limits</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 106.6 | 85.7 | 20.9 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 159.1 | 127.5 | 31.5 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 174.3 | 139.1 | 35.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 157.5 | 124.7 | 32.7 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 142.5 | 111.2 | 31.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 158.5 | 126.7 | 31.8 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|-----------------------------------|---------------------------------|--------------------------------------|-----------------------------------|----------|------|------|--------|----------|----------------------------|------|--------|------------|---|--------|------|--------|--------|----------|----------------------------|------|-------|------------|--------|-------------|-------|-----------------|---------|-----|----|----------------------|----|-----|---|---------|---------------------------------|--------------------------------------|-----------------------------------|------|------|------|-------|-------|---------------------|---------------------|--------|
| | <p>Power requirement after expansion will be —16,799 kW including existing 6,895 kW proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL) State power distribution corporation limited (SPDCL). Existing unit has 3 DG sets of 1 X 1,250 kVA, 1x500 kVA and 1x2,000 kVA capacity, additionally 1x2,000 kVA DG sets are used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.</p> <p>Existing unit has 2x10 T PH and 1x5 TPH capacity natural gas/ LSHS and furnace oil fired boilers. Additionally, 2x20 T PH capacity natural gas/ LSHS and furnace oil fired boiler will be installed. Multi cyclone separator/ bag filter with a stack of height of 55 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers.</p> | <p>The unit consumes power which is met from Dakshin Gujarat Vij Company Limited (DGVCL). The unit has installed three DG Sets with 2000 KVA, 1250 KVA and 500 KVA capacity which operates only in an emergency situation.</p> <p>The unit consumes steam from Common Boiler Facility and utilizes steam. But during maintenance problem or non-availability of steam from Common Boiler the Unit has installed three Natural gas Fired Boilers with 10 TPH capacity of each. The Unit has obtained CTO from GPCB for all the three Boilers and Common Boiler Facility. The Copy of CTO is enclosed as Annexure 1C.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' and 5 (f) 'Synthetic organic Chemicals' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level by the sectoral EAC in the Ministry. | Noted. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Earlier Ministry has issued environmental clearance in favour of M/S United Phosphorus Limited vide letter dated 15th April, 2008 for expansion of Pesticides (685 TPM to 2235 TPM) and intermediate products (1386 to 1894 T PM) at Unit 2. Also, Ministry had granted ex-post facto clearance vide letter dated 17th July, 2003 for production of Phorate/Turbophos (3600 TPA and Acephate (960 TPA) | <p>The unit has taken different Product Mix Changes to EC granted products from GPCB and added formulation products in existing plant.</p> <p>The Production quantities are summarized below.</p> <table border="1" data-bbox="871 1167 1509 1693"> <thead> <tr> <th>Product</th> <th>GPCB Permissible Limit MT/Month</th> <th>GPCB Permissible Limit MT/Six Months</th> <th>Total Production in MT/Six Months</th> </tr> </thead> <tbody> <tr> <td>Acephate</td> <td>1430</td> <td>8580</td> <td>7783.1</td> </tr> <tr> <td>Terbufos</td> <td rowspan="4">350 (Combined Capacity)</td> <td rowspan="4">2100</td> <td>351.39</td> </tr> <tr> <td>Metasystox</td> <td>0</td> </tr> <tr> <td>Ethion</td> <td>86.8</td> </tr> <tr> <td>Asulam</td> <td>1186.7</td> </tr> <tr> <td>Devrinol</td> <td rowspan="3">300 (Combined Capacity)</td> <td rowspan="3">1800</td> <td>11.53</td> </tr> <tr> <td>Chlomazone</td> <td>922.02</td> </tr> <tr> <td>Bifenthrion</td> <td>385.3</td> </tr> <tr> <td>Ethofumisate OR</td> <td>23.5 OR</td> <td>141</td> <td>85</td> </tr> <tr> <td>Pyrasosulfuron ethyl</td> <td>40</td> <td>240</td> <td>0</td> </tr> </tbody> </table> <p>All Quantities are well within GPCB Consented Quantities. The Production details are attached as Annexure 2.</p> <p>Production Details of Other Products – Intermediate</p> <table border="1" data-bbox="871 1827 1509 1995"> <thead> <tr> <th>Product</th> <th>GPCB Permissible Limit MT/Month</th> <th>GPCB Permissible Limit MT/Six Months</th> <th>Total Production in MT/Six Months</th> </tr> </thead> <tbody> <tr> <td>DETA</td> <td>1000</td> <td>6000</td> <td>383.5</td> </tr> <tr> <td>ZnDTP</td> <td>(Combined Capacity)</td> <td>(Combined Capacity)</td> <td>1410.5</td> </tr> </tbody> </table> <p>All Quantities are well within GPCB Consented Quantities.</p> | Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | Acephate | 1430 | 8580 | 7783.1 | Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | Metasystox | 0 | Ethion | 86.8 | Asulam | 1186.7 | Devrinol | 300 (Combined Capacity) | 1800 | 11.53 | Chlomazone | 922.02 | Bifenthrion | 385.3 | Ethofumisate OR | 23.5 OR | 141 | 85 | Pyrasosulfuron ethyl | 40 | 240 | 0 | Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | DETA | 1000 | 6000 | 383.5 | ZnDTP | (Combined Capacity) | (Combined Capacity) | 1410.5 |
| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acephate | 1430 | 8580 | 7783.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terbufos | 350 (Combined Capacity) | 2100 | 351.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metasystox | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethion | | | 86.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Asulam | | | 1186.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Devrinol | 300 (Combined Capacity) | 1800 | 11.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chlomazone | | | 922.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bifenthrion | | | 385.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethofumisate OR | 23.5 OR | 141 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pyrasosulfuron ethyl | 40 | 240 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product | GPCB Permissible Limit MT/Month | GPCB Permissible Limit MT/Six Months | Total Production in MT/Six Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA | 1000 | 6000 | 383.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZnDTP | (Combined Capacity) | (Combined Capacity) | 1410.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status |
|---------|---|--|
| | | <p>The Production details is enclosed as Annexure-2.</p> <p>The unit has discontinued production of Phorate in compliance to Pesticide Prohibition Order dated 8/8/2018. During period of April 2020 to September 2020, the production of Terbuphos is 352.39 MT (Six Monthly Total) and Acephate is 7783.1 MT (Six Monthly Total).</p> |
| 9. | Standard TOR for the project was granted on 31 st January 2018. Public Hearing is exempted as per the para 7.111. Stage (3)(i)(b) the project site is located inside the notified industrial area | Noted. The Copy of Standard ToR Granted by MoEF&CC is attached as Annexure 38 . |
| 10. | The project proponent has informed that one court case i.e. Civil Appeal No. 1526 of 2016 with respect to post-facto EC obtained by the unit is in consideration at Hon'ble Supreme Court of India. The Hon'ble Supreme Court has stayed the NGT Order dated 8 th January 2016 with respect to closure of the industrial activities of the appellant at Ankleshwar, District Bharuch. | <p>The unit had one matter at Hon'ble supreme court with respect to post facto environmental clearance obtained by unit in year 2003. The Hon'ble Supreme Court stayed NGT order.</p> <p>In the judgement dated 1st April 2020, the Hon'ble Supreme Court directed the unit to deposit compensation quantified at ₹10 crores with GPCB within a period of four months from the date of receipt of the certified copy of this judgment and it shall be duly utilized for restoration and remedial measures to improve the quality of the environment in the industrial area in which the unit operates. The Hon'ble supreme court impugned judgment of the NGT dated 8 January 2016 in so far as it directed the revocation of the ECs and closure of the industries as well as the order in review dated 17 May 2016.</p> <p>The case number at Hon'ble supreme court is "Civil Appeal No 3175 of 2016".</p> <p>The UPL Limited (Unit 2) has Submitted Rs. 10 Crores to Gujarat Pollution Control Board on 5th August 2020.</p> <p>The copy of judgement & receipt of submission of Rs. 10 Crores to GPCB is attached herewith as Annexure 45 for your ready reference.</p> |
| 11. | The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on 28-29 August 2019. The project proponent and their consultant M/S ERM India Pvt Ltd presented the EIA/EMP report. The Committee found the EIA/EMP report to be satisfactory, complying with the T OR, and recommended the project for grant of environmental clearance. | Noted. The Copy of MoM for Recommendation of Proposal for grant of environmental clearance held on 28-29 August 2019 is Enclosed as Annexure 39 . |
| 12. | Based on the proposal submitted by the project proponent and recommendations of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/S UPL Ltd at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:- | Noted. <u>The copy of Environmental Clearance letter No J-11011/77/2002-IA-II(I) dated 10th January 2020 granted by MoEF&CC is attached as Annexure-1B.</u> |

| Sr. No. | EC Condition | Compliance Status | | | | | | |
|---------|---|---|--------|---|--|---|----|----|
| | <p>(a) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, as may be applicable.</p> | <p>The unit had one matter at Hon'ble supreme court with respect to post facto environmental clearance obtained by unit in year 2003. The Hon'ble Supreme Court stayed NGT order.</p> <p>In the judgement dated 1st April 2020, the Hon'ble Supreme Court directed the unit to deposit compensation quantified at ₹10 crores with GPCB within a period of four months from the date of receipt of the certified copy of this judgment and it shall be duly utilized for restoration and remedial measures to improve the quality of the environment in the industrial area in which the unit operates. The Hon'ble supreme court impugned judgment of the NGT dated 8 January 2016 in so far as it directed the revocation of the ECs and closure of the industries as well as the order in review dated 17 May 2016.</p> <p>The case number at Hon'ble supreme court is "Civil Appeal No 3175 of 2016".</p> <p>The UPL Limited (Unit 2) has Submitted Rs. 10 Crores to Gujarat Pollution Control Board on 5th August 2020. The copy of judgement & receipt of submission of Rs. 10 Crores to GPCB is attached herewith as Annexure 45 for your ready reference.</p> | | | | | | |
| | <p>(b) CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.</p> | <p>The unit has obtained Consent to Establish from GPCB for EC approved products vide CTE#15472 dated 24.01.2020. The copy of Consent to Establish & Its Amendment is Enclosed as Annexure 37.</p> | | | | | | |
| | <p>(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.</p> | <p>The unit has obtained Consent to Establish from GPCB for EC approved products vide CTE#15472 dated 24.01.2020. The copy of Consent to Establish & Its Amendment is Enclosed as Annexure 37.</p> <p>The Unit has existing valid Consent to Operate Authorization obtained from GPCB vide AWH-105668 dated 20.04.2020 up to 01.08.2025 (The copy of valid and provisional CC&A is attached as Annexure-1C). The authorization on Additional & Increased Hazardous Waste quantities will be obtained from GPCB on completion of construction activities.</p> <p>The detailed compliance to The Hazardous and Other waste (Management & Transboundary Movement) rules 2016 is summarized below.</p> <table border="1" data-bbox="869 1816 1519 1982"> <thead> <tr> <th data-bbox="869 1816 951 1955">Sr. No</th> <th data-bbox="951 1816 1225 1955">Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016</th> <th data-bbox="1225 1816 1519 1955">Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016 complied by Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="869 1955 951 1982">1</td> <td data-bbox="951 1955 1225 1982">24</td> <td data-bbox="1225 1955 1519 1982">24</td> </tr> </tbody> </table> | Sr. No | Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016 | Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016 complied by Unit | 1 | 24 | 24 |
| Sr. No | Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016 | Total No of Sub Rules under Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016 complied by Unit | | | | | | |
| 1 | 24 | 24 | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|--|------------------------------|-----------------------------|--------------------------------|------------------------------|------------------|--------|-------|------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|--------|-------|-------|------|-----|
| | (d) As already committed by the project proponent, Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises. | <p>The unit is maintaining Zero Liquid Discharge (ZLD) since May-2014 using Reverse Osmosis (RO) system followed by evaporation system. The treated effluent analysis report (through internal lab) is attached as Annexure-13 for the period April 2020 to September 2020. The treated effluent from ETP is sent to RO Plant for Treatment & Recycle / Reuse since unit has implemented ZLD from May-2014.</p> <p>We are having full-fledged Effluent Treatment Plant (ETP) (capacity @ 550 KLD) having primary, secondary & tertiary treatment. We have segregated all effluent streams according to their treatment criteria and proper treatment is being given.</p> <p>The Summary of Waste Water Generation, Treatment & Disposal is tabulated below.</p> <table border="1" data-bbox="871 837 1516 1151"> <thead> <tr> <th>Month</th> <th>RO Inlet Quantity in KL/Day</th> <th>RO Permeate Quantity in KL/Day</th> <th>RO Reject Quantity in KL/Day</th> <th>Discharge in KLD</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>106.6</td> <td>85.7</td> <td>20.9</td> <td>NIL</td> </tr> <tr> <td>May 20</td> <td>159.1</td> <td>127.5</td> <td>31.5</td> <td>NIL</td> </tr> <tr> <td>Jun 20</td> <td>174.3</td> <td>139.1</td> <td>35.3</td> <td>NIL</td> </tr> <tr> <td>Jul 20</td> <td>157.5</td> <td>124.7</td> <td>32.7</td> <td>NIL</td> </tr> <tr> <td>Aug 20</td> <td>142.5</td> <td>111.2</td> <td>31.3</td> <td>NIL</td> </tr> <tr> <td>Sep 20</td> <td>158.5</td> <td>126.7</td> <td>31.8</td> <td>NIL</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The unit is ZLD since Month May 2014 & all RO Reject is sent to evaporation system. <p>Complied.</p> | Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | Apr 20 | 106.6 | 85.7 | 20.9 | NIL | May 20 | 159.1 | 127.5 | 31.5 | NIL | Jun 20 | 174.3 | 139.1 | 35.3 | NIL | Jul 20 | 157.5 | 124.7 | 32.7 | NIL | Aug 20 | 142.5 | 111.2 | 31.3 | NIL | Sep 20 | 158.5 | 126.7 | 31.8 | NIL |
| Month | RO Inlet Quantity in KL/Day | RO Permeate Quantity in KL/Day | RO Reject Quantity in KL/Day | Discharge in KLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 106.6 | 85.7 | 20.9 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 159.1 | 127.5 | 31.5 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 174.3 | 139.1 | 35.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 157.5 | 124.7 | 32.7 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 142.5 | 111.2 | 31.3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 158.5 | 126.7 | 31.8 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (e) Natural gas shall be used as fuel in the boiler. Furnace oil shall not be used in the plant. | <p>The unit consumes steam from Common Boiler Facility and utilizes steam. But during maintenance or non-availability of steam from Common Boiler the Unit has installed three Natural gas Fired Boilers with 10 TPH capacity of each. The Unit has obtained CTO from GPCB for all the three Boilers and Common Boiler Facility. The Copy of CTO is enclosed as Annexure 1C.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (f) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed. | <p>The compliance to Pesticide Specific Standards is given in Annexure 31.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (g) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare or having LD50<100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides | <p>The unit does not manufacture any pesticide technical banned by the Ministry of Agriculture and Farmers Welfare. The copy of commitment letter submitted to Ministry on Non-Production of Banned Pesticides is enclosed as Annexure 40.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (h) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. | <p>We are monitoring fugitive emissions at workplace environment, product and raw material storage by using portable monitors for Total Mercaptan (TM), H₂S, NH₃ and VOC by Internal QA laboratory team. Detailed report for fugitive emissions monitoring done by internal laboratory is enclosed as Annexure-11.</p> <p>The summarized results of internal laboratory for period of April 20 to September 2020 are as follows;</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | |
|---------|--|---|------------------|---|-----|--|
| | | Sr. No | Major Parameters | Monitoring result / range (ppb) April 20 To September 20 | | |
| Min | Max | | | | | |
| | | 1 | Ethyl Acetate | 27 | 82 | |
| | | 2 | Toluene | BDL | BDL | |
| | | 3 | MDC | BDL | 52 | |
| | | 4 | Methanol | 21 | 40 | |
| | | 5 | Di Ethyl Amine | BDL | BDL | |
| | | <p><i>*There is no limit for Fugitive Emission hence we are comparing monitored values with TLV / TWA. For Tertiary Butyl Mercaptan, TLV- TWA is 0.5 ppm; for H2S, TLV is 10 ppm and for NH3, TLV is 25 ppm.</i></p> | | | | |
| | <p>(i) Solvent management shall be carried out as follows:</p> <p>(i) Reactor shall be connected to chilled brine condenser system.</p> <p>(ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>(iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.</p> <p>(iv) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>(v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>(vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>(vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p> | <p>(i) Suitable chilling system is provided to secondary condenser for Volatile Organic carbon (VOC) emission control. Solvent recovery is above 96% from spent solvent and will be improved further.</p> <p>(ii) All the chemical handling pumps are provided with suitable mechanical seals & are also safe guarded with pressure switches & micro MPD for dry run protection.</p> <p>(iii) The condensers provided for solvent recovery are having 20% excess HTA to achieve more than 96% recovery.</p> <p>(iv) The solvents are stored in separate Underground (UG)/Above Ground storage tanks & required Chief Controller of Explosives (CCOE) license has been taken. All the required safety aspects are being incorporated.</p> <p>(v) Proper earthing with jumpers, cathodic protection to the UG solvent tanks are provided. Total plant has flame proof electrical installations.</p> <p>(vi) Suitable breather valves are also provided at the vents of the solvent tanks.</p> <p>(vii) Solvent traps/ Condensers are provided. Suitable chilling system is provided in secondary condenser for VOC emission control. As on solvent recovery is above 95%.</p> <p>Complied.</p> | | | | |
| | <p>(j) Total fresh water requirement shall not exceed 2747 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority</p> | <p>The unit has obtained Consent to Establish from GPCB for 2747 KL/D Fresh Water. However, the project is under implementation & No major water consumption in process has been reported. The water demand for existing product manufacturing is very less. The average water consumption for reporting period is 325.28 KL/Day.</p> <p>The unit receives fresh water supply from Gujarat Industrial development Corporation (GIDC).</p> <p>The monthly & daily summarized details of water consumption are given in a Table Below.</p> | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|-------------------------------|---|--|---------------|-------|---------------|----------|--|--|--|---------------|-----------------------|-------------------|---|--|------------------------|--|----------------|--------------|---------------------------------------|--|--|--------|------|-----|-----|--------|-----|-------|--------|------|-----|-----|--------|------|-------|--------|------|------|------|--------|------|-------|--------|------|------|----|--------|-----|-------|--------|------|------|-----|--------|------|-------|--------|------|------|---|--------|------|-------|--------------|--|-------------|-------------|-------------|--------------|--|
| | | Month | Water Consumption in KL/Month | Average Water Consumption in KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | GPCB Limit | 31,638 KL/Month | 1,043 KL/Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Apr - 2020 | 9,463 | 315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | May - 2020 | 13,860 | 447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Jun - 2020 | 9,366 | 312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Jul - 2020 | 8,384 | 270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Aug - 2020 | 9,491 | 306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Sept - 2020 | 8,963 | 299 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <i>*All Values are well within GPCB Limits</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (k) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system. | The unit has separate drainage network for storm water to collect runoff rainwater and discharge through separate conveyance system to prevent mixing of any effluent / wastewater. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (l) In case, domestic waste water generation is more than 10 cum/day, the industry may install Sewage Treatment Plant. | The Unit is ZLD hence domestic waste water generated in the unit is being treated in existing ETP with capacity of 550 KLD & Recycled /Reused in Process & Utility. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (m) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps. | The hazardous chemical handled in unit are being stored in tanks, tank farms. The unit has/will install flame arresters on all the tanks in the tank farm, and solvent transfer is done through pumps. Complied. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (n) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. | The organic and aqueous incinerable waste are sent for incineration to Bharuch Enviro Infrastructure Limited (BEIL), Ankleshwar and for co-incineration to cement kiln. The generated solid waste such as ETP sludge and evaporation salt are sent to Bharuch Enviro Infrastructure Limited (BEIL), Ankleshwar. BEIL membership is enclosed as Annexure-4 . The Summary of Hazardous Waste Quantity sent to BEIL/Co processing to Cement Plant is given below. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th rowspan="2">MONTH</th> <th rowspan="2">Opening STOCK</th> <th colspan="4">DISPOSAL</th> <th rowspan="2">Closing Stock</th> </tr> <tr> <th>ORGANIC PROCESS WASTE</th> <th>AQ PROCE SS WASTE</th> <th>SENT TO BEIL, ANKLESHWAR FOR INCINERATION</th> <th>Sent to Cement Kiln for Co-process / Co-incineration</th> </tr> </thead> <tbody> <tr> <td colspan="2">GPCB Limit in MT/Annum</td> <td>9285.3 MT/Year</td> <td>3403 MT/Year</td> <td colspan="2">Total –12688.3 MT/Annum (9285.3+3403)</td> <td></td> </tr> <tr> <td>Apr 20</td> <td>8.49</td> <td>251</td> <td>145</td> <td>144.97</td> <td>251</td> <td>8.508</td> </tr> <tr> <td>May 20</td> <td>8.51</td> <td>979</td> <td>891</td> <td>265.45</td> <td>1603</td> <td>9.818</td> </tr> <tr> <td>Jun 20</td> <td>9.82</td> <td>1068</td> <td>1846</td> <td>183.01</td> <td>2732</td> <td>9.148</td> </tr> <tr> <td>Jul 20</td> <td>9.15</td> <td>1263</td> <td>45</td> <td>822.25</td> <td>487</td> <td>8.228</td> </tr> <tr> <td>Aug 20</td> <td>8.23</td> <td>4305</td> <td>349</td> <td>652.12</td> <td>4003</td> <td>6.938</td> </tr> <tr> <td>Sep 20</td> <td>6.94</td> <td>1296</td> <td>6</td> <td>214.35</td> <td>1087</td> <td>7.978</td> </tr> <tr> <td>Total</td> <td></td> <td>9162</td> <td>3282</td> <td>2282</td> <td>10162</td> <td></td> </tr> </tbody> </table> | | | | | MONTH | Opening STOCK | DISPOSAL | | | | Closing Stock | ORGANIC PROCESS WASTE | AQ PROCE SS WASTE | SENT TO BEIL, ANKLESHWAR FOR INCINERATION | Sent to Cement Kiln for Co-process / Co-incineration | GPCB Limit in MT/Annum | | 9285.3 MT/Year | 3403 MT/Year | Total –12688.3 MT/Annum (9285.3+3403) | | | Apr 20 | 8.49 | 251 | 145 | 144.97 | 251 | 8.508 | May 20 | 8.51 | 979 | 891 | 265.45 | 1603 | 9.818 | Jun 20 | 9.82 | 1068 | 1846 | 183.01 | 2732 | 9.148 | Jul 20 | 9.15 | 1263 | 45 | 822.25 | 487 | 8.228 | Aug 20 | 8.23 | 4305 | 349 | 652.12 | 4003 | 6.938 | Sep 20 | 6.94 | 1296 | 6 | 214.35 | 1087 | 7.978 | Total | | 9162 | 3282 | 2282 | 10162 | |
| MONTH | Opening STOCK | DISPOSAL | | | | Closing Stock | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ORGANIC PROCESS WASTE | AQ PROCE SS WASTE | SENT TO BEIL, ANKLESHWAR FOR INCINERATION | Sent to Cement Kiln for Co-process / Co-incineration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit in MT/Annum | | 9285.3 MT/Year | 3403 MT/Year | Total –12688.3 MT/Annum (9285.3+3403) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 8.49 | 251 | 145 | 144.97 | 251 | 8.508 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 8.51 | 979 | 891 | 265.45 | 1603 | 9.818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 9.82 | 1068 | 1846 | 183.01 | 2732 | 9.148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 9.15 | 1263 | 45 | 822.25 | 487 | 8.228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 8.23 | 4305 | 349 | 652.12 | 4003 | 6.938 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 6.94 | 1296 | 6 | 214.35 | 1087 | 7.978 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 9162 | 3282 | 2282 | 10162 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | *All Quantities are well within GPCB CC & A Limit. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SOLID WASTE DETAILS –Landfilling Disposal to BEIL – Ankleshwar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | GENERATION | | | DISPOSAL TO BEIL | CL. STOCK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTH | OP STOCK | ETP sludge | EVAPORATION SALT | TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---------------------|--|---|--------|----|----|--|--------|------|----|--------|--------|--------|------|--------|------|----|--------|--------|--------|------|--------|------|----|--------|--------|--------|------|--------|------|----|--------|--------|--------|------|--------|------|----|--------|--------|--------|-------|--------|-------|----|--------|--------|------|--------|-------|--|-----|------|--|--|--|------------------------|--|-----|------|--|--|--|---|--|--|--|--|--|-------|--|---------------|------------------|---------------------|--|--------|--------|------|------|------|--------|--------|--------|------|------|------|--------|--------|--------|------|------|------|--------|--------|--------|------|------|------|--------|--------|--------|------|------|------|--------|--------|------|------|------|------|------|-------|--|---------|-------|-------|------|-----------------------|--|------|-----|----|-----------------|
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">ALL QTY IN MT/MONTH</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>7.24</td> <td>29</td> <td>243.00</td> <td>279.24</td> <td>270.56</td> <td>8.68</td> </tr> <tr> <td>May 20</td> <td>8.68</td> <td>27</td> <td>377.00</td> <td>412.68</td> <td>404.73</td> <td>7.95</td> </tr> <tr> <td>Jun 20</td> <td>7.95</td> <td>30</td> <td>353.00</td> <td>390.95</td> <td>381.27</td> <td>9.68</td> </tr> <tr> <td>Jul 20</td> <td>9.68</td> <td>31</td> <td>483.00</td> <td>523.68</td> <td>514.02</td> <td>9.66</td> </tr> <tr> <td>Aug 20</td> <td>9.66</td> <td>29</td> <td>492.00</td> <td>530.66</td> <td>499.73</td> <td>30.93</td> </tr> <tr> <td>Sep 20</td> <td>30.93</td> <td>27</td> <td>498.00</td> <td>555.93</td> <td>0.00</td> <td>555.93</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>173</td> <td>2446</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">GPCB Limit in MT/Annum</td> <td>336</td> <td>3240</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>*All Quantities are well within GPCB CC & A Limit.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Total Solid Waste Quantity To BEIL, ANKLESHWAR For Landfilling (MT/MONTH)</th> </tr> <tr> <th>Month</th> <th>Solids (ETP Sludge + Evaporation Salt)</th> <th>Plastic Waste</th> <th>Insulation Waste</th> <th>Construction Debris</th> <th>Monthly Total Solid Waste Quantity to BEIL</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>270.56</td> <td>2.42</td> <td>3.56</td> <td>0.00</td> <td>276.54</td> </tr> <tr> <td>May 20</td> <td>404.73</td> <td>3.11</td> <td>2.63</td> <td>0.00</td> <td>410.47</td> </tr> <tr> <td>Jun 20</td> <td>381.27</td> <td>5.00</td> <td>3.46</td> <td>0.00</td> <td>389.73</td> </tr> <tr> <td>Jul 20</td> <td>514.02</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>514.02</td> </tr> <tr> <td>Aug 20</td> <td>499.73</td> <td>0.00</td> <td>4.38</td> <td>0.00</td> <td>504.11</td> </tr> <tr> <td>Sep 20</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>2070.31</td> <td>10.53</td> <td>14.03</td> <td>0.00</td> </tr> <tr> <td colspan="2" style="text-align: right;">GPCB Limit in MT/Year</td> <td>3576</td> <td>120</td> <td>48</td> <td>Non - Hazardous</td> </tr> </tbody> </table> <p>*All Quantities are well within GPCB CC & A Limit.</p> <p>Complied.</p> | ALL QTY IN MT/MONTH | | | | | | | Apr 20 | 7.24 | 29 | 243.00 | 279.24 | 270.56 | 8.68 | May 20 | 8.68 | 27 | 377.00 | 412.68 | 404.73 | 7.95 | Jun 20 | 7.95 | 30 | 353.00 | 390.95 | 381.27 | 9.68 | Jul 20 | 9.68 | 31 | 483.00 | 523.68 | 514.02 | 9.66 | Aug 20 | 9.66 | 29 | 492.00 | 530.66 | 499.73 | 30.93 | Sep 20 | 30.93 | 27 | 498.00 | 555.93 | 0.00 | 555.93 | Total | | 173 | 2446 | | | | GPCB Limit in MT/Annum | | 336 | 3240 | | | | Total Solid Waste Quantity To BEIL, ANKLESHWAR For Landfilling (MT/MONTH) | | | | | | Month | Solids (ETP Sludge + Evaporation Salt) | Plastic Waste | Insulation Waste | Construction Debris | Monthly Total Solid Waste Quantity to BEIL | Apr 20 | 270.56 | 2.42 | 3.56 | 0.00 | 276.54 | May 20 | 404.73 | 3.11 | 2.63 | 0.00 | 410.47 | Jun 20 | 381.27 | 5.00 | 3.46 | 0.00 | 389.73 | Jul 20 | 514.02 | 0.00 | 0.00 | 0.00 | 514.02 | Aug 20 | 499.73 | 0.00 | 4.38 | 0.00 | 504.11 | Sep 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Total | | 2070.31 | 10.53 | 14.03 | 0.00 | GPCB Limit in MT/Year | | 3576 | 120 | 48 | Non - Hazardous |
| ALL QTY IN MT/MONTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 7.24 | 29 | 243.00 | 279.24 | 270.56 | 8.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 8.68 | 27 | 377.00 | 412.68 | 404.73 | 7.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 7.95 | 30 | 353.00 | 390.95 | 381.27 | 9.68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 9.68 | 31 | 483.00 | 523.68 | 514.02 | 9.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 9.66 | 29 | 492.00 | 530.66 | 499.73 | 30.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 30.93 | 27 | 498.00 | 555.93 | 0.00 | 555.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 173 | 2446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit in MT/Annum | | 336 | 3240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Solid Waste Quantity To BEIL, ANKLESHWAR For Landfilling (MT/MONTH) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Solids (ETP Sludge + Evaporation Salt) | Plastic Waste | Insulation Waste | Construction Debris | Monthly Total Solid Waste Quantity to BEIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 270.56 | 2.42 | 3.56 | 0.00 | 276.54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 404.73 | 3.11 | 2.63 | 0.00 | 410.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 381.27 | 5.00 | 3.46 | 0.00 | 389.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 514.02 | 0.00 | 0.00 | 0.00 | 514.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 499.73 | 0.00 | 4.38 | 0.00 | 504.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | 2070.31 | 10.53 | 14.03 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit in MT/Year | | 3576 | 120 | 48 | Non - Hazardous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(o) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.</p> | <p>The unit is complying with the MSIHC Rules, 2000 by implementation of MSIHC Rules 2000 with development of onsite emergency plan, Mock drills, safety audit and dyke-wall provision to applicable Hazardous chemicals. The detailed compliance to MSIHC Rules 2000 is summarized below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sr. No</th> <th>Total No of Sub Rules under MSIHC Rules 2000</th> <th>Total No of Sub Rules under MSIHC Rules 2000 complied by Unit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> <td>20</td> </tr> </tbody> </table> <p>Complied.</p> | Sr. No | Total No of Sub Rules under MSIHC Rules 2000 | Total No of Sub Rules under MSIHC Rules 2000 complied by Unit | 1 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Total No of Sub Rules under MSIHC Rules 2000 | Total No of Sub Rules under MSIHC Rules 2000 complied by Unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(p) The company shall undertake waste minimization measures as below:</p> <p>(i) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>(iii) Use of automated filling to minimize spillage.</p> | <p>(i) All the ingredients at various stages are /will be controlled & yield / efficiencies are measured at the source and disposal point.</p> <p>(ii) Wherever possible, the by-products are/will be recycled back i.e.</p> <ul style="list-style-type: none"> - From Ammonium Acetate, the unit recovers valuable products like Ammonium Sulphate and dilute Acetic Acid / Sodium Acetate - From scrubbing H₂S, the by-product NaSH is recovered and sold to actual end-users <p>(iii) We have implemented automation in material transferring wherever possible to minimize leakage/spillage and also implemented LDAR system</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---|--|--|--|---------|-----------------------|---|---------|---|------------------------|--|--|-------------------------|---|---|----|---|----|----------------------------|--|-------------------------|----|--------------------------------|-----|-------------------------------|-----|--------------------------|--|-------------------------|---|---|-----------------------|--|--|-------------------------------------|---|----------------------------|----|---------------------------|----|------------------------------|----|
| | <p>(iv) Use of Close Feed system into batch reactors.</p> <p>(v) Venting equipment through vapour recovery system.</p> <p>(vi) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.</p> | <p>(iv) We are using closed loop feed system to transfer the material by pipelines / tote bins</p> <p>(v) All venting of equipment is connected to condensers/ process Scrubbers to scrub excess vapor. Total 7 Vents are connected to common condensers connected to fume Incinerator</p> <p>(vi) We are/will be using high-pressure hoses for cleaning the equipment and reduce wastewater generation</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(q) The green belt of at least 5-10 m width shall be developed in more than 40% (in place of EAC recommended 33%) of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p> | <p>The unit has total 65,625 sq.m. of land area. <u>Till date unit has developed 13,911.58 M² of factory area as greenbelt</u> and additional greenbelt area of 315 sq.m is proposed. In addition, the unit has signed agreement for development of 45 acres (182,108.54 m²) of land for greenbelt development from ~3 km distance at survey no 611/613/614/615 & 616 located at village – Mandva.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(r) In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.</p> | <p>The unit has signed agreement for development of 45 acres (182,108.54 m²) of land for greenbelt development from ~3 km distance at survey no 611/613/614/615 & 616 located at village – Mandva.</p> <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(s) At least 1.5% (2 times the amount recommended by the EAC) of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.</p> | <p>We have started implementation of project and funds have been allocated for CER. However the CER Activities undertaken are given below.</p> <table border="1" data-bbox="869 1200 1516 2011"> <thead> <tr> <th colspan="4" data-bbox="869 1200 1516 1245">Major Activities List of UPL CER of Ankleshwar Cluster (April to Sept 2020)</th> </tr> <tr> <th data-bbox="869 1245 930 1323">Sr. No.</th> <th data-bbox="930 1245 1070 1323">Key Focus Area of UPL</th> <th data-bbox="1070 1245 1385 1323">Activities/Status (April 2020 to Sept 2020)</th> <th data-bbox="1385 1245 1516 1323">Numbers</th> </tr> </thead> <tbody> <tr> <td data-bbox="869 1323 930 1816" rowspan="10">1</td> <td data-bbox="930 1323 1070 1816" rowspan="10">Sustainable livelihood</td> <td colspan="2" data-bbox="1070 1323 1385 1361">1) Agriculture & Animal Husbandry</td> </tr> <tr> <td data-bbox="1070 1361 1385 1391">No. of Villages covered</td> <td data-bbox="1385 1361 1516 1391">9</td> </tr> <tr> <td data-bbox="1070 1391 1385 1435">No. of on-farm/off-Farm Agriculture Training / Participated</td> <td data-bbox="1385 1391 1516 1435">42</td> </tr> <tr> <td data-bbox="1070 1435 1385 1480">Demonstration on Cash crop of caster and Vegetabl</td> <td data-bbox="1385 1435 1516 1480">11</td> </tr> <tr> <td colspan="2" data-bbox="1070 1480 1385 1509">2) Animal Husbandry</td> </tr> <tr> <td data-bbox="1070 1509 1385 1538">No. of Villages covered</td> <td data-bbox="1385 1509 1516 1538">12</td> </tr> <tr> <td data-bbox="1070 1538 1385 1583">No. of Artificial Insemination</td> <td data-bbox="1385 1538 1516 1583">251</td> </tr> <tr> <td data-bbox="1070 1583 1385 1628">No. of caving (New born calf)</td> <td data-bbox="1385 1583 1516 1628">124</td> </tr> <tr> <td colspan="2" data-bbox="1070 1628 1385 1657">3) UPL Udhyaimita</td> </tr> <tr> <td data-bbox="1070 1657 1385 1686">No. of Villages covered</td> <td data-bbox="1385 1657 1516 1686">7</td> </tr> <tr> <td data-bbox="869 1816 930 2011" rowspan="5">2</td> <td data-bbox="930 1816 1070 2011" rowspan="5">National Institutions</td> <td colspan="2" data-bbox="1070 1816 1385 1845">1) UPL Niyojaniy Kendra - Skill dev. Center</td> </tr> <tr> <td data-bbox="1070 1845 1385 1890">No. of Courch- AOCP, Fitter, Boiler</td> <td data-bbox="1385 1845 1516 1890">3</td> </tr> <tr> <td data-bbox="1070 1890 1385 1935">No. of on going Candidates</td> <td data-bbox="1385 1890 1516 1935">78</td> </tr> <tr> <td data-bbox="1070 1935 1385 1980">No. of trained candidated</td> <td data-bbox="1385 1935 1516 1980">58</td> </tr> <tr> <td data-bbox="1070 1980 1385 2011">No. of Placements Candidated</td> <td data-bbox="1385 1980 1516 2011">18</td> </tr> </tbody> </table> | Major Activities List of UPL CER of Ankleshwar Cluster (April to Sept 2020) | | | | Sr. No. | Key Focus Area of UPL | Activities/Status (April 2020 to Sept 2020) | Numbers | 1 | Sustainable livelihood | 1) Agriculture & Animal Husbandry | | No. of Villages covered | 9 | No. of on-farm/off-Farm Agriculture Training / Participated | 42 | Demonstration on Cash crop of caster and Vegetabl | 11 | 2) Animal Husbandry | | No. of Villages covered | 12 | No. of Artificial Insemination | 251 | No. of caving (New born calf) | 124 | 3) UPL Udhyaimita | | No. of Villages covered | 7 | 2 | National Institutions | 1) UPL Niyojaniy Kendra - Skill dev. Center | | No. of Courch- AOCP, Fitter, Boiler | 3 | No. of on going Candidates | 78 | No. of trained candidated | 58 | No. of Placements Candidated | 18 |
| Major Activities List of UPL CER of Ankleshwar Cluster (April to Sept 2020) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No. | Key Focus Area of UPL | Activities/Status (April 2020 to Sept 2020) | Numbers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Sustainable livelihood | 1) Agriculture & Animal Husbandry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Villages covered | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of on-farm/off-Farm Agriculture Training / Participated | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Demonstration on Cash crop of caster and Vegetabl | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2) Animal Husbandry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Villages covered | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Artificial Insemination | 251 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of caving (New born calf) | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3) UPL Udhyaimita | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Villages covered | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | National Institutions | 1) UPL Niyojaniy Kendra - Skill dev. Center | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Courch- AOCP, Fitter, Boiler | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of on going Candidates | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of trained candidated | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | No. of Placements Candidated | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|--|-------------------------------------|--|---------------------|---|-------------------------|--------|------------------|------|------------------------------|--|---------------------|----|--|-------|--|--|----------------|--|--|----------|---------------------------------|-------------|--|------|-----------------------|------|
| | | 3 | <table border="1"> <tr> <td colspan="2" data-bbox="927 315 1070 360">1)Social Forestry Plantation</td> </tr> <tr> <td data-bbox="1070 360 1382 405">1) Covered Villages</td> <td data-bbox="1382 360 1522 405">1</td> </tr> <tr> <td data-bbox="1070 405 1382 450">2) Covered area in Acre</td> <td data-bbox="1382 405 1522 450">12 Ac.</td> </tr> <tr> <td data-bbox="1070 450 1382 495">3) No. of plants</td> <td data-bbox="1382 450 1522 495">6360</td> </tr> <tr> <td colspan="2" data-bbox="1070 495 1382 528">2) plant distribution</td> </tr> <tr> <td data-bbox="1070 528 1382 562">1) Covered Villages</td> <td data-bbox="1382 528 1522 562">19</td> </tr> <tr> <td data-bbox="1070 562 1382 607">2) No. of Distributed Plants to villages</td> <td data-bbox="1382 562 1522 607">10500</td> </tr> <tr> <td colspan="2" data-bbox="1070 607 1382 640">3) Softwere Activities with School Students</td> </tr> <tr> <td colspan="2" data-bbox="1070 640 1382 674">Covid Activity</td> </tr> <tr> <td data-bbox="1070 674 1382 719">Provide sanitizer to Govt. dept and public</td> <td data-bbox="1382 674 1522 719">1500 lit</td> </tr> <tr> <td data-bbox="1070 719 1382 763">Spreading of Sodiym Hypochoride</td> <td data-bbox="1382 719 1522 763">11 villages</td> </tr> <tr> <td data-bbox="1070 763 1382 808">Distributed ration kit to need family in 12 villages</td> <td data-bbox="1382 763 1522 808">1282</td> </tr> <tr> <td data-bbox="1070 808 1382 853">Distributed face mast</td> <td data-bbox="1382 808 1522 853">1200</td> </tr> </table> | 1)Social Forestry Plantation | | 1) Covered Villages | 1 | 2) Covered area in Acre | 12 Ac. | 3) No. of plants | 6360 | 2) plant distribution | | 1) Covered Villages | 19 | 2) No. of Distributed Plants to villages | 10500 | 3) Softwere Activities with School Students | | Covid Activity | | Provide sanitizer to Govt. dept and public | 1500 lit | Spreading of Sodiym Hypochoride | 11 villages | Distributed ration kit to need family in 12 villages | 1282 | Distributed face mast | 1200 |
| 1)Social Forestry Plantation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Covered Villages | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) Covered area in Acre | 12 Ac. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) No. of plants | 6360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) plant distribution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1) Covered Villages | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) No. of Distributed Plants to villages | 10500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) Softwere Activities with School Students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Covid Activity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Provide sanitizer to Govt. dept and public | 1500 lit | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spreading of Sodiym Hypochoride | 11 villages | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Distributed ration kit to need family in 12 villages | 1282 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Distributed face mast | 1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (t) Safety and visual reality training shall be provided to employees. | 4 | <p>We provide regular training & refresher training to all employees for the safety & health aspects of various chemicals handled.The Unit has obtained OHSAS-18001 (Now Renamed as ISO 45001) Management System from third party. The copy of ISO – 45001 certification received is enclosed as Annexure-34).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (u) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution. | | <p>The unit has installed three DG Sets with 2000 KVA, 1250 KVA and 500 KVA capacity which operates only in an emergency situation. The stack height is maintained as per CPCB Guidelines.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. | | <p>Adequate fire extinguishers & fire hydrant system is installed & maintained as per the norms in manufacturing and non-manufacturing areas. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | (w) Occupational health surveillance and urological assessment of the workers shall be done on a regular basis and records maintained as per the Factories Act | | <p>The company is having medical doctor and Occupational Health Centre and an ambulance. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical check-up by external expert agency every year for Physical examination, Haemoglobin, Complete Blood Count, ESR, Complete Urine Examination, Lever Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc. Regular Blood Cholinesterase Activity (BCA) test for employees is also being carried out for Employees including contract employees. Sample copy is enclosed for your ready reference as Annexure-28. <u>No Occupational Health Disease is Reported.</u></p> <p>We have strengthened our occupational health care centre by deployment of full-time resident doctor in clinic with latest instruments, First Aid Kits, Ambulance, Emergency Kits and Antidots.</p> <p>All medical records are being maintained. The unit also conducts pre-employment medical check-up. Sample copy is enclosed for your ready reference as Annexure-28.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status |
|---------|---|---|
| | <p>(x) Being a Pesticide manufacturing unit, no ground water shall be recharge. Harvested Rain water shall be collected in RCC tanks and shall be used for process requirements</p> <p>(y) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises</p> <p>(z) Mitigating measures suggested during process safety and risk assessment studies shall be carried out.</p> | <p>Complied.</p> <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection comes to 1168 KL in a year. The collected rain water is used as cooling tower make up water. Also, part of the rain water collected is taken to storage tanks. The storage tank capacity is 650 KL. We are not recharging harvested rain water in to the ground due to local SPCB restriction.</p> <p>Complied.</p> <p>The Unit has also installed online CCTV Camera and magnetic flow meter at ETP outlet line and online CCTV footage is being transmitted to CPCB server. The screen shot of Online transmission of data to CPCB is enclosed as Annexure 41.</p> <p>Complied.</p> <p>We Will Implement all Mitigating Measures suggested during Process Safety and Risk Assessment Study.</p> <p>Complied.</p> |
| 13. | The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9 th August, 2018. The said OM is available at the Ministry's website. | <p>Complied.</p> <p>The unit is complying with Ministry's OM No. 22-34/2018-IA.III dated 9th August 2018 regarding standardization of environmental clearance conditions related to 'Pesticides industry and Pesticide specific intermediates', as applicable to the proposed project.</p> |
| 14. | <p>The grant of Environmental Clearance is further subject to compliance of other generic conditions as under: -</p> <p>(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.</p> <p>(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p> <p>(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.</p> <p>(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.</p> | <p>Noted for compliance.</p> <p>Noted for compliance.</p> <p>Complied.</p> <p>The ambient air monitoring is being conducted for PM2.5, RSPM (PM10), SO₂, NO_x, HCl, Cl₂, NH₃, HF, H₂S and Hydrocarbon through our lab and through third party (ENPRO Envirotech and Engineers Pvt Ltd) and all parameters are within permissible limit prescribed by GPCB (detailed report is attached as Annexure-9).</p> <p>We are/will comply to National Ambient Air Quality Emission Standards for Manufacturing Industry issued by the Ministry.</p> <p>Complied.</p> |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|-----------------------------------|--------------|---------------------------------|-----------------------------|---|--|-----------------------------|-----------------|---|----------------------------|--------------------|----------------------|--------------------------------|------------|--------|--------|--------|--------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|--------|------|------|------|------|
| | <p>(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.</p> <p>The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p> | <p>The employees working near high noise area like compressor, boiler area, are provided Ear muffs & ear plugs. Acoustic enclosures / silencers are also provided. Also, development of green belt towards periphery of plant premises has been added advantage for reduction of ambient noise.</p> <p>Noise monitoring is being done twice in a month through our internal laboratory. The detailed report is attached as Annexure-27. Summarized noise monitoring report (period: April 2020 to September 2020) is as follows:</p> <table border="1" data-bbox="869 645 1519 1010"> <thead> <tr> <th colspan="5">Summarized Noise Monitoring Report (Internal Monitoring)</th> </tr> <tr> <th rowspan="2">Month</th> <th colspan="2">Minimum</th> <th colspan="2">Maximum</th> </tr> <tr> <th>Day Time</th> <th>Night Time</th> <th>Day Time</th> <th>Night Time</th> </tr> <tr> <th>GPCB Limit</th> <th>75 dBA</th> <th>70 dBA</th> <th>75 dBA</th> <th>70 dBA</th> </tr> </thead> <tbody> <tr> <td>Apr 20</td> <td>35.4</td> <td>66.8</td> <td>33.1</td> <td>64.6</td> </tr> <tr> <td>May 20</td> <td>35.2</td> <td>69.9</td> <td>31.1</td> <td>68.9</td> </tr> <tr> <td>Jun 20</td> <td>38.8</td> <td>69.3</td> <td>40.2</td> <td>67.6</td> </tr> <tr> <td>Jul 20</td> <td>50.9</td> <td>69.9</td> <td>43.8</td> <td>68.9</td> </tr> <tr> <td>Aug 20</td> <td>52.2</td> <td>69.9</td> <td>45.6</td> <td>69.4</td> </tr> <tr> <td>Sep 20</td> <td>55.2</td> <td>69.9</td> <td>40.2</td> <td>69.4</td> </tr> </tbody> </table> <p>All parameters are well within permissible limit prescribed by SPCB. Complied.</p> | Summarized Noise Monitoring Report (Internal Monitoring) | | | | | Month | Minimum | | Maximum | | Day Time | Night Time | Day Time | Night Time | GPCB Limit | 75 dBA | 70 dBA | 75 dBA | 70 dBA | Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 | May 20 | 35.2 | 69.9 | 31.1 | 68.9 | Jun 20 | 38.8 | 69.3 | 40.2 | 67.6 | Jul 20 | 50.9 | 69.9 | 43.8 | 68.9 | Aug 20 | 52.2 | 69.9 | 45.6 | 69.4 | Sep 20 | 55.2 | 69.9 | 40.2 | 69.4 |
| Summarized Noise Monitoring Report (Internal Monitoring) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Month | Minimum | | Maximum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Day Time | Night Time | Day Time | Night Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GPCB Limit | 75 dBA | 70 dBA | 75 dBA | 70 dBA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr 20 | 35.4 | 66.8 | 33.1 | 64.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May 20 | 35.2 | 69.9 | 31.1 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jun 20 | 38.8 | 69.3 | 40.2 | 67.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jul 20 | 50.9 | 69.9 | 43.8 | 68.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aug 20 | 52.2 | 69.9 | 45.6 | 69.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 20 | 55.2 | 69.9 | 40.2 | 69.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.</p> | <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection comes to 1168 KL in a year. The collected rain water is used as cooling tower make up water. Also, part of the rain water collected is taken to storage tanks. The storage tank capacity is 650 KL. We are not recharging harvested rain water in to the ground due to local SPCB restriction. Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.</p> | <p>We provide regular training & re-training to all employees for the safety & health aspects of various chemicals handled. The training details are summarized below.</p> <table border="1" data-bbox="869 1491 1503 2016"> <thead> <tr> <th>Training Topic</th> </tr> </thead> <tbody> <tr> <td>Safety Level 0 & Level 1 Training</td> </tr> <tr> <td>ERT Training</td> </tr> <tr> <td>Guideline for Point Supervision</td> </tr> <tr> <td>Flammable Material Handling</td> </tr> <tr> <td>Leakage -Spillage identity & control attend</td> </tr> <tr> <td>Combustible & Flammable liquid, Hazchem code</td> </tr> <tr> <td>Behavior Based Safety (BBS)</td> </tr> <tr> <td>Chemical Safety</td> </tr> <tr> <td>Emergency Preparedness & Response (EPR)</td> </tr> <tr> <td>EHS Bridging the skill Gap</td> </tr> <tr> <td>Hazard Recognition</td> </tr> <tr> <td>Electrostatic Hazard</td> </tr> <tr> <td>Incident Investigation- Basics</td> </tr> </tbody> </table> | Training Topic | Safety Level 0 & Level 1 Training | ERT Training | Guideline for Point Supervision | Flammable Material Handling | Leakage -Spillage identity & control attend | Combustible & Flammable liquid, Hazchem code | Behavior Based Safety (BBS) | Chemical Safety | Emergency Preparedness & Response (EPR) | EHS Bridging the skill Gap | Hazard Recognition | Electrostatic Hazard | Incident Investigation- Basics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Training Topic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Safety Level 0 & Level 1 Training | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ERT Training | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guideline for Point Supervision | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flammable Material Handling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage -Spillage identity & control attend | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Combustible & Flammable liquid, Hazchem code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Behavior Based Safety (BBS) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical Safety | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emergency Preparedness & Response (EPR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EHS Bridging the skill Gap | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hazard Recognition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electrostatic Hazard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Incident Investigation- Basics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|------|-------------|---------------|-----------------------|--|--|-------------------|------------------------------|---|--------------------|-----------------------|--|------------------|------------------|-------------------------------------|------------------|----------------|------------------|--------------------|----------------------------|---------------------------|
| | | Pre-employment and routine medical examinations are being carried out. We are also doing full body medical check-up by external expert agency every year. All medical records are being maintained. The unit also conducts pre-employment medical check-up. Sample copy is enclosed for your ready reference as Annexure-28 . | | | | | | | | | | | | | | | | | | | | | |
| | (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented. | Complied. The company has started implementation of granted environmental clearance with commitment for implementation of all recommendations given under EIA/EMP. (Public hearing is not applicable as the project is situated in Notified Industrial Estate GIDC). | | | | | | | | | | | | | | | | | | | | | |
| | (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also, eco-developmental measures shall be undertaken for overall improvement of the environment. | The unit has started all measures to improve socio-economic conditions of the surrounding area by involving local villagers, administration and other stake holders. The details of our CSR Activities are covered under Annual report of CSR. The copy of Annual CSR Report is available on company's Website. We have diverted our CSR activities to fight against COVID 19 by contribution to PM Cares Fund, Food Packet distribution, Sanitizer and Mask distribution, Automized Sanitization of nearby villages and distribution of Sodium Hypochlorite to local vicinity. | | | | | | | | | | | | | | | | | | | | | |
| | (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | The details of Environment Management Cell are given below. <table border="1" data-bbox="874 1238 1509 1921"> <thead> <tr> <th data-bbox="874 1238 1027 1272">Name</th> <th data-bbox="1027 1238 1235 1272">Designation</th> <th data-bbox="1235 1238 1509 1272">Qualification</th> </tr> </thead> <tbody> <tr> <td data-bbox="874 1272 1027 1368">Dr. Mritunjay Chaubey</td> <td data-bbox="1027 1272 1235 1368">Global VP – Environment & Sustainability</td> <td data-bbox="1235 1272 1509 1368">B.Tech, M.Tech. and Ph.D. in Environmental Engineering</td> </tr> <tr> <td data-bbox="874 1368 1027 1592">Mr. Ajay Pancholi</td> <td data-bbox="1027 1368 1235 1592">Senior Manager – Environment</td> <td data-bbox="1235 1368 1509 1592">B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management</td> </tr> <tr> <td data-bbox="874 1592 1027 1688">Mr. Sanjay Bachhav</td> <td data-bbox="1027 1592 1235 1688">Manager – Environment</td> <td data-bbox="1235 1592 1509 1688">MSc In Chemistry & Diploma in Industrial Environment</td> </tr> <tr> <td data-bbox="874 1688 1027 1785">Mr. Purvesh Soni</td> <td data-bbox="1027 1688 1235 1785">Environment Lead</td> <td data-bbox="1235 1688 1509 1785">BE Civil, M.E – Environmental Engg.</td> </tr> <tr> <td data-bbox="874 1785 1027 1854">Ms. Jayesh Patil</td> <td data-bbox="1027 1785 1235 1854">Senior Manager</td> <td data-bbox="1235 1785 1509 1854">MSc in Chemistry</td> </tr> <tr> <td data-bbox="874 1854 1027 1921">Ms. Rinsu Varghese</td> <td data-bbox="1027 1854 1235 1921">Sr.Executive – Environment</td> <td data-bbox="1235 1854 1509 1921">B.E. Environmental & PDIS</td> </tr> </tbody> </table> <ul data-bbox="874 1928 1509 2018" style="list-style-type: none"> • Internal Environment management cell comprising of Unit Head, plant Head, SHE Head & Corporate Environment head is in operation for close monitoring. | Name | Designation | Qualification | Dr. Mritunjay Chaubey | Global VP – Environment & Sustainability | B.Tech, M.Tech. and Ph.D. in Environmental Engineering | Mr. Ajay Pancholi | Senior Manager – Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | Mr. Sanjay Bachhav | Manager – Environment | MSc In Chemistry & Diploma in Industrial Environment | Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | Ms. Jayesh Patil | Senior Manager | MSc in Chemistry | Ms. Rinsu Varghese | Sr.Executive – Environment | B.E. Environmental & PDIS |
| Name | Designation | Qualification | | | | | | | | | | | | | | | | | | | | | |
| Dr. Mritunjay Chaubey | Global VP – Environment & Sustainability | B.Tech, M.Tech. and Ph.D. in Environmental Engineering | | | | | | | | | | | | | | | | | | | | | |
| Mr. Ajay Pancholi | Senior Manager – Environment | B.Sc. Chemistry, M.Sc. Environment Science, MBA – Safety & Environment, Diploma in Industrial Safety, Diploma in Industrial Environment Technology & Management | | | | | | | | | | | | | | | | | | | | | |
| Mr. Sanjay Bachhav | Manager – Environment | MSc In Chemistry & Diploma in Industrial Environment | | | | | | | | | | | | | | | | | | | | | |
| Mr. Purvesh Soni | Environment Lead | BE Civil, M.E – Environmental Engg. | | | | | | | | | | | | | | | | | | | | | |
| Ms. Jayesh Patil | Senior Manager | MSc in Chemistry | | | | | | | | | | | | | | | | | | | | | |
| Ms. Rinsu Varghese | Sr.Executive – Environment | B.E. Environmental & PDIS | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|--|--------|--------|-----------------------------|---|------------------|------------------------------|---|------------------|------------------------------|---|------------------|------------------------------|---|------------------|-----------------------------|---|------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|---|-------------------|-----------------------------|----|-------------------|-----------------------------|----|-------------------|-----------------------------|
| | | <ul style="list-style-type: none"> The environment cell verifies environmental performance and involves in environmental audit. Stack Monitoring, Ambient Air Monitoring, Solid Waste Analysis is being done by third party (ENPRO Envirotech and Engineers Pvt Ltd) while Bio Assay Test, Toxicity Factor test, Fugitive Emission, VOC Monitoring, Noise Level Monitoring are carried out by our internal laboratory. The analysis of effluent is done in our full-fledged internal laboratory. The structure showing environment management cell is attached as Annexure 29. <p>Complied.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p> | <p>We have started implementation of EC after grant of EC (10/1/2020) & Capital Investment is ongoing for construction activities.</p> <p>The revenue expenditure for environmental protection measures is included in our budget and sufficient amount is available. All funds allocated for Environment Management System is not diverted for any other purpose.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.</p> | <p>We have submitted copy of Environmental Clearance letter to concerned local authorities. The Acknowledged Copy of Submission of EC to local bodies is enclosed as Annexure 42.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.</p> | <p>We are submitting the half yearly compliance report in February and August every year to the Ministry/SPCB/CPCB.</p> <p>The summary of last Ten submissions is given below.</p> <table border="1" data-bbox="874 1308 1517 1765"> <thead> <tr> <th colspan="3">EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 / 10.01.2020 & # J.11011/1281/2007-IA (II) dated 15.04.2008</th> </tr> <tr> <th>Sr. No</th> <th>Period</th> <th>UPL Unit 2 Submission Dates</th> </tr> </thead> <tbody> <tr><td>1</td><td>Oct 19 to Mar 20</td><td>UPL U2 Letter dated 26/05/20</td></tr> <tr><td>2</td><td>Apr 19 to Sep 19</td><td>UPL U2 Letter dated 20/11/19</td></tr> <tr><td>3</td><td>Oct 18 to Mar 19</td><td>UPL U2 Letter dated 07/06/19</td></tr> <tr><td>4</td><td>Apr 18 to Sep 18</td><td>UPL U2 Letter dated 24/1/19</td></tr> <tr><td>5</td><td>Jan 18 to Jun 18</td><td>UPL U2 Letter dated 19/9/18</td></tr> <tr><td>6</td><td>July 17 To Dec 17</td><td>UPL U2 Letter dated 30/1/18</td></tr> <tr><td>7</td><td>Jan 17 To June 17</td><td>UPL U2 Letter dated 31/7/17</td></tr> <tr><td>8</td><td>July 16 To Dec 16</td><td>UPL U2 Letter dated 23/1/17</td></tr> <tr><td>9</td><td>Jan 16 To June 16</td><td>UPL U2 Letter dated 11/8/16</td></tr> <tr><td>10</td><td>July 15 To Dec 15</td><td>UPL U2 Letter dated 11/2/16</td></tr> <tr><td>11</td><td>Jan 15 To June 15</td><td>UPL U2 Letter dated 28/7/15</td></tr> </tbody> </table> <p>Complied.</p> | EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 / 10.01.2020 & # J.11011/1281/2007-IA (II) dated 15.04.2008 | | | Sr. No | Period | UPL Unit 2 Submission Dates | 1 | Oct 19 to Mar 20 | UPL U2 Letter dated 26/05/20 | 2 | Apr 19 to Sep 19 | UPL U2 Letter dated 20/11/19 | 3 | Oct 18 to Mar 19 | UPL U2 Letter dated 07/06/19 | 4 | Apr 18 to Sep 18 | UPL U2 Letter dated 24/1/19 | 5 | Jan 18 to Jun 18 | UPL U2 Letter dated 19/9/18 | 6 | July 17 To Dec 17 | UPL U2 Letter dated 30/1/18 | 7 | Jan 17 To June 17 | UPL U2 Letter dated 31/7/17 | 8 | July 16 To Dec 16 | UPL U2 Letter dated 23/1/17 | 9 | Jan 16 To June 16 | UPL U2 Letter dated 11/8/16 | 10 | July 15 To Dec 15 | UPL U2 Letter dated 11/2/16 | 11 | Jan 15 To June 15 | UPL U2 Letter dated 28/7/15 |
| EC Compliance Submission to MoEF&CC Bhopal Office Details for EC # J.11011/77/2002-IA.II dated 17.07.2003 / 10.01.2020 & # J.11011/1281/2007-IA (II) dated 15.04.2008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sr. No | Period | UPL Unit 2 Submission Dates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Oct 19 to Mar 20 | UPL U2 Letter dated 26/05/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | Jan 18 to Jun 18 | UPL U2 Letter dated 19/9/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | July 17 To Dec 17 | UPL U2 Letter dated 30/1/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | Jan 16 To June 16 | UPL U2 Letter dated 11/8/16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 11 | Jan 15 To June 15 | UPL U2 Letter dated 28/7/15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and</p> | <p>Complied.</p> <p>The unit submits environmental statement for each financial year in Form-V to State Pollution Control Board.</p> <p>The Copy of latest Environmental Statement Submitted to SPCB is enclosed as Annexure 43.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | EC Condition | Compliance Status | | | | | | | | | | | | | | | | | | |
|---------|--|--|--------|------------|-------------------|---|--|----------|---|--|----------|---|---------------------------------------|----------|---|---|----------|---|--------------|----------|
| | shall also be sent to the respective Regional offices of MoEF&CC by e-mail. | The copy of Environmental Statement along with Compliance to Environmental Conditions has been put on website of company. | | | | | | | | | | | | | | | | | | |
| | (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPC Committee and may also be seen at Website of the Ministry at This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry. | The unit has published advertisement on grant of EC by MoEF&CC within 7 days in English & local newspapers on 16/1/2020. 1. Gujarati (Local Language) – Divya Bhaskar 2. English – Times of India The copy of Advertisement is enclosed as Annexure 44 . | | | | | | | | | | | | | | | | | | |
| 15. | The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory. | Noted. | | | | | | | | | | | | | | | | | | |
| 16. | Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986. | Noted. | | | | | | | | | | | | | | | | | | |
| 17. | Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Noted. | | | | | | | | | | | | | | | | | | |
| 18. | The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein. | <p>The compliance to different acts is tabulated below.</p> <table border="1" data-bbox="863 1294 1509 1697"> <thead> <tr> <th data-bbox="863 1294 943 1361">Sr. No</th> <th data-bbox="943 1294 1358 1361">Regulation</th> <th data-bbox="1358 1294 1509 1361">Compliance Status</th> </tr> </thead> <tbody> <tr> <td data-bbox="863 1361 943 1429">1</td> <td data-bbox="943 1361 1358 1429">Water (Prevention and Control of Pollution) Act 1974</td> <td data-bbox="1358 1361 1509 1429">Complied</td> </tr> <tr> <td data-bbox="863 1429 943 1496">2</td> <td data-bbox="943 1429 1358 1496">The Air (Prevention and Control of Pollution) Act 1981</td> <td data-bbox="1358 1429 1509 1496">Complied</td> </tr> <tr> <td data-bbox="863 1496 943 1563">3</td> <td data-bbox="943 1496 1358 1563">The Environmental Protection Act 1986</td> <td data-bbox="1358 1496 1509 1563">Complied</td> </tr> <tr> <td data-bbox="863 1563 943 1664">4</td> <td data-bbox="943 1563 1358 1664">Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016</td> <td data-bbox="1358 1563 1509 1664">Complied</td> </tr> <tr> <td data-bbox="863 1664 943 1697">5</td> <td data-bbox="943 1664 1358 1697">PLI Act 1991</td> <td data-bbox="1358 1664 1509 1697">Complied</td> </tr> </tbody> </table> | Sr. No | Regulation | Compliance Status | 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | 3 | The Environmental Protection Act 1986 | Complied | 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | 5 | PLI Act 1991 | Complied |
| Sr. No | Regulation | Compliance Status | | | | | | | | | | | | | | | | | | |
| 1 | Water (Prevention and Control of Pollution) Act 1974 | Complied | | | | | | | | | | | | | | | | | | |
| 2 | The Air (Prevention and Control of Pollution) Act 1981 | Complied | | | | | | | | | | | | | | | | | | |
| 3 | The Environmental Protection Act 1986 | Complied | | | | | | | | | | | | | | | | | | |
| 4 | Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 | Complied | | | | | | | | | | | | | | | | | | |
| 5 | PLI Act 1991 | Complied | | | | | | | | | | | | | | | | | | |
| 19. | This issues with the approval of the competent authority. | Noted. | | | | | | | | | | | | | | | | | | |

| Condition | | | | | Compliance Status |
|--|----------------------------------|----------------|------------------|-------------|--|
| Description | | | | | |
| The Environmental Clearance is issued for the following By-products | | | | | <p>The Ministry of Environment, Forests and Climate Change (MoEF&CC) has granted Environmental Clearance (EC) No : J-11011/77/2002-IA-II(I) on 30/06/2020 as an amendment of EC no. - J-11011/77/2002-IA-II(I) on 10/1/2020, the by products are added to product list in granted EC as per CPCB Guideline - Framework on Identification of Materials Generated from Industrial Processes as Wastes or By-products [Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016] dated September 2019.</p> <p>All By-Products details of Apr- Sep 2020 are reference to Annexure -2.</p> |
| 1. List of By-Products | | | | | |
| Sr. No. | Names of By-Product | Existing (TPA) | Additional (TPA) | Total (TPA) | |
| 1 | 30% HCL | 68.72 | 4,079.40 | 4,148.12 | |
| 2 | Sodium Sulphite | 563 | 353.9 | 916.9 | |
| 3 | Sodium Sulphate | 60 | 125.61 | 185.61 | |
| 4 | Sodium Bromide | 114 | 24.44 | 138.44 | |
| 5 | NaSH (30%) | 331.5 | 1310 | 1,641.50 | |
| 6 | Ammonium Acetate (35%) OR | 1,907 | 3,493 | 5,400 | |
| 7 | Acetic Acid (30%) OR | 1,735 | 2,458.22 | 4,193.22 | |
| 8 | Acetic Acid (45%) OR | 1,157 | 1,935.64 | 3,092.64 | |
| 9 | Acetic Acid (99%) AND | 526 | 879.05 | 1,405.05 | |
| 10 | Ammonium Sulphate (90%) | 636 | 1,509.57 | 2,145.57 | |
| 11 | Sodium Acetate (27%) | 2,634 | 3,663.87 | 6,297.87 | |
| 12 | Spent Acid | 145.8 | 0 | 145.8 | |
| 13 | Methyl Chloride | 15.3 | 46.2225 | 61.5225 | |
| 14 | Ammonium Chloride | 50 | 314.48 | 364.48 | |
| 16 | Methyl Acetate | 36.4 | 36.4 | 72.8 | |
| 17 | Sodium Bi-Sulphate (17%) | 96 | 83.6 | 179.6 | |
| 18 | KHCO ₃ +KCL Salt | 0 | 56.75 | 56.75 | |
| 19 | Di Methoxy Methane-DMM (95%) | 115.84 | 0 | 115.84 | |
| 20 | Ethanol | 0.084 | 10.416 | 10.5 | |
| 21 | Methanol | 11.84 | 0.539 | 12.379 | |
| 22 | POCL ₃ (98%) | 20.46 | 0 | 20.46 | |
| 23 | Phenol | 18.19 | 0 | 18.19 | |
| 24 | Ammonium Chloride Solution | 50 | 17.52 | 67.52 | |
| 25 | Ammonia (20%) | 0 | 158 | 158 | |
| Based on the recommendation of the EAC, the Ministry of Environment, Forest and Climate change hereby accords approval to the proposed amendments in the environmental clearance dated 10 th January 2020 as stated in para 3 above, for the project expansion of the pesticide and pesticide specific intermediate by M/S UPL Limited (Unit 2) at plot no. | | | | | <p>Noted.</p> <p>All By-Products mentioned in the EC amendment are considered as Hazardous Waste as per the existing C&A – AWH 105668 dated – 20/04/2020.</p> |

Amendment to Environmental Clearance # J-11011/77/2002-IA-II (I) dated 30.06. 2020

issued by Ministry of Environment, Forest & Climate Change, New Delhi

for Amendment in EC of pesticides and Pesticide specific intermediate by M/S UPL Limited (Unit 1)

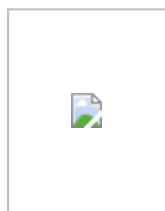
| | |
|--|---|
| – 3405/3406 & 3460A, GIDC Industrial Estate, Ankleshwar, District Bharuch, Gujarat. | We will amend our C&A and get all the By-Products received in EC amendment as By-Products from GPCB |
| All other terms and conditions stipulated in the environmental clearance dated 10 th January 2020 shall remain unchanged. | Noted The compliance of all other terms and conditions stipulated in EC date dated 10 th January 2020 is also attached. |

LIST OF ANNEXURES

| ANNEXURE NO. | ANNEXURE TITLE |
|--------------|---|
| 1A | Copy of Environmental Clearance 2008 |
| 1B | Copy of Environmental Clearance dated 10.01.2020 |
| 1C | Copy of Valid CC&A Issued by GPCB |
| 2 | Details of Production |
| 3 | Copy of Land Allotment Letter |
| 4 | Copy of BEIL Membership Certificate |
| 4A | Letter of Discontinuation of Incinerator to GPCB |
| 4B | Letter of Discontinuation of Solar Evaporation Pond to GPCB |
| 5 | Details of Hazardous Waste Disposal Quantity |
| 6 | Minutes of Meeting of Public Hearing |
| 7 | Copy of NOC issued by GPCB for Phorate/Terbuphos & Acephate |
| 8 | Analysis Report of Process and Flue Gas Stack Emission |
| 9 | Ambient Air Quality Monitoring Results |
| 10 | VOC Monitoring Report |
| 11 | Fugitive Emission Monitoring Report |
| 12 | Details of Fume Incinerator with Interlock System |
| 13 | Treated Effluent Analysis Reports |
| 14 | ETP Treatment Scheme |
| 15 | Toxicity Factor Test / Bio Assay Test Results |
| 16A | Action Plan Submitted to MoEF&CC |
| 16B | Compliance to Action Plan Submitted to MoEF&CC |
| 17 | Waste minimization action plan compliance |
| 18 | Photographs Showing Tote Bins in P ₂ S ₅ handling Area |
| 19 | Photographs Showing drum decontamination facility |
| 20 | Photograph Showing Existing Plantation in UPL Unit 2 |
| 21 | Letter of Eco-Development Cost |
| 22 | Eco-Development Cost approval by GPCB |
| 23 | Terms of Reference from MoEF&CC |
| 24 | Copy of Environmental Clearance 2003 |
| 25 | Copy of Membership of FETP (NCT), Ankleshwar |
| 26 | Map showing Factory Area of Unit-02 |
| 27 | Report of Noise Monitoring |
| 28 | Medical Checkup Report – Sample Copy |
| 29 | Details of Environment Management Cell (EMC) |
| 30 A | Newspaper Advertisement of Environmental Clearance - 2003 |
| 30 B | Newspaper Advertisement of Environmental Clearance – 2008 |
| 31 | Pesticide Sector Specific Standard Compliance |
| 32 | Photographs Showing Chilled Brine Condenser |
| 33 | Letter to MoEF&CC on negative pressure storage tanks |
| 34 | Copy of ISO – 45001 Certificate |
| 35 | Details of Air Pollution Control Devices |
| 36 | Status of Project Implementation and Communication to MoEF |
| 37 | Copy of Consent to Establish (CTE-15472) for EC Products approved from GPCB |
| 38 | Copy of Standard Terms of Reference (ToR) Granted by MoEF&CC |
| 39 | Copy of MoM for Recommendation of Proposal for grant of environmental clearance held on 28-29 August 2019 |
| 40 | Copy of commitment letter submitted to Ministry on Non-Production of Banned Pesticides |
| 41 | Screenshot of Online transmission of data to CPCB |
| 42 | Acknowledged Copy of Submission of EC to local bodies |
| 43 | Copy of Environmental Statement submitted to SPCB |
| 44 | Copy of Advertisement of Environmental Clearance |
| 45 | Copy of Honorable Supreme Court Judgement dated 1 st April 2020 & Its Compliance |

Speed post

Baart sarkar



Payaa-varNa evaM vana maM~alaya
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: hsmalviya@gmail.com
Telephone: 011: 24367076

F. No. J-11011/1281/2007-IA(II)

April 15, 2008

To
M/s United Phosphorous Ltd. Unit # 2,
 Plot No. 3405/ 3406, GIDC Industrial Estate, Ankleshwar,
 District Bharuch,
Gujarat

Expansion of Pesticides and Intermediate Products at Unit # 2, Plot No. 3405/ 3406, GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat by M/s United Phosphorous Ltd. - Environmental Clearance reg.

Sir,

This has reference to your letter no. f/u2/07 dated October 20, 2007 along with application in Form – 1 and details manufacturing process, raw materials, products, material balance, details of hazardous wastes, air and water pollution control arrangements and layout plan seeking environmental clearance for the above project under the Environment Impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal and noted that the proposal is for environmental clearance for expansion of Pesticides and Intermediate Products at Unit # 2, Plot No. 3405/ 3406, GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat by M/s United Phosphorous Ltd.

The unit was earlier accorded environment clearance from the Ministry on 17.07.2003. The land area available is 65,625 m². The cost of the project will be Rs. 42.5 Crores. The details of the existing and proposed products are as given below:-

| S. No. | Name of Products | Capacity (MTM) | |
|-------------------|---------------------------------------|----------------|-----------------|
| | | Existing | After Expansion |
| Pesticides | | | |
| 1 | Devrinol or Metabromuron | 140 or 30 | 300 or 30 |
| 2 | Terbuphos/Phorate (Combined Capacity) | 200 | 500 |
| 3 | Acephate or Metamitron | 160 or 60 | 1000 or 60 |

| | | | |
|--|---|----------------|------------------|
| 4 | Phosphamidon (PD) or Surflan | 100 or 40 | 100 or 40 |
| 5 | Dichlorovos (DDVP) | 85 | 85 |
| 6 | Monocrotophos | - | 100 |
| 7 | Acetamapride or Imidacloprid | - | 100 or 50 |
| 8 | Metribuzin | - | 50 |
| Total (Maximum) | | 685 | 2235 |
| Other Products-Intermediate Chemicals | | | |
| 9 | Di Ethyl Thio Phosphory Chloride (DETCL) | 160 | 160 |
| 10 | Para Chloro Ortho Cresol (PCOC) | 96 | 96 |
| 11 | Di Methyl Phosphorus Amido Thionate (DMPAT) | 110 | 110 |
| 12 | Di Methyl Methyl Phosphonate (DMMP) | 100 | 100 |
| 13 | Di Ethyl Thio Phosphoric Acid (DETA)/Zinc Di Thio Phosphate (ZNDTP) | 300/150 500 | 600/ 400 1000 |
| 14 | Noflan | - | 8 |
| 15 | Absolute Alcohol | 420 | 420 |
| Total (Maximum) | | 1386 | 1894 |
| Pesticide Formulation | | | |
| 16 | Paraquate Di Chloro Formulation-100 % (PQDC) | 60 | 60 |
| By- Products | | | |
| 17 | Sodium Hydrogen Sulphide (NASH) | 462 | 558.4 |
| 18 | Methyl Chloride | 36.2 | 36.2 |
| 19 | Ammonium Acetate (32%)/Ammonium Sulphate | 84/Nil | 1288/812 |
| 20 | Methanol | 11 | 11.84 |
| 21 | Hydrochloric Acid (30%) | 52 | 55.72 |
| 22 | Spent Acid | 146 | 146 |
| 23 | Sodium Sulphate | 30 | 30 |
| 24 | Sodium Bomide | 57 | 57 |
| 25 | Ammonium Chloride | 50 | 50 |
| 26 | POCl ₃ from Noflan | - | 20.49 |
| 27 | Ammonia from Noflan | - | 0.36 |

| | | | |
|------------------------|--------------------------|--------------|----------------|
| 28 | Ethanol from Acetamiprid | - | 0.84 |
| Total (Maximum) | | 928.2 | 1281.85 |

3. The water 1,043 KLD will be sourced from the GIDC water supply. The waste water 533 KLD will be treated in the existing ETP after upgradation. The existing ETP is of 300 KLD capacity and upto tertiary treatment which shall be increased to 600 KLD. High TDS water is being forced evaporated and High COD effluent is being chemically treated with H₂O₂ followed by ETP treatment. H₂S, NH₃, HCl and Cl₂ will be the main process emissions which will be scrubbed in water and/or caustic scrubbers. Stack height with all the reactors, incinerators and boilers shall be 30 m. For odour control, vapour incinerator has been installed. For H₂S, 3 stage scrubbers have been installed. The unit is carrying Bio-Assay test and toxicity factor which ranges in 2-4.

4. The project activity is listed at S.N. 5(b) under Category 'A' and the proposal was appraised at centre level in 78th meeting of the Expert Appraisal Committee (Industry) held during 20th – 22nd February, 2008.

5. Based on the information submitted by the Project Authorities, the Ministry of Environment and Forests hereby accords the environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS:

(i) The company shall comply all the stipulations given the environmental clearance issued vide F. No. J-11011/77/2002-IA(II) dated 17th July 2003.

(ii) Before starting implementation of proposed project, the project authority shall obtain in advance written permission from the management of CETP/FETP that existing CETP/FETP shall be able to take the discharge load and shall also be able to comply with the prescribed standards as desired by CPCB/GPCB with the pollution load of the unit.

(iii) The project authorities shall install own effluent treatment plant to treat the waste water to achieve the COD less than 250 mg/litre as the inlet norm of the FETP and shall obtain the membership of CETP/FETP for disposal of treated effluent and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.

(iv) The unit shall carry out the monitoring for all Pesticides which are being produced or proposed to be produced in the ground water. Results shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. Afterwards, yearly monitoring for these pesticides shall be carried out.

(v) Bioassay test and toxicity index shall be carried out regularly for the waste water before and after treatment.

(vi) The company shall install continuous monitoring equipment for H₂S and Cl₂ from the stack and data shall be submitted with reports.

(vii) The gaseous emissions (SO₂, NO_x, HCl, Cl₂, H₂S, CO, HC and VOC) along with SPM

and RSPM from various process units and work environment shall be monitored regularly and shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.

(viii) The company shall provide the monitoring arrangement with all the vents for monitoring of (SO₂, NO_x, HCl, Cl₂, H₂S, CO, HC and VOC) along with PM, SPM and RSPM and reports shall be submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal.

(ix) Chilled Brine Secondary Condensers shall be provided for control of evaporation of low boiling solvents.

(x) Standards notified for pesticides unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed by the Unit.

(xi) The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, Cl₂, SO₂, etc. high efficiency scrubbers shall be provided with each reactor.

(xii) Water /Alkali Two stage Scrubber systems, Mist Eliminator with Koch filter and wet Scrubber with Mist Eliminator shall be installed for the boilers, Thermic Fluid heater, D.G. Sets. The scrubbed water shall be sent to ETP for further treatment.

The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs. The project authority shall ensure that the solvent recovery shall not be less than 95%.

Solvent management shall be as follows :

- A. Reactor shall be connected to chilled brine condenser system
- B. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
- C. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
- D. Solvents shall be stored in a separate space specified with all safety measures.
- E. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- F. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.

Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by MPCB.

For control of fugitive emission and VOCs following steps shall be followed :

- A. Closed handling system shall be provided for chemicals
- B. Reflux condenser shall be provided over reducer
- C. Solvent handling pump shall be provided with mechanical seals to prevent leakages
- D. System of leak detection and repair of pump/pipeline based on preventive maintenance.
- E. Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.

Use of toxic solvents like Methylene Chloride (M.C.) etc. shall be minimized to the extent possible. Benzene shall not be used as solvent and no odorous compounds/gas like Mercaptans or Hydrogen Sulfide shall be used or formed in any of reactions at the site.

All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N₂ blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary.

All venting equipment shall have vapour recovery system. All the pumps and other equipment's where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Provision for immediate isolation of such equipment, in case of a leakage will also be made. The company shall provide a well defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels.

Entire quantity of the ETP sludge (27.5 MTM), Incineration Ash (18 MTM), & Salts from evaporation system (272 MTM) shall be sent to the M/s. BEIL for secured landfilling. Discarded Drums/Containers (3500 Nos. per month) shall be decontaminated and sold to approved scrap vendors and Used oil (1600 LTM) shall be sold to the approved recyclers. Filter Aid inert (3.25 MTM), Process Organic liquid/solid waste (772.525 MTM), and Aqueous liquid waste (644 MTM) shall be sent to Incinerator.

During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit.

Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

Training shall be imparted to all employees on safety and health aspects of chemicals handling. As informed to the Ministry, OHSAS 18001 shall be continued. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

Usage of PPEs by all employees/ workers shall be ensured.

The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP) for pesticide units.

The project authorities shall develop greenbelt in 12,252 m² of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.

GENERAL CONDITIONS

The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.

No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.

Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.

For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.

The company shall undertake following Waste Minimization measures :-

- § **Metering of quantities of active ingredients to minimize waste.**
- § **Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.**
- § **Maximizing recoveries**
- § **Use of automated material transfer system to minimize spillage.**
- § **Use of "Closed Feed" system into batch reactors.**

The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.

The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.

The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.

The project authorities shall provide rainwater harvesting system and ground water recharge.

The implementation of the project vis-à-vis environmental action plans shall be monitored by

Ministry's Regional Office /SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.

The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office.

The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

9. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

10. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(H.S. Malviya)

Joint Director

Copy to :-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat Gandhinagar-382010
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110032.
3. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), Ravishankar Nagar, Link Road-3 , Bhopal- 462016, M.P.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Guard file.
7. Record file

Malviya)

(H.S.

Joint Director



F. No.J-11011/77/2002-IA-II (I)
 Government of India
 Ministry of Environment, Forest & Climate Change
 Impact Assessment Division

Indira Paryavaran Bhavan,
 Vayu Wing, 3rd Floor, Aliganj,
 Jor Bagh Road, New Delhi-110 003

Dated: 10th January, 2020

To,

M/s UPL Ltd,
 Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC,
 Taluka Ankleshwar,
 District **Bharuch** (Gujarat)

Sub: Expansion of pesticide technical and pesticide specific intermediates manufacturing unit by M/s UPL Ltd at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat) - Environmental Clearance - reg.

Ref: Online proposal No. IA/GJ/IND2/91392/2002 dated 4th July, 2019.

Sir,

This has reference to your online proposal No.IA/GJ/IND2/91392/2002 dated 4th July, 2019 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/s UPL Ltd in an area of 65,625 sqm located at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat).

3. The details of existing and proposed products are as under:-

| Plant No | S.N. | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) |
|----------|------|--|--------------------------|--------------------------|------------------------------|-----------------------|
| A | 1 | D-Devrinol OR Devrinol OR Clomazone (combined capacity) | 300 | NIL | D-Devrinol | 300 |
| | | OR | OR | OR | OR | OR |
| | 2 | Metobromuron | 60 | NIL | Metobromuron | 60 |
| | 3 | Devrinol | NIL | 400 | Devrinol | 400 |
| | 4 | Imazapic Technical | NIL | 500 | Imazapic Technical | 500 |

EC to M/s UPL Ltd

| | | | | | | |
|---|----------|---|----------------------------------|------------------------------|---|---------------------------|
| | 5 | Ethofumesate | NIL | 100 | Ethofumesate | 100 |
| B | 6 | Terbuphos OR Phorate | 500 | NIL | Terbuphos OR Phorate | 500 |
| | | Metasystox (combined capacity) | | | Metasystox (combined capacity) | |
| | | Acetamiprid OR Imidacloprid | | | Acetamiprid OR Imidacloprid | |
| | 7 | Acetamiprid OR Imidacloprid | 10 OR 5 | 40 (Combined Capacity) | Acetamiprid OR Imidacloprid | 50 (Combined Capacity) |
| C | 8 | Acephate | 1,225 | NIL | Acephate | 1,225 |
| | 9 | OR Metamitron | OR 60 | NIL | OR Metamitron | OR 60 |
| D | 10 | Surflan OR | 40 | NIL | Surflan | 40 |
| | 11 | Azoxystrobin | NIL | 200 | Azoxystrobin | 200 |
| | 12 | Clomazone | NIL | 300 | Clomazone | 300 |
| | 13 OR | Monocrotophos OR | 10 (Combine d Capacity) | 90 (Combined Capacity) | Monocrotophos OR | 100 |
| | 13 | 2-4 D technical (2, 4- Dichloro Phenoxy Acetic Acid) (Combined Capacity) | | | 2-4 D technical (2, 4- Dichloro Phenoxy Acetic Acid) (Combined Capacity) | |
| | 14 | Dichlorvos (DDVP) OR Ethofumesate OR Mesotrion OR | 85 OR 50 OR 85 OR | NIL NIL NIL | Mesotrion OR Pyrazosulfuron Ethyl (Combined Capacity) | 85 |
| | | Pyrazosulfuron Ethyl | 85 | NIL | | |
| 15 | | Metribuzin | 5 | NIL |  |  | Metribuzin | 5 |
| E | 16 | Acephate | NIL | 1,775 | Acephate | 1,775 |
| TOTAL A - Submitted in PFR & Form 1 | | | 2,235 | 3,575 | | 5,810 |
| TOTAL A1 - Revised After Exclusion of Prohibited Pesticides | | | 2,175 | 3,405 | -- | 5,580 |
| Based on The Pesticide (Prohibition) Order 2018 dated 8 th August 2018 by Ministry of Agriculture and Farmers Welfare the Products - Dichlorovos, Phorate&Phosphamidon are Prohibited for Manufacture, Formulate, Import with effect from the 1 st January, 2019. | | | | | | |
| (B) Intermediate Chemicals - Existing and Proposed capacity | | | | | | |
| A | 1 | Di Methyl Methyl Phosphonate (DMMP) | 100 | 200 | Di Methyl Methyl Phosphonate (DMMP) | 300 |

| | | | | | | | | |
|---|------------------|---------------------------------------|---------------------------|--------------|------------------|---|-----------------|--------|
| B | 2 | Di ThioPhosphoryl Chloride (DETCL) OR | Ethyl (DETCL) | 50 OR | NIL | Di ThioPhosphoryl Chloride (DETCL) OR | Ethyl (DETCL) | 50 OR |
| | | Amino Nitrile (AANS) OR | Aceto Sulphate | 160 OR | | Amino Nitrile (AANS) OR | Aceto Sulphate | 160 OR |
| | | Myristyl oxide (MO) | amine (MO) | 160 | | Myristyl oxide (MO) (Combined capacity) | amine (MO) | 160 |
| | 3 | Para Cresol (PCOC) | Chloro O | 96 | NIL | Para Cresol (PCOC) | Chloro O | 96 |
| | 4 | Di Phosphoric (DETA) OR | Ethyl Thio Acid | 1,000 | 1,000 | Di Phosphoric (DETA) OR | Ethyl Thio Acid | 2,000 |
| | | ZnDTP (Combined Capacity) | ZnDTP (Combined Capacity) | | | | | |
| 5 | Absolute alcohol | | 420 | NIL | Absolute alcohol | | 420 | |
| 6 | Noflan | | 8 | NIL | Noflan | | 8 | |
| C | 7 | Di Phosphorus Thionate (DMPAT) | Methyl Amido | 110 | 890 | Di Phosphorus Thionate (DMPAT) | Methyl Amido | 1000 |
| TOTAL B - Submitted in PFR & Form 1 | | | 1,894 | 2,090 | | | 3,984 | |
| TOTAL B1 - Revised After Exclusion of Prohibited Pesticides | | | 1,894 | 2,090 | | | 3,984 | |
| Grand Total (A + B) As per PFR Submission | | | 4,129 | 5,665 | | | 9,794 | |
| Grand Total (A1 + B1) After Exclusion of Prohibited Pesticides | | | 4,069 | 5,495 | | | 9,564 | |

4. Existing land area is 65,625 sqm and no additional land will be used for proposed expansion. Industry has already developed greenbelt in an area of 14226.58 sqm out of total area of the project. The industry has also requested/signed MOU with GIDC for additional land for green belt development. The estimated project cost is Rs.445.89 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.26.02 Crores and the recurring cost (O&M) will be about Rs.34 crores per annum. Total Employment will be 103 persons as direct & 150 persons indirect after expansion.

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Narmada river flows at 7 km in North East.

6. Total water requirement will be 3442 cum/day of which fresh water requirement of 2747 cum/day proposed to be met from GIDC water supply.

Effluent of 830 cum/day will be treated through existing ETP followed by RO and MEE. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be ~16,799 kW including existing 6,895 kW proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL) State power distribution corporation limited (SPDCL). Existing unit has 3 DG sets of 1x1,250 kVA, 1x500 kVA and 1x2,000 kVA capacity, additionally 1x2,000 kVA DG sets are used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.

Existing unit has 2x10 TPH and 1x5 TPH capacity natural gas/ LSHS and furnace oil fired boilers. Additionally, 2x20 TPH capacity natural gas/ LSHS and furnace oil fired boiler will be installed. Multi cyclone separator/ bag filter with a stack of height of 55 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers.

7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' and 5 (f) 'Synthetic organic Chemicals' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level by the sectoral EAC in the Ministry.

8. Earlier Ministry has issued environmental clearance in favour of M/s United Phosphorus Limited vide letter dated 15th April, 2008 for expansion of Pesticides (685 TPM to 2235 TPM) and intermediate products (1386 to 1894 TPM) at Unit 2. Also, Ministry had granted ex-post facto clearance vide letter dated 17th July, 2003 for production of Phorate/Turbophos (3600 TPA and Acephate (960 TPA).

9. Standard ToR for the project was granted on 31st January, 2018. Public Hearing is exempted as per the para 7.III.Stage (3)(i)(b) the project site is located inside the notified industrial area.

10. The project proponent has informed that one court case i.e. Civil Appeal No. 1526 of 2016 with respect to post-facto EC obtained by the unit is in consideration at Hon'ble Supreme Court of India. The Hon'ble Supreme Court has stayed the NGT Order dated 8th January, 2016 with respect to closure of the industrial activities of the appellant at Ankleshwar, District Bharuch.

11. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on 28-29 August, 2019. The project proponent and their consultant M/s ERM India Pvt Ltd presented the EIA/EMP report. The Committee found the EIA/EMP report to be satisfactory, complying with the ToR, and recommended the project for grant of environmental clearance.

12. Based on the proposal submitted by the project proponent and recommendations of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/s UPL Ltd at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat)**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-

(a) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, as may be applicable.

(b) CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(e) Natural gas shall be used as fuel in the boiler. Furnace oil shall not be used in the plant.

(f) National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.

(g) No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD50 < 100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.

(h) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(i) Solvent management shall be carried out as follows:

(i) Reactor shall be connected to chilled brine condenser system.

(ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.

(iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.

(iv) Solvents shall be stored in a separate space specified with all safety measures.

(v) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.

(vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.

- (vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (j) Total fresh water requirement shall not exceed 2747 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (k) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (l) In case, domestic waste water generation is more than 10 cum/day, the industry may install Sewage Treatment Plant.
- (m) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
- (n) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (o) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.
- (p) The company shall undertake waste minimization measures as below:-
(i) Metering and control of quantities of active ingredients to minimize waste.
(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
(iii) Use of automated filling to minimize spillage.
(iv) Use of Close Feed system into batch reactors.
(v) Venting equipment through vapour recovery system.
(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (q) The green belt of at least 5-10 m width shall be developed in more than 40% (in place of EAC recommended 33%) of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (r) In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.
- (s) At least 1.5% (2 times the amount recommended by the EAC) of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (t) Safety and visual reality training shall be provided to employees.

- (u) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (w) Occupational health surveillance and urological assessment of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (x) Being a Pesticide manufacturing unit, no ground water shall be recharge. Harvested Rain water shall be collected in RCC tanks and shall be used for process requirements.
- (y) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (z) Mitigating measures suggested during process safety and risk assessment studies shall be carried out.

13. The project proponent shall strictly comply the sector specific conditions as mentioned in the Ministry's Office Memorandum No. 22-34/2018-IA.III, dated 9th August, 2018. The said OM is available at the Ministry's website. The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards

prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.

(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This

shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

17. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

18. This issues with the approval of the competent authority.


(Dr. R. B. Lal)

Scientist 'E' / Additional Director

(Dr. R. B. LAL)

वैज्ञानिक 'ई' / Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, **Gandhi Nagar** - 382 010 (Gujarat)
2. The Additional PCCF (Western Zone), MoEF&CC, Regional Office, E-5, Arera Colony, Link Road -3, Ravishankar Nagar, **Bhopal** - 462 016 (MP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** -32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, **Gandhi Nagar**-382 043 (Gujarat)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** – 3
6. District Collector, **Bharuch**, (Gujarat)
7. Guard File/Record File/Monitoring File/Website of MoEF&CC


(Dr. R. B. Lal)

Scientist 'E' / Additional Director



F. No. J-11011/77/2002-IA II (I)
Government of India
Ministry of Environment, Forest & Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110 003

Dated: 30th June, 2020

To

M/s UPL Limited,
Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC,
Taluka Ankleshwar,
District **Bharuch** (Gujarat)

Sub: Expansion of pesticide technical and pesticide specific intermediates manufacturing unit by M/s UPL Ltd at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat) - Amendment in Environmental Clearance - reg.

Sir,

This refers to your online proposal No.IA/GJ/IND2/150783/2020 dated 1st April, 2020 for amendment in the environmental clearance to the above project.

2. The Ministry of Environment, Forest and Climate Change has examined the above proposal for amendment in the environmental clearance granted by the Ministry vide letter dated 10th January, 2020 in favour of M/s UPL Limited, to the project expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/s UPL Ltd located at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat).

3. The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in its meeting held on 11-13 May, 2020. The Committee, after deliberations, has recommended the proposed amendments in para 3 of the said environmental clearance, in the following manner:

..... ..List of By-products: -

| S.No. | By Product Name | Existing (TPM) | Additional (TPM) | Total (TPM) |
|-------|----------------------------------|----------------|------------------|-------------|
| 1 | 30% HCL | 68.72 | 4,079.40 | 4,148.12 |
| 2 | Sodium Sulphite | 563 | 353.9 | 916.9 |
| 3 | Sodium Sulphate | 60 | 125.61 | 185.61 |
| 4 | Sodium Bromide | 114 | 24.44 | 138.44 |
| 5 | NaSH (30%) | 331.5 | 1310 | 1,641.50 |
| 6 | Ammonium Acetate (35%) OR | 1,907 | 3,493 | 5,400 |
| 7 | Acetic Acid (30%) OR | 1,735 | 2,458.22 | 4,193.22 |
| 8 | Acetic Acid (45%) OR | 1,157 | 1,935.64 | 3,092.64 |
| 9 | Acetic Acid (99%) AND | 526 | 879.05 | 1,405.05 |
| 10 | Ammonium Sulphate (90%) | 636 | 1,509.57 | 2,145.57 |

| | | | | |
|----|------------------------------|--------|----------|----------|
| 11 | Sodium Acetate (27%) | 2,634 | 3,663.87 | 6,297.87 |
| 12 | Spent Acid | 145.8 | 0 | 145.8 |
| 13 | Methyl Chloride | 15.3 | 46.2225 | 61.5225 |
| 14 | Ammonium Chloride | 50 | 314.48 | 364.48 |
| 16 | Methyl Acetate | 36.4 | 36.4 | 72.8 |
| 17 | Sodium Bi-Sulphate (17%) | 96 | 83.6 | 179.6 |
| 18 | KHCO3+KCL Salt | 0 | 56.75 | 56.75 |
| 19 | Di Methoxy Methane-DMM (95%) | 115.84 | 0 | 115.84 |
| 20 | Ethanol | 0.084 | 10.416 | 10.5 |
| 21 | Methanol | 11.84 | 0.539 | 12.379 |
| 22 | POCL3 (98%) | 20.46 | 0 | 20.46 |
| 23 | Phenol | 18.19 | 0 | 18.19 |
| 24 | Ammonium Chloride Solution | 50 | 17.52 | 67.52 |
| 25 | Ammonia (20%) | 0 | 158 | 158 |

4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 10th January, 2020 as stated in para 3 above, for the project expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/s UPL Ltd located at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat).

5. All other terms and conditions stipulated in the environmental clearance dated 10th January, 2020 shall remain unchanged.

6. This issues with approval of the competent authority.


(Dr. R. B. Lal)
Scientist 'E'/Additional Director
 (डॉ. आर. बी. लाल)
 (Dr. R. B. LAL)
 वैज्ञानिक 'ई'/Scientist 'E'
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
 Min. of Environment, Forest and Climate Change
 भारत सरकार, नई दिल्ली
 Govt. of India, New Delhi

Copy to: -

1. The Dy. Director General of Forest (Western Zone), MoEF&CC, Regional Office, E-5, Arera Colony, Link Road -3, Ravishankar Nagar, **Bhopal** - 462 016 (MP)
2. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, **Gandhi Nagar**-382 043 (Gujarat)
3. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
4. Guard File/Record File/Monitoring File/Website of MoEF&CC


(Dr. R. B. Lal)
Scientist 'E'/Additional Director



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)

CCA NO: AWH-97435

NO: GPCB/ANK/CCA-144(16)/ID-15832/_____

DT: 21/02/2019

In exercise of the power conferred under Section-25 of the Water (Prevention and Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated 17/07/2018 and inward no. 141314 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

CONSOLIDATED CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid Environmental Acts)

To,
 ✓ M/S. UPL LIMITED (UNIT-2),
 PLOT NO:3405/3406/3460-A,
 GIDC ESTATE ANKLESHWAR,
 DIST-BHARUCH.

1. Consent Order No. : AWH-97435 date of Issue 30/11/2018.
2. The consent under Water Act -1974, Air Act - 1981 and Authorization under Environment (Protection) Act, 1986 shall be valid up to 02/08/2025 to operate industrial plant to manufacture following products:

| Sr. No. | Name of Products | Quantity (MT/Month) |
|---------|---|---------------------|
| | Pesticide Technical | |
| 1 | PARA CHLORO O CRESOL (PCOC) | 96 |
| 2 | DIMETHYL PHOSPHOROUS AMIDO THIONATE (DMPAT) | 110 |
| 3 | DI METHYL METHYL PHOSPHONATE (DMMP) | 100 |
| 4 | ABSOLUTE ALCOHOL | 420 |
| 5 | MONOCROTOPHOS | 10 |
| | OR | OR |
| | 2, 4-D TECHNICAL (COMBINED CAPACITY) | 10 |
| 6 | METRIBUZIN | 5 |
| 7 | TERBUPHOS | 350 |
| | OR | OR |
| | METASYSTOX | 350 |
| | OR | OR |
| | ETHION (COMBINED CAPACITY) | 350 |

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

| | | |
|----|---|------|
| 8 | NOFLAN | 8 |
| | DEVRIKOL 50% DF | 150 |
| | OR | OR |
| 9 | CLOMAZONE FORMULATION - SOLID PESTICIDE FORMULATION (COMBINED CAPACITY) | 150 |
| 10 | DI ETHYL THIOPHOSPHORIC ACID (DETA)/ZINC DITHIO PHOSPHATE (ZnDTP) (COMBINED CAPACITY) | 1000 |
| 11 | A MESOTRIONE | 40 |
| | OR | OR |
| | B PYRAZOSULFURON ETHYL | 40 |
| | OR | OR |
| | C ETHOFUMESATE | 23.5 |
| 12 | A AZOXYSTROBIN | 50 |
| | OR | OR |
| | B SURFLAN (ORYZALIN) | 20 |
| | OR | OR |
| | C IMAZAPIC | 5 |
| 13 | A DEVRIKOL | 300 |
| | OR | OR |
| | B D-DEVRIKOL | 300 |
| | OR | OR |
| | C CLOMAZONE | 300 |
| | OR | OR |
| | D METOBROMURON | 60 |
| | OR | OR |
| | E MESOTRIONE Cu CHELATE | 300 |
| 14 | A ACEPHATE | 1430 |
| | OR | OR |
| | B METAMITRON | 70 |
| 15 | A ACETAMAPRIDE | 10 |
| | OR | OR |
| | B IMIDACLOPRIDE | 5 |
| 16 | A AMINO ACETO NITRILE SULPHATE (AANS) | 160 |
| | OR | OR |
| | B MYRISTYL AMINE OXIDE (MO) | 160 |
| | OR | OR |
| | C DI ETHYL THIOPHOSPHORY CHLORIDE (DETCL) | 50 |
| | Pesticide Formulation | |
| F1 | PARAQUATE DICHLORO FORMULATION N-100% (PQDC) - | 60 |

Outward No: 495/2019



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

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Fax : (079) 23232156

Website : www.gpcb.gov.in

| | LIQUID PESTICIDE FORMULATION | |
|----|--|-----|
| F2 | MONOCROTOPHOS (PHOSKIL) 36%, 40% AND 55% -SL) - LIQUID PESTICIDE FORMULATION | 100 |
| F3 | ACEPHATE 75% - SOLID PESTICIDE FORMULATION | 100 |
| F4 | SURFLAN (ORYZALIN) 85% DF - SOLID PESTICIDE FORMULATION | 30 |
| F5 | METAMITRON 70% WP OR WDG - SOLID PESTICIDE FORMULATION | 20 |
| F6 | METRIBUZINE 75% DF AND 70% DF - SOLID PESTICIDE FORMULATION | 50 |
| F7 | IMIDACLOPRIDE 70% WS - SOLID PESTICIDE FORMULATION | 50 |
| F8 | ACEPHATE 97% DF - SOLID PESTICIDE FORMULATION | 400 |
| F9 | IMIDACLOPRIDE 17.8% - LIQUID PESTICIDE FORMULATION | 50 |

SPECIFIC CONDITIONS:-

- a. Unit shall not manufacture banned pesticide.
- b. Unit shall maintain ZLD.
- c. Unit shall use fresh raw material only.
- d. All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- e. Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- f. Unit shall sell out hazardous waste to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste.
- g. Unit has not submitted permission under rule 9 / application copy of rule 9 and MoU done with endusers for following hazardous waste due to not manufacturing corresponding products. So, unit shall not manufacture that products which generates following hazardous waste till unit shall submit required documents (MoU & Rule 9 application copy) and obtain authorization for selling of these hazardous waste in CCA.
 - i. Methyl Chloride from Monocrotophos = 27 MTPA
 - ii. Sodium Bromide from Metobromuron & Metribuzin = 1368 MTPA
 - iii. NaSH from Terbuphos & Metasystox = 3258 MTPA
 - iv. POCl₃ from Noflan = 245.88 MTPA
 - v. Ammonia from Noflan = 4.32 MTPA
 - vi. Sodium bisulfite (27%) from Mesotrione = 540 MTPA
 - vii. Methyl acetate from Azoxystrobin = 218 MTPA
 - viii. Sodium Sulphite from D-DEVRIKOL = 6753 MTPA
 - ix. Spent Acids from Metamitron = 2040 MTPA
 - x. Ammonium chloride from Metamitron = 600 MTPA
 - xi. Spent Acids (HCl 30%) from DETCL, D-Devrinol, Mesotrionol = 492 MTPA
 - xii. DMM from AANS = 1390 MTPA

3. CONDITION UNDER THE WATER ACT:

3.1 Specific Condition :

- i. Unit shall incorporate water recycling system for recovery/recycling of effluent, hence unit shall strictly adhere to ZLD. Unit shall keep the discharge to GIDC conveyance system blocked.

- ii. Whenever there is problem for water recycling system, the unit will approach GPCB Regional Office and submit prior intimation to discharge treated effluent meeting GPCB/NCTL inlet norms until problem is sorted out.
 - iii. 40 KLD High TDS and Low COD effluents shall be segregated & sent to common Evaporation system (CMEE) of BEIL, Dahej or shall be treated in in-house evaporation system.
 - iv. High COD and Toxic effluent streams shall be segregated & sent to incineration at BEIL, Ankleshwar.
 - v. All the toxic effluent streams containing pesticides shall be segregated, neutralized, detoxified and totally incinerated in a well designed incinerator having provision of scrubbers, stack monitoring facilities, flow meters for meters for measurement of fuel consumption and quantity of toxic effluent.
 - vi. The treated effluent conforming to the inlet standard of FETP shall be discharged only after getting permission of GPCB when Ankleshwar comes out of Critically Polluted region.
 - vii. The unit shall operate as zero discharge unit; unit may be permitted to retain the permissible effluent quantity as reserve and allowed to discharge the same as per prevalent board policy.
- 3.2 The quantity of total water consumption shall not exceed 1043 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.
- a) Industrial: 1008 KL/Day
 - b) Domestic: 35 KL/Day
- 3.3 The quantity of total waste water generation shall not exceed 533 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.
- a) Industrial: 505 KL/Day
 - b) Domestic: 28 KL/Day
- 3.4 Sewage shall be disposed off through septic tank/ soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.

| Sr. No. | PARAMETERS | PERMISSIBLE LIMIT |
|---------|---|-------------------|
| 1 | Biochemical Oxygen Demand, BOD ₅ , 27° C | 20 mg/L |
| 2 | Total Suspended Solids (TSS) | 30 mg/L |
| 3 | Total Residual Chlorine | Minimum 0.5 ppm |

- 3.5 There shall be no discharge of the industrial effluent which will be generated from the manufacturing process and other ancillary industrial operations, Hence the unit shall strictly adhere to zero liquid discharge (ZLD).
- 3.6 Unit shall be required to make adequate storage facilities to store the effluent by providing acid proof brick lined impervious tanks/HDPE tanks.



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- 3.7 Unit shall make fixed arrangement in Effluent Treatment Plant. Unit shall not keep any by-pass line or system or loose or flexible pipe line in ETP.
- 3.8 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ ETP to measure the quantity of effluent.
- 3.9 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.10 The underground drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed, if unit have.
- 3.11 In no circumstances the effluent either treated or untreated shall be discharged into underground drainage pipeline of GIDC, storm water drain or anywhere else.
- 3.12 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP/STP.
- 3.13 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, the electricity consumer number as on the record of DGVCL.
- 3.14 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 3.15 Unit shall have to keep accurate records of quality & quantity of effluent on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.16 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.17 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
- 3.18 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.19 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and unit shall maintain ZLD.
- 3.20 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.

Outward No: 495

- 3.21 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 3.22 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.23 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 3.24 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

4. CONDITIONS UNDER THE AIR ACT:

4.1 Specific conditions:

- a) Unit will isolate existing boilers after getting steam from common facility. During maintenance problem or non-availability of steam from common Boiler, Unit will inform GPCB RO, Ankleshwar to restart & utilize their existing boilers.

4.2 The following shall be used as fuel:

| Sr. No. | Name of fuel | Quantity |
|---------|--------------|-------------|
| 1. | Natural Gas | 2125 M3/hr |
| 2. | HSD | 700 lit/hr |
| 3. | LSHS/FO | 1500 lit/hr |

4.3 The fue gas emission through stack shall conform to the following standards:

| Stack No. | Stack attached to | Stack Height in Meter (From G.L.) | Air Pollution Control Measure (APCM) | Parameter | Permissible limit |
|-----------|---|-----------------------------------|--------------------------------------|------------------|---|
| 1. | Boiler- 3 nos. (10 TPH each) OR shall obtain 30 TPH steam from common facility M/s. Ankleshwar Eco Energy ltd* | 30 | --- | PM SO2 NOX | 150 mg/NM ³ 100 ppm 50 ppm |
| 2. | D.G.Set-1 (2000 KVA) | 18 | | | |
| 3. | D.G.Set-2 nos. (1250 and 500 KVA) | 9 | | | |

*Unit will isolate existing boilers after getting steam from common facility. During maintenance problem or non-availability of steam from common Boiler, Unit will inform GPCB RO, Ankleshwar to restart & utilize their existing boilers.



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4.4 The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards:

| Stack No. | Name of Process / Plant | Stack attached to | Stack Height in Meter (From G.L.) | Air Pollution Control Measure (APCM) | Parameter | Permissible limit |
|-----------|---|-------------------------|-----------------------------------|--------------------------------------|---------------------------------|---|
| 1. | Acephate/metamitron | Ammoniation | 20 | Water Scrubber | HCL Chlorine Ammonia | 20 mg/NM3 5 mg/NM3 30 mg/NM3 |
| 2. | Mesotriol/Imazapic | Neutralization | 30 | Water Scrubber | HCL Chlorine | 20 mg/NM3 5 mg/NM3 |
| 3. | Detta / Zn DTP | Neutralization | 30 | Alkali Scrubber | H2S | 5 mg/NM3 |
| 4. | Solid formulation plant | Packer | 20 | Dust Collector + Bag Filter | PM | 20 mg/NM3 |
| 5. | Devrinol Plant | Chlorination | 30 | Alkali Scrubber | HCL Chlorine | 20 mg/NM3 9 mg/NM3 |
| 6. | DETA / ZnDTP/ DETCI | Neutralization | 30 | Alkali Scrubber | H2S | 5 mg/NM3 |
| 7. | Noflan Plant | Emission Vessel | 30 | --- | PM SO2 NOx Hydrocarbon | 150 mg/NM3 40 mg/NM3 25 mg/NM3 20 mg/NM3 |
| 8. | Acephate Plant (Ketene Process) | Neutralization | 30 | Water Scrubber | Ammonia Hydrocarbon | 30 mg/NM3 20 mg/NM3 |
| 9. | Metribuzin Plant | Neutralization | 30 | Alkali Scrubber | Hydrocarbon | 20 mg/NM3 |
| 10. | Noflan Plant | Neutralization | 30 | Water Scrubber | Ammonia | 175 mg/NM3 |
| 11. | DETA / ZnDTP plant | Neutralization | 30 | Alkali Scrubber | H2S | 5 mg/NM3 |
| 12. | Noflan Plant | Neutralization | 30 | Alkali Scrubber + Water Scrubber | HCL Chlorine | 20 mg/NM3 5 mg/NM3 |
| 13. | Acephate Plant ketene process | Process Emission Vessel | 30 | --- | PM SO2 NOx | 150 mg/NM3 40 mg/NM3 25 mg/NM3 |
| 14. | Fume Incinerator Attached to Terbutphos | Process Emission Vessel | 30 | Heater/Furnave-Low Sulphur Fuel | PM SO2 NOX HCL | 150 mg/NM3 40 mg/NM3 25 mg/NM3 20 mg/NM3 |

4.5 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

| Sr. No. | Parameters | Permissible Limit (microgram /m ³) | |
|---------|---|--|------------------|
| | | Annual | 24 Hours Average |
| 1. | Particulate Matter (PM ₁₀) | 60 | 100 |
| 2. | Particulate Matter (PM _{2.5}) | 40 | 60 |
| 3. | Oxides of Sulphur (SO _x) | 50 | 80 |
| 4. | Oxides of Nitrogen (NO _x) | 40 | 80 |

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
 - 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be compiled with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.6 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.7 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.8 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.9 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.10 All efforts shall be made to control VOC emissions and odor problem, if any.

5. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).

SPECIFIC CONDITIONS:-

- a. Unit shall sell out hazardous waste to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste.
- b. Unit shall dispose Ammonium Acetate Sol (35%) = 26712 MTPA generated from Acephate by sale to UPL Ltd, Unit-5, Plot-750 & 746, GIDC, Jhagadia, Dist.- Bharuch; and converting into Acetic acid, Sodium acetate and Ammonium Sulphate.
- c. UPL (Unit 5) shall obtain authorization for selling of Acetic acid, Sodium acetate directly from UPL unit 5. Also obtain authorization for disposal of generated waste (ammonium sulphate) to TSDF from UPL Unit 5 directly.
- d. Unit has not submitted permission under rule 9 / application copy of rule 9 and MoU done with endusers for following hazardous waste due to not manufacturing corresponding products. So, unit shall not manufacture that products which generates following hazardous waste till unit shall submit required documents (MoU & Rule 9 application copy) and obtain authorization for selling of these hazardous waste in CCA.
 - i. Methyl Chloride from Monocrotophos = 27 MTPA
 - ii. Sodium Bromide from Metobromuron & Metribuzin = 1368 MTPA
 - iii. NaSH from Terbuphos & Metasystox = 3258 MTPA

Outward No. 4542



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- iv. POCl₃ from Noflan = 245.88 MTPA
- v. Ammonia from Noflan = 4.32 MTPA
- vi. Sodium bisulfite (27%) from Mesotrione = 540 MTPA
- vii. Methyl acetate from Azoxystrobin = 218 MTPA
- viii. Sodium Sulphite from D-DEVRINOL = 6753 MTPA
- ix. Spent Acids from Metamitron = 2040 MTPA
- x. Ammonium chloride from Metamitron = 600 MTPA
- xi. Spent Acids (HCl 30%) from DETCL, D-Devrinol, Mesotrione = 492 MTPA
- xii. DMM from AANS = 1390 MTPA

5.1 Number of authorization: **AWH-97435** date of Issue **30/11/2018**.

5.2 **M/s. UPL LIMITED (UNIT-2)** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 3405/3406/3460-A, GIDC ESTATE ANKLESHWAR, DIST: BHARUCH.**

| Sr. No. | Name of Waste | Cat. No. | Quantity in MT/Year | Facility & Mode of Disposal |
|---------|---|----------|---------------------|--|
| 1 | Process wastes or residues (Organic waste) | 29.1 | 9285.3 | Collection, storage, transportation, disposal by sent to BEIL, Ankleshwar for Incineration |
| 2 | Process wastes or residues (Aqueous waste) | 29.1 | 3403 | Collection, storage, transportation, disposal by sent to BEIL, Ankleshwar for Incineration |
| 3 | Process wastes or residues (High TDS & Low COD effluent) | 29.1 | 14600 KL | Collection, storage, transportation, disposal by sent to CMEE of BEIL, Dahej |
| 4 | Process wastes or residues (Filter Aid inert) | 29.1 | 39 | Collection, storage, transportation, disposal by sent to BEIL, Ankleshwar for Incineration |
| 5 | Date - expired and off-specification pesticides | 29.3 | 16 | Collection, storage, transportation, disposal by sent to BEIL, Ankleshwar for Incineration |
| 6 | Empty barrels / containers / liners contaminated with hazardous chemicals / wastes | 33.1 | 528 | Collection, storage, transportation, decontamination, disposal by send it to authorized decontamination facility / recycler or reuse or send back to supplier after decontamination/ detoxification and sell out to scrap processor after AEPS approval - partially re-cycling / reuse |
| 7 | Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (non-recyclable plastic waste) | 33.1 | 120 | Collection, storage, transportation, decontamination, disposal by send it to TSDF at BEIL, Ankleshwar or send to authorized decontamination facility / recycler or reuse |
| 8 | Contaminated cotton rags or other cleaning | 33.2 | 48 | Collection, storage, transportation, disposal by sent to TSDF, BEIL, Ankleshwar for land-filling |

Outward No. 382/2019



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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION(CC & A - Amendment)

CCA AMENDMENT NO: AWH - 105668

NO: GPCB/ANK/CCA- 144(16) /ID- 15832/

DT: ___/04/2020

To,
M/s. UPL LIMITED (UNIT No. 2),
PLOT NO: 3405, 3406, 3460-A,
GIDC ESTATE ANKLESHWAR,
DIST-BHARUCH.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 165392 dated 04/10/2019.

(2) CCA No. AWH - 97435 dated : 21/02/2019.

Sir,

This has reference to the CCA order No: AWH-97435, issued vide letter no. GPCB/ ANK/ CCA-144(16)/ ID-15832/495458, dated 21/02/2019 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

The Validity of this order will be up to 01/08/2025.

1. The list of proposed products to be manufactured shall be as follows:

| Sr. No. | Products | Quantity (MT/Month) | | |
|--|---|---------------------|----------|-------|
| | | Existing | Proposed | Total |
| PESTICIDE TECHNICAL AND INTERMEDIATES | | | | |
| 1 | PARA CHLORO O CRESOL (PCOC) | 96 | Nil | 96 |
| 2 | DIMETHYL PHOSPHOROUS AMIDO THIONATE (DMPAT) | 110 | Nil | 110 |
| 3 | DI METHYL METHYL PHOSPHONATE (DMMP) | 100 | Nil | 100 |
| 4 | ABSOLUTE ALCOHOL | 420 | Nil | 420 |
| 5 | MONOCROTOPHOS | 10 | Nil | 10 |
| | OR | OR | OR | OR |
| | 2,4-D TECHNICAL (COMBINED CAPACITY) | 10 | Nil | 10 |
| 6 | METRIBUZIN | 5 | Nil | 5 |
| 7 | TERBUPHOS | 350 | Nil | 350 |
| | OR | OR | OR | OR |
| | METASYSTOX | 350 | Nil | 350 |
| | OR | OR | OR | OR |
| | ETHION | 350 | Nil | 350 |
| | OR | OR | OR | OR |
| | ASULAM TECHNICAL (COMBINED CAPACITY) | Nil | (+)350 | 350 |

Outward No: 559139, 20/04/2020

| | | | | |
|----|--|--|--|---|
| 8 | NOFLAN | 8 | Nil | 8 |
| 9 | DI ETHYL THIOPHOSPHORIC ACID (DETA) / ZINC DITHIO PHOSPHATE (ZnDTP) (COMBINED CAPACITY) | 1000 | Nil | 1000 |
| 10 | A MESOTRIONE OR B PYRAZOSULFURON ETHYL OR C ETHOFUMESATE | 40 OR 40 OR 23.5 | Nil OR Nil OR Nil | 40 OR 40 OR 23.5 |
| 11 | A AZOXYSTROBIN OR B SURFLAN (ORYZALIN) OR C IMAZAPIC | 50 OR 20 OR 5 | Nil OR Nil OR Nil | 50 OR 20 OR 5 |
| 12 | A DEVRINOL OR B D-DEVRINOL OR C CLOMAZONE OR D METOBROMURON OR E MESOTRIONE Cu CHELATE OR F BIFENTHRIN OR G METRIBUZIN | 300 OR 300 OR 300 OR 60 OR 300 OR Nil OR Nil | Nil OR Nil OR Nil OR Nil OR Nil (+)300 OR (+)16 | 300 OR 300 OR 300 OR 60 OR 300 OR 300 OR 16 |
| 13 | A ACEPHATE OR B METAMITRON | 1430 OR 70 | Nil OR Nil | 1430 OR 70 |
| 14 | A ACETAMAPRIDE OR B IMIDACLOPRIDE | 10 OR 5 | Nil OR Nil | 10 OR 5 |
| 15 | A AMINO ACETO NITRILE SULPHATE (AANS) OR B MYRISTYL AMINE OXIDE (MO) OR C DI ETHYL THIOPHOSPHORY CHLORIDE (DETCL) | 160 OR 160 OR 50 | Nil OR Nil OR Nil | 160 OR 160 OR 50 |

Outward No: 559/139-20/08/2024



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| PESTICIDE FORMULATION | | | | |
|-----------------------|---|------------------|-----------------------------|-----------------------------|
| F1 | PARAQUATE DICHLORO FORMULATION N-100% (PQDC) - LIQUID PESTICIDE FORMULATION | 60 | 1010 (Combined Capacity) | 1010 (Combined Capacity) |
| F2 | MONOCROTOPHOS (PHOSKIL) 36%, 40% AND 55% -SL) - LIQUID PESTICIDE FORMULATION | 100 | | |
| F3 | ACEPHATE 75% - SOLID PESTICIDE FORMULATION | 100 | | |
| F4 | SURFLAN (ORYZALIN) 85% DF - SOLID PESTICIDE FORMULATION | 30 | | |
| F5 | METAMITRON 70% WP OR WDG - SOLID PESTICIDE FORMULATION | 20 | | |
| F6 | METRIBUZINE 75% DF AND 70% DF - SOLID PESTICIDE FORMULATION | 50 | | |
| F7 | IMIDACLOPRIDE 70% WS - SOLID PESTICIDE FORMULATION | 50 | | |
| F8 | ACEPHATE 97% DF - SOLID PESTICIDE FORMULATION | 400 | | |
| F9 | IMIDACLOPRIDE 17.8% - LIQUID PESTICIDE FORMULATION | 50 | | |
| F10 | DEVRIKOL 50% DF OR CLOMAZONE FORMULATION - SOLID PESTICIDE FORMULATION (COMBINED CAPACITY)* | 150 OR 150 | | |
| F11 | ASULAM FORMULATION | Nil | | |
| F12 | GLYPHOSPHATE FORMULATION | Nil | | |
| F13 | BIFENTHRIN FORMULATION | Nil | | |

2. Specific conditions:

- Unit shall not use furnace oil as fuel.
- Unit shall manufacture only one product at a time in respective group as proposed by unit.
- There shall not be increase in pollution load due to proposed change in product mix.
- There shall not be any change in plant building, equipments & machineries to manufacture the proposed new products after change in product mix.
- Unit shall not carryout any activity / production without prior permission that attracts EIA Notification dated 14/09/2006 amended from time to time
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.

- h) Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- i) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.
- j) In the case of submission of the false or misleading data, this CCA amendment will be forfeited immediately.
- k) There shall be no change in water consumption, wastewater generation and their mode of disposal.
- l) There shall be no change in fuel consumption, flue gas emission and process gas emission.
- m) There shall be no change in Hazardous waste quantity / category.
- 3 All other conditions of the CCA order No: **AWH-97435**, issued vide letter no. **GPCB/ ANK/ CCA-144(16)/ ID-15832/495458**, dated **21/02/2019** will remain same.

**For and on behalf of
GUJARAT POLLUTION CONTROL BOARD**



**(P.B.Patel)
Dy. ENVIRONMENT ENGINEER**

Outward No: 559139, 20/04/2020

Annexure – 2**PRODUCTION DETAILS (QUANTITY IN MT/MONTH)**

| GPCB Permissible Limit in MT/Month | 1430 | 350 | | | | 1000 | | 300 | | | 23.5 |
|------------------------------------|----------|----------|------------|--------|--------|-------|--------|----------|------------|------------|--------------|
| Month | Acephate | Terbufos | Metasystox | Ethion | Asulam | DETA | ZnDTP | Devrinol | Chlomazone | Bifenthrin | Ethofumisate |
| Apr-20 | 801.450 | 68.1 | 0.0 | 0.0 | 205.6 | 65.00 | 304.80 | 0.0 | 99.9 | 0.0 | 0.0 |
| May-20 | 1396.950 | 119.9 | 0.0 | 0.0 | 203.3 | 84.50 | 422.50 | 0.0 | 155.1 | 0.0 | 0.0 |
| Jun-20 | 1397.750 | 35.4 | 0.0 | 26.4 | 158.2 | 52.00 | 282.20 | 0.0 | 167.2 | 103.0 | 20.0 |
| Jul-20 | 1395.450 | 0.0 | 0.0 | 26.4 | 204.8 | 32.50 | 149.60 | 0.0 | 140.8 | 159.0 | 22.0 |
| Aug-20 | 1397.250 | 40.9 | 0.0 | 34.0 | 204.1 | 78.00 | 39.20 | 11.5 | 183.0 | 0.0 | 23.0 |
| Sep-20 | 1394.250 | 87.2 | 0.0 | 0.0 | 210.8 | 71.50 | 212.25 | 0.0 | 176.0 | 123.3 | 20.0 |

FORMULATION PRODUCTS (QUANTITY IN MT/MONTH)

| GPCB Permissible Limit in MT/Month | 1010 (Combined Capacity) |
|------------------------------------|--------------------------|
| Month | Acephate 97% |
| Apr-20 | 0.000 |
| May-20 | 1003.800 |
| Jun-20 | 962.550 |
| Jul-20 | 1004.700 |
| Aug-20 | 997.500 |
| Sep-20 | 986.250 |



**GUJARAT INDUSTRIAL
DEVELOPMENT CORPORATION**
(A GOVT. OF GUJARAT UNDERTAKING)
Office of the Regional Manager (I)

Administrative Office Building, GIDC Plot No. 624/B, Valia Road, Ankleshwar. Pin code : 393 002.

Gram : GIDC Phone 21351, 21403 Fax. 21451

Our Ref. No. GIDC/RM-I/ANK/PLT/ALT/ 8138

Date: - 3 -12-97.

- Read:-(1) Allotment letter dt. 8-12-94
of plot No.3460/A.
(2) Possession receipt dt. 27-1-95.
(3) Agreement dt. 5-1-95.
(4) Lease-deed dtd. 10-10-96.
(5) Amalgamation order dt. 1-2-97.

:ORDER:


Corporation has allotted plot No.3460/A admeasuring 13225 Sq.Mtr to M/s United Phosphorus Ltd, vide allotment letter read at Sr.No. Agreement has been executed on 5-1-97 and possession of plot handed over to party on 27-1-95 for adm. 13125 Sq.mtrs.

Lease-deed has been executed on 10-10-96 for area adm.13225 Sq. mtrs, and amalgamated order dt. 1-2-97 considering the plot area 13225 Sq.mtrs, insted of plot area 13125 Sq,mtrs,

On verification of approved field book and sketch provided by Head Surveyor actual plot area of plot comes for 13125 Sq.mtrs, instead of 13225 Sq.mtrs.

Looking to be above fact it is hereby order to read plot area for 13125 Sq.mtrs, in allotment letter agreement lease-deed instead of 13225 Sq.mtrs.

Now total plot area of amalgated plot No.3405,3406 & 3460/A admeasuring 65625 Sq.mtrs. instead of 65725 Sq.mtrs.


Regional Manager.I.
G.I.D.C.Ankleshwar.

To,

M/s United Phosphorus Ltd.
Plot No.117,G.I.D.C.
Ankleshwar.



GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION

(A Govt. of Gujarat Undertaking)

Office of the Dy. Ex. Engineer, V. 20, J. V. 200 (1)

RCL/B/2/9, G.I.D.C. Old Colony, Valia Road,

ANKLESHWAR-395002 Dist. Bharuch (Gujarat) (2)

The Concerned Office, G.I.D.C. Anwar (3)

POSSESSION RECEIPT

In Pursuance Of allotment Of Plot Shed/Godown No. 3450/A
admeasuring 13102 SQ. FT. SPACE FOR MISSING FIXTURES
over to me today i e on 27-1-95 in good conditions with following fixtures.

LIST OF FIXTURES

- | | |
|----------------------|---------------|
| a) Handle of Doors | f) Aldrops. |
| b) Handle of windows | g) Utinals |
| c) Latches | h) Wash Basin |
| d) Tower/Bolt | i) Tadi |
| e) Bib cock. | |

The said premises is bounded as follows:

- On or towards North by
- On or towards South by
- On or towards west by
- On or towards East by

*Plot No. 3450/B
C/O G.I.D.C. Anwar
10.05.00*

Possession taken over by

Shri D. S. Trivedi
On behalf of UNITED PHOSPHORUS LIMITED
Signature [Signature]
Designation General Manager (Works)

Possession handed over by

Shri M. Uyas
On behalf of [Signature]
Signature [Signature]
Addl Asst. Engineer
Designation Div No. 6.I.D.C. ANKLESHWAR

Ref. No. G.I.D.C./RM/A/ALT/PL5/143

Date: 7-1-95

To. M/s. United Phosphorus Ltd

Ankleshwar

Addl. Asst. Engineer
Sub. Div. No.
G.I.D.C. Ankleshwar



VI - GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION

(A Govt. of Gujarat Undertaking)

Office of the Regional Manager,

RCL/B/4, GIDC Housing Sector No. 1, Valia Road, Ankleshwar-393 002.

BY R. P. A. D.

12/8

To, United Phosphorus Limited
Plot No. 117 & 118
GIDC, Ankleshwar.

No. GIDC/RM-A/ALT/PIS/ / / / /
Date: 31-1-1992

Your Ref. : Your application dtd 6.8.91
Our Ref. : Our letter No10143 dtd 8.8.91

Sub. : Offer of Plot/shed out of turn priority/General scheme...

Your application No. G.VI 6/3 for Plot/Shed at Ankleshwar.

Sir,

We are indeed happy to offer you a plot/shed in response to your above referred application. Important details of the Plot/Shed being offered to you is as under :-

- (a) Plot No. 3405 & 3406
 - (b) Type of Shed & No. _____
 - (c) Price of shed _____ Rs. _____
 - (d) Plot No. and area in 3405 & 3406 - 52600 Sq. mtrs.
 - (e) Price of land :-
 - 1) 115/- 12000 sq.mtr. 13,00,000/-
 - 103.50 40500 sq.mtr. 41,17,500/-
 - 52500 sq.mtr. 55,71,750/-
 - (a) Premium price at the rate of Rs. _____ for _____ Sq. mtr. Rs. _____
 - (b) Frontage charges at the rate of Rs. 10/- % for 20,000 sq. mtr. Rs. 2,00,000/-
- Total Rs. 57,71,750/-

(15% concession in land price will be given to the entrepreneurs belonging to the SC/ST/Ex Army personal, family members of those killed in action and 25% concession will be given to the land looser).

1. Procedure of obtaining allotment :- On receipt of this officer letter you will be required to send the offer amount as mentioned below. While sending the offer amount please also send the Acceptance of offer letter enclosed, herewith as well as copy of SSI No. Certificate.
2. After we receipt your acceptance letter and offer amount we will forward to you an allotment letter and agreement form, sending this only form your end. Your acceptance of your offer will be considered to have been completed.
3. After you execute the agreement and return to us for executing the Possession advice will be issued to the concerned Asstt. Engineer of the estate to hand over the property.
4. You may please note that if the offer amount is not received by us within a period of 30 days from the date of receipt of this letter, the offer will stand automatically treated as closed and the deposit paid by you amounting to Rs. 6,40,000/- shall stand forfeited in term of undertaking executed by you on 5.8.91

Amount fifty four thousand and 500/- ²⁰ % of the total price of frontage charges. The total price of plot/shed offered to you is Rs. 5771750/- with frontage charges Rs. 200000/- . Kindly remit Rs. 514350/- by demand draft in favour of GIDC to us.

6. You are requested to send us a copy of SSI-registration in duplicate if your unit is under small scale, on commencement of Commercial Products.
7. Initially for a period of two years after allotment you will be required to make payment of only interest on the balance 80 % price inclusive of frontage charges at the rate of 14 % The interest is subject to revision from time to time at the discretion of the Corporation and shall payable at such revised rates from such date as may be prescribed by the Corporation.
8. After these two years period of moratorium is over, the balance amount of 80 % inclusive of frontage charges will be payable in 32 quarterly instalments spread over 8 years with interest on reducing balance method. 1st quarterly instalment of capital and interest will be due at the end of 2 years of moratorium period.
9. The allotment will be subject to the terms and condition of allotment as may be mentioned in the allotment letter and agreement a copy of the printed book let containing our Infrastructure policies on obtaining (a) Water supply connection (b) power supply connection (c) Building Conditions (d) Regulation about effluent disposal. Important terms and conditions field period restriction of transfer, responsibilities to execute agreement and take-possession within the stipulated period is send herewith/was sent to you earlier. We also sent herewith/was sent to you earlier our building regulations.
10. You are now requested to please favour us with the draft for the above offer amount drawn in favour of Gujarat Industrial Development Corporation at the above address at your earliest but not later than 30 Days from the date of receipt of this letter.
11. You shall have to produce the NOC from GPC Board Sector No. 17 Gandhinagar before commencement of Civil work/applying for GEB for Power Supply.
12. You shall have to send the Copy of partnership deed and it's registration/memorandum of association and articles, with offer amount or within a month from the receipt of this letter.
13. You shall have Produced the no due certificate of you. Plot/shed No. 117 & 118 from on Audit officer/Dy. Ex-II/Notified Area officer.
14. In case of power supply for L.-T. purpose wherever there is Jurisdiction of GEB the allottee have to bear the full cost of Service Line from L. T. Line laid by G. I. D. C.

We remain,

Other terms & conditions
as per attached Annexure 'C'

Yours faithfully,

M. J. J.

REGIONAL MANAGER,
GIDC Ankleshwar.

Handwritten initials: MKY, A

The Concerned Officer, G.I.D.C. Ankl.

POSSESSION RECEIPT

3405 & 3406

In Pursuance Of allotment Of Plot Shed/Godown No. 52500
measuring 52500 sq. ft. in the Plot No. 3405 & 3406 of the Ankl. Estate is handed
over to me today i.e. on 17-3-20 in good conditions with following fixtures.

LIST OF FIXTURES

- | | |
|----------------------|---------------|
| a) Handle of Doors | f) Aldrops. |
| b) Handle of windows | g) Urinals |
| c) Latches | h) Wash Basin |
| d) Tower/Bolt | i) Tadi |
| e) Bib cock. | |

The said premises is bounded as follows;

On or towards North by Plot no 3407
 On or towards South by Plot no 3408 & 3418
 On or towards west by 30-11-2017
 On or towards East by Plot 3401 & 3402/1 & 3401A

Possession taken over by

Possession handed over by

Shri
 On behalf of UNITED PHOSPHATE
 Signature *[Signature]*
 Designation

Shri
 On behalf of
 Signature *[Signature]*
 Designation Asst. Engineer
Sub Div No 4,
G.I.D.C ANKLESHWAR.
 Addl. Asst. Engineer
 Sub. Div. No. 1,
 G.I.D.C. Ankleshwar

Ref. No. G.I.D.C./RM/A/ALT/PL5/-3407

Date: 17-3-20

To. M/s. UNITED PHOSPHATE
[Signature]
 No. GIDC/Ank/DEE/SD-IV 3257

Deputy Ex. Engineer-IV
 G.I.D.C. Ankleshwar
 (Signature)
 (over possession)

Office of the Dy. Ex. Engr. IV
 GIDC Ankleshwar

Date: 24-3-20 P. T. O.

OTHER CONDITIONS

- Condition No.1 : Parties water requirement is 4.20 lacs & 5.90 lacs. In the 2nd year & 3rd year for which additional work is required to be taken up by Corporation and for this purpose party has to bear cost of additional arrangement made by Corporation.
- Condition No.2 : Party has to take separate fiddler at his own cost Corporation would reimburse maximum upto component of H.P. power supply which is included in allotment price.
- Condition No.3 : You shall give preference in the matter of employment opportunity in the project to the external land looser of Survey No of village when they approach with relevant proofs.
- Condition No.4 : You shall have to carry out minimum 20% construction of the total plot area offered to you.
- Condition No.5 : You ~~will~~ shall have to bear proportionate cost of secondary treatment plant stated by the Corporation.

R. 7/12/1
Regional Manager
GILC, Ankleshwar.

22nd January, 2014

Original to SD

UPL LimitedPlot No.3405/06,
GIDC, Ankleshwar.

Dear Sir,

We hereby certify that you have become member for the common Solid/Hazardous Waste Disposal Facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked solid waste quantity **1692 MT/ Year** Your Membership No. is **Ank/030.1**.

Thanking you,

Yours faithfully,

For BHARUCH ENVIRO INFRASTRUCTURE LTD.**AUTHORISED SIGNATORY**



Original to SD

22nd January, 2014

UPL Limited

Plot No.3405/3406,
GIDC, Ankleshwar.

Sub: Membership Certificate for Common Incineration Facility.

Dear Sir,

We hereby certify that you have become member for the common incineration facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked quantity of **4605 MT/Year.** Your Membership No. is **CI/Ank/004.**

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.

B. S. Talwar

AUTHORISED SIGNATORY



United Phosphorus Limited

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Phone : (02646) 250578, 250563
Fax : (02646) 251434

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Ref : u-2/f/a-2/06
September 08, 2006

⇒ Ack. COPY

2

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar

Gujarat Pollution Control Board
C - 1 / 119 / 3, GIDC Phase II
Narmada Nagar
Bharuch - 392 015

Kind attn :- Mr V R Ghadge, Regional Officer

Dear Sir;

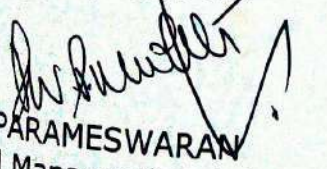
Sub :- Supplementary air pollution control action plan for Ankleshwar region - submission of adequacy certificate for incinerator through Schedule # I Environmental Auditor

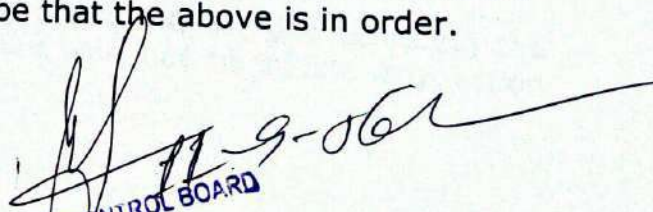
Ref :- Your letter # GPCB/Bharuch/T-152(F)/7025 dated 01.09.2006

Kindly refer the above letter with respect to supplementary air pollution control action plan for Ankleshwar Region. Also, kindly refer our letter dated 06.05.2006 submitted to GPCB informing that our incineration plant is not in operation now. We have stopped our incineration plant with effect from 01.03.2006. At present, we are sending our incinerable wastes to Common Incineration System operated by BEIL. We hope that the above is in order.

Thanking you

Yours faithfully
For, United Phosphorus Ltd


DR P N PARAMESWARAN
Sr General Manager (Environment)


GUJARAT POLLUTION CONTROL BOARD
SECTOR NO. 10. A.
GANDHINAGAR-382 010.
Copy to :-

Encl : a/a
CC : Dr AD / SKK

Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A
Gandhinagar - 382 010



United Phosphorus Limited

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Phone : (02646) 250578, 250563
250493
Fax : (02646) 251437

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Annexure 4B

2

Ref :- u-2/f/a-2/06
July 07, 2006

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar

Gujarat Pollution Control Board
Narmada Nagar
GIDC Phase II
Bharuch - 392 010

ACK COPY

Kind attn :- Mr. V R Ghadge, Regional Officer

Dear Sir;

Sub :- Compliance Report of monitoring of our Unit on 07.07.2006.

Kindly refer the visit of Mr A J Rathod -(Assistant Environmental Engineer) along with Mr V H Soni (Senior Scientific Assistant) to our Unit # 2 located at Plot # 3405 / 3406, GIDC Estate, Ankleshwar - 393 002, Dist - Bharuch, on 06.07.2006, with respect monsoon preparation for control pollution. During the monitoring, it was suggested following points.

| Sr No | Points suggested during visit | Status as On 07.07.2006 |
|-------|---|---|
| 1 | <input type="checkbox"/> Information to Board about discontinued solar evaporation pond, utilisation as storage of RM/FG and introduction of forced evaporation system. <input type="checkbox"/> Photograph of above improvements. | <input type="checkbox"/> We have discontinued / dismantled all the evaporation ponds last year and started utilising as storage area for Raw materials/Packing Materials/Finised Goods. <input type="checkbox"/> The effluent with high TDS, generated from our manufacturing plants, are evaporated in the forced evaporation system. We have 4 nos. of evaporators are in operation. The evaporation is done with the help of steam. The total evaporation capacity is 45 kl / day. <input type="checkbox"/> We are attaching herewith photographs of Evaporation ponds (started utilisation as Raw Materials / Packing Materials / Finished Goods storage) & construction is under progress and forced evaporation system for High TDS effluent. |

Guj Pollution Control Board
BHARUCH.



United Phosphorus Limited

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Phone : (02646) 250578, 250563
250493
Fax : (02646) 251434

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

2 Regular monitoring for pollution control during monsoon period of inside company & surrounding areas.

We would like to inform you that we are complying to various conditions directed in your letter NO GPCB/BRCH/T-181(A)/4617 for Management of waste water during monsoon season for control of pollution. We have submitted point wise compliance status report and action plan as directed in the above letter and we are following the same.


3 Solid waste and Incinerable waste disposed to BEIL details

We are attaching herewith details of solid waste and incinerable waste disposed at BEIL.

We trust that you would find the above in order.

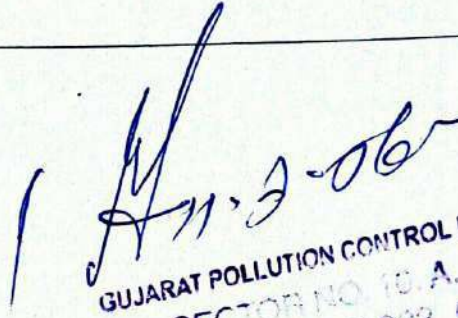
Thanking you

Yours faithfully
For, United Phosphorus Ltd


S K Kothari
General Manager - Works

Encl : a/a

CC: Mr A A Dolti, Environmental Engineer
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A
Gandhinagar - 382 010


GUJARAT POLLUTION CONTROL BOARD
SECTOR NO. 10, A.
GANDHINAGAR-382 010.

CC : Dr AD / PNP

DETAILS OF WASTE GENERATION AND DISPOSAL

| MONTH | Opening STOCK | DISPOSAL | | | | Closing Stock |
|------------------------|---------------|-----------------------|------------------|---|--|---------------|
| | | ORGANIC PROCESS WASTE | AQ PROCESS WASTE | SENT TO BEIL, ANKLESHWAR FOR INCINERATION | Sent to Cement Kiln for Co-process / Co-incineration | |
| GPCB Limit in MT/Annum | | 9285.3 MT/Year | 3403 MT/Year | Total –12688.3 MT/Annum (9285.3+3403) | | |
| Apr 20 | 8.49 | 251 | 145 | 144.97 | 251 | 8.508 |
| May 20 | 8.51 | 979 | 891 | 265.45 | 1603 | 9.818 |
| Jun 20 | 9.82 | 1068 | 1846 | 183.01 | 2732 | 9.148 |
| Jul 20 | 9.15 | 1263 | 45 | 822.25 | 487 | 8.228 |
| Aug 20 | 8.23 | 4305 | 349 | 652.12 | 4003 | 6.938 |
| Sep 20 | 6.94 | 1296 | 6 | 214.35 | 1087 | 7.978 |
| Total | | 9162 | 3282 | 2282 | 10162 | |

| SOLID WASTE DETAILS –Landfilling Disposal to BEIL – Ankleshwar | | | | | | |
|--|----------|------------|------------------|--------|------------------|-----------|
| MONTH | OP STOCK | GENERATION | | | DISPOSAL TO BEIL | CL. STOCK |
| | | ETP sludge | EVAPORATION SALT | TOTAL | | |
| ALL QTY IN MT/MONTH | | | | | | |
| Apr 20 | 7.24 | 29 | 243.00 | 279.24 | 270.56 | 8.68 |
| May 20 | 8.68 | 27 | 377.00 | 412.68 | 404.73 | 7.95 |
| Jun 20 | 7.95 | 30 | 353.00 | 390.95 | 381.27 | 9.68 |
| Jul 20 | 9.68 | 31 | 483.00 | 523.68 | 514.02 | 9.66 |
| Aug 20 | 9.66 | 29 | 492.00 | 530.66 | 499.73 | 30.93 |
| Sep 20 | 30.93 | 27 | 498.00 | 555.93 | 0.00 | 555.93 |
| Total | | 173 | 2446 | | | |

| Total Solid Waste Quantity To BEIL, ANKLESHWAR For Landfilling (MT/MONTH) | | | | | | |
|---|--|---------------|------------------|------------------------|--|--|
| Month | Solids (ETP Sludge + Evaporation Salt) | Plastic Waste | Insulation Waste | Construction Debris | Monthly Total Solid Waste Quantity to BEIL | |
| Apr 20 | 270.56 | 2.42 | 3.56 | 0.00 | 276.54 | |
| May 20 | 404.73 | 3.11 | 2.63 | 0.00 | 410.47 | |
| Jun 20 | 381.27 | 5.00 | 3.46 | 0.00 | 389.73 | |
| Jul 20 | 514.02 | 0.00 | 0.00 | 0.00 | 514.02 | |
| Aug 20 | 499.73 | 0.00 | 4.38 | 0.00 | 504.11 | |
| Sep 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total | 2070.31 | 10.53 | 14.03 | 0.00 | | |
| GPCB Limit in MT/Year | 3576 | 120 | 48 | Non - Hazardous | | |

Gujarat Pollution Control Board

Paryavaran Bhavan
Sector-10-A, GANDHINAGAR-382043.
Phone : 22756, 22095, 22096 Gram. CLEANWATER
Fax : 02712-32156

Original to KDV
cc- PAP/BAM 2

Circulation to
by AD/Asst. Dir. JKA/Secy
and return to PAP seen @ 17/4/2



NO:PC/BRCH-531(6)/9103

22 MAR 2002

To
The Addl. Director
Ministry of Environment & Forest,
Paryavaran Bhavan,
CGO Complex, Lodhi Road,
NEW DELHI - 110 032.

File
with public hearing

Subj: Public hearing reports of
M/s. United Phosphorus Ltd
located at Plot No. 3404/05
GIDC Estate, Ankleshwar Dist: Bharuch

Ref: Environment Clearance for the Products
started manufacturing between Jan-1994 to
April-'97 & MOEF Notification dtd. 27/1/94
10/4/97 alongwith sub.correspondence with
GPCB.

Sir,
Please find enclosed herewith the copy of the minutes of
public hearing with regards to Environmental Clearance of
M/s. United Phosphorus Ltd., Located at Plot No. 3404/05
GIDC Estate, Ankleshwar Dist: Bharuch, Held on 16-1-2002 at
Hotel Shalimar, Ankleshwar Dist: Bharuch. This is a case of
unit obtained NOC/Consent of GPCB between Jan-'94 - April-'97
without Env. Clearance of Ministry of Environment and Forest.

Thanking You,

For and on behalf of
Gujarat Pollution Control Board

(Signature)
(R. G. SHAH)
ENVIRONMENTAL ENGINEER

Encl: As above

Copy to :

✓ M/s. United Phosphorus Ltd.,
Plot No. 3405/06, GIDC Estate,
Ankleshwar, Dist: Bharuch.

for information and necessary action of your end.

Minutes of the Environmental Public Hearing [as covered in Schedule I of the Environmental Impact Assessment Notification No. S.O. 60 (E), January 27, 1994 and also for power projects as per S.O. 318 (E), S.O. 319 (E), April 10, 1997] for United Phosphorus Limited (Unit-2) located at Plot No. 3405-3406, G.I.D.C., Ankleshwar, Dist. Bharuch held On 16th January, 2002 at 14.00 Hrs. at Hotel Shalimar, Ankleshwar, Dist. Bharuch for products Accephate and Phorate / Turbuphos as production of the products are started after 27/01/1994.

Following members of the District Level Committee for the Environmental Public Hearing were present (Annexure - A).

| Sr. No. | Name & Designation | Organisation | Designation in the District Level Committee for the Env. Public Hearing |
|---------|---|--|---|
| 1 | Ms. Anju Sharma, IAS Collector | District Collector Bharuch | Chairman |
| 2 | Shri C. N. Thakore Dy. D.D.O. (R) Representative of Ms. Mamta Verma, IAS District Development Officer | District Development Officer, Bharuch | Member |
| 3 | Shri J. D. Kalayani, DEF, Representative of Shri J. K. Vyas Sr. Technical Officer | Forest & Env. Dept., Govt. Of Guj., Gandhinagar. | Member |
| 4 | Shri Udesmi Raj (Senior Citizen) Dist. Bharuch | Village : Manad, Tal : Vagra, Dist. Bharuch. | Member |
| 5 | Shri P. C. Patel (Senior Citizen) Dist. Bharuch | Campus, Shri S'ad Vidyalaya Mandal, Institute of Technology, Bharuch. | Member |
| 6 | Shri Paragjibhai Patel (Senior Citizen) Dist. Bharuch | Vill : Nikora, Dist. Bharuch. | Member |
| 7 | Shri S. H. Vegda Regional Officer | Regional Office, G.P.C.B., Bharuch | Member Secretary |

The list of participants who have come from the various quarters of the District and attended the Environmental Public Hearing is enclosed as Annexure - B.

Shri N. K. Navadia, President of FIA on the issue said that though the Environmental Public Hearing has been arranged as a post-facto due to the reasons which as per his opinion were beyond the control of the company and now when the company tries to regularize the matter shall be supported by all and added that there is no objection for action against any one for the failure on the environmental preservation front.

Shri A. A. Panjwani as a member of Confederation of Indian Industries (CII), New Delhi informed to the gathering that the issue of complying with the mandatory requirement of holding the Environmental Public Hearing was represented to the Govt. Of India by CII for exempting those industries who were already been operative for the products falling under the schedule and requires an Environmental Public Hearing before the procedure for the same came into the existence but finally decided that all those industries irrespective of their production starting years will have to go through the procedure.

Shri Michael Mazgaonkar of Paryavaran Suraksha Samiti wanted to know whether dead line was for the submission of the documents or for the completion of the procedure, in reply to which Shri A. A. Panjwani as a representative of the United Phosphorus Limited added that the company has submitted all the documents pertaining to Environmental Public Hearing before the 30th June, 2001.

Shri Udesinh Raj & Shri Paragjibhai Bapuji, members of the Environmental Public Hearing Committee upon receipt of the objection letter from Centre for Environment, Science and Community registered their opposition in writing. They informed that EIA Report submitted by the company seems to be incomplete as they have not showed impact of effluent on Amlakhadi and seems that some details are being deliberately concealed and demanded that under the circumstances till new EIA Report is prepared and submitted, permission can not be granted to the company for the project proposal and till than this Environmental Public Hearing shall be postponed. Copy of the letters enclosed as Annexure - D & Annexure - E respectively. However, Chairman of the Committee discussed the matter with them and informed that their views about the EIA Report will be put on the records and added that it is advisable to let Gujarat Pollution Control Board decide about the EIA Report submitted and if will be felt the same then EIA Report will be rejected by Gujarat Pollution Control Board. The Committee therefore decided to go ahead with the Public Hearing.

After these long deliberations on the issue of the validity of this Environmental Public Hearing and common voice for cancellation of the Environmental Public Hearing, common view including that of Committee member was. Environmental Public Hearing at this juncture should be used only for purpose of deciding whether the company should get environment clearance for future and not for post-facto purpose. After this discussion Chairman decided to continue with the Environmental Public Hearing.

Then after, Shri Amul Desai of United Phosphorus Limited, started the presentation. He in his presentation, covered the introduction of the company; about certification obtained like ISO 9002 and ISO 14001, about present products and products before 1994.

Representative of the company further presented on present fresh water consumption and water consumption before 1994 with its break up; present wastewater generation and waste water generation before 1994 with its break up; about the existing ETP and informed that capacity of the same is 300 m³ where as presently waste water required to be treated is 218 m³/day; about present air pollution generation and before 1994 with type of pollutants, its quantity and air pollution control measures provided for the same; about present solid waste disposal with quantity, collection and disposal and for before 1994 status.

Afterwards the Member Secretary of the Committee invited suggestions, questions etc. from the participants present and they inquired to know the following points.

- (1) Shri Ashok Rathi of Centre for Environment, Science and Community commented that as per the data presented for the present waste water generation and for the waste water generation before 1994 it is clearly evident that there is an increase in present waste water generation by 36 m³/day and added that in the absence of the baseline data the impact of those additional waste water discharge of 36 m³/day can not be known. He also registered his opposition in writing for other anomaly in the EIA Report. Copy of the letter is enclosed as Annexure - C.
➤ Shri Suketu Shah, Associated Environmental Consultant, consultant to the company, informed that guideline of the MoEF for the preparation of the EIA report is complied by them and report prepared is a project specific.
- (2) Shri K. N. Punani, Consultant to CESCO, made an observation ^{from} the report submitted and wanted to know that why two products namely Phosphamidon and Dichlorovos have been proposed to manufacture in United Phosphorus Limited (Unit -1) even though it is being manufactured in this Unit -2.
➤ Shri Amul Desai of United Phosphorus Limited, informed that as the one of the raw material for these two products under consideration namely Tri Methyl Phosphite (TMP) being manufactured in Unit -1 will be directly available and transportation will not be required which adds to the reduction in costing in addition to the avoidance of the hazard associated with the transportation of this chemical it has been proposed so. He then added that Monocrotophos plant of Unit -1 has a spare capacity in which these two products can be manufactured.
- (3) Shri Ashok Rathi of Centre for Environment, Science and Community said that in any case it is essential to develop base-line data of the receiving water body i.e. Amlakhadi and in absence of that what shall be considered and added that how can impact on Amlakhadi be calculated?
➤ Shri Suketu Shah, Associated Environmental Consultant, consultant to the company, present background level of environmental pollution has been considered and contribution of the unit in the environmental pollution is measured which helps in deciding the base-line data. He also added that it is evident from the results of the treated effluent that organic load from the unit is less and therefore it can be concluded that the same will on the other way helps in diluting the load of the Amlakhadi to certain extent.
- (4) Shri Sandeep M. Jajuwala, Advocate commented that section 24 of The Water (Prevention and Control of Pollution) Act, 1974 refers to Prohibition on use of stream or well for disposal of polluting matter etc. and under this, question of disposal of any quantity of effluent into Amlakhadi does not arise.
➤ It was informed by the representative of the company that there is no ban for disposal in Amlakhadi.
- (5) Shri Michael Mazgaonkar of Paryavaran Suraksha Samiti quoted that company is engaged with handling and storage of many hazardous chemicals and then inquired to know the potentiality in terms of extent of damage, extent of severity, population threatened directly or indirectly in case of accident or leakage.
➤ Shri Ganesh Venkatraman while answering referred to the dispersion study carried out by them for the most hazardous chemical with the highest rate of release and informed that as per their study, effect would be more on-site than off-site. He then also informed that in the case of fire of solvent, area covered

would be about 40 meter around that which is generally within factory premises only. However, Shri Michael Mazgaonkar inquired for the clear-cut answer and Shri Ganesh Venkatraman replied that ground level concentration would be nil and there is no chance of damage to any village.

(6) Shri Yogesh Pandya of Safety Health and Environment Association asked about the occupational health hazard reported so far, about the list of antidotes for the chemicals. He also registered his suggestion and objection in writing, copy of which is enclosed as Annexure - F.

> Shri Snehal C. Tralsawala of United Phosphorus Limited informed that they carry out the medical check-up of the employees regularly and no incidence of occupation health hazard has been reported. While answering for the antidotes, it was informed that sufficient quantity of the same has been kept ready with the unit itself and added that few hospitals of an area also have the same for the worst condition. He then showed the list of antidotes for each of the chemicals being handled.

(7) Shri Basim Bhaiyat of village Sanjali inquired to know whether any training to nearby villager has been imparted for educating them for the steps to be taken in the crisis time.

> Shri Snehal C. Tralsawala of United Phosphorus Limited while answering yes for the question referred to the mock drill being played by the Local Crisis Group of Ankleshwar with the help of District Crisis Group in the year 2001.

(8) Shri Ashok Rathi of Centre for Environment, Science and Community inquired to know the strategy of the company to achieve the new standards published.

> Shri P. N. Parmeshwaran of United Phosphorus Limited showed some results of the treated waste water of the ETP and added that the results of BOD & COD are already falling below 30 mg/lit & 100 mg/lit respectively against previously permitted 100 mg/lit & 250 mg/lit value and thus, they are conforming to the new standards published. Member Secretary to the Committee instructed the project proponent that with respect to the new standards required modification/up gradation of the ETP shall be done.

Shri Suketu Shah, Associated Environmental Consultant, consultant to the company, while adding said that the same has been addressed in Chapter 8 Environmental Management Plan of EIA Report and present calculated COD value is 278 kg/day against 900 Kg/day and thereby presently also unit is conforming to the new standards.

(9) Shri Ashok Rathi of Centre for Environment, Science and Community commented that in the preparation of the EIA Report value of BOD and COD considered are 100 mg/lit and 250 mg/lit respectively where as present norms for the same as per the new standards are 30 mg/lit and 100 mg/lit and there fore practice shall be introduced to provide the supplementary statement to the EIA Report for supplying the latest information that has been not considered while preparing the EIA Report. He also added that effect of disposal of effluent on the Amlakhadi shall also be incorporated in the EIA Report.

> Shri Suketu Shah, Associated Environmental Consultant, consultant to the company, informed that back dated effect of the effluent on the Amlakhadi is not possible to incorporate in the EIA Report. However, in the study, details and pollution load of the effluent is incorporated.

(10) Centre for Social Justice have registered their opposition in writing, copy of which is enclosed as Annexure - G.

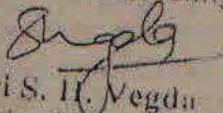
(11) Shri Amit B. Jadhava of Gujarat Nature Conservation Movement have submitted suggestions and objections at the time of Environmental Public Hearing for the proposed project with a request to consider. Copy of the letter is enclosed as Annexure - H.


(12) Many villagers have registered their opposition in writing on the ground that effluent generated from the United Phosphorus Limited is going to be discharged into Amlakhadi and adverse effects due to the same is known to everybody. They also have demanded that impact of discharge of effluent into Amlakhadi shall be first studied and concluded, till then Environmental Public Hearing shall be postponed and no permission shall be granted. Copies of the same are enclosed as Annexure - II to Annexure - II5.


➤ Representative of the company informed that eventhough the their present organic load is less and results of the analysis reveals that they are conforming to the new standards, procedure of improvement/modification required to achieve the new standards are in pipeline.


(13) Shri Mahesh Panyla of Centre for Social Justice had registered his views and objections against holding the post-facto Environmental Public Hearing in writing, copy of which is enclosed as Annexure - J.

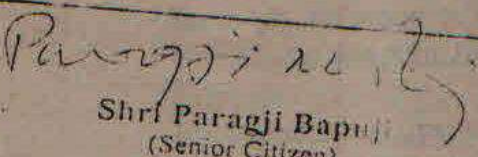
The meeting was concluded with the thanks to the Chair.



Shri S. H. Vegda
Member Secretary of District
Level Committee for the Env.
Public Hearing &
Regional Officer,
Bharuch.



Ms. Anju Sharma (I.A.S.)
Chairman of District Level
Committee for the Env.
Public Hearing &
Collector,
Dist. Bharuch


Shri C. N. Thakore
Dy. D.D.O. (R)
Representative of Ms. Mamta Verma, IAS
D.D.O., Bharuch.


Shri J. D. Kalayani
D. E. E.
Representative of Shri J. K. Vyas
Sr. Technical Officer


Shri Paragji Bapuji
(Senior Citizen)
Dist. Bharuch


Shri Udesinh Raj
(Senior Citizen)
Dist. Bharuch


Shri R. C. Joshi
(Senior Citizen)
Dist. Bharuch

Gujarat Pollution Control Board

Sector-10-A, GANDHINAGAR-382043.

Phone : 22756, 22095, 22096 Gram : CLEANWATER

Fax : 02712-22784



NO:PC/NOC/BRCH-1377(531)/ 23669

17 NOV 1995

To,

✓ M/s. United Phosphorus Limited,
117/118, G.I.D.C.,
Ankleshwar:393 002,
Dist. Bharuch

Sub:- SITE CLEARANCE CERTIFICATE

Ref:- Your application dtd. 22-11-94 and subsequent correspondence
then after.

Dear Sirs,

We are in receipt of your application/letter under reference requesting us to grant No Objection Certificate for expansion of an existing industrial unit at Plot no:3405/3406/ GIDC Estate, Ankleshwar:393 002, Dist. Bharuch for the manufacture of the following additional items:-

| ITEM | CAPACITY |
|-------------------|------------------------------------|
| | |
| Phorate (Tech) | } 300 MT/Month (Combined Capacity) |
| Terbuphose (Rech) | |

We have scrutinised the information furnished by you and the proposal for the control of pollution. We would like to inform you that the proposed location for this industrial plant is acceptable to us provided that you will implement the following measures for the prevention and control of environmental pollution and will comply with the condition stipulated hereunder:

A) The following measures shall be taken for treatment and disposal of liquid effluent:

- 1) The concentrated stream bearing toxic compound shall be segregated, primarily treated and shall be incinerated in a well design incinerator.
- 2) The remaining effluent shall be taken to treatment plant of existing unit.

1/2/1

112/1

The total quantity of the effluent because of expansion shall not exceed 120000 lit/day.

iii) Quality of the effluent shall be as under:-

| PARAMETERS | PERMISSIBLE LIMITS |
|------------------------|---|
| PH | 5.5 to 8.5 |
| Colour | 100 units |
| Suspended solid | 100 mg/l |
| Oil and Grease | 10 " |
| Total dissolved solids | 2100 " |
| BOD(5 days at 20°C) | 30 " |
| CO ₂ | 100 " |
| Phenolic Compounds | 1 " |
| Cyanides | 0.2 " |
| Ammonical Nitrogen | 50 " |
| Fluorides | 1 " |
| Hexavalent chromium | 0.1 " |
| Total chromium | 2 " |
| Sulphides | 2.0 " |
| Bio- assay test | 90 % survival of fish after 96 hours in 100 % effluent. |

iv) Disposal (trade/industrial effluent): The effluent shall be discharged in to under ground drainage system of GIDC and shall be conveyed to estury of Narmada.

v) Domestic waste water shall be disposed of through septic tank soak pit system or it shall be treated alongwith industrial effluent and shall be discharged alongwith industrial effluent.

B) The following shall be applicable for the emission of gases:

1) The following air pollution control equipment shall be installed.

a) ventury alkali scrubber for absorption hydrogen sulphide.

b) Alkali scrubber for ^{gases} from incinerator.

ii) LSHS shall be used as fuel at a rate of 9 kl/day.

iii) Stack height: 30 meters from the ground level attached to boiler/furnace.

iv) height of stacks/vents attached to process vessels/reactors/storage tanks etc. shall be as under:-

- For scrubber of hydrogen sulphide 20 m
- For incinerator 30 m

v) quality of gaseous emission shall conform to the following limits:

113/1

PARAMETERS
.....

PERMISSIBLE LIMITS
.....

a) For the flue gas emission:

| | |
|--------------------|------------------------|
| Particulate Matter | 150 mg/NM ³ |
| SO ₂ | 100 ppm |
| NO _x | 50 " |

b) Process emissions:

| | |
|--------------------|----------------------|
| Chlorine | 9 mg/NM ³ |
| Hydrogen Chloride | 20 " |
| Sulphur Dioxide | 40 " |
| Oxides of Nitrogen | 25 " |
| Hydrogen Sulphide | 45 " |
| Hydrocarbon | 15 " |

c) Ambient air quality requirements (within the premises of the industry):-

| | |
|------------------------------|------------------------------|
| Suspended Particulate Matter | 200 microgram/M ³ |
| Sulphur Dioxide | 80 " |
| Nitrogen Oxides | 80 " |

C) Green belt development:- A green belt of minimum 10 meters width shall be developed all along the periphery of the industry in such a way that the density of trees shall be atleast 1000 trees per acre of green belt area.

D) Adequate arrangement for the management and handling of hazardous waste shall be made:

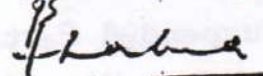
E) IMPORTANT NOTE:
.....

- 1) This letter is issued to enable the applicant to be eligible for plot/shed allotment, sanction of full amount of financial loan/assistance. Based on this letter the applicant/entrepreneur is also eligible for the receipt of financial assistance to the extent of 25 % of the total project cost; so that the pollution control facilities can be installed prior to or simultaneously with the implementation of the main project.
- 2) The Board will issue another letter to the applicant/entrepreneur certifying the completion of pollution control equipment/systems after carrying out inspection in this regard to enable him to be eligible for the receipt of the rest of the sanctioned funds from the financial institutions.

//4//

- 3). The applicant/entrepreneur shall be required to obtain the following from the Board prior to commencement of production.
- a) Consent under the Water (Prevention and Control of Pollution) Act-1974.
 - b) Consent under the Air (Prevention and Control of Pollution) Act-1981.
 - c) Authorisation under the Hazardous waste (Management and Handling) Rules 1989 under the Environment (Protection) Act-1986.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD
Yours Faithfully,


(B.F. SALUNKA)

MEMBER SECRETARY

EFF Master

Gujarat Pollution Control Board

3-406-10-A, GANDHINAGAR-382013
Phone: 22756, 22025, 22026 Gram: CLI ALLWATER
Fax: 22712-22734

1. THIS DOCUMENT CONTAINS
THREE PAGES.
2. ALL THE PAGES OF THIS
DOCUMENT ARE SIGNED BY
THE AUTHORIZED OFFICER.



NO: PC/NOC/BRCH-1521 (531)

To;

9470

2 APR 1996

M/s. United Phosphorus Ltd;
117, 118, GIDC Indl. Estate,
Ankleshwar: 2 393 002,
Dist. Bharuch

Sub:- NO OBJECTION CERTIFICATE

Ref:- Your letter no. UPL/ANK/TECH/A-139/8/95/5808/dtd. 27-11-95

Sir,

without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in anyway, this is to inform you that this Board has NO OBJECTION to your ~~extking~~ expansion of an existing industrial plant at plot no:- 3405/3406, GIDC Estate, Ankleshwar, Dist. Bharuch for the manufacture of the following additional items:

ITEMS
.....

CAPACITY
.....

Acephate

80 ML/Month

SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) The quantity of the industrial effluent from the manufacturing process and other ancilliary industrial operations because of proposed ^{expansion} shall not exceed 34000 lits/day.
- 2) The quantity of the domestic waste water (Sewage) because of proposed expansion shall not exceed 2000 lits/day.
- 3) The effluent shall be taken to the existing effluent treatment plant and shall be treated to conform to the standards specified vide consent order no. 10331 dtd. 17-11-95.
- 4) The treated effluent conforming to the above standards shall be discharged into GIDC underground drainage system and shall be conveyed to the estuary of Narmada for final disposal.

HEL. 15/4/96

1. THIS DOCUMENT CONTAINS
THREE PAGES.
 2. ALL THE PAGES OF THIS
 DOCUMENT ARE SIGNED BY
 THE AUTHORISED OFFICER.

// 2 //

- 5) Sewage shall be disposed of through septic tank/soak pit system.
- 6) For the plant of proposed product Natural Gas shall be utilized as fuel in the boiler at a rate of 900 M³/day.
- 7) Flue gas emission from the stack of 30 mtrs. height attached to the boiler shall conform to the following standards:

| PARAMETERS | PERMISSIBLE LIMITS |
|--------------------|------------------------|
| Particulate Matter | 150 mg/NM ³ |
| Oxides of Sulphur | 100 ppm |
| Oxides of Nitrogen | 50 " |
- 8) Process emission through vents/stacks/ attached to air pollution control systems provided with various reactors, process vessels, storage tanks etc., shall conform to the following standards:

| PARAMETER | PERMISSIBLE LIMITS |
|-----------|------------------------|
| Ammonia | 175 mg/NM ³ |
- 9) Water scrubber system shall be installed for control of acid process emissions.
- 10) Stack monitoring facilities like port hole, Platform/ladder etc., shall be provided with stacks /vents/chimney in order to facilitate sampling of gases being emitted into the atmosphere.
- 11) Ambient air quality within the premises of the industry shall conform to the following standards:

| PARAMETERS | PERMISSIBLE LIMITS |
|------------------------------|------------------------------|
| Suspended Particulate Matter | 200 microgram/M ³ |
| SO ₂ | 80 " |
| NO _x | 80 " |
- 12) All measures for the control of environmental pollution shall be provided before commencing production.
- 13) Solid waste shall be ~~at garriedxxxxxxxalongxxxxxxxperxy~~ disposed of by incineration or it shall be disposed of by sanitary land filling method at a site approved by the Board.
- 14) Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 5 mtrs. width is developed.
- 15) The applicant shall have to submit the returns in prescribed forms regarding water consumption and shall have to make payment of water cess to the Board under the water Cess Act-1977.

Chakravarti

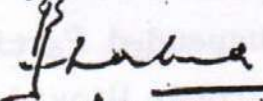
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//4//

- 3). The applicant/entrepreneur shall be required to obtain the following from the Board prior to commencement of production.
- a) Consent under the Water (Prevention and Control of Pollution) Act-1974.
 - b) Consent under the Air (Prevention and Control of Pollution) Act-1981.
 - c) Authorisation under the Hazardous waste (Management and Handling) Rules 1989 under the Environment (Protection) Act-1986.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

Yours Faithfully,


(B.F. SALUNKA)

MEMBER SECRETARY

UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH APRIL - 2020

Annexure 8
F/QA/216
02.05.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm ³ (Max.) | SO ₂ 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------------------|-----------------------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 05/04/2020 | Plant not in operation | | |
| | | 19/04/2020 | 23.7 | 33.1 | 24.2 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 04/04/2020 | 25.4 | 33.4 | 23.2 |
| | | 18/04/2020 | 24.3 | 32.7 | 24.5 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 07/04/2020 | 24.2 | 31.9 | 27.5 |
| | | 18/04/2020 | 26.1 | 32.5 | 28.4 |
| 4 | STACK ATTACHED TO DG - 1 | 03/04/2020 | 10.4 | 23.7 | 16.5 |
| | DG - 2 | 18/04/2020 | 9.7 | 22.1 | 16.9 |
| 5 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH MAY - 2020**

F/QA/216

02.06.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm ³ (Max.) | SO ₂ 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------------------|-----------------------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 04/05/2020 | 20.2 | 28.8 | 24.5 |
| | | 19/05/2020 | 19.8 | 30.3 | 21.1 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 03/05/2020 | 24.9 | 31.5 | 29.2 |
| | | 14/05/2020 | 21.5 | 33.3 | 24.4 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 08/05/2020 | 22.2 | 29.9 | 21.1 |
| | | 14/05/2020 | Plant not in operation | | |
| 4 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH JUNE - 2020

F/QA/216

02.07.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm3 (Max.) | SO2 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------|-----------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 03/06/2020 | 16.1 | 22.1 | 28.2 |
| | | 18/06/2020 | 14.4 | 19.2 | 27.6 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 01/06/2020 | 19.2 | 25.2 | 30.3 |
| | | 16/06/2020 | 20.1 | 23.5 | 31.2 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 02/06/2020 | Plant not in operation | | |
| | | 16/06/2020 | Plant not in operation | | |
| 4 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH JULY - 2020**

F/QA/216

02.08.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm ³ (Max.) | SO ₂ 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------------------|-----------------------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 07-03-2020 | 15.9 | 28.5 | 30.7 |
| | | 15/07/2020 | 14.8 | 27.9 | 31.0 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 07-01-2020 | 16.9 | 24.9 | 31.1 |
| | | 16/07/2020 | 18.7 | 23.6 | 30.5 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 07-02-2020 | Plant not in operation | | |
| | | 17/07/2020 | Plant not in operation | | |
| 4 | STACK ATTACHED TO DG - 1250 KVA (OLD) | 07-07-2020 | 73.0 | 38.4 | 24.1 |
| | DG - 810 KVA (NEW) | 07-07-2020 | 61.0 | 31.6 | 19.5 |
| 5 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH AUGUST - 2020**

F/QA/216

02.09.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm ³ (Max.) | SO ₂ 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------------------|-----------------------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 08-03-2020 | 14.9 | 26.2 | 29.1 |
| | | 15/08/2020 | 12.8 | 25.5 | 28.1 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 08-02-2020 | 14.4 | 21.1 | 31.1 |
| | | 16/08/2020 | 15.7 | 20.2 | 29.8 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 08-03-2020 | Plant not in operation | | |
| | | 17/08/2020 | Plant not in operation | | |
| 4 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH SEPTEMBER - 2020**

F/QA/216

02.10.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | PM 150 mg/Nm ³ (Max.) | SO ₂ 100 ppm (Max.) | NOX 50 ppm (Max.) |
|---------|--|--|-------------------------------------|-----------------------------------|----------------------|
| 1 | STACK ATTACHED TO BOILER GT-9227 | 09-03-2020 | 11.3 | 27.56 | 30.3 |
| | | 17/09/2020 | 14.2 | 24.3 | 31.5 |
| 2 | STACK ATTACHED TO BOILER GT-3507 | 09-02-2020 | 12.25 | 23.63 | 32.2 |
| | | 16/09/2020 | 15.88 | 22.41 | 30.45 |
| 3 | STACK ATTACHED TO BOILER GT-3201 | 09-01-2020 | Plant not in operation | | |
| | | 09-12-2020 | 16.96 | 24.63 | 33.6 |
| 4 | ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR | Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN. | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH APRIL - 2020

F/QA/216

02.05.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm3 | CHLORINE 5.0 mg/Nm3 | NH3 30 mg/Nm3 | NOX 25 mg/Nm3 | SPM 20 mg/Nm3 | SO2 40 mg/Nm3 | H2S 5.0 mg/Nm3 |
|---------|--|------------------|------------------------|------------------------|---------------------------|------------------|------------------|------------------|-------------------|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 06/04/2020 | BDL | BDL | BDL | 19.10 | 13.20 | 27.70 | BDL |
| | | 20/04/2020 | BDL | BDL | BDL | 21.20 | 14.50 | 28.20 | BDL |
| 2 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 06/04/2020 | Plant not in operation | | | | | | |
| | | 21/04/2020 | Plant not in operation | | | | | | |
| 3 | IN PH-5000 PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 06/04/2020 | | | | | | | 3.0 |
| | | 21/04/2020 | | | | | | | 2.0 |
| 4 | IN PH-5000 PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER | 06/04/2020 | | | | | | | 3.0 |
| | | 21/04/2020 | | | | | | | 2.0 |
| 5 | IN PH-5000 PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER | 06/04/2020 | | | | | | | BDL |
| | | 21/04/2020 | | | | | | | BDL |
| 6 | IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER | 06/04/2020 | | | Plant not in operation | | | | |
| | | 21/04/2020 | | | 2.0 | | | | |
| 7 | IN CLOMAZONE PLANT STACK ATTACHED TO WATER SCRUBBER | 06/04/2020 | Plant not in operation | | | | | | |
| | | 21/04/2020 | Plant not in operation | | | | | | |
| 8 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 06/04/2020 | Plant not in operation | | | | | | |
| | | 21/04/2020 | Plant not in operation | | | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH MAY - 2020

F/QA/216

02.06.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm ³ | CHLORINE 5.0 mg/Nm ³ | NH ₃ 30 mg/Nm ³ | NOX 25 mg/Nm ³ | SPM 20 mg/Nm ³ | SO ₂ 40 mg/Nm ³ | H ₂ S 5.0 mg/Nm ³ |
|---------|---|------------------|------------------------------|------------------------------------|--|------------------------------|------------------------------|--|--|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 05/05/2020 | BDL | BDL | BDL | 21.20 | 15.50 | 29.90 | BDL |
| | | 21/05/2020 | BDL | BDL | BDL | 20.10 | 16.20 | 30.20 | BDL |
| 2 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 05/05/2020 | Plant not in operation | | | | | | |
| | | 18/05/2020 | Plant not in operation | | | | | | |
| 3 | IN PH-5000 PLANT STACK ATTACHED TO ALKALI SCRUBBER (H ₂ S VENT) | 05/05/2020 | | | | | | | 2.0 |
| | | 21/05/2020 | | | | | | | 3.0 |
| 4 | IN PH-5000 PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER | 05/05/2020 | | | | | | | 1.0 |
| | | 21/05/2020 | | | | | | | 2.0 |
| 5 | IN PH-5000 PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER | 05/05/2020 | | | | | | | BDL |
| | | 21/05/2020 | | | | | | | BDL |
| 6 | IN ACEPHATE PLANT STACK ATTACHED TO NH ₃ SCRUBBER | 05/05/2020 | BDL | BDL | 2.0 | | | | |
| | | 21/05/2020 | BDL | BDL | 3.0 | | | | |
| 7 | IN CLOMAZONE PLANT STACK ATTACHED TO WATER SCRUBBER | 05/05/2020 | Plant not in operation | | | | | | |
| | | 21/05/2020 | Plant not in operation | | | | | | |
| 8 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 05/05/2020 | Plant not in operation | | | | | | |
| | | 21/05/2020 | Plant not in operation | | | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT. MONTH JUNE - 2020

F/QA/216

02.07.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm3 | CHLORINE 5.0 mg/Nm3 | NH3 30 mg/Nm3 | NOX 25 mg/Nm3 | SPM 20 mg/Nm3 | SO2 40 mg/Nm3 | H2S 5.0 mg/Nm3 |
|---------|--|------------------|------------------------|------------------------|------------------|------------------|------------------|------------------|-------------------|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 05/06/2020 | BDL | BDL | BDL | 21.22 | 13.20 | 31.45 | BDL |
| | | 20/06/2020 | BDL | BDL | BDL | 15.20 | 10.10 | 22.20 | BDL |
| 2 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 05/06/2020 | Plant not in operation | | | | | | |
| | | 18/06/2020 | Plant not in operation | | | | | | |
| 3 | IN PH-5000 PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 05/06/2020 | | | | | | | 2.0 |
| | | 22/06/2020 | | | | | | | 1.0 |
| 4 | IN PH-5000 PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER | 05/06/2020 | | | | | | | 1.0 |
| | | 22/06/2020 | | | | | | | 1.0 |
| 5 | IN PH-5000 PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER | 05/06/2020 | | | | | | | BDL |
| | | 22/06/2020 | | | | | | | BDL |
| 6 | IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER | 05/06/2020 | BDL | BDL | 4.0 | | | | |
| | | 20/06/2020 | BDL | BDL | 5.0 | | | | |
| 7 | IN CLOMAZONE PLANT STACK ATTACHED TO WATER SCRUBBER | 05/06/2020 | Plant not in operation | | | | | | |
| | | 20/06/2020 | Plant not in operation | | | | | | |
| 8 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 05/06/2020 | Plant not in operation | | | | | | |
| | | 20/06/2020 | Plant not in operation | | | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH JULY - 2020**

F/QA/216

02.08.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm3 | CHLORINE 5.0 mg/Nm3 | NH3 30 mg/Nm3 | NOX 25 mg/Nm3 | SPM 20 mg/Nm3 | SO2 40 mg/Nm3 | H2S 5.0 mg/Nm3 |
|---------|---|--------------------------|--|-------------------------------|------------------|------------------|------------------|------------------|-----------------------------------|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 06/07/2020 17/07/2020 | BDL Plant not in operation | BDL Plant not in operation | BDL | 16.30 | 12.30 | 21.04 | BDL |
| 2 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 06/07/2020 20/07/2020 | Plant not in operation Plant not in operation | | | | | | |
| 3 | DETA / ZnDTP /DETCL ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 06/07/2020 20/07/2020 | | | | | | | 2.0 Plant not in operation |
| 4 | DETA / ZnDTP Plant ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 06/07/2020 20/07/2020 | | | | | | | 1.0 Plant not in operation |
| 5 | DETA / ZnDTP | 06/07/2020 20/07/2020 | | | | | | | BDL Plant not in operation |
| 6 | IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER | 06/07/2020 20/07/2020 | BDL BDL | BDL BDL | 5.0 4.0 | | | | |
| 7 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 06/07/2020 20/07/2020 | Plant not in operation Plant not in operation | | | | | | |
| 8 | ATTACHED TO CPC SCRUBBER | 20/01/2020 | Plant not in operation | | | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH AUGUST - 2020**

F/QA/216

02.09.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm3 | CHLORINE 5.0 mg/Nm3 | NH3 30 mg/Nm3 | NOX 25 mg/Nm3 | SPM 20 mg/Nm3 | SO2 40 mg/Nm3 | H2S 5.0 mg/Nm3 |
|---------|--|------------------|------------------------|------------------------|------------------|------------------|------------------|------------------|-------------------|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 06/08/2020 | Plant not in operation | | | | | | |
| | | 20/08/2020 | BDL | BDL | BDL | 16.30 | 12.30 | 21.04 | BDL |
| 2 | DETA / ZnDTP /DETCL ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 05/08/2020 | | | | | | | 2.0 |
| | | 20/08/2020 | | | | | | | 1.0 |
| 3 | DETA / ZnDTP Plant ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 05/08/2020 | | | | | | | 2.0 |
| | | 20/08/2020 | | | | | | | 1.0 |
| 4 | DETA / ZnDTP | 05/08/2020 | | | | | | | 2.0 |
| | | 20/08/2020 | | | | | | | 1.0 |
| 5 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 05/08/2020 | Plant not in operation | | | | | | |
| | | 20/08/2020 | Plant not in operation | | | | | | |
| 6 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 05/08/2020 | Plant not in operation | | | | | | |
| | | 20/08/2020 | Plant not in operation | | | | | | |
| 7 | IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER | 05/08/2020 | BDL | BDL | 2.0 | | | | |
| | | 20/08/2020 | BDL | BDL | 3.0 | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
STACK MONITORING REPORT
Q.A. DEPT.
MONTH SEPTEMBER - 2020**

F/QA/216

02.10.2020

| Sr. No. | AREA IDENTIFICATION (STACK) | DATE OF SAMPLING | HCL 20 mg/Nm3 | CHLORINE 5.0 mg/Nm3 | NH3 30 mg/Nm3 | NOX 25 mg/Nm3 | SPM 20 mg/Nm3 | SO2 40 mg/Nm3 | H2S 5.0 mg/Nm3 |
|---------|--|------------------|------------------------|------------------------|------------------|------------------|------------------|------------------|-------------------|
| 1 | IN PH-5000 PLANT STACK ATTACHED TO FUME INCINERATOR | 05/09/2020 | BDL | BDL | BDL | 19.20 | 14.20 | 23.30 | BDL |
| | | 20/09/2020 | BDL | BDL | BDL | 18.30 | 15.20 | 22.44 | BDL |
| 2 | DETA / ZnDTP /DETCL ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 04/09/2020 | | | | | | | 2.0 |
| | | 15/09/2020 | | | | | | | 2.0 |
| 3 | DETA / ZnDTP Plant ATTACHED TO ALKALI SCRUBBER (H2S VENT) | 04/09/2020 | | | | | | | 1.0 |
| | | 15/09/2020 | | | | | | | 2.0 |
| 4 | DETA / ZnDTP | 04/09/2020 | | | | | | | 2.0 |
| | | 15/09/2020 | | | | | | | 1.0 |
| 5 | IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT) | 05/09/2020 | Plant not in operation | | | | | | |
| | | 20/09/2020 | Plant not in operation | | | | | | |
| 6 | IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER | 05/09/2020 | Plant not in operation | | | | | | |
| | | 20/09/2020 | Plant not in operation | | | | | | |
| 7 | IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER | 04/09/2020 | BDL | BDL | 2.0 | | | | |
| | | 20/09/2020 | BDL | BDL | 1.0 | | | | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)



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TEST REPORT

Test Report No.: EP/UPL-2/2020/54-01 Issue Date: 26 / 05 / 20

| | | | |
|--|------------------------------------|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Stack attached to Boiler GT-3201 | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 20 / 05 / 20 | | |
| Sample Received Date | : 21 / 05 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 21 / 05 / 20 | Date of Completion | : 25 / 05 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : EP/ST/0520/01 |
| Duration of sampling (min.) | : 60 min | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 162 | - | - |
| 3. | Avg. Velocity | m/s | 7.9 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 12532 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.9 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 4.8 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | ppm | 8.1 | 100 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NO _x) | ppm | 3.2 | 50 | IS : 11255 (Part 7) - 2005 |


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202101



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TEST REPORT

Test Report No.: **EP/UPL-2/2020/54-02** Issue Date: **26 / 05 / 20**

| | | | |
|--|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Fume Incinerator attached to Terbuphos | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 20 / 05 / 20 | | |
| Sample Received Date | : 21 / 05 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 21 / 05 / 20 | Date of Completion | : 25 / 05 / 20 |
| Sampling Method | : As per IS:11255 & EPA | Sample ID | : EP/ST/0520/02 |
| Duration of sampling (min.) | : 60 min | Fuel | : Natural Gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 170 | - | - |
| 3. | Avg. Velocity | m/s | 9.5 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg flow rate | m ³ /hr. | 6414 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.6 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 7.0 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | mg/Nm ³ | 21.8 | 40 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NO _x) | mg/Nm ³ | 16.1 | 25 | IS : 11255 (Part 7) - 2005 |
| 9. | Hydrochloride (HCl) | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |

Note: BDL: - Below Detectable Limit


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TEST REPORT

Test Report No.: EP/UPL-2/2020/54-03 Issue Date: 26 / 05 / 20

| | | | |
|---|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No. -3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Stack attached to Ammoniation (Acephate Plant) | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 20 / 05 / 20 | | |
| Sample Received Date | : 21 / 05 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 21 / 05 / 20 | Date of Completion | : 25 / 05 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : EP/ST/0520/03 |
| Duration of sampling (min.) | : 15 min. | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|-----------------------------|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 38 | - | - |
| 3. | Avg. Velocity | m/s | 11.9 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 5257 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.4 | - | - |
| 6. | Ammonia (NH ₃) | mg/Nm ³ | BDL | 30 | IS : 11255 (Part 6) - 1999 |
| 7. | HCl | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |
| 8. | Chlorine (Cl ₂) | mg/Nm ³ | BDL | 5 | IS 5182 (Part 19) - 1982 |

Note: BDL: - Below Detectable Limit

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TEST REPORT

Test Report No.: EP/UPL-2/2020/54-04 Issue Date: 26 / 05 / 20

| | | | |
|--|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Stack attached to Boiler GT-9227(New Boiler) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 20 / 05 / 20 | | |
| Sample Received Date | : 21 / 05 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 21 / 05 / 20 | Date of Completion | : 25 / 05 / 20 |
| Sampling Method | : IS 11255 | Sample ID | : EP/ST/0520/04 |
| Duration of sampling (min.) | : 60 min | Fuel | : Natural gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|------------------------------------|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 115 | - | - |
| 3. | Avg. Velocity | m/s | 7.2 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg flow rate | m ³ /hr. | 12924 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.9 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 4.5 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | ppm | 9.1 | 100 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NOx) | ppm | 23.8 | 50 | IS : 11255 (Part 7) - 2005 |

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202101



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TEST REPORT

Test Report No.: EP/UPL-2/2020/71-01 Issue Date: 09 / 06 / 20

| | | | |
|---|--|------------------------|---------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | Fume Incinerator attached to Terbuphos | Quantity/No. of Sample | 1 / 1 No |
| Sampling By | ENPRO Team | Packing/Seal | Sealed |
| Date of Sampling | 04 / 06 / 20 | | |
| Sample Received Date | 05 / 06 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 05 / 06 / 20 | Date of Completion | 08 / 06 / 20 |
| Sampling Method | As per IS:11255 & EPA | Sample ID | EP/ST/0620/01 |
| Duration of sampling (min.) | 60 min | Fuel | Natural Gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 168 | - | - |
| 3. | Avg. Velocity | m/s | 8.6 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 6218 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.6 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 6.1 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | mg/Nm ³ | 17.5 | 40 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NO _x) | mg/Nm ³ | 11.4 | 25 | IS: 11255 (Part 7) -2005 |
| 9. | Hydrochloride (HCl) | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |

Note: BDL: - Below Detectable Limit


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TEST REPORT

Test Report No.: **EP/UPL-2/2020/71-02** Issue Date: **09 / 06 / 20**

| | | | |
|--|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Stack attached to Ammoniation (Acephate Plant) | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 06 / 20 | | |
| Sample Received Date | : 05 / 06 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 06 / 20 | Date of Completion | : 08 / 06 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : EP/ST/0620/02 |
| Duration of sampling (min.) | : 15 min. | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|-----------------------------|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 34 | - | - |
| 3. | Avg. Velocity | m/s | 12.8 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 5327 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.4 | - | - |
| 6. | Ammonia (NH ₃) | mg/Nm ³ | BDL | 30 | IS : 11255 (Part 6) - 1999 |
| 7. | HCl | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |
| 8. | Chlorine (Cl ₂) | mg/Nm ³ | BDL | 5 | IS: 5182 (Part 19) - 1982 |

Note: BDL: - Below Detectable Limit

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202101



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TEST REPORT

Test Report No.: **EP/UPL-2/2020/71-03** Issue Date: **09 / 06 / 20**

| | | | |
|--|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Stack attached to Boiler GT-9227(New Boiler) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 06 / 20 | | |
| Sample Received Date | : 05 / 06 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 06 / 20 | Date of Completion | : 08 / 06 / 20 |
| Sampling Method | : IS 11255 | Sample ID | : EP/ST/0620/03 |
| Duration of sampling (min.) | : 60 min | Fuel | : Natural gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 119 | - | - |
| 3. | Avg. Velocity | m/s | 7.8 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 12745 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.9 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 5.4 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | ppm | 10.3 | 100 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NO _x) | ppm | 21.8 | 50 | IS : 11255 (Part 7) - 2005 |

[Signature]
ANALYSED BY

[Signature]
AUTHORIZED SIGNATORY

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 ULR NO : TC58852000002115F



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TEST REPORT

| | |
|---|-------------------------------------|
| Test Report No.: TC58852000002115F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|---|------------------------|----------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No. -3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | Stack attached to Boiler GT 9227 | Quantity/No. of Sample | 1 / 1 No. |
| Sampling By | Mr. Mahesh Choksi | Packing/Seal | Sealed |
| Date of Sampling | 04 / 07 / 20 | | |
| Sample Received Date | 06 / 07 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 06 / 07 / 20 | Date of Completion | 07 / 07 / 20 |
| Sampling Method | IS : 11255 | Sample ID | 0720/ST2115 |
| Duration of sampling (min.) | 60 min | Fuel | Natural Gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|--|---------------------|---------|------------|------------------------------------|
| 1. | Temperature | °C | 110 | - | - |
| 2. | Diameter | m | 0.9 | - | - |
| 3. | Velocity | m/s | 7.1 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 4. | Flow Rate | Nm ³ /hr | 35928 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 5. | Particulate Matter (PM) | mg/Nm ³ | 4.9 | 150 | IS:11255 (Part 1) – 1985 (RA 2019) |
| 6. | Sulphur Dioxide (SO ₂) | ppm | 8.6 | 100 | IS:11255 (Part 2) – 1985 (RA 2019) |
| 7. | Oxides of Nitrogen (as NO ₂) | ppm | 19.5 | 50 | IS: 11255 (Part 7) – 2005 (RA2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
 (Environmental Testing Laboratory)

(Signature)

CHECKED BY
Prashant Dumasiya (Dy.TM)

(Signature)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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TEST REPORT

| | |
|---|-------------------------------------|
| Test Report No. : TC588520000002116F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|--|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack Attached to DG Set 1250 KVA (old) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Mahesh Choksi | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 07 / 20 | | |
| Sample Received Date | : 06 / 07 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 07 / 20 | Date of Completion | : 07 / 07 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0720/ST2116 |
| Duration of sampling (min.) | : 60 min | Fuel | : Diesel |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|--|---------------------|---------|------------|------------------------------------|
| 1. | Temperature | °C | 112 | - | - |
| 2. | Diameter | m | 0.2 | - | - |
| 3. | Velocity | m/s | 11.7 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 4. | Flow Rate | Nm ³ /hr | 1453 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 5. | Particulate Matter (PM) | mg/Nm ³ | 73 | 150 | IS:11255 (Part 1) – 1985 (RA 2019) |
| 6. | Sulphur Dioxide (SO ₂) | ppm | 38.5 | 100 | IS:11255 (Part 2) – 1985 (RA 2019) |
| 7. | Oxides of Nitrogen (as NO ₂) | ppm | 24.1 | 50 | IS: 11255 (Part 7) – 2005 (RA2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
 (Environmental Testing Laboratory)

(Signature)

CHECKED BY
Prashant Dumasiya (Dy.TM)

(Signature)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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TEST REPORT

| | |
|--|-------------------------------------|
| Test Report No. : TC58852000002117F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|--|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to DG Set 810 KVA(New) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Mahesh Choksi | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 07 / 20 | | |
| Sample Received Date | : 06 / 07 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 07 / 20 | Date of Completion | : 07 / 07 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0720/ST2117 |
| Duration of sampling (min.) | : 60 min | Fuel | : Diesel |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|--|---------------------|---------|------------|------------------------------------|
| 1. | Temperature | °C | 103 | - | - |
| 2. | Diameter | m | 0.2 | - | - |
| 3. | Velocity | m/s | 9.57 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 4. | Flow Rate | Nm ³ /hr | 1329 | - | IS:11255 (Part 3) – 2008 (RA 2018) |
| 5. | Particulate Matter (PM) | mg/Nm ³ | 61 | 150 | IS:11255 (Part 1) – 1985 (RA 2019) |
| 6. | Sulphur Dioxide (SO ₂) | ppm | 31.6 | 100 | IS:11255 (Part 2) – 1985 (RA 2019) |
| 7. | Oxides of Nitrogen (as NO ₂) | ppm | 19.5 | 50 | IS: 11255 (Part 7) – 2005 (RA2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
 (Environmental Testing Laboratory)

Prashant Dumasia

CHECKED BY
Prashant Dumasia (Dy.TM)

C. A. Desai

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TEST REPORT

| | |
|------------------------------------|------------------------------|
| Test Report No.: TC58852000002118F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Mahesh Choksi | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 07 / 20 | | |
| Sample Received Date | : 06 / 07 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 07 / 20 | Date of Completion | : 07 / 07 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0720/ST2118 |
| Duration of sampling (min.) | : 60 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------------------|--------------------|---------|------------|---|
| 1. | Diameter | m | 0.4 | - | - |
| 2. | Ammonia (NH3) | mg/Nm ³ | 5.8 | 30 | IS: 11255 (Part 6) - 1999 (RA 2019) |
| 3. | Chlorine(Cl ₂) | mg/Nm ³ | BDL | 5 | SOP No.-WI/ST/07 (Issue No. 02 & Issue Date: 02/09/19) |

Note: -BDL: Below Detectable Limit (Cl₂<0.05)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
(Environmental Testing Laboratory)

Prashant Dumasiya

CHECKED BY
Prashant Dumasiya (Dy.TM)

Chintan Desai

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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TEST REPORT

| | |
|-------------------------------------|------------------------------|
| Test Report No.: TC588520000002119F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|---|------------------------|---------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | Stack attached to Neutralization- Alkali Scrubber (Deta/Zn DTP Plant) | Quantity/No. of Sample | 1 / 1 No. |
| Sampling By | Mr. Mahesh Choksi | Packing/Seal | Sealed |
| Date of Sampling | 04 / 07 / 20 | | |
| Sample Received Date | 06 / 07 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 06 / 07 / 20 | Date of Completion | 07 / 07 / 20 |
| Sampling Method | IS : 11255 | Sample ID | 0720/ST2119 |
| Duration of sampling (min.) | 20 min | Fuel | -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|-------------------------------------|--------------------|---------|------------|------------------------------------|
| 1. | Diameter | m | 0.2 | - | - |
| 2. | Hydrogen Sulphide(H ₂ S) | mg/Nm ³ | BDL | 5 | IS:11255 (Part-4) - 1999 (RA 2017) |

Note: -BDL: Below Detectable Limit(H₂S<1.5)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
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AUTHORIZED SIGNATORY
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TEST REPORT

Test Report No.: **EP/UPL-2/2020/07/01** Issue Date: **07 / 07 / 20**

| | | | |
|--|---|------------------------|----------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C. Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | 1 / 1 No. |
| Sampling By | Mr. Mahesh Choksi | Packing/Seal | Sealed |
| Date of Sampling | 04 / 07 / 20 | | |
| Sample Received Date | 06 / 07 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 06 / 07 / 20 | Date of Completion | 07 / 07 / 20 |
| Sampling Method | IS : 11255 | Sample ID | 0720/ST01 |
| Duration of sampling (min.) | 30 min | Fuel | -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------|--------------------|---------|------------|------------------|
| 1. | Diameter | m | 0.2 | - | - |
| 2. | HCl | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |

Note: -BDL: Below Detectable Limit

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
(Environmental Testing Laboratory)

CHECKED BY
Prashant Dumasija (Dy.TM)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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TEST REPORT



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| | |
|------------------------------------|------------------------------|
| Test Report No.: TC58852000002630F | Issue Date: 07 / 08 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |


| | | | |
|--|---------------------------------------|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to Boiler GT 9227 | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 05 / 08 / 20 | | |
| Sample Received Date | : 06 / 08 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 08 / 20 | Date of Completion | : 07 / 08 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0820/ST2630 |
| Duration of sampling (min.) | : 60 min | Fuel | : Natural Gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|--|---------------------|---------|------------|--------------------------------------|
| 1. | Temperature | °C | 116 | - | - |
| 2. | Diameter | m | 0.9 | - | - |
| 3. | Velocity | m/s | 7.5 | - | IS : 11255 (Part 3) – 2008 (RA 2018) |
| 4. | Flow Rate | Nm ³ /hr | 21870 | - | IS : 11255 (Part 3) – 2008 (RA 2018) |
| 5. | Particulate Matter (PM) | mg/Nm ³ | 5.2 | 150 | IS : 11255 (Part 1) – 1985 (RA 2019) |
| 6. | Sulphur Dioxide (SO ₂) | ppm | 9.2 | 100 | IS : 11255 (Part 2) – 1985 (RA 2019) |
| 7. | Oxides of Nitrogen (as NO ₂) | ppm | 22.0 | 50 | IS : 11255 (Part 7) – 2005 (RA 2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)


CHECKED BY
Prashant Dumasiya (Dy.TM)


AUTHORIZED SIGNATORY
Chintan Desai (TM)

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ULR NO : TC588520000002631F

TEST REPORT

| | |
|-------------------------------------|------------------------------|
| Test Report No.: TC588520000002631F | Issue Date: 07 / 08 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 05 / 08 / 20 | | |
| Sample Received Date | : 06 / 08 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 08 / 20 | Date of Completion | : 07 / 08 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0820/ST2631 |
| Duration of sampling (min.) | : 60 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------------------|--------------------|---------|------------|--|
| 1. | Diameter | m | 0.4 | - | - |
| 2. | Ammonia (NH ₃) | mg/Nm ³ | 6.1 | 30 | IS: 11255 (Part 6) - 1999 (RA 2019) |
| 3. | Chlorine(Cl ₂) | mg/Nm ³ | BDL | 5 | SOP No.-WI/ST/07 (Issue No. 02 & Issue Date: 02/09/19) |

Note: -BDL: Below Detectable Limit (Cl₂<0.05)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

Prashant Dumasiya

CHECKED BY
Prashant Dumasiya (Dy.TM)

C. R. Desai

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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TEST REPORT

| | |
|---------------------------------------|------------------------------|
| Test Report No.: EP/UPL-2/0820/ST2631 | Issue Date: 07 / 08 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 05 / 08 / 20 | | |
| Sample Received Date | : 06 / 08 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 08 / 20 | Date of Completion | : 07 / 08 / 20 |
| Sampling Method | : USEPA | Sample ID | : 0820/ST2631 |
| Duration of sampling (min.) | : 30 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULT | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------|--------|--------|------------|------------------|
| 1. | Diameter | m | 0.2 | - | - |
| 2. | HCl | mg/Nm3 | BDL | 20 | USEPA Part-0050 |

Note: -BDL: Below Detectable Limit

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY
Prashant Dumasia (Dy.TM)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

Note : This report is subject to terms & conditions mentioned overleaf.

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202101

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Page No. : 1 of 1
ULR NO : TC588520000002632F

TEST REPORT



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| | |
|------------------------------------|------------------------------|
| Test Report No.:TC588520000002632F | Issue Date: 07 / 08 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to Neutralization- Alkali Scrubber (Deta/Zn DTP Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 05 / 08 / 20 | | |
| Sample Received Date | : 06 / 08 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 06 / 08 / 20 | Date of Completion | : 07 / 08 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0720/ST2632 |
| Duration of sampling (min.) | : 20 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULT | GPCB LIMIT | METHOD REFERENCE |
|---------|--------------------------------------|--------------------|--------|------------|------------------------------------|
| 1. | Diameter | m | 0.2 | - | - |
| 2. | Hydrogen Sulphide (H ₂ S) | mg/Nm ³ | BDL | 5 | IS:11255 (Part-4) - 1999 (RA 2017) |

Note: -BDL: Below Detectable Limit(H₂S<1.5)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY
Prashant Dumasija (Dy.TM)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

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Page No. : 1 of 2
ULR NO : TC58852000003324F

TEST REPORT

Test Report No.: **TC58852000003324F** Issue Date: **08 / 09 / 20**
Discipline: **Chemical** Group: **Atmospheric Pollution**

| | | | |
|---|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | | |
| Sample Received Date | : 05 / 09 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0920/ST3324 |
| Duration of sampling | : 60 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------------------|--------------------|---------|------------|--|
| 1. | Diameter | m | 0.4 | - | - |
| 2. | Ammonia (NH ₃) | mg/Nm ³ | 5.3 | 30 | IS: 11255 (Part 6) - 1999 (RA 2019) |
| 3. | Chlorine(Cl ₂) | mg/Nm ³ | BDL | 5 | SOP No.-WI/ST/07 (Issue No. 02 & Issue Date: 02/09/19) |

Note: -BDL: Below Detectable Limit (Cl₂<0.05)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY
Prashant Dumasiya (Dy.TM)

C. R. Desai
AUTHORIZED SIGNATORY
Chintan Desai (TM)

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| Page No. : 2 of 2 |
| ULR NO : N.A. |



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TEST REPORT

| | |
|--|-------------------------------------|
| Test Report No.: EP/UPL-2/0820/ST3324 | Issue Date: 08 / 09 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |


| | | | |
|---|---|------------------------|------------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to NH3 Scrubber (Acephat Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | | |
| Sample Received Date | : 05 / 09 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Sampling Method | : USEPA | Sample ID | : 0920/ST3324 |
| Duration of sampling | : 30 min | Fuel | : -- |


RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULT | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------|--------------------|--------|------------|------------------|
| 1. | HCl | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |

Note: -BDL: Below Detectable Limit

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)


CHECKED BY
Prashant Dumasia (Dy.TM)


AUTHORIZED SIGNATORY
Chintan Desai (TM)

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Page No. : 1 of 1
ULR NO : TC588520000003325F

TEST REPORT

Test Report No.: TC588520000003325F Issue Date: 08 / 09 / 20
Discipline: Chemical Group: Atmospheric Pollution

| | | | |
|--|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Fume Incinerator attached to Terbuphos | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Sample Received Date | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Date of Starting of Test | : 05 / 09 / 20 | Sample ID | : 0920/ST3325 |
| Sampling Method | : IS : 11255 | Fuel | : Natural Gas |
| Duration of sampling | : 60 min | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|--|---------------------|---------|------------|--------------------------------------|
| 1. | Temperature | °C | 173 | - | - |
| 2. | Diameter | m | 0.6 | - | - |
| 3. | Velocity | m/s | 9.02 | - | IS : 11255 (Part 3) – 2008 (RA 2018) |
| 4. | Flow Rate | Nm ³ /hr | 13435 | - | IS : 11255 (Part 3) – 2008 (RA 2018) |
| 5. | Particulate Matter (PM) | mg/Nm ³ | 6.9 | 150 | IS : 11255 (Part 1) – 1985 (RA 2019) |
| 6. | Sulphur Dioxide (SO ₂) | mg/Nm ³ | 19.4 | 40 | IS : 11255 (Part 2) – 1985 (RA 2019) |
| 7. | Oxides of Nitrogen (as NO _x) | mg/Nm ³ | 15.1 | 25 | IS : 11255 (Part 7) – 2005 (RA 2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY

Prashant Dumasiya (Dy.TM)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

Note : This report is subject to terms & conditions mentioned overleaf.

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TC-5885

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Page No. : 2 of 2

ULR NO : N.A.

TEST REPORT

| | |
|--------------------------------------|------------------------------|
| Test Report No.:EP/UPL-2/0920/ST3325 | Issue Date: 08 / 09 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Fume Incinerator attached to Terbuphos | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | | |
| Sample Received Date | : 05 / 09 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Sampling Method | : USEPA | Sample ID | : 0920/ST3325 |
| Duration of sampling | : 30 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULT | GPCB LIMIT | METHOD REFERENCE |
|---------|----------------|--------------------|--------|------------|------------------|
| 1. | HCl | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |

Note: -BDL: Below Detectable Limit

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

Prashant Dumasia
CHECKED BY
Prashant Dumasia (Dy.TM)

C.R. Desai
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Format No. : QR/7.8/01
Page No. : 1 of 1
ULR NO : TC58852000003326F

TEST REPORT

Test Report No.:TC58852000003326F Issue Date: 08 / 09 / 20
Discipline: Chemical Group: Atmospheric Pollution

| | | | |
|--|--|------------------------|-----------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Stack attached to Neutralization- Alkali Scrubber (Deta/Zn DTP Plant) | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | | |
| Sample Received Date | : 05 / 09 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Sampling Method | : IS : 11255 | Sample ID | : 0920/ST3326 |
| Duration of sampling | : 20 min | Fuel | : -- |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULT | GPCB LIMIT | METHOD REFERENCE |
|---------|--------------------------------------|--------------------|--------|------------|------------------------------------|
| 1. | Diameter | m | 0.15 | - | - |
| 2. | Hydrogen Sulphide (H ₂ S) | mg/Nm ³ | BDL | 5 | IS:11255 (Part-4) - 1999 (RA 2017) |

Note: -BDL: Below Detectable Limit(H₂S<1.5)

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY
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202102

UPL LIMITED. UNIT - 2
AMBIENT AIR ANALYSIS REPORT
Q.A. DEPT. MONTH APRIL - 2020

F/QA/216

02.05.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 01/04/2020 | 72.20 | 40.1 | 22.10 | 24.40 | 11.50 | BDL | ..... |
| SCRAP YARD | 03/04/2020 | 70.10 | ..... | 21.10 | 23.10 | 8.20 | ..... | BDL |
| SCRAP YARD | 05/04/2020 | 61.20 | ..... | 19.20 | 22.50 | 7.20 | BDL | ..... |
| SCRAP YARD | 07/04/2020 | 63.30 | 39.6 | 18.20 | 24.50 | 5.63 | ..... | BDL |
| SCRAP YARD | 09/04/2020 | 61.80 | ..... | 18.60 | 24.90 | 6.52 | BDL | ..... |
| SCRAP YARD | 11/04/2020 | 56.90 | ..... | 19.60 | 20.60 | 4.99 | ..... | BDL |
| SCRAP YARD | 13/04/2020 | 59.10 | 35.5 | 20.20 | 25.10 | 5.70 | BDL | ..... |
| SCRAP YARD | 15/04/2020 | 64.50 | ..... | 17.40 | 24.70 | 8.90 | ..... | BDL |
| SCRAP YARD | 17/04/2020 | 62.10 | ..... | 21.50 | 23.30 | 10.90 | BDL | ..... |
| SCRAP YARD | 19/04/2020 | 60.20 | 37.7 | 20.40 | 20.90 | 11.60 | ..... | BDL |
| SCRAP YARD | 21/04/2020 | 52.10 | ..... | 17.60 | 21.20 | 4.10 | BDL | ..... |
| SCRAP YARD | 23/04/2020 | 54.50 | ..... | 15.50 | 19.60 | 5.80 | ..... | BDL |
| SCRAP YARD | 25/04/2020 | 52.90 | 32.1 | 16.90 | 20.20 | 6.63 | BDL | ..... |
| SCRAP YARD | 27/04/2020 | 53.20 | ..... | 14.50 | 21.20 | 7.71 | ..... | BDL |
| SCRAP YARD | 29/04/2020 | 52.50 | ..... | 17.90 | 22.30 | 7.66 | BDL | ..... |
| | Maximum | 72.2 | 40.1 | 22.1 | 25.1 | 11.6 | 0 | 0 |
| | Minimum | 52.1 | 32.1 | 14.5 | 19.6 | 4.1 | 0 | 0 |
| | Average | 59.8 | 37.0 | 18.7 | 22.6 | 7.5 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
AMBIENT AIR ANALYSIS REPORT
Q.A. DEPT. MONTH MAY - 2020

F/QA/216

02.06.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 01/05/2020 | 56.22 | 32.3 | 19.20 | 23.50 | 7.96 | ..... | BDL |
| SCRAP YARD | 03/05/2020 | 62.30 | ..... | 20.50 | 26.90 | 16.20 | BDL | ..... |
| SCRAP YARD | 05/05/2020 | 71.20 | ..... | 19.41 | 25.12 | 14.10 | ..... | BDL |
| SCRAP YARD | 07/05/2020 | 65.10 | 37.2 | 23.30 | 30.33 | 10.52 | BDL | ..... |
| SCRAP YARD | 09/05/2020 | 58.20 | ..... | 21.10 | 28.45 | 16.20 | ..... | BDL |
| SCRAP YARD | 11/05/2020 | 55.20 | ..... | 17.41 | 23.45 | 8.96 | BDL | ..... |
| SCRAP YARD | 13/05/2020 | 51.63 | 42.1 | 19.63 | 22.63 | 11.66 | ..... | BDL |
| SCRAP YARD | 15/05/2020 | 61.80 | ..... | 24.10 | 31.20 | 7.20 | BDL | ..... |
| SCRAP YARD | 17/05/2020 | 64.80 | ..... | 20.50 | 25.10 | 15.20 | ..... | BDL |
| SCRAP YARD | 19/05/2020 | 56.41 | 35.6 | 18.56 | 23.56 | 8.20 | BDL | ..... |
| SCRAP YARD | 21/05/2020 | 60.60 | ..... | 21.50 | 37.82 | 5.20 | ..... | BDL |
| SCRAP YARD | 23/05/2020 | 65.20 | ..... | 16.63 | 24.10 | 17.20 | BDL | ..... |
| SCRAP YARD | 25/05/2020 | 53.44 | 39.7 | 22.20 | 28.52 | 20.20 | ..... | BDL |
| SCRAP YARD | 27/05/2020 | 61.20 | ..... | 20.75 | 25.78 | 12.52 | BDL | ..... |
| SCRAP YARD | 29/05/2020 | 62.20 | ..... | 19.66 | 26.89 | 9.30 | ..... | BDL |
| SCRAP YARD | 31/05/2020 | 53.74 | 36.6 | 21.44 | 29.30 | 14.10 | BDL | ..... |
| | Maximum | 71.2 | 42.1 | 24.1 | 37.8 | 20.2 | 0 | 0 |
| | Minimum | 51.6 | 32.3 | 16.6 | 22.6 | 5.2 | 0 | 0 |
| | Average | 60.0 | 37.3 | 20.4 | 27.0 | 12.2 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT. MONTH JUNE - 2020**

F/QA/216

02.07.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 02/06/2020 | 59.20 | 39.5 | 20.10 | 26.55 | 14.45 | BDL | ..... |
| SCRAP YARD | 04/06/2020 | 52.30 | ..... | 16.55 | 22.30 | 18.20 | ..... | BDL |
| SCRAP YARD | 06/06/2020 | 59.63 | ..... | 20.11 | 28.52 | 20.50 | BDL | ..... |
| SCRAP YARD | 08/06/2020 | 55.22 | 43.3 | 22.20 | 31.30 | 25.63 | ..... | BDL |
| SCRAP YARD | 10/06/2020 | 63.00 | ..... | 20.44 | 28.45 | 20.41 | BDL | ..... |
| SCRAP YARD | 12/06/2020 | 72.52 | ..... | 16.63 | 24.62 | 14.52 | ..... | BDL |
| SCRAP YARD | 14/06/2020 | 58.10 | 40.1 | 20.65 | 29.48 | 20.47 | BDL | ..... |
| SCRAP YARD | 16/06/2020 | 62.10 | ..... | 14.52 | 24.78 | 16.45 | ..... | BDL |
| SCRAP YARD | 18/06/2020 | 55.52 | ..... | 19.20 | 29.19 | 20.50 | BDL | ..... |
| SCRAP YARD | 20/06/2020 | 60.20 | 37.9 | 21.45 | 27.85 | 11.20 | ..... | BDL |
| SCRAP YARD | 22/06/2020 | 66.44 | ..... | 19.80 | 27.90 | 20.52 | BDL | ..... |
| SCRAP YARD | 24/06/2020 | 62.44 | ..... | 22.63 | 32.30 | 24.20 | ..... | BDL |
| SCRAP YARD | 26/06/2020 | 60.20 | 35.5 | 16.21 | 26.41 | 20.20 | BDL | ..... |
| SCRAP YARD | 28/06/2020 | 61.20 | ..... | 16.80 | 21.20 | 16.10 | ..... | BDL |
| SCRAP YARD | 30/06/2020 | 51.52 | ..... | 19.10 | 23.55 | 6.50 | BDL | ..... |
| | Maximum | 72.5 | 43.3 | 22.6 | 32.3 | 25.6 | 0 | 0 |
| | Minimum | 51.5 | 35.5 | 14.5 | 21.2 | 6.5 | 0 | 0 |
| | Average | 60.0 | 39.3 | 19.1 | 27.0 | 18.0 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH JULY - 2020**

F/QA/216

02.08.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 02/07/2020 | 60.20 | 35.2 | 18.20 | 22.20 | 13.30 | BDL | ..... |
| SCRAP YARD | 04/07/2020 | 52.20 | ..... | 20.10 | 21.10 | 15.50 | ..... | BDL |
| SCRAP YARD | 06/07/2020 | 55.20 | ..... | 17.20 | 24.50 | 24.10 | BDL | ..... |
| SCRAP YARD | 08/07/2020 | 54.10 | 40.2 | 21.10 | 23.50 | 21.10 | ..... | BDL |
| SCRAP YARD | 10/07/2020 | 53.60 | ..... | 18.30 | 27.20 | 15.60 | BDL | ..... |
| SCRAP YARD | 12/07/2020 | 67.40 | ..... | 19.20 | 22.20 | 20.10 | ..... | BDL |
| SCRAP YARD | 14/07/2020 | 65.50 | 38.2 | 21.50 | 23.60 | 16.20 | BDL | ..... |
| SCRAP YARD | 16/07/2020 | 64.10 | ..... | 14.50 | 24.80 | 14.20 | ..... | BDL |
| SCRAP YARD | 18/07/2020 | 58.20 | ..... | 16.20 | 27.10 | 11.20 | BDL | ..... |
| SCRAP YARD | 20/07/2020 | 64.20 | 39.2 | 18.20 | 32.20 | 18.20 | ..... | BDL |
| SCRAP YARD | 22/07/2020 | 68.20 | ..... | 21.20 | 31.10 | 20.20 | BDL | ..... |
| SCRAP YARD | 24/07/2020 | 65.20 | ..... | 24.10 | 29.10 | 18.20 | ..... | BDL |
| SCRAP YARD | 26/07/2020 | 56.20 | 39.1 | 13.30 | 24.40 | 15.20 | BDL | ..... |
| SCRAP YARD | 28/07/2020 | 56.80 | ..... | 18.70 | 25.20 | 19.40 | ..... | BDL |
| SCRAP YARD | 30/07/2020 | 58.20 | ..... | 20.10 | 26.20 | 10.20 | BDL | ..... |
| | Maximum | 68.2 | 40.2 | 24.1 | 32.2 | 24.1 | 0 | 0 |
| | Minimum | 52.2 | 35.2 | 13.3 | 21.1 | 10.2 | 0 | 0 |
| | Average | 60.0 | 38.4 | 18.8 | 25.6 | 16.8 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH AUGUST - 2020

F/QA/216

02.09.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 01/08/2020 | 55.90 | 42.5 | 20.20 | 30.30 | 10.50 | ..... | BDL |
| SCRAP YARD | 03/08/2020 | 59.50 | ..... | 11.60 | 31.20 | 16.60 | BDL | ..... |
| SCRAP YARD | 05/08/2020 | 53.50 | ..... | 15.40 | 35.50 | 19.90 | ..... | BDL |
| SCRAP YARD | 07/08/2020 | 71.10 | 41.40 | 16.20 | 20.50 | 24.50 | BDL | ..... |
| SCRAP YARD | 09/08/2020 | 55.90 | ..... | 14.20 | 24.50 | 32.20 | ..... | BDL |
| SCRAP YARD | 11/08/2020 | 70.10 | ..... | 20.20 | 28.80 | 12.20 | BDL | ..... |
| SCRAP YARD | 13/08/2020 | 62.10 | 45.20 | 10.50 | 29.20 | 11.10 | ..... | BDL |
| SCRAP YARD | 15/08/2020 | 55.50 | ..... | 9.20 | 30.30 | 10.20 | BDL | ..... |
| SCRAP YARD | 17/08/2020 | 50.20 | ..... | 7.80 | 24.40 | 5.50 | ..... | BDL |
| SCRAP YARD | 19/08/2020 | 60.20 | 35.40 | 16.80 | 29.60 | 8.80 | BDL | ..... |
| SCRAP YARD | 21/08/2020 | 57.40 | ..... | 13.20 | 26.60 | 14.40 | ..... | BDL |
| SCRAP YARD | 23/08/2020 | 58.70 | ..... | 12.40 | 24.40 | 16.60 | BDL | ..... |
| SCRAP YARD | 25/08/2020 | 53.50 | 39.90 | 10.70 | 20.20 | 28.20 | ..... | BDL |
| SCRAP YARD | 27/08/2020 | 65.20 | ..... | 17.20 | 34.40 | 21.10 | BDL | ..... |
| SCRAP YARD | 29/08/2020 | 61.20 | ..... | 19.20 | 32.10 | 16.60 | ..... | BDL |
| SCRAP YARD | 31/08/2020 | 70.20 | 41.90 | 21.20 | 36.60 | 22.20 | BDL | ..... |
| | Maximum | 71.1 | 45.2 | 21.2 | 36.6 | 32.2 | 0 | 0 |
| | Minimum | 50.2 | 35.4 | 7.8 | 20.2 | 5.5 | 0 | 0 |
| | Average | 60.0 | 41.1 | 14.8 | 28.7 | 16.9 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH SEPTEMBER - 2020

F/QA/216

02.10.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| SCRAP YARD | 02/09/2020 | 59.20 | 38.2 | 21.20 | 34.20 | 5.20 | BDL | ..... |
| SCRAP YARD | 04/09/2020 | 52.20 | ..... | 18.80 | 30.10 | 14.20 | ..... | BDL |
| SCRAP YARD | 06/09/2020 | 56.70 | ..... | 16.30 | 32.20 | 16.30 | BDL | ..... |
| SCRAP YARD | 08/09/2020 | 72.30 | 45.11 | 18.50 | 29.20 | 10.20 | ..... | BDL |
| SCRAP YARD | 10/09/2020 | 56.20 | ..... | 15.20 | 27.50 | 14.40 | BDL | ..... |
| SCRAP YARD | 12/09/2020 | 68.20 | ..... | 19.90 | 28.80 | 12.20 | ..... | BDL |
| SCRAP YARD | 14/09/2020 | 61.20 | 42.10 | 10.50 | 31.20 | 16.30 | BDL | ..... |
| SCRAP YARD | 16/09/2020 | 54.20 | ..... | 11.62 | 31.45 | 14.89 | ..... | BDL |
| SCRAP YARD | 18/09/2020 | 59.20 | ..... | 16.63 | 30.56 | 9.25 | BDL | ..... |
| SCRAP YARD | 20/09/2020 | 63.30 | 37.89 | 19.56 | 34.20 | 14.22 | ..... | BDL |
| SCRAP YARD | 22/09/2020 | 51.20 | ..... | 11.25 | 26.63 | 13.24 | BDL | ..... |
| SCRAP YARD | 24/09/2020 | 54.66 | ..... | 16.35 | 34.52 | 21.20 | ..... | BDL |
| SCRAP YARD | 26/09/2020 | 56.30 | 40.40 | 21.23 | 38.25 | 15.45 | BDL | ..... |
| SCRAP YARD | 28/09/2020 | 62.20 | ..... | 19.19 | 34.78 | 15.63 | ..... | BDL |
| SCRAP YARD | 30/09/2020 | 72.20 | ..... | 21.20 | 33.63 | 17.20 | BDL | ..... |
| | Maximum | 72.3 | 45.1 | 21.2 | 38.3 | 21.2 | 0 | 0 |
| | Minimum | 51.2 | 37.9 | 10.5 | 26.6 | 5.2 | 0 | 0 |
| | Average | 60.0 | 40.7 | 17.2 | 31.8 | 14.0 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT. MONTH APRIL - 2020**

F/QA/216

02.05.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 01/04/2020 | 54.10 | 34.2 | 17.70 | 22.20 | 10.20 | BDL | ..... |
| ETP AREA | 03/04/2020 | 58.20 | ..... | 19.90 | 21.30 | 14.50 | ..... | BDL |
| ETP AREA | 05/04/2020 | 55.96 | ..... | 21.20 | 25.40 | 9.60 | BDL | ..... |
| ETP AREA | 07/04/2020 | 61.20 | 45.2 | 18.80 | 23.10 | 19.60 | ..... | BDL |
| ETP AREA | 09/04/2020 | 51.20 | ..... | 21.60 | 26.60 | 22.20 | BDL | ..... |
| ETP AREA | 11/04/2020 | 57.70 | ..... | 19.60 | 21.60 | 24.60 | ..... | BDL |
| ETP AREA | 13/04/2020 | 59.90 | 34.6 | 20.20 | 24.70 | 17.40 | BDL | ..... |
| ETP AREA | 15/04/2020 | 65.60 | ..... | 20.20 | 25.40 | 14.60 | ..... | BDL |
| ETP AREA | 17/04/2020 | 70.20 | ..... | 21.30 | 26.10 | 15.20 | BDL | ..... |
| ETP AREA | 19/04/2020 | 75.20 | 45.2 | 24.40 | 28.50 | 7.40 | ..... | BDL |
| ETP AREA | 21/04/2020 | 52.20 | ..... | 26.30 | 30.20 | 16.60 | BDL | ..... |
| ETP AREA | 23/04/2020 | 59.90 | ..... | 19.10 | 24.60 | 14.90 | ..... | BDL |
| ETP AREA | 25/04/2020 | 54.80 | 40.1 | 18.80 | 20.30 | 18.70 | BDL | ..... |
| ETP AREA | 27/04/2020 | 56.60 | ..... | 19.60 | 23.30 | 20.20 | ..... | BDL |
| ETP AREA | 29/04/2020 | 65.50 | ..... | 22.20 | 27.70 | 21.60 | BDL | ..... |
| | Maximum | 75.2 | 45.2 | 26.3 | 30.2 | 24.6 | 0 | 0 |
| | Minimum | 51.2 | 34.2 | 17.7 | 20.3 | 7.4 | 0 | 0 |
| | Average | 59.9 | 39.9 | 20.7 | 24.7 | 16.5 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT. MONTH MAY - 2020**

F/QA/216

02.06.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 01/05/2020 | 60.20 | 42.2 | 18.90 | 23.20 | 16.90 | ..... | BDL |
| ETP AREA | 03/05/2020 | 62.50 | ..... | 20.52 | 26.96 | 18.90 | BDL | ..... |
| ETP AREA | 05/05/2020 | 68.80 | ..... | 21.60 | 29.60 | 22.20 | ..... | BDL |
| ETP AREA | 07/05/2020 | 52.60 | 37.1 | 19.63 | 24.10 | 11.60 | BDL | ..... |
| ETP AREA | 09/05/2020 | 58.20 | ..... | 20.20 | 24.78 | 17.80 | ..... | BDL |
| ETP AREA | 11/05/2020 | 74.10 | ..... | 18.20 | 23.10 | 15.70 | BDL | ..... |
| ETP AREA | 13/05/2020 | 61.10 | 40.5 | 20.50 | 27.10 | 24.45 | ..... | BDL |
| ETP AREA | 15/05/2020 | 55.63 | ..... | 21.80 | 30.20 | 17.41 | BDL | ..... |
| ETP AREA | 17/05/2020 | 59.63 | ..... | 19.60 | 24.80 | 19.30 | ..... | BDL |
| ETP AREA | 19/05/2020 | 66.60 | 38.2 | 17.52 | 26.10 | 8.90 | BDL | ..... |
| ETP AREA | 21/05/2020 | 61.10 | ..... | 21.55 | 26.85 | 16.20 | ..... | BDL |
| ETP AREA | 23/05/2020 | 53.69 | ..... | 18.90 | 27.10 | 11.30 | BDL | ..... |
| ETP AREA | 25/05/2020 | 57.10 | 33.2 | 20.10 | 26.10 | 13.75 | ..... | BDL |
| ETP AREA | 27/05/2020 | 51.20 | ..... | 19.90 | 25.80 | 16.10 | BDL | ..... |
| ETP AREA | 29/05/2020 | 58.10 | ..... | 22.22 | 29.63 | 20.20 | ..... | BDL |
| ETP AREA | 31/05/2020 | 60.20 | 38.2 | 20.20 | 25.60 | 23.30 | BDL | ..... |
| | Maximum | 74.1 | 42.2 | 22.2 | 30.2 | 24.5 | 0 | 0 |
| | Minimum | 51.2 | 33.2 | 17.5 | 23.1 | 8.9 | 0 | 0 |
| | Average | 60.0 | 38.2 | 20.1 | 26.3 | 17.1 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT. MONTH JUNE - 2020**

F/QA/216

02.07.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 02/06/2020 | 63.30 | 42.3 | 20.55 | 25.60 | 19.30 | BDL | ..... |
| ETP AREA | 04/06/2020 | 65.20 | ..... | 21.10 | 27.78 | 20.63 | ..... | BDL |
| ETP AREA | 06/06/2020 | 54.20 | ..... | 14.52 | 24.52 | 16.30 | BDL | ..... |
| ETP AREA | 08/06/2020 | 51.52 | 35.2 | 16.30 | 22.41 | 10.20 | ..... | BDL |
| ETP AREA | 10/06/2020 | 68.52 | ..... | 24.20 | 30.20 | 20.44 | BDL | ..... |
| ETP AREA | 12/06/2020 | 75.20 | ..... | 23.10 | 32.20 | 24.20 | ..... | BDL |
| ETP AREA | 14/06/2020 | 73.20 | 44.4 | 18.20 | 23.11 | 18.45 | BDL | ..... |
| ETP AREA | 16/06/2020 | 60.60 | ..... | 15.60 | 21.52 | 12.15 | ..... | BDL |
| ETP AREA | 18/06/2020 | 54.20 | ..... | 23.78 | 31.52 | 15.52 | BDL | ..... |
| ETP AREA | 20/06/2020 | 51.63 | 33.2 | 21.22 | 29.30 | 13.30 | ..... | BDL |
| ETP AREA | 22/06/2020 | 50.30 | ..... | 20.15 | 27.12 | 16.45 | BDL | ..... |
| ETP AREA | 24/06/2020 | 61.20 | ..... | 18.20 | 27.41 | 26.30 | ..... | BDL |
| ETP AREA | 26/06/2020 | 64.20 | 42.3 | 24.10 | 30.49 | 24.10 | BDL | ..... |
| ETP AREA | 28/06/2020 | 54.63 | ..... | 19.30 | 28.66 | 20.12 | ..... | BDL |
| ETP AREA | 30/06/2020 | 52.30 | ..... | 21.20 | 29.11 | 10.20 | BDL | ..... |
| | Maximum | 75.2 | 44.4 | 24.2 | 32.2 | 26.3 | 0 | 0 |
| | Minimum | 50.3 | 33.2 | 14.5 | 21.5 | 10.2 | 0 | 0 |
| | Average | 60.0 | 39.5 | 20.1 | 27.4 | 17.8 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH JULY - 2020**

F/QA/216

02.08.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 02/07/2020 | 63.46 | 42.8 | 10.46 | 23.46 | 10.00 | BDL | ..... |
| ETP AREA | 04/07/2020 | 64.23 | ..... | 12.46 | 28.46 | 13.49 | ..... | BDL |
| ETP AREA | 06/07/2020 | 55.13 | ..... | 15.49 | 24.35 | 11.97 | BDL | ..... |
| ETP AREA | 08/07/2020 | 51.23 | 36.5 | 10.46 | 23.13 | 11.36 | ..... | BDL |
| ETP AREA | 10/07/2020 | 69.18 | ..... | 11.23 | 31.02 | 13.46 | BDL | ..... |
| ETP AREA | 12/07/2020 | 73.49 | ..... | 12.49 | 33.12 | 14.97 | ..... | BDL |
| ETP AREA | 14/07/2020 | 72.12 | 44.4 | 13.79 | 24.12 | 13.97 | BDL | ..... |
| ETP AREA | 16/07/2020 | 61.67 | ..... | 14.59 | 20.19 | 14.57 | ..... | BDL |
| ETP AREA | 18/07/2020 | 53.89 | ..... | 13.79 | 30.12 | 12.67 | BDL | ..... |
| ETP AREA | 20/07/2020 | 52.19 | 32.5 | 12.49 | 26.13 | 12.64 | ..... | BDL |
| ETP AREA | 22/07/2020 | 50.96 | ..... | 13.97 | 25.19 | 13.56 | BDL | ..... |
| ETP AREA | 24/07/2020 | 62.85 | ..... | 15.64 | 28.79 | 11.48 | ..... | BDL |
| ETP AREA | 26/07/2020 | 63.74 | 42.9 | 11.87 | 30.12 | 10.46 | BDL | ..... |
| ETP AREA | 28/07/2020 | 54.36 | ..... | 13.89 | 30.19 | 10.96 | ..... | BDL |
| ETP AREA | 30/07/2020 | 53.31 | ..... | 12.97 | 30.16 | 11.37 | BDL | ..... |
| | Maximum | 73.5 | 44.4 | 15.6 | 33.1 | 15.0 | 0 | 0 |
| | Minimum | 51.0 | 32.5 | 10.5 | 20.2 | 10.0 | 0 | 0 |
| | Average | 60.1 | 39.8 | 13.0 | 27.2 | 12.5 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH AUGUST - 2020**

F/QA/216

02.09.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 01/08/2020 | 59.50 | 35.5 | 15.20 | 25.50 | 20.10 | ..... | BDL |
| ETP AREA | 03/08/2020 | 60.20 | ..... | 16.20 | 29.30 | 15.50 | BDL | ..... |
| ETP AREA | 05/08/2020 | 55.50 | ..... | 11.10 | 24.10 | 26.50 | ..... | BDL |
| ETP AREA | 07/08/2020 | 52.60 | 32.2 | 19.20 | 28.80 | 29.50 | BDL | ..... |
| ETP AREA | 09/08/2020 | 71.10 | ..... | 16.60 | 29.20 | 21.10 | ..... | BDL |
| ETP AREA | 11/08/2020 | 55.55 | ..... | 8.20 | 26.60 | 15.50 | BDL | ..... |
| ETP AREA | 13/08/2020 | 52.20 | 40.2 | 15.20 | 14.40 | 20.20 | ..... | BDL |
| ETP AREA | 15/08/2020 | 59.60 | ..... | 8.20 | 19.90 | 33.30 | BDL | ..... |
| ETP AREA | 17/08/2020 | 71.01 | ..... | 4.40 | 15.50 | 11.10 | ..... | BDL |
| ETP AREA | 19/08/2020 | 65.10 | 42.2 | 16.60 | 28.70 | 15.50 | BDL | ..... |
| ETP AREA | 21/08/2020 | 52.20 | ..... | 17.70 | 30.30 | 10.20 | ..... | BDL |
| ETP AREA | 23/08/2020 | 57.70 | ..... | 11.10 | 29.10 | 8.20 | BDL | ..... |
| ETP AREA | 25/08/2020 | 56.30 | 36.2 | 12.50 | 26.10 | 14.40 | ..... | BDL |
| ETP AREA | 27/08/2020 | 56.20 | ..... | 16.50 | 28.40 | 12.20 | BDL | ..... |
| ETP AREA | 29/08/2020 | 59.50 | ..... | 14.80 | 29.10 | 10.10 | ..... | BDL |
| ETP AREA | 31/08/2020 | 75.50 | 45.20 | 10.50 | 23.20 | 6.60 | BDL | ..... |
| | Maximum | 75.5 | 45.2 | 19.2 | 30.3 | 33.3 | 0 | 0 |
| | Minimum | 52.2 | 32.2 | 4.4 | 14.4 | 6.6 | 0 | 0 |
| | Average | 60.0 | 38.6 | 13.4 | 25.5 | 16.9 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH SEPTEMBER - 2020**

F/QA/216

02.10.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| ETP AREA | 02/09/2020 | 63.30 | 34.5 | 12.63 | 29.30 | 5.60 | BDL | ..... |
| ETP AREA | 04/09/2020 | 57.20 | ..... | 15.60 | 31.20 | 10.20 | ..... | BDL |
| ETP AREA | 06/09/2020 | 58.20 | ..... | 8.20 | 33.30 | 15.20 | BDL | ..... |
| ETP AREA | 08/09/2020 | 59.10 | 41.2 | 17.20 | 27.20 | 20.20 | ..... | BDL |
| ETP AREA | 10/09/2020 | 61.10 | ..... | 14.30 | 25.20 | 14.20 | BDL | ..... |
| ETP AREA | 12/09/2020 | 51.20 | ..... | 13.50 | 21.20 | 19.30 | ..... | BDL |
| ETP AREA | 14/09/2020 | 70.20 | 44.4 | 11.90 | 27.50 | 12.20 | BDL | ..... |
| ETP AREA | 16/09/2020 | 75.50 | ..... | 16.60 | 28.20 | 10.30 | ..... | BDL |
| ETP AREA | 18/09/2020 | 57.70 | ..... | 18.90 | 31.20 | 14.20 | BDL | ..... |
| ETP AREA | 20/09/2020 | 58.60 | 38.2 | 20.20 | 26.60 | 16.30 | ..... | BDL |
| ETP AREA | 22/09/2020 | 63.30 | ..... | 11.60 | 23.50 | 20.20 | BDL | ..... |
| ETP AREA | 24/09/2020 | 60.00 | ..... | 14.80 | 21.10 | 7.80 | ..... | BDL |
| ETP AREA | 26/09/2020 | 52.20 | 29.3 | 16.60 | 30.20 | 11.20 | BDL | ..... |
| ETP AREA | 28/09/2020 | 56.30 | ..... | 19.80 | 27.55 | 16.80 | ..... | BDL |
| ETP AREA | 30/09/2020 | 55.55 | ..... | 11.10 | 22.54 | 17.70 | BDL | ..... |
| | Maximum | 75.5 | 44.4 | 20.2 | 33.3 | 20.2 | 0 | 0 |
| | Minimum | 51.2 | 29.3 | 8.2 | 21.1 | 5.6 | 0 | 0 |
| | Average | 60.0 | 37.5 | 14.9 | 27.1 | 14.1 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
AMBIENT AIR ANALYSIS REPORT
Q.A. DEPT. MONTH APRIL - 2020

F/QA/216

02.05.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 01/04/2020 | 50.10 | 32.1 | 20.20 | 21.10 | 4.52 | BDL | ..... |
| MAIN GATE | 03/04/2020 | 52.60 | ..... | 21.20 | 25.63 | 8.20 | ..... | BDL |
| MAIN GATE | 05/04/2020 | 53.30 | ..... | 18.20 | 22.20 | 5.63 | BDL | ..... |
| MAIN GATE | 07/04/2020 | 49.50 | 30.2 | 22.20 | 25.10 | 6.85 | ..... | BDL |
| MAIN GATE | 09/04/2020 | 45.20 | ..... | 17.20 | 21.20 | 4.20 | BDL | ..... |
| MAIN GATE | 11/04/2020 | 55.50 | ..... | 21.52 | 26.30 | 7.78 | ..... | BDL |
| MAIN GATE | 13/04/2020 | 72.60 | 45.5 | 18.52 | 23.30 | 7.10 | BDL | ..... |
| MAIN GATE | 15/04/2020 | 76.60 | ..... | 22.30 | 25.89 | 4.10 | ..... | BDL |
| MAIN GATE | 17/04/2020 | 65.20 | ..... | 17.20 | 22.56 | 2.20 | BDL | ..... |
| MAIN GATE | 19/04/2020 | 63.00 | 40.2 | 20.20 | 24.40 | 3.63 | ..... | BDL |
| MAIN GATE | 21/04/2020 | 59.60 | ..... | 17.56 | 22.85 | 5.20 | BDL | ..... |
| MAIN GATE | 23/04/2020 | 61.20 | ..... | 20.20 | 24.96 | 6.63 | ..... | BDL |
| MAIN GATE | 25/04/2020 | 72.20 | 44.5 | 21.20 | 24.10 | 5.66 | BDL | ..... |
| MAIN GATE | 27/04/2020 | 62.60 | ..... | 18.20 | 23.30 | 7.10 | ..... | BDL |
| MAIN GATE | 29/04/2020 | 60.20 | ..... | 18.20 | 22.55 | 6.62 | BDL | ..... |
| | Maximum | 76.6 | 45.5 | 22.3 | 26.3 | 8.2 | 0 | 0 |
| | Minimum | 45.2 | 30.2 | 17.2 | 21.1 | 2.2 | 0 | 0 |
| | Average | 60.0 | 38.5 | 19.6 | 23.7 | 5.7 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
AMBIENT AIR ANALYSIS REPORT
Q.A. DEPT. MONTH MAY - 2020

F/QA/216

02.06.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 01/05/2020 | 54.52 | 34.2 | 17.20 | 24.11 | 6.30 | ..... | BDL |
| MAIN GATE | 03/05/2020 | 58.20 | ..... | 18.90 | 25.13 | 9.20 | BDL | ..... |
| MAIN GATE | 05/05/2020 | 53.66 | ..... | 15.20 | 23.63 | 10.60 | ..... | BDL |
| MAIN GATE | 07/05/2020 | 51.20 | 31.2 | 20.10 | 26.45 | 14.40 | BDL | ..... |
| MAIN GATE | 09/05/2020 | 65.50 | ..... | 19.52 | 25.74 | 18.20 | ..... | BDL |
| MAIN GATE | 11/05/2020 | 70.10 | ..... | 21.10 | 28.52 | 20.20 | BDL | ..... |
| MAIN GATE | 13/05/2020 | 55.20 | 38.1 | 16.20 | 24.48 | 10.40 | ..... | BDL |
| MAIN GATE | 15/05/2020 | 66.30 | ..... | 20.20 | 27.12 | 15.50 | BDL | ..... |
| MAIN GATE | 17/05/2020 | 54.99 | ..... | 21.47 | 28.19 | 12.10 | ..... | BDL |
| MAIN GATE | 19/05/2020 | 59.63 | 41.5 | 19.58 | 23.16 | 7.60 | BDL | ..... |
| MAIN GATE | 21/05/2020 | 63.30 | ..... | 22.20 | 29.20 | 9.50 | ..... | BDL |
| MAIN GATE | 23/05/2020 | 69.20 | ..... | 21.45 | 26.45 | 11.50 | BDL | ..... |
| MAIN GATE | 25/05/2020 | 67.90 | 37.5 | 18.63 | 23.11 | 13.30 | ..... | BDL |
| MAIN GATE | 27/05/2020 | 52.90 | ..... | 16.80 | 21.20 | 16.10 | BDL | ..... |
| MAIN GATE | 29/05/2020 | 54.50 | ..... | 19.10 | 23.55 | 6.50 | ..... | BDL |
| MAIN GATE | 31/05/2020 | 62.20 | 39.1 | 21.20 | 27.44 | 4.60 | BDL | ..... |
| | Maximum | 70.1 | 41.5 | 22.2 | 29.2 | 20.2 | 0 | 0 |
| | Minimum | 51.2 | 31.2 | 15.2 | 21.2 | 4.6 | 0 | 0 |
| | Average | 60.0 | 36.9 | 19.3 | 25.5 | 11.6 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT. MONTH JUNE - 2020**

F/QA/216

02.07.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 02/06/2020 | 59.20 | 40.1 | 20.50 | 26.30 | 10.20 | BDL | ..... |
| MAIN GATE | 04/06/2020 | 54.55 | ..... | 19.55 | 25.15 | 14.20 | ..... | BDL |
| MAIN GATE | 06/06/2020 | 59.20 | ..... | 16.30 | 23.20 | 16.30 | BDL | ..... |
| MAIN GATE | 08/06/2020 | 50.30 | 35.1 | 22.20 | 29.30 | 18.52 | ..... | BDL |
| MAIN GATE | 10/06/2020 | 62.30 | ..... | 17.63 | 24.80 | 20.20 | BDL | ..... |
| MAIN GATE | 12/06/2020 | 54.20 | ..... | 22.10 | 30.20 | 25.20 | ..... | BDL |
| MAIN GATE | 14/06/2020 | 55.55 | 39.6 | 24.52 | 31.20 | 27.10 | BDL | ..... |
| MAIN GATE | 16/06/2020 | 67.40 | ..... | 22.88 | 28.20 | 14.20 | ..... | BDL |
| MAIN GATE | 18/06/2020 | 59.20 | ..... | 18.89 | 26.10 | 12.56 | BDL | ..... |
| MAIN GATE | 20/06/2020 | 72.50 | 45.2 | 25.20 | 35.20 | 16.20 | ..... | BDL |
| MAIN GATE | 22/06/2020 | 70.10 | ..... | 23.41 | 33.20 | 14.40 | BDL | ..... |
| MAIN GATE | 24/06/2020 | 65.10 | ..... | 21.30 | 29.41 | 10.80 | ..... | BDL |
| MAIN GATE | 26/06/2020 | 62.20 | 40.4 | 20.63 | 27.41 | 22.20 | BDL | ..... |
| MAIN GATE | 28/06/2020 | 56.20 | ..... | 17.63 | 24.63 | 21.10 | ..... | BDL |
| MAIN GATE | 30/06/2020 | 51.63 | ..... | 18.52 | 26.32 | 17.52 | BDL | ..... |
| | Maximum | 72.5 | 45.2 | 25.2 | 35.2 | 27.1 | 0 | 0 |
| | Minimum | 50.3 | 35.1 | 16.3 | 23.2 | 10.2 | 0 | 0 |
| | Average | 60.0 | 40.1 | 20.8 | 28.0 | 17.4 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH JULY - 2020**

F/QA/216

02.08.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 02/07/2020 | 58.80 | 41.1 | 10.00 | 25.36 | 5.23 | BDL | ..... |
| MAIN GATE | 04/07/2020 | 53.82 | ..... | 13.49 | 25.79 | 3.12 | ..... | BDL |
| MAIN GATE | 06/07/2020 | 53.79 | ..... | 11.97 | 23.45 | 4.12 | BDL | ..... |
| MAIN GATE | 08/07/2020 | 52.86 | 36.1 | 11.36 | 29.34 | 2.79 | ..... | BDL |
| MAIN GATE | 10/07/2020 | 59.32 | ..... | 13.46 | 24.37 | 3.79 | BDL | ..... |
| MAIN GATE | 12/07/2020 | 57.36 | ..... | 14.97 | 30.79 | 4.12 | ..... | BDL |
| MAIN GATE | 14/07/2020 | 54.23 | 36.6 | 13.97 | 32.63 | 3.12 | BDL | ..... |
| MAIN GATE | 16/07/2020 | 62.79 | ..... | 14.57 | 29.34 | 4.89 | ..... | BDL |
| MAIN GATE | 18/07/2020 | 60.79 | ..... | 12.67 | 25.37 | 4.36 | BDL | ..... |
| MAIN GATE | 20/07/2020 | 73.46 | 44.4 | 12.64 | 36.79 | 3.74 | ..... | BDL |
| MAIN GATE | 22/07/2020 | 69.13 | ..... | 13.56 | 34.16 | 2.98 | BDL | ..... |
| MAIN GATE | 24/07/2020 | 64.23 | ..... | 11.48 | 29.12 | 3.46 | ..... | BDL |
| MAIN GATE | 26/07/2020 | 63.45 | 41.2 | 10.46 | 27.46 | 3.29 | BDL | ..... |
| MAIN GATE | 28/07/2020 | 55.43 | ..... | 10.96 | 25.49 | 4.32 | ..... | BDL |
| MAIN GATE | 30/07/2020 | 50.13 | ..... | 11.37 | 25.13 | 5.09 | BDL | ..... |
| | Maximum | 73.5 | 44.4 | 15.0 | 36.8 | 5.2 | 0 | 0 |
| | Minimum | 50.1 | 36.1 | 10.0 | 23.5 | 2.8 | 0 | 0 |
| | Average | 59.3 | 39.9 | 12.5 | 28.3 | 3.9 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH AUGUST - 2020**

F/QA/216

02.09.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 01/08/2020 | 54.20 | 35.2 | 8.20 | 20.20 | 1.20 | ..... | BDL |
| MAIN GATE | 03/08/2020 | 55.20 | ..... | 5.50 | 21.50 | 1.60 | BDL | ..... |
| MAIN GATE | 05/08/2020 | 56.90 | ..... | 12.20 | 18.50 | 2.20 | ..... | BDL |
| MAIN GATE | 07/08/2020 | 59.20 | 36.6 | 8.90 | 19.20 | 2.80 | BDL | ..... |
| MAIN GATE | 09/08/2020 | 65.22 | ..... | 11.10 | 21.00 | 3.60 | ..... | BDL |
| MAIN GATE | 11/08/2020 | 69.20 | ..... | 12.20 | 22.20 | 1.10 | BDL | ..... |
| MAIN GATE | 13/08/2020 | 71.20 | 41.2 | 14.50 | 24.50 | 5.60 | ..... | BDL |
| MAIN GATE | 15/08/2020 | 56.50 | ..... | 9.30 | 19.80 | 3.10 | BDL | ..... |
| MAIN GATE | 17/08/2020 | 51.20 | ..... | 10.10 | 18.20 | 2.20 | ..... | BDL |
| MAIN GATE | 19/08/2020 | 45.50 | 30.2 | 13.30 | 15.50 | 1.40 | BDL | ..... |
| MAIN GATE | 21/08/2020 | 65.50 | ..... | 10.50 | 23.30 | 4.90 | ..... | BDL |
| MAIN GATE | 23/08/2020 | 62.20 | ..... | 7.50 | 20.20 | 5.20 | BDL | ..... |
| MAIN GATE | 25/08/2020 | 72.20 | 42.2 | 15.20 | 26.60 | 6.80 | ..... | BDL |
| MAIN GATE | 27/08/2020 | 73.20 | ..... | 16.60 | 28.80 | 4.40 | BDL | ..... |
| MAIN GATE | 29/08/2020 | 50.20 | ..... | 6.60 | 17.80 | 1.70 | ..... | BDL |
| MAIN GATE | 31/08/2020 | 51.60 | 30.30 | 8.80 | 18.20 | 2.00 | BDL | ..... |
| | Maximum | 73.2 | 42.2 | 16.6 | 28.8 | 6.8 | 0 | 0 |
| | Minimum | 45.5 | 30.2 | 5.5 | 15.5 | 1.1 | 0 | 0 |
| | Average | 60.0 | 36.0 | 10.7 | 21.0 | 3.1 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

**UPL LIMITED. UNIT - 2
 AMBIENT AIR ANALYSIS REPORT
 Q.A. DEPT.
 MONTH SEPTEMBER - 2020**

F/QA/216

02.10.2020

| AREA/ LOCATION | DATE | PM 10 100 µg/m3 | PM 2.5 60 µg/m3 | SO2 80 µg/m3 | NOX 80 µg/m3 | NH3 400 µg/m3 | HCL 200 µg/m3 | CHLORINE 100 µg/m3 |
|-------------------|-------------------|--------------------|--------------------|-----------------|-----------------|------------------|------------------|-----------------------|
| MAIN GATE | 02/09/2020 | 50.20 | 30.2 | 10.20 | 21.20 | 0.56 | BDL | ..... |
| MAIN GATE | 04/09/2020 | 45.50 | ..... | 12.20 | 16.60 | 0.85 | ..... | BDL |
| MAIN GATE | 06/09/2020 | 60.20 | ..... | 8.20 | 19.90 | 0.90 | BDL | ..... |
| MAIN GATE | 08/09/2020 | 56.20 | 33.3 | 7.80 | 21.10 | 1.20 | ..... | BDL |
| MAIN GATE | 10/09/2020 | 51.50 | ..... | 6.63 | 20.50 | 1.56 | BDL | ..... |
| MAIN GATE | 12/09/2020 | 59.20 | ..... | 11.15 | 23.30 | 2.30 | ..... | BDL |
| MAIN GATE | 14/09/2020 | 61.66 | 42.2 | 14.20 | 21.80 | 3.20 | BDL | ..... |
| MAIN GATE | 16/09/2020 | 65.50 | ..... | 9.30 | 17.70 | 1.20 | ..... | BDL |
| MAIN GATE | 18/09/2020 | 69.90 | ..... | 9.00 | 19.60 | 0.74 | BDL | ..... |
| MAIN GATE | 20/09/2020 | 75.50 | 45.5 | 7.52 | 18.20 | 1.90 | ..... | BDL |
| MAIN GATE | 22/09/2020 | 63.30 | ..... | 11.45 | 22.70 | 0.60 | BDL | ..... |
| MAIN GATE | 24/09/2020 | 62.20 | ..... | 12.23 | 24.20 | 0.88 | ..... | BDL |
| MAIN GATE | 26/09/2020 | 65.50 | 39.2 | 14.20 | 28.20 | 2.30 | BDL | ..... |
| MAIN GATE | 28/09/2020 | 59.20 | ..... | 13.35 | 26.20 | 1.63 | ..... | BDL |
| MAIN GATE | 30/09/2020 | 54.55 | ..... | 10.10 | 20.20 | 1.99 | BDL | ..... |
| | Maximum | 75.5 | 45.5 | 14.2 | 28.2 | 3.2 | 0 | 0 |
| | Minimum | 45.5 | 30.2 | 6.6 | 16.6 | 0.6 | 0 | 0 |
| | Average | 60.0 | 38.1 | 10.5 | 21.4 | 1.5 | 0 | 0 |
| | %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)



ENPRO
Environment,
Energy, Water
Project Consultant

TEST REPORT

Test Report No.: EP/UPL-2/2020/54-05 Issue Date: 26 / 05 / 20

| | | | |
|---|--|---------------------------|--------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat. | | | |
| Description of Sample | : Scrap Yard Area | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 20 / 05 / 20 | Duration of Sampling (Hr) | : 24 Hrs |
| Sample Received Date | : 21 / 05 / 20 | Protocol (purpose) | : Ambient Air Monitoring |
| Date of Starting of Test | : 21 / 05 / 20 | Date of Completion | : 25 / 05 / 20 |
| Sampling Method | : IS 5182 & As per Instrument Instruction Manual | Sample ID | : EP/AA/0520/05 |

Atmospheric Condition

| Wind Direction | Weather Condition | Temperature (°C) | |
|----------------|-------------------|------------------|------|
| | | Max. | Min. |
| SW - NE | Sunny | 40 | 23 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|---|-------------------|---------|------------|----------------------------|
| 1. | Respirable Suspended Particulate Matter (PM ₁₀) | µg/m ³ | 84.5 | 100 | IS : 5182 (Part 23) - 2006 |
| 2. | Particulate Matter (PM _{2.5}) | µg/m ³ | 50.1 | 60 | SOP No. - WI/AA/01 |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 26.9 | 80 | IS : 5182 (Part 2) - 2001 |
| 4. | Nitrogen Dioxide (NO ₂) | µg/m ³ | 34.2 | 80 | IS : 5182 (Part 6) - 2006 |

[Signature]
ANALYSED BY

[Signature]
AUTHORIZED SIGNATORY

Note : This report is subject to terms & conditions mentioned overleaf.

ENPRO Enviro Tech and Engineers Pvt. Ltd.

Design, Engineering, Environmental Consulting, Monitoring & Testing Service Provider,
Manufacturing & Supply of Pollution Control Devices.

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Project / Design / Environmental Testing Laboratory :
Plot no. D/29/16, Road No. 17, Hojiwala Industrial Estate,
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E-mail : lab@enpro.co.in, project@enpro.co.in

202101 **896**

TEST REPORT



ENPRO
Environment,
Energy, Water
Project Consultant

Test Report No.: EP/UPL-2/2020/71-04

Issue Date: 09 / 06 / 20

Customer's Name & Address: UPL Ltd. (Unit-2)

Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|--------------------------|--|---------------------------|------------------------|
| Description of Sample | Scrap Yard Area | Quantity/No. of Sample | 1 / 1 No |
| Sampling By | ENPRO Team | Packing/Seal | Sealed |
| Date of Sampling | 04 / 06 / 20 | Duration of Sampling (Hr) | 24 Hrs |
| Sample Received Date | 05 / 06 / 20 | Protocol (purpose) | Ambient Air Monitoring |
| Date of Starting of Test | 05 / 06 / 20 | Date of Completion | 08 / 06 / 20 |
| Sampling Method | IS 5182 & As per Instrument Instruction Manual | Sample ID | EP/AA/0620/04 |

Atmospheric Condition

| Wind Direction | Weather Condition | Temperature (^o C) | |
|----------------|-------------------|-------------------------------|------|
| | | Max. | Min. |
| SW - NE | Cloudy | 38 | 22 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|---|-------------------|---------|------------|----------------------------|
| 1. | Respirable Suspended Particulate Matter (PM ₁₀) | µg/m ³ | 80.3 | 100 | IS : 5182 (Part 23) - 2006 |
| 2. | Particulate Matter (PM _{2.5}) | µg/m ³ | 46.8 | 60 | SOP No. - WI/AA/01 |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 24.7 | 80 | IS : 5182 (Part 2) - 2001 |
| 4. | Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.1 | 80 | IS : 5182 (Part 6) - 2006 |

ANALYSED BY

AUTHORIZED SIGNATORY

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202101

Format No. : QR/7.8/02
Page No. : 1 of 1
ULR NO : TC58852000002120F



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Energy, Water
Project Consultant

TEST REPORT

| | |
|--|-------------------------------------|
| Test Report No. : TC58852000002120F | Issue Date: 07 / 07 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|---|---|---------------------------|---------------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Near Security Gate | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Mahesh Choksi | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 07 / 20 | Duration of Sampling (Hr) | : 24 Hrs |
| Sample Received Date | : 06 / 07 / 20 | Protocol (purpose) | : Ambient Air Monitoring |
| Date of Starting of Test | : 06 / 07 / 20 | Date of Completion | : 06 / 07 / 20 |
| Sampling Method | : IS 5182 & As per Instrument Instruction Manual | Sample ID | : 0720/AA2120 |

Atmospheric Condition

| Wind Direction | Weather Condition | Temperature (°C) | |
|----------------|-------------------|------------------|------|
| | | Max. | Min. |
| SW-NE | Cloudy | 32.0 | 23.0 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | CPCB LIMIT | METHOD REFERENCE |
|---------|-------------------------------------|-------------------|---------|------------|---|
| 1. | Particulate Matter (PM10) | µg/m ³ | 77.8 | 100 | IS : 5182 (Part 23) – 2006 (RA 2017) |
| 2. | Particulate Matter (PM2.5) | µg/m ³ | 44.1 | 60 | SOP No.-WI/AA/01 (Issue No. 02 & Issue Date: 02 / 09 / 19) |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 28.1 | 80 | IS : 5182 (Part 2) – 2001 (RA 2017) |
| 4. | Nitrogen Dioxide (NO ₂) | µg/m ³ | 36.6 | 80 | IS : 5182 (Part 6) – 2006 (RA 2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.
(Environmental Testing Laboratory)


CHECKED BY
Prashant Dumasiya (Dy.TM)


AUTHORIZED SIGNATORY
Chintan Desai (TM)

Note : This report is subject to terms & conditions mentioned overleaf.

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E-mail : lab@enpro.co.in, project@enpro.co.in



Certificate No. : TC-5885

2472

202101

Format No. : QR/7.8/02
Page No. : 1 of 1
ULR NO : TC588520000002633F

TEST REPORT



ENPRO
Environment,
Energy, Water
Project Consultant

| | |
|-------------------------------------|------------------------------|
| Test Report No.: TC588520000002633F | Issue Date: 07 / 08 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|--|---------------------------|--------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Scrap yard Area | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 05 / 08 / 20 | Duration of Sampling (Hr) | : 24 Hrs |
| Sample Received Date | : 06 / 08 / 20 | Protocol (purpose) | : Ambient Air Monitoring |
| Date of Starting of Test | : 06 / 08 / 20 | Date of Completion | : 06 / 08 / 20 |
| Sampling Method | : IS 5182 & As per Instrument Instruction Manual | Sample ID | : 0720/AA2633 |

| | | | |
|------------------------|-------------------|------------------|------|
| Atmospheric Condition: | | Temperature (°C) | |
| Wind Direction | Weather Condition | Max. | Min. |
| SW → NE | Rainy | 34.0 | 22.0 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|---|-------------------|---------|------------|---|
| 1. | Particulate Matter (PM ₁₀) | µg/m ³ | 74.5 | 100 | IS : 5182 (Part 23) – 2006 (RA 2017) |
| 2. | Particulate Matter (PM _{2.5}) | µg/m ³ | 40.7 | 60 | SOP No.-WI/AA/01 (Issue No. 02 & Issue Date: 02 / 09 / 19) |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 22.4 | 80 | IS : 5182 (Part 2) – 2001 (RA 2017) |
| 4. | Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.2 | 80 | IS : 5182 (Part 6) – 2006 (RA 2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

CHECKED BY
Prashant Dumasiya (Dy.TM)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

Note : This report is subject to terms & conditions mentioned overleaf.

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Ph. : +91-98254 36776, Lab Ph. : +91-93771 64006
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TC-5885

3355

202101



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Page No. : 1 of 1
ULR NO : TC588520000003327F

TEST REPORT

| | |
|-------------------------------------|------------------------------|
| Test Report No.: TC588520000003327F | Issue Date: 08 / 09 / 20 |
| Discipline: Chemical | Group: Atmospheric Pollution |

| | | | |
|--|--|---------------------------|--------------------------|
| Customer's Name & Address: UPL Ltd. (Unit-2) Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat | | | |
| Description of Sample | : Scrap yard Area | Quantity/No. of Sample | : 1 / 1 No. |
| Sampling By | : Mr. Ravi Ladani | Packing/Seal | : Sealed |
| Date of Sampling | : 04 / 09 / 20 | Duration of Sampling (Hr) | : 24 Hrs |
| Sample Received Date | : 05 / 09 / 20 | Protocol (purpose) | : Ambient Air Monitoring |
| Date of Starting of Test | : 05 / 09 / 20 | Date of Completion | : 07 / 09 / 20 |
| Sampling Method | : IS 5182 & As per Instrument Instruction Manual | Sample ID | : 0920/AA3327 |

| | | | |
|-------------------------------|-------------------|-------------------------|------|
| Atmospheric Condition: | | Temperature (°C) | |
| Wind Direction | Weather Condition | Max. | Min. |
| SW → NE | Sunny | 35.0 | 24.0 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD REFERENCE |
|---------|---|-------------------|---------|------------|---|
| 1. | Particulate Matter (PM ₁₀) | µg/m ³ | 76.2 | 100 | IS : 5182 (Part 23) – 2006 (RA 2017) |
| 2. | Particulate Matter (PM _{2.5}) | µg/m ³ | 42.9 | 60 | SOP No.-WI/AA/01 (Issue No. 02 & Issue Date: 02 / 09 / 19) |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 24.9 | 80 | IS : 5182 (Part 2) – 2001 (RA 2017) |
| 4. | Nitrogen Dioxide (NO _x) | µg/m ³ | 31.7 | 80 | IS : 5182 (Part 6) – 2006 (RA 2017) |

For, ENPRO Enviro Tech and Engineers Pvt. Ltd.(ETL)

(Signature)

CHECKED BY
Prashant Dumasiya (Dy.TM)

(Signature)

AUTHORIZED SIGNATORY
Chintan Desai (TM)

Note : This report is subject to terms & conditions mentioned overleaf.



ENPRO Enviro Tech and Engineers Pvt. Ltd.

Design, Engineering, Environmental Consulting, Monitoring & Testing Service Provider.
Manufacturing & Supply of Pollution Control Devices.

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01413

202102

Monitoring of VOC & other pollutants : APRIL -2020**Concentration in ppb / ppm**

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 04.04.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.04.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.04.20 | DV -1500 Plant | Second | - | - | - | 22 ppb | - |
| 11.04.20 | DV -1500 Plant | First | - | - | - | 20 ppb | - |
| 13.04.20 | CE -227 Plant | Second | - | - | 31 ppb | 37 ppb | - |
| 16.04.20 | CE -227 Plant | Third | - | - | 35 ppb | 31 ppb | - |
| 18.04.20 | AM -800 Plant | Second | 82 ppb | - | 44 ppb | - | - |
| 20.04.20 | AM -800 Plant | First | 64 ppb | - | 47 ppb | - | - |

Monitoring of VOC & other pollutants : MAY -2020**Concentration in ppb / ppm**

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 04.05.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.05.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.05.20 | DV -1500 Plant | Second | - | - | - | 29 ppb | - |
| 11.05.20 | DV -1500 Plant | First | - | - | - | 30 ppb | - |
| 13.05.20 | CE -227 Plant | Second | - | - | 35 ppb | 28 ppb | - |
| 16.05.20 | CE -227 Plant | Third | - | - | 42 ppb | 24 ppb | - |
| 18.05.20 | AM -800 Plant | Second | 40 ppb | - | 32 ppb | - | - |
| 20.05.20 | AM -800 Plant | First | 35 ppb | - | 36 ppb | - | - |

Monitoring of VOC & other pollutants : JUNE -2020**Concentration in ppb / ppm**

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 04.06.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.06.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.06.20 | DV -1500 Plant | Second | - | BDL | BDL | 36 ppb | BDL |
| 11.06.20 | DV -1500 Plant | First | - | BDL | BDL | 40 ppb | BDL |
| 13.06.20 | CE -227 Plant | Second | - | - | 40 ppb | 33 ppb | - |
| 16.06.20 | CE -227 Plant | Third | - | - | 52 ppb | 27 ppb | - |
| 18.06.20 | AM -800 Plant | Second | 33 ppb | - | 39 ppb | - | - |
| 20.06.20 | AM -800 Plant | First | 29 ppb | - | 42 ppb | - | - |

Monitoring of VOC & other pollutants : JULY -2020**Concentration in ppb / ppm**

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 04.07.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.07.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.07.20 | DV -1500 Plant | Second | - | BDL | BDL | 26 ppb | BDL |
| 11.07.20 | DV -1500 Plant | First | - | BDL | BDL | 24 ppb | BDL |
| 13.07.20 | CE -227 Plant | Second | - | - | 38 ppb | 31 ppb | - |
| 16.07.20 | CE -227 Plant | Third | - | - | 39 ppb | 27 ppb | - |
| 18.07.20 | AM -800 Plant | Second | 30 ppb | - | 26 ppb | - | - |
| 20.07.20 | AM -800 Plant | First | 29 ppb | - | 35 ppb | - | - |

Monitoring of VOC & other pollutants : AUGUST -2020

Concentration in ppb / ppm

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 04.08.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.08.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.08.20 | DV -1500 Plant | Second | - | BDL | BDL | 21 ppb | BDL |
| 11.08.20 | DV -1500 Plant | First | - | BDL | BDL | 23 ppb | BDL |
| 13.08.20 | CE -227 Plant | Second | - | - | 33 ppb | 33 ppb | - |
| 15.08.20 | CE -227 Plant | Third | - | - | 37 ppb | 26 ppb | - |
| 18.08.20 | AM -800 Plant | Second | 29 ppb | - | 29 ppb | - | - |
| 20.08.20 | AM -800 Plant | First | 27 ppb | - | 39 ppb | - | - |

Monitoring of VOC & other pollutants : SEPTEMBER -2020

Concentration in ppb / ppm

| Date | Plant | Location – Floor | Ethyl Acetate | Toluene | Methylene Dichloride | Methanol | Di Ethyl amine |
|----------|----------------|------------------|---------------|---------|----------------------|----------|----------------|
| 03.09.20 | PH-5000 Plant | First | - | - | - | - | - |
| 06.09.20 | PH-5000 Plant | Second | - | - | - | - | - |
| 08.09.20 | DV -1500 Plant | Second | - | BDL | BDL | 29 ppb | BDL |
| 12.09.20 | DV -1500 Plant | First | - | BDL | BDL | 32 ppb | BDL |
| 13.09.20 | CE -227 Plant | Second | - | - | 36 ppb | 36 ppb | - |
| 15.09.20 | CE -227 Plant | Third | - | - | 39 ppb | 28 ppb | - |
| 19.09.20 | AM -800 Plant | Second | 34 ppb | - | 28 ppb | - | - |
| 21.09.20 | AM -800 Plant | First | 31 ppb | - | 25 ppb | - | - |

02/05/2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|--------------|----------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 06/04/20 | Date :- 20/04/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | 28 ppb | 30 ppb |
| H2S | 10 ppm | PH-5000 Plant | 30 ppb | 26 ppb |
| Ammonia | 30 ppm | Acephate Plant | BDL | 22 ppb |

02/06/2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|--------------|----------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 05/05/20 | Date :- 20/05/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | 40 ppb | 32 ppb |
| H2S | 10 ppm | PH-5000 Plant | 32 ppb | 22 ppb |
| Ammonia | 30 ppm | Acephate Plant | 42 ppb | 33 ppb |

02/07/2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|--------------|----------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 05/06/20 | Date :- 20/06/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | 22 ppb | 10 ppb |
| H2S | 10 ppm | PH-5000 Plant | 32 ppb | 40 ppb |
| Ammonia | 30 ppm | Acephate Plant | 40 ppb | 50 ppb |

02/08/2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|----------------|-----------------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 05/07/20 | Date :- 20/07/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | BDL | BDL |
| H2S | 10 ppm | PH-5000 Plant | 32 ppb | BDL |
| Ammonia | 30 ppm | Acephate Plant | 38 ppb | 42 ppb |

03.09.2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|----------------|-----------------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 05/08/20 | Date :- 20/08/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | BDL | BDL |
| H2S | 10 ppm | PH-5000 Plant | 45 ppb | 40 ppb |
| Ammonia | 30 ppm | Acephate Plant | 50 ppb | 48 ppb |

02.10.2020

| FUGGATIVE ANALYSIS REPORT | | | | |
|----------------------------------|----------------|-----------------------|------------------------|------------------------|
| PARAMETER | LIMIT (Max.) | AREA | Analysis Report | |
| | | | Date :- 06/09/20 | Date :- 20/09/20 |
| Chlorine | 0.5 ppm | CE-227 Plant | Plant not in operation | Plant not in operation |
| TBM | 0.5 ppm | PH-5000 Plant | 20 ppb | 24 ppb |
| H2S | 10 ppm | PH-5000 Plant | 30 ppb | 39 ppb |
| Ammonia | 30 ppm | Acephate Plant | 40 ppb | 35 ppb |

DESIGN DATA :

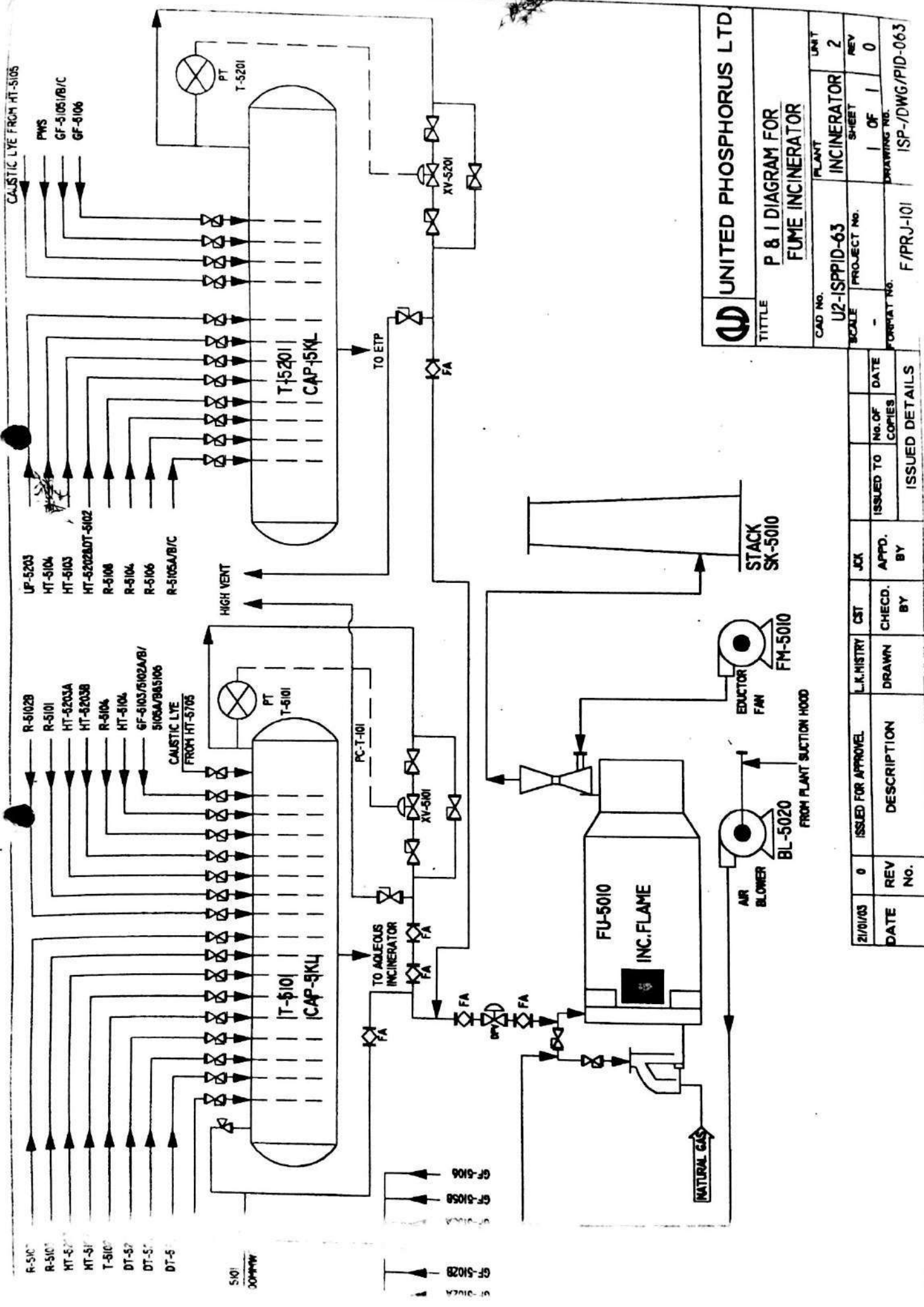
| | |
|----------------------|--|
| Waste | : Air contaminated with E.M. / T.B.M. |
| Temperature | : Ambient |
| Firing Rate | : 750 CFM Contaminated Air |
| Contaminants | : 2 % E.M. / T.B.M. |
| Furnace Pressure | : -5 to -10 mm WC |
| Furnace Temperature | : 800 °C |
| Burner | : Dual Fired (N.G. & F.O.) |
| Rated Heat Load | : 0.5×10^6 Kcal / Hr. |
| Flue gas Temperature | : 250 °C (After dilution at Eductor) |

OPERATION :

Vapours from various tanks & vessels are collected in T-5101 & T-5201. All the incoming lines introduced through dip pipe in the tanks. Inside tanks caustic solution is kept, so acidic fumes get neutralised in it. This vapour mixture is then incinerated in the furnace. For safe operation, Flame Arresters are provided to the tanks in reverse direction to prevent any spark from furnace.

INTERLOCKS :

1. Temp. Control valve of Furnace interlocked with N.G. Supply line. As the temp. In furnace reduces then set point, N.G. Supply shall start automatically.
2. Inter lock given between blower / Eductor fan & Solenoid valve of burner. If one or both of these fans are tripped, burner shall shut off.
3. Diff press control valve is provided to prevent the back fire. When press in the vent tank reduces then Furnace press, this valve shall close automatically.
4. Eductor fan is interlocked with air blower & N.G. supply. If eductor fan stops, Air blower & N.G. supply shall cut off.



| | |
|--|--|
| UNITED PHOSPHORUS LTD. | |
| TITLE P & I DIAGRAM FOR FUME INCINERATOR | |
| CAD No. U2-ISPPID-63 | PLANT INCINERATOR |
| SCALE - | SHEET 1 OF 1 |
| PROJECT No. - | REV 0 |
| FORMAT No. F/PRJ-101 | DRAWING No. ISP-/DWG/PID-063 |

| ISSUED DETAILS | |
|----------------|---------------------|
| DATE | DESCRIPTION |
| 21/01/03 | 0 |
| REV No. | ISSUED FOR APPROVAL |
| DATE | L.A. HISTORY |
| NO. | CST |
| BY | CHECKED BY |
| APPD. BY | JCK |
| COPIES | ISSUED TO |
| NO. | DATE |

Annexure 13

UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT. MONTH APRIL - 2020

F/QA/216

02.05.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|-------------------|-------------|------------|------------|-------------|------------|------------|------------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| DATE | | | | | | | | |
| 01.04.2020 | 8.43 | 34 | 29 | 1780 | 88 | 26 | 4 | 3.86 |
| 02.04.2020 | 8.18 | 32 | 32 | 1780 | 92 | 28 | 2 | 4.39 |
| 03.04.2020 | 8.14 | 33 | 34 | 1600 | 79 | 23 | 4 | 3.78 |
| 04.04.2020 | 8.00 | 32 | 29 | 1560 | 72 | 20 | 3 | 4.00 |
| 05.04.2020 | 8.04 | 35 | 32 | 1680 | 91 | 27 | 4 | 4.28 |
| 06.04.2020 | 8.08 | 32 | 30 | 1700 | 87 | 26 | 2 | 4.06 |
| 07.04.2020 | 7.80 | 38 | 33 | 1600 | 83 | 25 | 6 | 4.03 |
| 08.04.2020 | 7.87 | 34 | 32 | 1490 | 72 | 22 | 2 | 4.14 |
| 09.04.2020 | 7.51 | 34 | 30 | 1700 | 83 | 24 | 4 | 3.92 |
| 10.04.2020 | 7.79 | 32 | 34 | 2080 | 94 | 28 | 3 | 3.86 |
| 11.04.2020 | 7.62 | 35 | 34 | 1900 | 89 | 26 | 14 | 4.67 |
| 12.04.2020 | 7.45 | 34 | 30 | 2000 | 86 | 26 | 10 | 3.83 |
| 13.04.2020 | 7.14 | 34 | 32 | 1970 | 78 | 24 | 12 | 3.92 |
| 14.04.2020 | 6.93 | 33 | 36 | 1950 | 74 | 22 | 14 | 4.56 |
| 15.04.2020 | 6.86 | 35 | 34 | 2040 | 82 | 24 | 12 | 3.75 |
| 16.04.2020 | 6.85 | 35 | 32 | 2010 | 78 | 21 | 18 | 4.11 |
| 17.04.2020 | 6.99 | 34 | 36 | 2020 | 74 | 22 | 15 | 4.42 |
| 18.04.2020 | 7.14 | 34 | 38 | 1970 | 78 | 24 | 10 | 4.03 |
| 19.04.2020 | 7.38 | 33 | 40 | 1940 | 88 | 26 | 12 | 4.45 |
| 20.04.2020 | 7.33 | 33 | 36 | 1880 | 85 | 25 | 16 | 4.70 |
| 21.04.2020 | 7.17 | 33 | 34 | 1940 | 81 | 23 | 12 | 4.00 |
| 22.04.2020 | 6.85 | 32 | 32 | 1880 | 77 | 22 | 11 | 4.31 |
| 23.04.2020 | 6.72 | 34 | 35 | 1820 | 88 | 26 | 10 | 4.14 |
| 24.04.2020 | 6.62 | 35 | 32 | 2000 | 85 | 27 | 9 | 3.83 |
| 25.04.2020 | 6.93 | 34 | 36 | 1900 | 84 | 26 | 13 | 4.03 |
| 26.04.2020 | 7.15 | 32 | 34 | 1890 | 81 | 24 | 15 | 3.78 |
| 27.04.2020 | 7.45 | 35 | 40 | 1940 | 77 | 22 | 18 | 3.64 |
| 28.04.2020 | 7.62 | 34 | 36 | 1910 | 74 | 20 | 11 | 4.28 |
| 29.04.2020 | 7.50 | 36 | 40 | 2020 | 81 | 22 | 13 | 4.14 |
| 30.04.2020 | 7.62 | 35 | 38 | 1990 | 77 | 21 | 16 | 3.83 |
| Maximum | 8.43 | 38 | 40 | 2080 | 94 | 28 | 18 | 4.70 |
| Minimum | 6.62 | 32 | 29 | 1490 | 72 | 20 | 2 | 3.64 |
| Average | 7.44 | 34 | 34 | 1865 | 82 | 24 | 10 | 4.09 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|-------------------|------------|------------|-------------|--------------|-------------------|------------|------------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/04/2020 | 555 | 745 | 0.30 | BDL | BDL | BDL | BDL | 0.50 |
| 14/04/2020 | 495 | 650 | 0.20 | BDL | BDL | BDL | BDL | 0.40 |
| 21/04/2020 | 466 | 753 | 0.10 | BDL | BDL | BDL | BDL | 0.40 |
| 28/04/2020 | 541 | 788 | 0.20 | BDL | BDL | BDL | BDL | 0.50 |
| Maximum | 555 | 788 | 0.30 | 0 | 0 | 0 | 0 | 0.5 |
| Minimum | 466 | 650 | 0.10 | 0 | 0 | 0 | 0 | 0.4 |
| Average | 514 | 734 | 0.20 | 0 | 0 | 0 | 0 | 0.5 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/ Pesticide |
|---------------|----------------------|------------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/04/2020 | 52.2 | ..... |
| 14/04/2020 | ..... | Absent |
| 21/04/2020 | 56.9 | ..... |
| 28/04/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/04/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavelent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/04/2020 | BDL | 0.6 | BDL | BDL | 1.0 | BDL | BDL | 28.8 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT. MONTH MAY - 2020

F/QA/216

02.06.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|-------------------|-------------|------------|------------|-------------|------------|------------|------------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| DATE | | | | | | | | |
| 01.05.2020 | 7.68 | 35 | 48 | 1910 | 80 | 22 | 5 | 4.00 |
| 02.05.2020 | 7.33 | 34 | 43 | 1990 | 88 | 24 | 8 | 4.39 |
| 03.05.2020 | 7.27 | 34 | 40 | 2000 | 87 | 23 | 9 | 4.17 |
| 04.05.2020 | 7.35 | 35 | 40 | 1830 | 84 | 24 | 8 | 4.22 |
| 05.05.2020 | 7.29 | 36 | 39 | 1910 | 80 | 22 | 7 | 3.75 |
| 06.05.2020 | 7.24 | 35 | 38 | 1990 | 84 | 23 | 9 | 3.86 |
| 07.05.2020 | 7.53 | 36 | 36 | 1930 | 80 | 21 | 10 | 3.95 |
| 08.05.2020 | 7.49 | 35 | 38 | 1880 | 78 | 20 | 6 | 4.03 |
| 09.05.2020 | 7.59 | 36 | 37 | 1960 | 74 | 18 | 8 | 4.11 |
| 10.05.2020 | 7.85 | 33 | 42 | 1760 | 69 | 18 | 5 | 3.78 |
| 11.05.2020 | 8.08 | 35 | 32 | 2010 | 91 | 28 | 6 | 3.97 |
| 12.05.2020 | 7.84 | 36 | 47 | 1600 | 82 | 24 | 8 | 4.25 |
| 13.05.2020 | 8.04 | 35 | 40 | 1930 | 91 | 27 | 12 | 3.97 |
| 14.05.2020 | 8.10 | 36 | 40 | 1790 | 74 | 22 | 10 | 3.86 |
| 15.05.2020 | 8.12 | 35 | 46 | 1710 | 73 | 21 | 5 | 3.30 |
| 16.05.2020 | 8.14 | 35 | 35 | 1680 | 69 | 20 | 13 | 3.02 |
| 17.05.2020 | 8.16 | 34 | 40 | 1930 | 82 | 23 | 8 | 4.11 |
| 18.05.2020 | 8.18 | 37 | 39 | 1670 | 73 | 22 | 12 | 3.86 |
| 19.05.2020 | 8.09 | 35 | 35 | 1770 | 78 | 24 | 7 | 4.42 |
| 20.05.2020 | 8.04 | 36 | 36 | 1920 | 82 | 22 | 7 | 4.03 |
| 21.05.2020 | 8.05 | 37 | 34 | 1990 | 86 | 24 | 8 | 4.28 |
| 22.05.2020 | 7.97 | 35 | 41 | 2010 | 81 | 22 | 12 | 3.92 |
| 23.05.2020 | 8.04 | 35 | 37 | 2010 | 90 | 27 | 10 | 4.09 |
| 24.05.2020 | 8.09 | 35 | 40 | 2000 | 77 | 20 | 6 | 4.14 |
| 25.05.2020 | 8.00 | 34 | 32 | 1910 | 81 | 23 | 5 | 4.09 |
| 26.05.2020 | 7.40 | 36 | 30 | 1820 | 77 | 21 | 5 | 3.83 |
| 27.05.2020 | 7.23 | 36 | 33 | 1900 | 73 | 20 | 7 | 4.14 |
| 28.05.2020 | 7.20 | 35 | 34 | 2010 | 86 | 26 | 9 | 4.09 |
| 29.05.2020 | 7.10 | 35 | 31 | 1850 | 90 | 27 | 11 | 3.95 |
| 30.05.2020 | 7.09 | 35 | 33 | 2050 | 86 | 25 | 6 | 4.42 |
| 31.05.2020 | 7.13 | 36 | 34 | 1990 | 81 | 24 | 9 | 3.95 |
| Maximum | 8.18 | 37 | 48 | 2050 | 91 | 28 | 13 | 4.42 |
| Minimum | 7.09 | 33 | 30 | 1600 | 69 | 18 | 5 | 3.02 |
| Average | 7.70 | 35 | 38 | 1894 | 81 | 23 | 8 | 4.00 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|-------------------|------------|------------|-------------|--------------|-------------------|------------|------------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/05/2020 | 526 | 707 | 0.30 | BDL | BDL | BDL | BDL | 0.50 |
| 14/05/2020 | 456 | 752 | 0.20 | BDL | BDL | BDL | BDL | 0.30 |
| 21/05/2020 | 491 | 850 | 0.20 | BDL | BDL | BDL | BDL | 0.40 |
| 28/05/2020 | 544 | 650 | 0.20 | BDL | BDL | BDL | BDL | 0.30 |
| Maximum | 544 | 850 | 0.30 | 0 | 0 | 0 | 0 | 0.5 |
| Minimum | 456 | 650 | 0.20 | 0 | 0 | 0 | 0 | 0.3 |
| Average | 504 | 740 | 0.23 | 0 | 0 | 0 | 0 | 0.4 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/ Pesticide |
|---------------|----------------------|------------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/05/2020 | 49.3 | ..... |
| 14/05/2020 | ..... | Absent |
| 21/05/2020 | 52.6 | ..... |
| 28/05/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/05/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavalent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/05/2020 | BDL | 0.5 | BDL | BDL | 1.0 | BDL | BDL | 25.5 |

PREPARED BY : MILESH.P.MODI

UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT. MONTH JUNE - 2020

HOD (Q.A.)

F/QA/216

02.07.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|---------------|-----------|-------|----------|-----------|----------|---------|---------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| DATE | | | | | | | | |
| 01.06.2020 | 7.28 | 36 | 31 | 1880 | 81 | 24 | 12 | 4.17 |

| | | | | | | | | |
|-------------------|-------------|------------|------------|-------------|------------|------------|------------|-------------|
| 02.06.2020 | 7.33 | 34 | 33 | 1910 | 81 | 23 | 14 | 3.97 |
| 03.06.2020 | 7.45 | 32 | 35 | 1800 | 76 | 21 | 15 | 4.28 |
| 04.06.2020 | 7.50 | 31 | 36 | 1680 | 68 | 18 | 14 | 3.89 |
| 05.06.2020 | 7.48 | 30 | 33 | 1930 | 85 | 26 | 13 | 4.10 |
| 06.06.2020 | 7.57 | 32 | 38 | 1940 | 81 | 23 | 16 | 3.95 |
| 07.06.2020 | 7.62 | 31 | 36 | 1860 | 89 | 27 | 9 | 4.42 |
| 08.06.2020 | 7.36 | 32 | 40 | 1990 | 81 | 24 | 8 | 3.92 |
| 09.06.2020 | 7.64 | 30 | 35 | 2010 | 80 | 21 | 5 | 4.00 |
| 10.06.2020 | 7.45 | 31 | 37 | 1790 | 76 | 20 | 9 | 4.14 |
| 11.06.2020 | 7.50 | 32 | 33 | 1950 | 84 | 23 | 6 | 3.89 |
| 12.06.2020 | 7.71 | 33 | 34 | 2090 | 76 | 21 | 7 | 4.03 |
| 13.06.2020 | 7.66 | 32 | 32 | 2080 | 80 | 21 | 9 | 3.95 |
| 14.06.2020 | 7.49 | 31 | 30 | 1980 | 84 | 24 | 10 | 4.11 |
| 15.06.2020 | 7.44 | 32 | 33 | 1910 | 96 | 29 | 8 | 4.34 |
| 16.06.2020 | 7.18 | 30 | 32 | 1970 | 71 | 20 | 9 | 3.95 |
| 17.06.2020 | 7.28 | 32 | 34 | 1880 | 67 | 17 | 5 | 3.86 |
| 18.06.2020 | 7.13 | 31 | 32 | 1830 | 79 | 21 | 7 | 3.58 |
| 19.06.2020 | 7.28 | 32 | 36 | 1780 | 75 | 20 | 8 | 3.78 |
| 20.06.2020 | 7.05 | 31 | 32 | 1850 | 81 | 23 | 9 | 3.89 |
| 21.06.2020 | 7.20 | 30 | 40 | 1840 | 84 | 24 | 8 | 4.22 |
| 22.06.2020 | 7.38 | 30 | 34 | 1990 | 84 | 25 | 9 | 3.86 |
| 23.06.2020 | 7.33 | 31 | 35 | 1710 | 68 | 19 | 14 | 4.04 |
| 24.06.2020 | 7.44 | 30 | 32 | 2010 | 86 | 26 | 9 | 4.11 |
| 25.06.2020 | 7.50 | 31 | 35 | 1830 | 79 | 21 | 11 | 3.86 |
| 26.06.2020 | 7.42 | 32 | 33 | 1970 | 83 | 26 | 5 | 3.95 |
| 27.06.2020 | 7.39 | 31 | 30 | 1960 | 75 | 24 | 8 | 4.22 |
| 28.06.2020 | 7.34 | 32 | 32 | 1770 | 71 | 20 | 4 | 4.06 |
| 29.06.2020 | 7.24 | 30 | 29 | 1840 | 62 | 18 | 3 | 3.30 |
| 30.06.2020 | 7.51 | 30 | 28 | 1990 | 87 | 27 | 6 | 3.58 |
| Maximum | 7.71 | 36 | 40 | 2090 | 96 | 29 | 16 | 4.42 |
| Minimum | 7.05 | 30 | 28 | 1680 | 62 | 17 | 3 | 3.30 |
| Average | 7.41 | 31 | 34 | 1901 | 79 | 23 | 9 | 3.98 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|---------------|----------|-----------|----------|--------------|-------------------|----------|---------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/06/2020 | 510 | 762 | 0.40 | BDL | BDL | BDL | BDL | 0.50 |
| 14/06/2020 | 420 | 654 | 0.20 | BDL | BDL | BDL | BDL | 0.50 |
| 21/06/2020 | 488 | 520 | 0.30 | BDL | BDL | BDL | BDL | 0.40 |
| 28/06/2020 | 500 | 789 | 0.30 | BDL | BDL | BDL | BDL | 0.50 |
| Maximum | 510 | 789 | 0.40 | 0 | 0 | 0 | 0 | 0.5 |
| Minimum | 420 | 520 | 0.20 | 0 | 0 | 0 | 0 | 0.4 |
| Average | 480 | 681 | 0.30 | 0 | 0 | 0 | 0 | 0.5 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/Pesticide |
|---------------|----------------------|-----------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/06/2020 | 44.4 | ..... |
| 14/06/2020 | ..... | Absent |
| 21/06/2020 | 53.3 | ..... |
| 28/06/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/06/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavelent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/06/2020 | BDL | 0.6 | BDL | BDL | 1.1 | BDL | BDL | 29.3 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT. MONTH JULY - 2020

F/QA/216

02.08.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|---------------|-----------|-------|----------|-----------|----------|---------|---------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| 01.07.2020 | 7.80 | 31 | 37 | 1790 | 76 | 20 | 9 | 4.14 |
| 02.07.2020 | 7.49 | 30 | 32 | 1910 | 84 | 24 | 4 | 4.14 |
| 03.07.2020 | 7.16 | 32 | 40 | 1990 | 81 | 74 | 8 | 3.92 |
| 04.07.2020 | 6.60 | 29 | 30 | 1820 | 77 | 84 | 5 | 3.83 |
| 05.07.2020 | 7.17 | 30 | 31 | 1790 | 92 | 26 | 5 | 4.28 |
| 06.07.2020 | 6.72 | 30 | 35 | 1820 | 88 | 26 | 10 | 4.14 |
| 07.07.2020 | 7.12 | 31 | 40 | 1830 | 84 | 24 | 8 | 4.22 |
| 08.07.2020 | 7.64 | 29 | 46 | 1710 | 73 | 21 | 5 | 3.30 |

| | | | | | | | | |
|------------|------|-----|-----|------|-----|-----|-----|------|
| 09.07.2020 | 7.40 | 29 | 30 | 1820 | 77 | 21 | 5 | 3.83 |
| 10.07.2020 | 7.84 | 28 | 35 | 1770 | 78 | 24 | 7 | 4.42 |
| 11.07.2020 | 7.43 | 27 | 34 | 2070 | 84 | 24 | 9 | 3.67 |
| 12.07.2020 | 7.47 | 30 | 29 | 1890 | 80 | 18 | 8 | 4.06 |
| 13.07.2020 | 7.60 | 28 | 30 | 1700 | 72 | 17 | 3 | 3.95 |
| 14.07.2020 | 7.93 | 28 | 32 | 1610 | 92 | 29 | 3 | 3.61 |
| 15.07.2020 | 7.18 | 30 | 32 | 1970 | 71 | 20 | 9 | 3.95 |
| 16.07.2020 | 7.29 | 31 | 39 | 1910 | 80 | 22 | 7 | 3.75 |
| 17.07.2020 | 8.14 | 30 | 34 | 1600 | 79 | 23 | 4 | 3.78 |
| 18.07.2020 | 7.79 | 31 | 34 | 2080 | 94 | 28 | 3 | 3.86 |
| 19.07.2020 | 7.80 | 28 | 30 | 1820 | 84 | 26 | 5 | 4.14 |
| 20.07.2020 | 7.49 | 31 | 38 | 1880 | 78 | 20 | 6 | 4.03 |
| 21.07.2020 | 7.85 | 31 | 42 | 1760 | 69 | 18 | 5 | 3.78 |
| 22.07.2020 | 8.08 | 28 | 32 | 2010 | 91 | 28 | 6 | 3.94 |
| 23.07.2020 | 7.59 | 30 | 37 | 1960 | 74 | 18 | 8 | 4.11 |
| 24.07.2020 | 8.12 | 29 | 46 | 1710 | 73 | 21 | 5 | 3.30 |
| 25.07.2020 | 8.14 | 31 | 35 | 1680 | 69 | 20 | 13 | 3.02 |
| 26.07.2020 | 8.10 | 28 | 40 | 1790 | 74 | 22 | 10 | 3.86 |
| 27.07.2020 | 6.93 | 31 | 36 | 1950 | 74 | 22 | 14 | 4.56 |
| 28.07.2020 | 6.86 | 30 | 34 | 2040 | 82 | 24 | 12 | 3.75 |
| 29.07.2020 | 6.85 | 30 | 32 | 2010 | 78 | 21 | 18 | 4.11 |
| 30.07.2020 | 7.33 | 33 | 36 | 1880 | 85 | 25 | 16 | 4.70 |
| 31.07.2020 | 7.49 | 29 | 38 | 1890 | 78 | 20 | 6 | 4.03 |
| Maximum | 8.14 | 33 | 46 | 2080 | 94 | 84 | 18 | 4.70 |
| Minimum | 6.60 | 27 | 29 | 1600 | 69 | 17 | 3 | 3.02 |
| Average | 7.50 | 30 | 35 | 1854 | 80 | 26 | 8 | 3.94 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|---------------|----------|-----------|----------|--------------|-------------------|----------|---------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/07/2020 | 490 | 692 | 0.10 | BDL | BDL | BDL | BDL | 0.60 |
| 14/07/2020 | 510 | 643 | 0.20 | BDL | BDL | BDL | BDL | 0.40 |
| 21/07/2020 | 530 | 880 | 0.20 | BDL | BDL | BDL | BDL | 0.6 |
| 28/07/2020 | 480 | 930 | 0.30 | BDL | BDL | BDL | BDL | 0.50 |
| Maximum | 530 | 930 | 0.30 | 0 | 0 | 0 | 0 | 0.6 |
| Minimum | 480 | 643 | 0.10 | 0 | 0 | 0 | 0 | 0.4 |
| Average | 503 | 786 | 0.20 | 0 | 0 | 0 | 0 | 0.5 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/ Pesticide |
|---------------|----------------------|------------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/07/2020 | 46.8 | ..... |
| 14/07/2020 | ..... | Absent |
| 21/07/2020 | 55.1 | ..... |
| 28/07/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/07/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavelent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/07/2020 | BDL | 0.8 | BDL | BDL | 1.0 | BDL | BDL | 32.6 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT.
MONTH AUGUST - 2020

F/QA/216

02.09.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|---------------|-----------|-------|----------|-----------|----------|---------|---------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| DATE | | | | | | | | |
| 01.08.2020 | 7.81 | 32 | 45 | 1770 | 73 | 21 | 5 | 3.95 |
| 02.08.2020 | 7.69 | 30 | 40 | 1860 | 81 | 26 | 7 | 4.09 |
| 03.08.2020 | 7.94 | 31 | 35 | 1790 | 69 | 23 | 9 | 3.50 |
| 04.08.2020 | 7.23 | 33 | 32 | 1730 | 85 | 21 | 11 | 4.20 |
| 05.08.2020 | 7.39 | 34 | 30 | 1770 | 89 | 26 | 4 | 3.92 |
| 06.08.2020 | 7.12 | 30 | 28 | 1880 | 81 | 27 | 6 | 4.95 |
| 07.08.2020 | 7.36 | 30 | 25 | 1840 | 77 | 29 | 8 | 4.22 |
| 08.08.2020 | 7.28 | 29 | 31 | 1920 | 79 | 26 | 9 | 4.11 |
| 09.08.2020 | 7.34 | 28 | 35 | 1880 | 75 | 24 | 10 | 3.97 |
| 10.08.2020 | 7.69 | 29 | 32 | 1840 | 80 | 20 | 2 | 4.11 |
| 11.08.2020 | 7.86 | 31 | 30 | 1860 | 71 | 18 | 4 | 4.03 |

| | | | | | | | | |
|-------------------|-------------|------------|------------|-------------|------------|------------|------------|-------------|
| 12.08.2020 | 7.16 | 30 | 29 | 1860 | 87 | 17 | 6 | 4.28 |
| 13.08.2020 | 7.13 | 32 | 28 | 1890 | 83 | 23 | 12 | 4.34 |
| 14.08.2020 | 6.97 | 34 | 25 | 1890 | 91 | 24 | 10 | 3.92 |
| 15.08.2020 | 7.01 | 33 | 26 | 1980 | 79 | 24 | 7 | 4.34 |
| 16.08.2020 | 7.34 | 34 | 29 | 2000 | 84 | 21 | 5 | 4.22 |
| 17.08.2020 | 7.37 | 30 | 31 | 1750 | 83 | 17 | 6 | 4.17 |
| 18.08.2020 | 7.94 | 31 | 35 | 1610 | 75 | 24 | 9 | 4.09 |
| 19.08.2020 | 8.09 | 30 | 38 | 1870 | 77 | 26 | 12 | 4.03 |
| 20.08.2020 | 7.86 | 31 | 39 | 1630 | 85 | 27 | 14 | 4.11 |
| 21.08.2020 | 7.77 | 32 | 44 | 1820 | 81 | 17 | 6 | 4.14 |
| 22.08.2020 | 7.12 | 33 | 49 | 1570 | 80 | 21 | 7 | 3.86 |
| 23.08.2020 | 7.31 | 34 | 32 | 1710 | 80 | 24 | 3 | 4.11 |
| 24.08.2020 | 7.91 | 32 | 22 | 1780 | 84 | 23 | 4 | 3.83 |
| 25.08.2020 | 7.46 | 30 | 26 | 1600 | 88 | 25 | 6 | 4.14 |
| 26.08.2020 | 7.65 | 31 | 28 | 1560 | 64 | 22 | 8 | 3.83 |
| 27.08.2020 | 7.34 | 32 | 32 | 1680 | 80 | 24 | 10 | 4.03 |
| 28.08.2020 | 7.91 | 33 | 34 | 1700 | 76 | 28 | 14 | 3.78 |
| 29.08.2020 | 7.28 | 30 | 36 | 1600 | 78 | 26 | 7 | 3.64 |
| 30.08.2020 | 7.84 | 32 | 38 | 1490 | 74 | 26 | 9 | 4.28 |
| 31.08.2020 | 7.50 | 31 | 30 | 1600 | 82 | 24 | 5 | 4.14 |
| Maximum | 8.09 | 34 | 49 | 2000 | 91 | 29 | 14 | 4.95 |
| Minimum | 6.97 | 28 | 22 | 1490 | 64 | 17 | 2 | 3.50 |
| Average | 7.51 | 31 | 33 | 1765 | 80 | 23 | 8 | 4.08 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|-------------------|------------|------------|-------------|--------------|-------------------|------------|------------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/08/2020 | 560 | 750 | 0.20 | BDL | BDL | BDL | BDL | 0.70 |
| 14/08/2020 | 590 | 820 | 0.30 | BDL | BDL | BDL | BDL | 0.50 |
| 21/08/2020 | 520 | 654 | 0.20 | BDL | BDL | BDL | BDL | 0.40 |
| 28/08/2020 | 540 | 720 | 0.10 | BDL | BDL | BDL | BDL | 0.30 |
| Maximum | 590 | 820 | 0.30 | 0 | 0 | 0 | 0 | 0.7 |
| Minimum | 520 | 654 | 0.10 | 0 | 0 | 0 | 0 | 0.3 |
| Average | 553 | 736 | 0.20 | 0 | 0 | 0 | 0 | 0.5 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/ Pesticide |
|---------------|-----------------------|------------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/08/2020 | 55.5 | ..... |
| 14/08/2020 | ..... | Absent |
| 21/08/2020 | 60.2 | ..... |
| 28/08/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/08/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavelent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/08/2020 | BDL | 1.0 | BDL | BDL | 1.1 | BDL | BDL | 30.3 |

**UPL LIMITED. UNIT - 2
TREATED EFFLUENT WATER FEED TO RO
Q.A. DEPT.
MONTH SEPTEMBER - 2020**

F/QA/216

02.10.2020

| PARAMETER => | pH | Temp. | SS | TDS | COD | BOD | Amm. N2 | Phosphate (as P) |
|-------------------|-------------|------------|------------|-------------|------------|------------|------------|------------------|
| GPCB LIMIT => | 5.5 - 8.5 | 40 °c | 100 mg/l | 2100 mg/l | 100 mg/l | 30 mg/l | 50 mg/l | 5 mg/l |
| DATE | | | | | | | | |
| 01.09.2020 | 7.34 | 28 | 30 | 1940 | 92 | 24 | 3 | 4.28 |
| 02.09.2020 | 7.19 | 28 | 45 | 1760 | 87 | 22 | 3 | 4.29 |
| 03.09.2020 | 7.80 | 28 | 27 | 1800 | 92 | 22 | 2 | 4.7 |
| 04.09.2020 | 7.90 | 30 | 32 | 1800 | 89 | 24 | 2 | 4.48 |
| 05.09.2020 | 7.88 | 30 | 30 | 1730 | 79 | 26 | 2 | 4.42 |
| 06.09.2020 | 7.95 | 30 | 28 | 1650 | 96 | 26 | 2 | 4.62 |
| 07.09.2020 | 7.50 | 30 | 30 | 1600 | 83 | 22 | 5 | 4.67 |
| 08.09.2020 | 7.12 | 30 | 25 | 1720 | 83 | 24 | 4 | 4.56 |
| 09.09.2020 | 7.10 | 30 | 30 | 1930 | 87 | 22 | 3 | 4.25 |
| 10.09.2020 | 7.40 | 30 | 26 | 1850 | 95 | 22 | 4 | 4.7 |
| 11.09.2020 | 7.10 | 29 | 28 | 1810 | 96 | 22 | 3 | 4.48 |
| 12.09.2020 | 7.00 | 30 | 30 | 1950 | 87 | 24 | 2 | 4.36 |
| 13.09.2020 | 7.00 | 30 | 24 | 1900 | 99 | 24 | 3 | 4.67 |
| 14.09.2020 | 7.00 | 30 | 18 | 1570 | 95 | 26 | 3 | 4.81 |
| 15.09.2020 | 7.15 | 30 | 21 | 1920 | 95 | 26 | 3 | 4.59 |
| 16.09.2020 | 7.00 | 30 | 30 | 1920 | 99 | 26 | 3 | 4.5 |
| 17.09.2020 | 7.00 | 30 | 22 | 2090 | 95 | 26 | 4 | 4.67 |
| 18.09.2020 | 7.15 | 30 | 40 | 2080 | 99 | 28 | 4 | 4.53 |
| 19.09.2020 | 6.50 | 30 | 34 | 1930 | 95 | 28 | 4 | 4.48 |
| 20.09.2020 | 7.14 | 30 | 30 | 2070 | 92 | 26 | 4 | 4.57 |
| 21.09.2020 | 7.15 | 30 | 29 | 1910 | 89 | 26 | 4 | 4.56 |
| 22.09.2020 | 7.00 | 28 | 30 | 1970 | 89 | 26 | 3 | 4.19 |
| 23.09.2020 | 7.00 | 28 | 40 | 1960 | 85 | 28 | 3 | 4.36 |
| 24.09.2020 | 7.20 | 28 | 34 | 2000 | 77 | 26 | 4 | 4.64 |
| 25.09.2020 | 7.28 | 28 | 30 | 2000 | 97 | 30 | 3 | 4.53 |
| 26.09.2020 | 7.15 | 28 | 34 | 2080 | 97 | 30 | 3 | 4.55 |
| 27.09.2020 | 7.60 | 28 | 29 | 2060 | 98 | 26 | 3 | 4.62 |
| 28.09.2020 | 7.44 | 28 | 34 | 2080 | 93 | 24 | 3 | 4.62 |
| 29.09.2020 | 7.37 | 28 | 32 | 2010 | 89 | 26 | 3 | 4.53 |
| 30.09.2020 | 7.40 | 28 | 36 | 2010 | 97 | 28 | 3 | 4.81 |
| Maximum | 7.95 | 30 | 45 | 2090 | 99 | 30 | 5 | 4.81 |
| Minimum | 6.50 | 28 | 18 | 1570 | 77 | 22 | 2 | 4.19 |
| Average | 7.26 | 29 | 30 | 1903 | 92 | 25 | 3 | 4.53 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Chloride | Sulphate | Sulphide | Oil & Grease | Phenolic Compound | Cyanide | Nitrate | Total residual Chlorine |
|-------------------|------------|------------|-------------|--------------|-------------------|------------|------------|-------------------------|
| GPCB LIMIT => | 600 mg/l | 1000 mg/l | 0.5 mg/l | 10 mg/l | 1.0 mg/l | 0.2 mg/l | 50 mg/l | 1 mg/l |
| DATE | | | | | | | | |
| 07/09/2020 | 464 | 964 | 0.10 | BDL | BDL | BDL | BDL | 0.30 |
| 14/09/2020 | 516 | 980 | 0.20 | BDL | BDL | BDL | BDL | 0.20 |
| 21/09/2020 | 494 | 924 | 0.10 | BDL | BDL | BDL | BDL | 0.30 |
| 28/09/2020 | 408 | 896 | 0.40 | BDL | BDL | BDL | BDL | 0.25 |
| Maximum | 516 | 980 | 0.40 | 0 | 0 | 0 | 0 | 0.3 |
| Minimum | 408 | 896 | 0.10 | 0 | 0 | 0 | 0 | 0.2 |
| Average | 471 | 941 | 0.20 | 0 | 0 | 0 | 0 | 0.3 |
| %Deviation | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |

| PARAMETER => | Colour (Pt.co.scale) | Insecticide/Pesticide |
|---------------|----------------------|-----------------------|
| GPCB LIMIT => | 100 units | Absent |
| DATE | | |
| 07/09/2020 | 51.3 | ..... |
| 14/09/2020 | ..... | Absent |
| 21/09/2020 | 55.8 | ..... |
| 28/09/2020 | ..... | Absent |

| PARAMETER=> | Cadmium | Mercury | Lead |
|--------------|---------|-----------|----------|
| GPCB LIMIT=> | 2 mg/l | 0.01 mg/l | 0.1 mg/l |
| DATE | | | |
| 15/09/2020 | BDL | BDL | BDL |

| PARAMETER => | Copper | Zinc | Nickel | Arsenic | Flourides | Hexavelent Chromium | Total Chromium | Sodium |
|---------------|--------|--------|--------|----------|-----------|---------------------|----------------|--------|
| GPCB LIMIT => | 2 mg/l | 5 mg/l | 3 mg/l | 0.2 mg/l | 1.5 mg/l | 0.1 mg/l | 2.0 mg/l | 60 |
| DATE | | | | | | | | |
| 15/09/2020 | BDL | 1.4 | BDL | BDL | 0.9 | BDL | BDL | 20.7 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

Details of Effluent Treatment System

EFFLUENT TREATMENT PLANT (ETP) DETAILS

Effluent Treatment Plant:

We are segregating various effluent streams at plant level and giving proper treatment. The high TDS effluent stream is taken for evaporation. There is small quantity of high COD stream which is taken for chemical treatment. In the Unit, some quantity of aqueous effluent is generated which is having high COD and high TDS and is containing trace pesticides. This stream is sent for incineration at BEIL.

The normal effluent stream is collected in equalization tank and taken for primary, secondary and tertiary treatment. The Unit is having existing ETP of 550 KLD capacity. TOC / TN meter is installed online at ETP outlet to monitor the parameters.

Chemical Treatment :-

The unit has also provided a chemical treatment section where small quantity of certain stream containing high COD and BOD can be treated chemically, so that further treatment is possible in the effluent treatment plant. In the chemical treatment section, effluent streams containing more than 5000 mg/l COD are taken and treated with Hydrogen peroxide. After bringing down the COD level to less than 3000 mg/l, the effluent is taken to the equalization tank of effluent treatment Plant for further treatment along with the normal streams.

Existing Effluent Treatment Plant:

An existing ETP with design capacity 550 m³/day is adequate for the treatment of effluent from production facilities. The dilute waste streams generated from the process, utilities covering blow downs of cooling towers and boilers and waste from softening plant, and domestic sewage are treated in ETP.

The ETP covers the full-fledged primary, secondary and tertiary treatment systems, as described below:

In the primary treatment, the equalized raw effluent neutralized with lime and flocculent is added. The clear overflow from the primary clarifier is taken to the secondary treatment. The sludge from clarifier bottom is taken to filter press for sludge dewatering. Generated Sludge is being sent to common TSDF at BEIL, Ankleshwar

In the secondary treatment, three aeration tanks are provided in series. In aeration tank MLSS in the range of 3000 – 5000 mg/l is maintained with an MLVSS / MLSS ratio of approximately 0.6. The treated effluent coming out of the secondary treatment is collected in the sump and passed through activated carbon filter. Treated effluent is collected in a tank and taken to water re-cycling system. The permeate of RO is being recycled back in to process/cooling tower and reject is being sent to single stage evaporation.

Dewatering System:-

Filter press

Details of Guard Pond:-

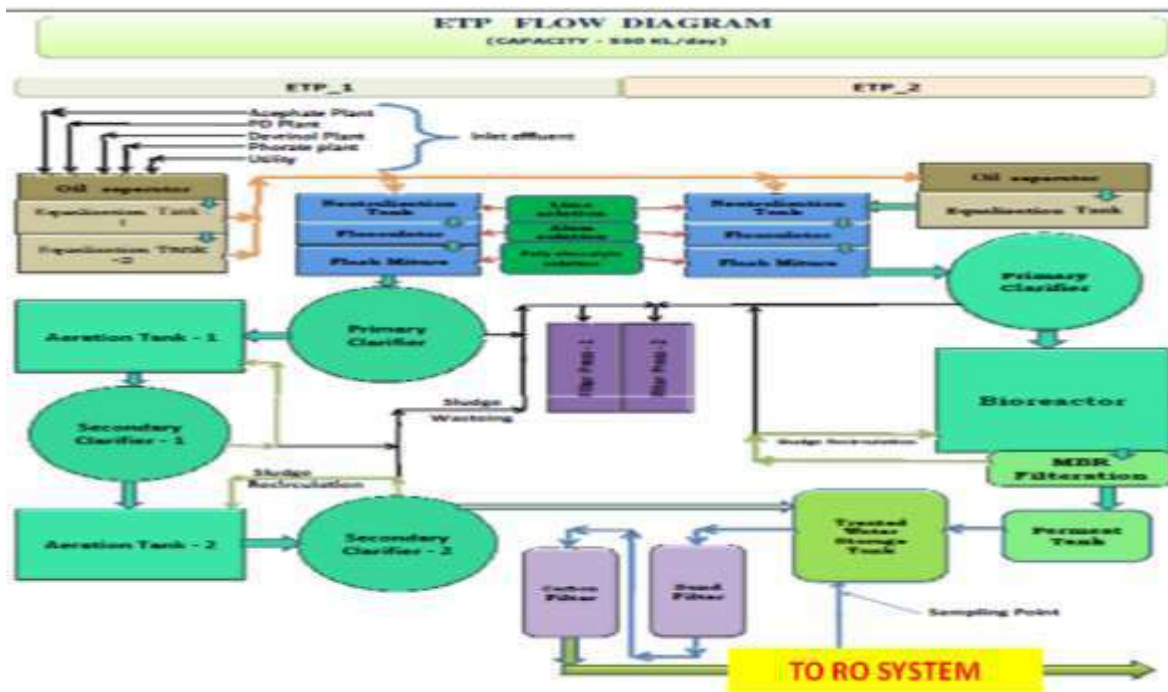
The Unit is having Guard Pond of 400 KL capacity to store treated effluent

List of Equipment of ETP (A)

| Sr. No. | Name of Unit | Nos | Dimensions |
|---------|--------------------------|-----|---------------------------------------|
| 01 | Oil and Grease Separator | 2 | 6.5 x 2.0 x 1.5 meters |
| 02 | Equalization Tank | 2 | 5.0 x 5.0 x 3.0 meters |
| 03 | Neutralizer | 1 | 2.5 x 2.5 x 2.75 meters |
| 04 | Lime Solution Tank | 2 | 1.5 x 1.5 x 2.0 meters |
| 05 | Alum Solution Tank | 2 | 1.5 x 1.5 x 2.0 meters |
| 06 | Flocculator | 1 | 2.5 ϕ x 2.0 meters |
| 07 | Primary Clarifier | 1 | 6.0 ϕ x 3.0 meters |
| 08 | Aeration Tank # 1 | 1 | 3 x 15 x 15 meters |
| 09 | Secondary Clarifier # 1 | 1 | 6.0 ϕ x 3.0 meters |
| 10 | Aeration Tank # 2 | 1 | 3 x 15 x 15 meters |
| 11 | Secondary Clarifier # 2 | 1 | 6.0 ϕ x 3.0 meters |
| 12 | Flash Mixer | 1 | 1.5 x 1.5 x 2.0 meters |
| 13 | Sludge Drying Bed | 1 | 6.5 x 33.5 meters |
| 14 | Pressurized Sand Filter | 1 | 1.5 meters ϕ x 3.0 meters height |
| 15 | Activated Carbon Filter | 1 | 1.5 meters ϕ x 3.0 meters height |

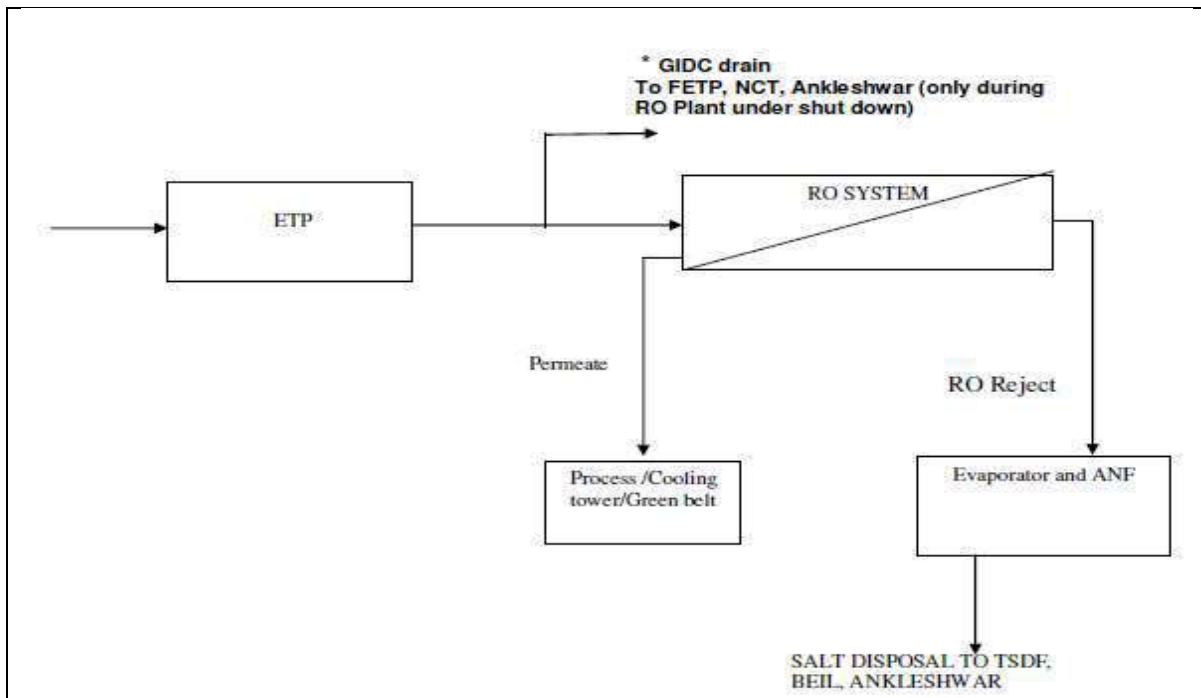
List of Equipment of ETP (B)

| Sr.No. | Item Description | Size | Qty (No.) | Total Volume – m3 or KL |
|--------|-----------------------------|----------------------------------|-----------|-------------------------|
| 1 | Oil & Grease Separator Tank | 5m x 1m x 2.5mLD + 0.5m FB | 1 | 12.5 |
| 2 | Equalization Tank | 5m x 4m x 4mLD + 0.5m FB | 1 | 80 |
| 3 | Reaction Tank | 2.5m x 2.5m x 2.5mLD + 0.5mFB | 1 | 15.625 |
| 4 | Flash Mixer | 1m x 1m x 1m LD + 0.5m FB | 1 | 1 |
| 5 | Flocculation | 2.5m x 2.5m x 1.5 m LD + 0.5m FB | 1 | 9.375 |
| 6 | Primary Clarifier | 5m x 3m SWD + 0.5 M FB | 1 | 58.87 |
| 7 | Anoxic Tank | 3m x 3m x 3m LD + 0.5m FB | 1 | 27 |
| 8 | Bioreactor # 3 | 15m X 8m X 6.0mLD + 0.5mFB | 1 | 720 |
| 9 | MBR Basin | 3m X 3m X 3m LD + 0.5m FB | 2 | 27 |
| 10 | Sludge Collection Tank | 2m x2m x 2m LD + 0.5m FB | 1 | 16 |
| 11 | Lime Preparation Tank | 1.5m x 1.5m x 2.8 m LD + 0.5m FB | 2 | 6.3 |
| 12 | Coagulant Dosing tank | 1.5m x 1.5m x 2.3 m LD + 0.5m FB | 2 | 5.175 |
| 13 | pH Correction Tank | 1m x 1m x 1m LD + 0.5m FB | 1 | 1 |



ETP FLOW DIAGRAM (EXISTING), CAPACITY @ 550 KLD-ETP TREATED WATER TO RO SYSTEM

Details of Zero Liquid Discharge (ZLD) system:



* (Please refer Annexure-10 for CC&A no. AWH- 85575 dated 04/05/2017 (Section:3 Conditions Under The Water Act- Specific Conditions No # 1, 6 & 7).

Equipment List OF RO Plant

| Sr No | Equipment Name | Capacity |
|-------|---|---|
| 1 | pH Adjustment tank | 0.9 m3 |
| 2 | Reaction tank-1 | 4.5 m3 |
| 3 | Neutralisation tank | 0.9 m3 |
| 4 | Reaction tank-2 | 4.5 m3 |
| 5 | Aeration tank | 8.4 m3 |
| 6 | Tube settler | 7 m3 |
| 7 | Filter feed sump | 29.5 m3 |
| 8 | chlorine contact tank | 4.25 m3 |
| 9 | Treated water coll tank | 33.6 m3 |
| 10 | Sludge cum backwash water coll sump | 9.45 m3 |
| 11 | HCl Dosing tank | 750 lit |
| 12 | FeSO4 dosing tank | 750 lit |
| 13 | NaOH dosing tank | 700 lit |
| 14 | Dolomite/MgSO4 dosing tank | 700 lit |
| 15 | PE dosing tank | 500 lit |
| 16 | NaOCl dosing tank | 50 lit |
| 17 | SMBS dosing tank | 200 lit |
| 18 | NaOH dosing tank (for MF system) | 100 lit |
| 19 | HCl dosing tank (for MF system) | 100 lit |
| 20 | NaOCl dosing tank (for MF system) | 100 lit |
| 21 | Acid dosing tank (for RO system) | -- |
| 22 | Antiscalent dosing tank (for RO system) | - |
| 23 | MF Peremate collection tank | 10000 lit |
| 24 | RO pereamte coll tank | 5000 lit |
| 25 | RO Permeate storage tank | 60000 lit |
| 26 | RO Reject storage tank | 32000 lit |
| 27 | Effluent collection pit | 2000 lit |
| 28 | HCl storage tank | 8000 lit |
| 29 | Service water tank | 2000 lit |
| 30 | Air blower for Aeration tank | 6 m3/hr & 0.3 kg/cm2 |
| 31 | Activated carbon filter (ACF) | 1.2m dia x 2m ht |
| 32 | MCF filter | as per detail engg |
| 33 | MF system | hydraunautics, Hydracap MAX 60-3no |
| 34 | Air blower for MF system | 46m3/hr & 0.7 kg/cm2 |
| 35 | CCD based RO system (package) | RO membrane SWC6-max, 440 ft2- 12nos, Pressure vessel, 600 psi-4 No |
| 36 | ACF feed/backwash pumps | 10 m3/hr & 2kg/cm2 |
| 37 | MF feed pumps | 12 m3/hr & 4.0 kg/cm2 |
| 38 | RC/CIP pumps (for MF system) | 12 m3/hr & 3 kg/cm2 |
| 39 | MCF feed pumps | 5 m3/hr & 3.0 kg/cm2 |
| 40 | RO-Permeate pumps | 10 m3/hr & 2.5 kg/cm2 |
| 41 | RO permeate storage tank pump | 10 m3/hr & 5.5 kg/cm2 |
| 42 | RO Reject storage tank pump | 5 m3/hr & 2.5 kg/cm2 |
| 43 | Sludge transfer pumps | 10m3/hr & 2.5 kg/cm2 |
| 44 | HCL storage tank pump | 3 m3/hr & 1.5 kg/cm2 |
| 45 | HCl dosing pumps | 0-50 LPH & 2 kg/cm2 |
| 46 | FeSO4 dosing pumps | 0-50 LPH & 2 kg/cm2 |
| 47 | NaOH feed pumps | 0-50 LPH & 2 kg/cm2 |
| 48 | Dolomite Dosing pumps | 0-30 LPH & 2 kg/cm2 |

| | | |
|----|------------------------------------|---|
| 49 | PE Dosing pumps | 0-30 LPH & 2 kg/cm ² |
| 50 | NaOCl dosing pumps | 0-5 LPH & 2kg/cm ² |
| 51 | SMBS dosing pumps | 0-10 LPH & 4 kg/cm ² |
| 52 | NaOH dosing pumps (for MF system) | 0-5 LPH & 4 kg/cm ² |
| 53 | HCl dosing pumps (for MF system) | 0-5 LPH & 4 kg/cm ² |
| 54 | NaOCl dosing pumps (for MF system) | 0-5 LPH & 4 kg/cm ² |
| 55 | Dewatering pump | 5 m ³ /hr & 2.5 kg/cm ² g |

RO plant Process Description

Treated effluent from ETP is pumped to receiving cum pH adjustment tank at a uniform rate. As per effluent feed parameters, pretreatment is required to treat effluent for removal of organic matter, oil & grease & suspended solids before feed to RO system. For pretreatment, chemical dosing, settling, precipitation of impurities followed by filtration & chlorination enhance life of RO membrane significantly.

Chemical dosing of ferrous sulphate at an acidic pH is carried out to take care of COD shock load expected rarely. pH is lowered by addition of HCl in the effluent stream. And again pH is elevated to 8-9 by addition of NaOH, for removal of reactive silica by addition of Magnesium sulphate/dolomite. For conversion to iron sulphate effluent is aerated by means of blower air. Chemically treated & aerated effluent is fed to tube settler to clarify the precipitate formed during chemical dosage & coagulation with MgSO₄ solution. Tube settler unit is provided with hopper bottom & from here, separated & settled sludge is periodically withdrawn to sludge sump under hydrostatic pressure.

Clarified effluent shall then be collected into Filter feed sump. From here it is fed to activated carbon filter with filter feed /backwash pumps. One pump is used during filtration mode and both pumps are used during backwash mode. Activated carbon filter is removing organic matter by carbon adsorption process & also removing suspended solids by filtration. Backwashing is done by same feed water. Dirty backwash water from backwash cycle is collected in sludge sump.

Filtered water is fed to Chlorine contact tank with NaOCl solution dosing for disinfection. Tank is provided with baffle wall for mixing. Disinfected water is collected to treated water collection tank.

Filtered & chlorinated effluent is pumped to Micro-filter (MF) for removal of very fine particles before it fed to RO system. Filtered water from MF system is collected at MF permeate collection tank. Same permeate water is used for cleaning of MF system. Necessary pumping arrangement & CIP system with chemical injection points are provided.

MF permeate is pumped to proposed RO system. There are two streams of RO system, each designed to handle 100 m³/day flow. For this, dedicated feed pump to feed MF permeate to micro-cartridge filter (MCF) of each stream is provided. MCF pumps are VFD driven. SMBS dosing for removal of residual chlorine are provided before cartridge filter. The RO system is designed with CCD technology having single stage RO and having maximum permeate recovery with lowest possible TDS in permeate. Filtrate out from MCF is then be feed to RO system through high pressure (HP) pump. Before high pressure pump, feed pH is adjusted and anti-scalant is dosed. There are two independent RO streams each comprising dedicated MCF, High pressure pump, Circulation pump as well as dedicated acid & antiscalant dosing pump and control panel. RO Permeate from each stream is fed to degassing arrangement for removal of acidity and collected at permeate holding tank. Permeate pumps are provided near the Permeate tank. As described above, dirty backwash water from ACF under pressure, wastewater from MF and settled sludge from Tube-settler bottom under hydrostatic pressure are collected at Sludge cum backwash water collection sump. Accumulated sludge is pumped to existing sludge handling section of ETP. Chemical wastewater from MF & RO system is diverted to drain pit. Whereas RO reject / brine water from proposed CCD-RO skid is fed to reject sump. Chemicals dosing facilities for chemicals required for pretreatment & RO section are located nearby system.

Single Stage Evaporation :-

Single Stage Evaporators are provided to treat generated High TDS effluent from process and reject water from RO plant. The salt generated from evaporation system is finally disposed off in the Centralized Secured landfill facility BEIL at Ankleshwar.

Please note that all waste water generated from process, boiler, cooling tower, domestic etc is being treated in existing ETP (capacity @ 550 KLD) and treated waste water is fed to RO system where RO reject is sent for forced evaporation & permeate is being recycled back in to the process/cooling tower. However, the unit is Zero Liquid Discharge (ZLD) since May-2014. However, GPCB has given certain relaxation for ZLD conditions (Please refer Annexure-15 for CC&A no. AWH- 85575 dated 04/05/2017 (Section:3 Conditions Under The Water Act- Specific Conditions No # 1, 6 & 7).

Disposal of Treated Wastewater

| Sr. No. | Source | Mode of Disposal |
|----------------|-------------------|---|
| 1 | ETP Effluent | The unit has become Zero discharge unit. Treated ETP effluent is being taken to Water recycling system (RO). RO permeate is recycled in process & reject is sent to Evaporation system. |
| 2 | High COD Stream | Segregated High COD stream is being taken to Chemical treatment (H ₂ O ₂ treatment) and then it is mixed with ETP effluent. |
| 3 | High TDS effluent | Segregated High TDS effluent is being taken to forced evaporation system. Generated Solid/Salt is send to BEIL, Ankleshwar |
| 4 | Incinerable Waste | Generated Incinerable waste is being send to BEIL ,Ankleshwar |

UPL LIMITED. UNIT - 2

F/QA/216

MONTH APRIL - 2020

02.05.2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY FACTOR | TYPE OF FISH |
|-------------------|-------------|------------|------------|-------------|--------------------|-----------------|
| 03.04.2020 | 8.14 | 79 | 23 | 1600 | 1 | ZIBRA |
| 06.04.2020 | 8.08 | 87 | 26 | 1700 | 2 | ZIBRA |
| 09.04.2020 | 7.51 | 83 | 24 | 1700 | 1 | ZIBRA |
| 12.04.2020 | 7.45 | 86 | 26 | 2000 | 2 | ZIBRA |
| 15.04.2020 | 6.86 | 82 | 24 | 2040 | 1 | ZIBRA |
| 18.04.2020 | 7.14 | 78 | 24 | 1970 | 1 | ZIBRA |
| 21.04.2020 | 7.17 | 81 | 23 | 1940 | 1 | ZIBRA |
| 24.04.2020 | 6.62 | 85 | 27 | 2000 | 1 | ZIBRA |
| 27.04.2020 | 7.45 | 77 | 22 | 1940 | 1 | ZIBRA |
| 30.04.2020 | 7.62 | 77 | 21 | 1990 | 1 | ZIBRA |
| Maximum | 8.14 | 87 | 27 | 2040 | 2 | |
| Minimum | 6.62 | 77 | 21 | 1600 | 1 | |
| Average | 7.40 | 82 | 24 | 1888 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

F/QA/216

MONTH MAY - 2020

02.06.2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY FACTOR | TYPE OF FISH |
|-------------------|-------------|------------|------------|-------------|--------------------|-----------------|
| 03.05.2020 | 7.27 | 87 | 23 | 2000 | 1 | ZIBRA |
| 06.05.2020 | 7.24 | 84 | 23 | 1990 | 1 | ZIBRA |
| 09.05.2020 | 7.59 | 74 | 18 | 1960 | 1 | ZIBRA |
| 12.05.2020 | 7.84 | 82 | 24 | 1600 | 2 | ZIBRA |
| 15.05.2020 | 8.12 | 73 | 21 | 1710 | 1 | ZIBRA |
| 18.05.2020 | 8.18 | 73 | 22 | 1670 | 1 | ZIBRA |
| 21.05.2020 | 8.05 | 86 | 24 | 1990 | 1 | ZIBRA |
| 24.05.2020 | 8.09 | 77 | 20 | 2000 | 1 | ZIBRA |
| 27.05.2020 | 7.23 | 73 | 20 | 1900 | 1 | ZIBRA |
| 30.05.2020 | 7.09 | 86 | 25 | 2050 | 1 | ZIBRA |
| Maximum | 8.18 | 87 | 25 | 2050 | 2 | |
| Minimum | 7.09 | 73 | 18 | 1600 | 1 | |
| Average | 7.67 | 80 | 22 | 1887 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

F/QA/216

MONTH JUNE - 2020

02.07.2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY | TYPE |
|-------------------|-------------|------------|------------|-------------|------------|---------|
| | | | | | FACTOR | OF FISH |
| 02.06.2020 | 7.33 | 81 | 23 | 1910 | 1 | ZIBRA |
| 05.06.2020 | 7.48 | 85 | 26 | 1930 | 1 | ZIBRA |
| 08.06.2020 | 7.36 | 81 | 24 | 1990 | 1 | ZIBRA |
| 11.06.2020 | 7.50 | 84 | 23 | 1950 | 1 | ZIBRA |
| 14.06.2020 | 7.49 | 84 | 24 | 1980 | 1 | ZIBRA |
| 17.06.2020 | 7.28 | 67 | 17 | 1880 | 1 | ZIBRA |
| 20.06.2020 | 7.05 | 81 | 23 | 1850 | 1 | ZIBRA |
| 23.06.2020 | 7.33 | 68 | 19 | 1710 | 1 | ZIBRA |
| 26.06.2020 | 7.42 | 83 | 26 | 1970 | 1 | ZIBRA |
| 29.06.2020 | 7.24 | 62 | 18 | 1840 | 1 | ZIBRA |
| Maximum | 7.50 | 85 | 26 | 1990 | 1 | |
| Minimum | 7.05 | 62 | 17 | 1710 | 1 | |
| Average | 7.35 | 78 | 22 | 1901 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

F/QA/216

MONTH JULY - 2020

02.08.2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY FACTOR | TYPE OF FISH |
|-------------------|-------------|------------|------------|-------------|--------------------|-----------------|
| 02.07.2020 | 7.49 | 84 | 24 | 1910 | 1 | ZIBRA |
| 05.07.2020 | 7.17 | 92 | 26 | 1790 | 1 | ZIBRA |
| 08.07.2020 | 7.64 | 73 | 21 | 1710 | 1 | ZIBRA |
| 11.07.2020 | 7.43 | 84 | 24 | 2070 | 1 | ZIBRA |
| 14.07.2020 | 7.93 | 92 | 29 | 1610 | 1 | ZIBRA |
| 17.07.2020 | 8.14 | 79 | 23 | 1600 | 1 | ZIBRA |
| 20.07.2020 | 7.49 | 78 | 20 | 1880 | 1 | ZIBRA |
| 23.07.2020 | 7.59 | 74 | 18 | 1960 | 1 | ZIBRA |
| 26.07.2020 | 8.10 | 74 | 22 | 1790 | 1 | ZIBRA |
| 29.07.2020 | 6.85 | 78 | 21 | 2010 | 1 | ZIBRA |
| Maximum | 8.14 | 92 | 29 | 2070 | 1 | |
| Minimum | 6.85 | 73 | 18 | 1600 | 1 | |
| Average | 7.58 | 81 | 23 | 1833 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

F/QA/216

02.09.2020

MONTH AUGUST - 2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY FACTOR | TYPE OF FISH |
|-------------------|-------------|------------|------------|-------------|--------------------|-----------------|
| 01.08.2020 | 7.81 | 73 | 21 | 1770 | 1 | ZIBRA |
| 04.08.2020 | 7.23 | 85 | 21 | 1730 | 1 | ZIBRA |
| 07.08.2020 | 7.36 | 77 | 29 | 1840 | 1 | ZIBRA |
| 10.08.2020 | 7.69 | 80 | 20 | 1840 | 1 | ZIBRA |
| 13.08.2020 | 7.13 | 83 | 23 | 1890 | 1 | ZIBRA |
| 16.08.2020 | 7.34 | 84 | 21 | 2000 | 1 | ZIBRA |
| 19.08.2020 | 8.09 | 77 | 26 | 1870 | 1 | ZIBRA |
| 22.08.2020 | 7.12 | 80 | 21 | 1570 | 1 | ZIBRA |
| 25.08.2020 | 7.46 | 88 | 25 | 1600 | 1 | ZIBRA |
| 28.08.2020 | 7.91 | 76 | 28 | 1700 | 1 | ZIBRA |
| 31.08.2020 | 7.50 | 82 | 24 | 1600 | 1 | ZIBRA |
| Maximum | 8.09 | 88 | 29 | 2000 | 1 | |
| Minimum | 7.12 | 73 | 20 | 1570 | 1 | |
| Average | 7.51 | 80 | 24 | 1765 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

MONTH SEPTEMBER - 2020

02.10.2020

TOXICITY FACTOR : Carried out with carbon bed outlet sample (05 Fish)

| DATE | pH | COD | BOD | TDS | TOXICITY FACTOR | TYPE OF FISH |
|-------------------|------|-----|-----|------|--------------------|-----------------|
| 03.09.2020 | 7.80 | 92 | 22 | 1800 | 1 | ZIBRA |
| 06.09.2020 | 7.95 | 96 | 26 | 1650 | 1 | ZIBRA |
| 09.09.2020 | 7.10 | 87 | 22 | 1930 | 1 | ZIBRA |
| 12.09.2020 | 7.00 | 87 | 24 | 1950 | 1 | ZIBRA |
| 15.09.2020 | 7.15 | 95 | 26 | 1920 | 1 | ZIBRA |
| 18.09.2020 | 7.15 | 99 | 28 | 2080 | 1 | ZIBRA |
| 21.09.2020 | 7.15 | 89 | 26 | 1910 | 1 | ZIBRA |
| 24.09.2020 | 7.20 | 77 | 26 | 2000 | 1 | ZIBRA |
| 27.09.2020 | 7.60 | 98 | 26 | 2060 | 1 | ZIBRA |
| 30.09.2020 | 7.40 | 97 | 28 | 2010 | 1 | ZIBRA |
| Maximum | 7.95 | 99 | 28 | 2080 | 1 | |
| Minimum | 7.00 | 77 | 22 | 1650 | 1 | |
| Average | 7.35 | 92 | 25 | 1931 | 1 | |
| %Deviation | Nil | Nil | Nil | Nil | Nil | |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)



United Phosphorus Limited

જાણકાર્ય, ઉ.પ.લ.,
Ankleshwar 393 002
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Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Ref : u2/e.clea/f/04
January 05, 2004

Unit # 2

Plot # 3405 / 3406, GIDC, Ankleshwar – 393 002

212
1994

Dr (Mrs) P L Ahujarai – Additional Director
Ministry of Environment and Forests
Paryavaran Bhavan, CGO Complex
Lodi Road
New Delhi – 110 003

Dear Madam;

Sub : Ex post-facto Environmental Clearance for United Phosphorus Ltd., Unit # 2
located at Ankleshwar, Gujarat

Ref : Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003

Kindly refer the above Environmental Clearance granted to our Unit # 2 located at Plot # 3405 / 3406, GIDC Estate, Ankleshwar – 393 002, Dist – Bharuch, Gujarat. We are giving below the required action plan with respect to certain conditions in the Environmental Clearance accorded to our Unit.

- Improvement in solvent recovery :- Kindly refer our discussion during the presentation to the IAA Expert Committee at New Delhi. Also, with respect to the CREP (Charter on Corporate Responsibilities on Environment), we have given an action plan for the solvent recovery. We are already getting the recovery of various solvents above 90 %. The details are given below;
 - (1) Ethylene Di Chloride @ 90 %;
 - (2) Mono Chloro Benzene @ 98 %;
 - (3) Methylene Di Chloride @ 96 %; and
 - (4) Ethyl Acetate @ 91 %
- Implementation of TF Test Method :- Our Officers have attended the workshop organized by CPCB at Baroda on 10th and 11th December 2003 on the new TF Test Method and based on the training given, we have already implemented the TF Test Method at our Unit in December 2003. We are getting TF=4
- Rain Water Harvesting :- The rain water harvesting system is already implemented. A plot plan with rain water harvesting system is attached herewith. The rain water from the administration building and canteen area is diverted to the storage and taken for



United Phosphorus Limited

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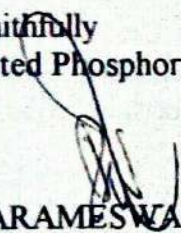
cooling tower tank and for other requirements. Also, part of the storm water is recharged through the existing bore wells. The system was implemented and found to be successful during the last monsoon.

- Contribution towards eco-development / community welfare programs :- We have already submitted the details of expenditure incurred by our Company for various eco-development / community welfare programs vide our letter dated 22.12.2003 to GPCB with a copy to MOEF. We have incurred expenditure more than Rs 16.50 Lacs for various eco-development / community welfare programs
- Membership of the Common Incineration System :- We have taken membership of the Common Incineration System being set up by Bharuch Enviro Infrastructure Ltd at Ankleshwar. A copy of the membership certificate is enclosed herewith.

We hope that the above is in order.

Thanking you

Yours faithfully
For, United Phosphorus Ltd


P N PARAMESWARAN
General Manager – Environment.

Encl : a/a

ANNEXURE: 16B

Compliance Status to Action Plan of Environmental Clearance J/11011/77/2002-IA.II dated: 17th July 2003 for UPL Ltd., Unit#2 Ankleshwar.

| Sr. No. | Condition | Compliance status to condition |
|---------|--|--|
| 1. | <p>Improvement in Solvent Recovery: - Kindly refer our discussion during the presentation to the IAA Expert Committee at New Delhi. Also, with respect to the CREP (Charter on Corporate Responsibilities on Environment), we have given an action plan for the solvent recovery. We are already getting the recovery of various solvents above 90%. The details are given Below;</p> <p style="margin-left: 40px;">(1) Ethylene Di Chloride @ 90% (2) Mono Chloro Benzene @ 98% (3) Methylene Di Chloride @ 96% (4) Ethyl Acetate @ 91%</p> | <p>Complied.</p> <p>The solvents namely methylene di chloride and ethyl acetate are recovered during process with average monthly recovery more than 90%. Ethylene dichloride (EDC) recovery is not in operation since none of the products which require EDC as solvent are produced in the period of April 2020 to September 2020. Similarly, Mono chlorobenzene (MCB) recovery is not operation since none of the products which require MCB as solvent are produced in the period of April 2020 to September 2020.</p> <p>We have solvent recovery above 95%. The Methylene dichloride (MDC) and Ethyl Acetate (EA) recovery quantity has been given in Reference 1.</p> |
| 2. | <p>Implementation of Tf Test Method: - Our officers have attended the workshop organised by CPCB at Baroda on 10th and 11th December 2003 on the new Tf Test Method and based on the training given, we have already implemented the Tf test Method at our Unit in December 2003. We are getting Tf = 4.</p> | <p>Complied.</p> <p>We are conducting both bio-assay test and Toxicity Factor test. We also achieve Toxicity factor TF-2. The Tf test is carried out by Internal laboratory regularly and data are maintained properly. All reports are being submitted to the Ministry regularly along with half yearly compliance report (Annexure: 15). The photographs showing Toxicity factor/Bio-assay test is attached as Reference-2.</p> |
| 3. | <p>Rain Water Harvesting: - The rain water harvesting system is already implemented. A plot plan with rain water from the administration building and canteen area is diverted to the storage and taken for cooling tower tank and for other requirements. Also, part of the storm water is recharged through the existing bore wells. The system was implemented and found to be successful during the last monsoon.</p> | <p>Complied.</p> <p>The rain water harvesting system is implemented in the unit which consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection (considering 24" rain fall) comes to 1100 KL in a year. The rain water is not recharged in the ground through any bore wells, rather the collected rain water is used in cooling tower make up. Also, part of the rain water is collected and taken to storage tanks. The storage tank capacity is 650 KL.</p> |

| | | |
|----|---|--|
| | | Please refer Reference-3 for details of rain water harvesting system implemented in the unit. |
| 4. | Contribution towards eco-development / community welfare programs: - We have already submitted the details of expenditure incurred by our Company for various eco – development / community welfare programs vide our letter dated 22.12.2003 to GPCB with a copy MoEF. We have incurred expenditure more than Rs. 16.50 Lacs for various eco-development / community welfare programs. | Complied. The company contributes towards eco-development and community welfare programs. The details of expenditure submitted vide our letter dated 22.12.2003 to GPCB with a copy MoEF is attached as Reference-4 . |
| 5. | Membership of the Common Incineration System: - We have taken membership of the Common Incineration System being set up by Bharuch Enviro Infrastructure Ltd. at Ankleshwar. A copy of the membership certificate is enclosed herewith. | The company is a valid member of Bharuch Enviro Infrastructure Ltd (BEIL) & landfillable and incinerable wastes are sent to common Incinerator and TSDF of Bharuch Enviro Infrastructure Ltd (BEIL), Ankleshwar. The copy of valid membership certificate of Bharuch Enviro Infrastructure Ltd. at Ankleshwar is attached as Reference-5 . |

Reference – 1

Detail of Solvent Recovery

AN EXAMPLE OF SOLVENT RECOVERY AT UPL UNIT-02

NAME OF SOLVENT: - Methylene Di Chloride (MDC)

Molecular Formula: CH₂Cl₂

CAS No.: 75-09-2

Molecular Weight: 84.93 g/mol

Density: 1.325 g/mL at 25°C

Boiling Point: 39.8 - 40.0 ° C

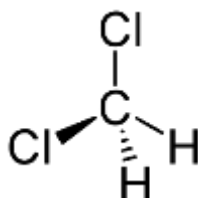
Melting Point: -97 °C

Viscosity (cP): 0.413 at 25°C.

Vapour Pressure: 353 mm Hg (20°C)

Vapour Density: 2.9 (vs. air)

Structure:



Methylene dichloride (MDC) also known as dichloromethane is a clear, colourless, volatile liquid with a moderately sweet aroma that is primarily used as an industrial solvent and also, as a potent paint stripper and paint thinner. MDC's volatility and ability to dissolve a wide range of organic compounds makes it a useful solvent for many chemical processes.

USAGE: - In production of pesticide Clomazone.

ABOUT CLOMAZONE: - IUPAC name is 2-[(2-chlorophenyl)methyl]-4,4-dimethyl-1,2-oxazolidin-3-one; CAS No. 81777-89-1. Clomazone is an Oxazolone herbicides, mainly used in soybean fields to control broadleaf weeds and grass weeds. Selective pre-emergence herbicide. The synthesis of isoprene compounds can be inhibited by up-regulation of roots and shoots to various parts of the plant. It hinders the biosynthesis of sensitive plant carotene and chlorophyll, so that the plant can germinate and germinate, but it has no pigment and will die in a short period of time.

PROCESS DESCRIPTION OF CLOMAZONE:

STEP-1: 3-CHLORO -N-HYDROXY 2,2-DIMETHYL PROPANAMIDE

Charge water and hydroxylamine HCl and adjust pH to 7-8 with caustic lye. Add 3CPC and caustic lye simultaneously. Filter solid and use for next step.

STEP-2: 4, 4 DIMETHYL ISOXAZOLIDINONE.

Charge water and step-1 solid and under stirring add caustic lye & adjust pH 8-9, maintain for 4-5. Use 4, 4 DMI solutions for step-3.

STEP-3: CLOMAZONE

Charge 4,4 DMI solution and add OCBC and maintain for 5-6 hrs. Cool reaction mass and separate aqueous layer and organic mass.

Dry HCL gas is passed in organic mass and maintains for 4-5 hrs, add sodium carbonate and caustic lye and heat mass and add water and maintain temp 70-90°C for 30 minutes, separate organic and aqueous layer. Dehydrate organic mass by distillation to get Clomazone Tech.

CHEMICAL REACTION: -

Step -1

| | | | | | | | | | | | |
|----|---|---|---|---|--------------------|---|--|---|----------------------------|---|------------------|
| | $C_5H_9Cl_2O$ 3Chloro-2,2-Dimethylpropanoyl Chloride | + | $NH_2OH.HCl$ Hydroxylamine Hydrochloride | + | $2NaOH$ Caustic | → | $C_5H_9ClNO_2$ 3Chloro-N-Hydroxy 2,2-Dimethyl propanamide | + | $2NaCl$ Sodium Chloride | + | $2H_2O$ Water |
| MW | 155 | | 69.5 | | 80 | | 151.5 | | 117 | | 36 |

Step -2

| | | | | | | | | | |
|----|---|---|-------------------|---|---|---|---------------------------|---|-----------------|
| | $C_5H_9ClNO_2$ 3Chloro-N-Hydroxy 2,2-Dimethylpropanamide | + | $NaOH$ Caustic | → | $C_5H_9NO_2$ 4,4-Dimethyl isoxazolidin -3-one (4,4-DM) | + | $NaCl$ Sodium Chloride | + | H_2O Water |
| MW | 151.5 | | 40 | | 115 | | 58.5 | | 18 |

Step -3

| | | | | | | | | | | | |
|----|--|---|---|---|-------------------|---|--|---|---------------------------|---|-----------------|
| | $C_5H_9NO_2$ 4,4-Dimethyl isoxazolidin-3-one (4,4-DM) | + | $C_7H_5Cl_2$ O-Cgloro Benzylchloride | + | $NaOH$ Caustic | → | $C_{12}H_{14}NO_2Cl$ Clomazone isomer | + | $NaCl$ Sodium Chloride | + | H_2O Water |
| MW | 115 | | 161 | | 40 | | 239.5 | | 58.5 | | 18 |

Step -4

| | | | | | | | | | | | |
|----|--|---|----------------------------|---|-------------------|---|--------------------------------|---|---------------------------|---|-----------------|
| | $C_{12}H_{14}NO_2Cl$ Clomazone isomer | + | HCl Hydrochloric Acid | + | $NaOH$ Caustic | → | $C_8H_7Cl_2NaO_3$ Clomazone | + | $NaCl$ Sodium Chloride | + | H_2O Water |
| MW | 239.5 | | 36.5 | | 40 | | 239.5 | | 58.5 | | 18 |

PROCESS FLOW DIAGRAM:

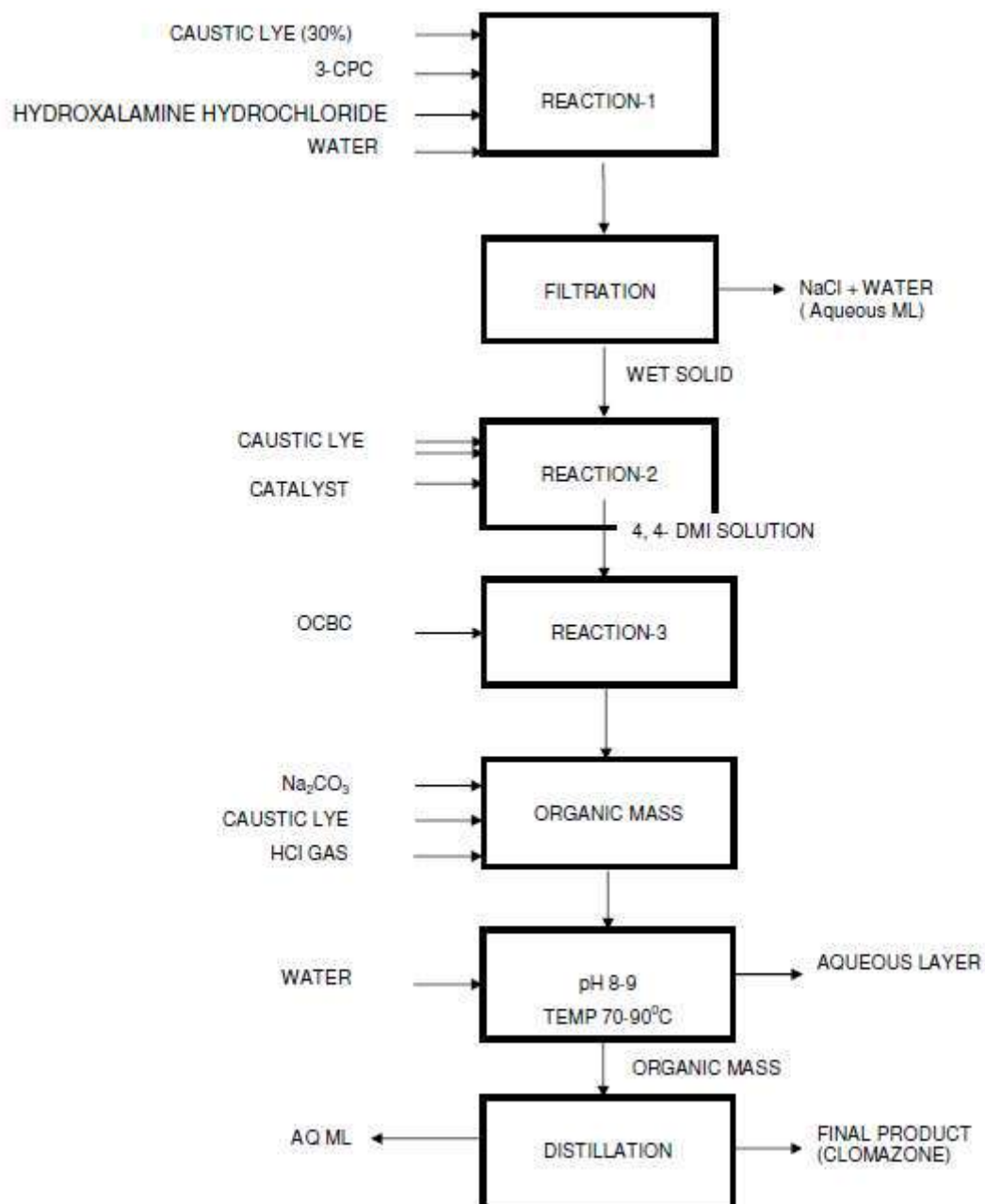


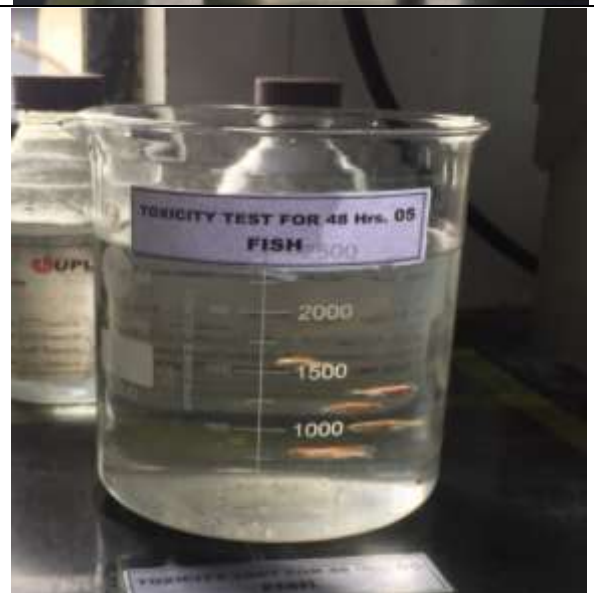
Figure 1: Process flow diagram of Clomazone manufacturing.

Reference – 2

Toxicity Factor Test

TOXICITY FACTOR TEST

Photographs showing Toxicity Factor test and Bio-assay test arrangements in the internal laboratory.



Reference – 3

Rainwater Harvesting System
at UPL Unit 02

Rainwater Harvesting System at UPL Unit 02

As per action plan submitted to MoEF, New Delhi, the rain water harvesting system is installed at UPL Unit 2 for laboratory building, DG house and store & commercial godown.

The rain water harvesting system implemented in the Unit # 2 of UPL Ltd. which of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection (considering 24" rain fall) comes to 1100 KL in a year.

The rain water is not recharged in the ground through any bore wells, rather the collected rain water is used in cooling tower make up.

Also, part of the rain water is collected and taken to storage tanks. The storage tank capacity is 650 KL.



Reference – 4

Details of Expenses towards
Eco-development &
Community Welfare Activities



United Phosphorus Limited

Ankleshwar 393 002
Gujarat (India)

Fax (02646) 251434

Mumbai Office :
"UNIPHOS" House
C D Marg, 11th Road,
Khar (W), Mumbai

Phone (022) 26040462, 26041111
Fax (022) 29040467

Ref : u2/1994ff/03
December 22, 2003

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar

Mr R D Gandhi – Environmental Engineer
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A
Gandhinagar – 382 010

Ack. COPY

Dear Sir,

Sub :- Ex Post Facto Environmental Clearance

Ref :- (1) Your letter # GPCB/Eco-cell/3/2003/BRCH-1/32843 dated 12.11.2003
(2) Environmental Clearance issued by MOEF, New Delhi vide Letter # J.11011/77/2002-IA II dated 17.07.2003

Kindly refer discussion with our Mr P N Parameswaran at AIA Office on 10.12.2003. Also, please refer the above Show Cause Notice regarding payment of penalty towards the Ex Post Facto Environmental Clearance obtained for our Unit # 2 located at Plot # 3405 / 3406, GIDC Estate, Ankleshwar – 393 002, Dist – Bharuch, Gujarat.

With reference to the condition of payment of penalty, we have already submitted our letter dated 22.08.2003 giving the details of the expenses incurred by us so far, towards eco development and social welfare activities.

We have already spent more than the required amount of Rs 16.50 Lacs towards eco development and community welfare programs during the last few years. We are giving below the required details;

- Start up of Pesticide products (Phorate, Acephate and Terbutphos) for which Ex Post Facto Environmental Clearance was obtained = For Phorate / Terbutphos, the NOC was obtained on 17th November 1995 and For Acephate, the NOC was obtained on 02nd April 1996
- Total investment for the project = Rs 16.50 Crores
- 1 % of the investment made = Rs 16.50 Lacs
- Details of amounts already spent towards eco development and community welfare programs = more than Rs 16.50 Lacs, as per the following details;

- (1) Contribution to Sanskardeep Trust, GIDC, Ankleshwar for construction of school and development of infrastructure facilities, as follows;

| | | |
|----------------------|----|-------------|
| • During 1997 – 1998 | Rs | 5,00,000/- |
| • During 1998 – 1999 | Rs | 24,00,000/- |
| • During 1999 – 2000 | Rs | 1,00,000/- |
| • During 2001 – 2002 | Rs | 50,000/- |
| • During 2002 – 2003 | Rs | 1,00,000/- |

Total Rs 31,50,000/-

A letter obtained from Sanskardeep Trust dated 15.12.2003 is also attached herewith.

- (2) Contribution to Ankleshwar Rotary Welfare Trust, GIDC, Ankleshwar for a technical library, as follows;

| | | |
|----------------------|----|------------|
| • During 1997 – 1998 | Rs | 1,20,000/- |
| • During 1998 – 1999 | Rs | 1,20,000/- |
| • During 1999 – 2000 | Rs | 1,20,000/- |
| • During 2000 – 2001 | Rs | 1,20,000 |
| • During 2001 – 2002 | Rs | 1,20,000/- |
| • During 2002 – 2003 | Rs | 1,20,000/- |
| • During 2003 – 2004 | Rs | 70,000/- |

Total Rs 7,90,000/-

A letter obtained from Ankleshwar Rotary Welfare Trust dated 04.12.2003 is also attached herewith.

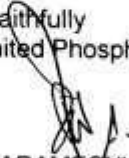
We hope that you will be able to consider the expenditure incurred by our Company for the development of primary education facility in the nearby area of our industry and development & operation of a technical library in the GIDC Estate. The total expenditure towards the above two community welfare measures amounts to Rs 39.40 Lacs. Since we have already incurred expenditure above Rs 16.50 Lacs, we request you to consider the expenditure towards eco development and community welfare programs as mentioned in our Environmental Clearance letter issued by MOEF, New Delhi vide Letter # J.11011/77/2002-IA.II dated 17.07.2003.

It may also be noted that we have also contributed towards various other eco development and community welfare programs in the nearby areas, like Tree Plantation, Hospital, Balwadi etc, and if required, we can submit the proofs. Since the expenditure required is only Rs 16.50 Lacs which is already covered in the contribution to Sanskardeep Trust and Ankleshwar Rotary Welfare Trust, we hope that this details will be sufficient.

In case you need any additional information, we can provide the same on hearing from you.

Thanking you

Yours faithfully
For, United Phosphorus Ltd


P N PARAMESHWARAN
General Manager – Environment.

Encl : a/a

- CC :
- Dr (Mrs) P L Ahujarai – Additional Director
Ministry of Environment and Forests
Paryavaran Bhavan, CGO Complex
Lodi Road
New Delhi – 110 003
 - Mr S H Vegda – Regional Officer
Gujarat Pollution Control Board
C – 1 / 119 / 3, GIDC Phase II
Narmaga Nagar
Bharuch – 392 015
 - Dr AD / BAM

C:\network\lep\environmental\clearance\crpedoc\sdw

Ply
26/12/2003
GUJARAT POLLUTION CONTROL BOARD
SECTOR No. 10-A,
GANDHINAGAR-382 007

Ref. No. :

Date :

SANSKARDEEP TRUST

Post Box No. 124, GIDC Estate, ANKLESHWAR, Dist. Bharuch-393 002, Phone : 55435, 55895

Chairman :

Shree D. A. Anandpura
Phone : 51455 51591

Vice-Chairman :

Shree M. J. Patel

Hon. Gen. Secretary :

Shree N. K. Navadia
Phone : 52111, 51112, 24355

Hon. Treasurer :

Shree R. T. Manubarwala

Trustries :

Shree Kamlesh Udani
Shree A. A. Panjwani
Shree Deepak Bhimani
Shree K. N. Patel
Shree P. L. Patel
Shree B. K. Patel
Shree M. R. Bajaj
Shree Josef Kurian

President :

Ankleshwar Industries Association

Hon. Gen. Secretary :

Ankleshwar Industries Association

Hon. Treasurer :

Ankleshwar Industries Association

December 15, 2003

United Phosphorus Ltd.,
GIDC, Ankleshwar-393002

Dear Sirs,

Sub: - Contributions received from United Phosphorus Ltd for our School

Please refer our discussion on the above.

We are operating a school- Sanskardeep School at GIDC Estate, Ankleshwar. This School is constructed with liberal contributions from organizations like UPL. In the absence of good schools in the industrial city, the local students were finding it difficult for getting primary education. Considering the requirement of developing the community, our Trust has taken initiative in construction of buildings and starting the primary education. The amounts received during the last few years from UPL, are as follows: -

| | | |
|-------------|-----|--------------|
| ❖ 1997-1998 | Rs. | 5,00,000=00 |
| ❖ 1998-1999 | Rs. | 24,00,000=00 |
| ❖ 1999-2000 | Rs. | 1,00,000=00 |
| ❖ 2000-2001 | Rs. | --- |
| ❖ 2001-2002 | Rs. | 50,000=00 |
| ❖ 2002-2003 | Rs. | 1,00,000=00 |

31,50,000=00
=====

For the amounts received, we have already issued our receipts from time to time.

Ref. No. :

Date :

SANSKARDEEP TRUST

Post Box No. 124, GIDC Estate, ANKLESHWAR, Dist. Bharuch-393 002. Phone : 55435, 55895

Chairman :

Shree D. A. Anandpura
Phone : 51455, 51591

Vice-Chairman :

Shree M. J. Patel

Hon. Gen. Secretary :

Shree N. K. Navadia
Phone : 52111, 51112, 24355

Hon. Treasurer :

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Shree Kamlesh Udani
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Shree K. N. Patel
Shree P. L. Patel
Shree B. K. Patel
Shree M. R. Bajaj
Shree Josef Kurian

President :

Ankleshwar Industries Association

Hon. Gen. Secretary :

Ankleshwar Industries Association

Hon. Treasurer :

Ankleshwar Industries Association

The amounts received have been spent for construction of school building especially the new block, which was constructed during the year 2000-2001. Also, the contributions have been utilized for development of the school, construction of various infrastructure facilities like playground, toilet block, library, computer facility, Laboratory etc.

We hope that the above information will be sufficient.

Thanking you,

Yours Faithfully,
FOR SANSKARDEEP TRUST.


15/12/2003
N.K. NAVADIA



Trust Reg. No. 117/1988

ANKLESHWAR ROTARY WELFARE TRUST

[PROMOTED by ROTARY Club of Ankleshwar]

P.B.No. - 8, 117, GIDC, ANKLESHWAR-393 002

Ref No. :

Date

United Phosphorus Ltd.
GIDC Estate
Ankleshwar --- 393002

December 04, 2003

Dear Sirs,

Sub:- Contributions received from United Phosphorus Ltd. for our Library.

Please refer our discussion on the above.

We are operating a library with the support of your esteemed organization and the library is getting continuous contribution since beginning. The library is utilized by the students, community members, employees of industries and industrialists. Our library has large collection of books covering chemical engineering, electrical engineering, science, medicine, environment and safety, fictions, various encyclopedias and chemical abstracts. The amounts received during the last few years are as follows:

1997—1998 = Rs. 1,20,000
1998—1999 = Rs. 1,20,000
1999—2000 = Rs. 1,20,000
2000—2001 = Rs. 1,20,000
2001—2002 = Rs. 1,20,000
2002—2003 = Rs. 1,20,000
2003—2004 = Rs. 70,000


TOTAL = Rs. 7,90,000

We have already issued our Stamped Receipts for the amounts received from time to time. We have utilized the amounts given for the purchase of furniture, bookshelves, computer, technical books, journals and for maintenance of our library.

Thanking you.

Yours faithfully

For, Ankleshwar Rotary Welfare Trust.


Dr. Naresh Shah.

Our Permanent Projects :

- | | |
|----------------------------------|---|
| 1. Green Ankleshwar | 5. Polio Vaccination Centre |
| 2. UPS Library | 6. Rotary Community Centre |
| 3. Aids for Handicaps | 7. Ambulance |
| 4. Family Conciliation Committee | 8. Centre for Mentally Retarded Children |
| | 9. Ankleshwar Railway Station. Redefinition |

GREEN ANKLESHWAR - FREE FROM POLLUTION BY 2001

Donation exempted from income tax.

Reference – 5

BEIL Membership Certificate



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Original to SD

22nd January, 2014

UPL Limited
Plot No.3405/06,
GIDC, Ankleshwar.

Dear Sir,

We hereby certify that you have become member for the common Solid/Hazardous Waste Disposal Facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked solid waste quantity **1692 MT/ Year** Your Membership No. is **Ank/030.1**.

Thanking you,

Yours faithfully,
For BHARUCH ENVIRO INFRASTRUCTURE LTD.

B. Talwar

AUTHORISED SIGNATORY



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Original k' sy

22nd January, 2014

UPL Limited
Plot No. 3405/3406,
GIDC, Ankleshwar.

Sub: Membership Certificate for Common Incineration Facility.

Dear Sir,

We hereby certify that you have become member for the common Incineration facility of Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar. You have booked quantity of **4605 MT/Year.** Your Membership No. is **CI/Ank/004.**

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.


AUTHORISED SIGNATORY

Annexure- 17

Compliance Status to Action Plan of Environmental Clearance J/11011/77/2002-IA.II
dated: 17th July 2003, UPL Ltd. for Hazardous Waste Minimization, Unit#2 Ankleshwar.

| Sr. No. | Action Plan Requirement | Current Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-------------|--------------------------|--|---------------|----------------------|---------|------------|------------|----------------|-------------|-------------|----------------------|---------------|---------------|--|--|--|--|--------------|-----------------------------------|---|-------------|-------|------------------------|---------------------------|--------|------|--------------------------|---------------------------|-------|
| a. | <p>Action Plan for waste minimisation for the next 2 to 3 years indicating the pollution load reduction measures</p> <p>01. To minimise solvent consumption – reduction in solvent consumption from the present levels</p> <p>Ethyl Acetate = 5 % Methylene Dichloride = 5 % Toluene (i.e., From 97 litres/MT to 77 litres/MT) = 20%</p> <p>02. Reduction in Raw Material Consumption Ethyl Mercaptan = 2 % DMPAT = 1 % DETA = 1 %</p> <p>03. Reduction in Energy consumption for the total unit from present level (steam / power) = 10%</p> | <p>Complied. The unit is taking various measures for waste minimisation and the action plan implementation status for the same are as follows:</p> <p>01. The unit has minimised solvent consumption in the production process from the consumption reported in year 2003. The improvement details are tabulated below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Year</th> <th colspan="2" style="text-align: center;">Solvent Used in Acephate</th> </tr> <tr> <th style="text-align: center;">Ethyl Acetate</th> <th style="text-align: center;">Methylene Dichloride</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2003-04</td> <td style="text-align: center;">1760 Kg/MT</td> <td style="text-align: center;">6500 Kg/MT</td> </tr> <tr> <td style="text-align: center;">Apr20 - Sep'20</td> <td style="text-align: center;">53.83 Kg/MT</td> <td style="text-align: center;">19.30 Kg/MT</td> </tr> <tr> <td style="text-align: center;">% Improvement</td> <td style="text-align: center;">96.94%</td> <td style="text-align: center;">99.70%</td> </tr> </tbody> </table> <p>Toluene is proposed as solvent in Paraquate Dichloride product which was changed in product mix change and is not in production since last two years.</p> <p>02. The unit has reduced consumption of following raw material</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Raw Material Consumption Norms for Products</th> </tr> <tr> <th style="text-align: center;">Raw Material</th> <th style="text-align: center;">Year 2003-04 Consumption in Kg/MT</th> <th style="text-align: center;">Apr 20 to Sep 2020 Consumption in Kg/MT</th> <th style="text-align: center;">% Reduction</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">DMPAT</td> <td style="text-align: center;">1348 Kg/MT of Acephate</td> <td style="text-align: center;">1095.72 Kg/MT of Acephate</td> <td style="text-align: center;">18.72%</td> </tr> <tr> <td style="text-align: center;">DETA</td> <td style="text-align: center;">822.2 Kg/MT of Terbuphos</td> <td style="text-align: center;">769.66 Kg/MT of Terbuphos</td> <td style="text-align: center;">6.39%</td> </tr> </tbody> </table> <p>03. The unit has reduced 10% energy consumption of the total unit and committed to further improvements to reduce energy consumption. The unit is ISO 50001:2011 Energy Management System (Bureau Veritas Certification) Certified. The unit has also been awarded wit Frist Prize in Chemical Sector for National Energy Conservation Awards (NECA 2016) by Bureau of Energy Efficiency.</p> | Year | Solvent Used in Acephate | | Ethyl Acetate | Methylene Dichloride | 2003-04 | 1760 Kg/MT | 6500 Kg/MT | Apr20 - Sep'20 | 53.83 Kg/MT | 19.30 Kg/MT | % Improvement | 96.94% | 99.70% | Raw Material Consumption Norms for Products | | | | Raw Material | Year 2003-04 Consumption in Kg/MT | Apr 20 to Sep 2020 Consumption in Kg/MT | % Reduction | DMPAT | 1348 Kg/MT of Acephate | 1095.72 Kg/MT of Acephate | 18.72% | DETA | 822.2 Kg/MT of Terbuphos | 769.66 Kg/MT of Terbuphos | 6.39% |
| Year | Solvent Used in Acephate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ethyl Acetate | Methylene Dichloride | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2003-04 | 1760 Kg/MT | 6500 Kg/MT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apr20 - Sep'20 | 53.83 Kg/MT | 19.30 Kg/MT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| % Improvement | 96.94% | 99.70% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Material Consumption Norms for Products | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Raw Material | Year 2003-04 Consumption in Kg/MT | Apr 20 to Sep 2020 Consumption in Kg/MT | % Reduction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DMPAT | 1348 Kg/MT of Acephate | 1095.72 Kg/MT of Acephate | 18.72% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETA | 822.2 Kg/MT of Terbuphos | 769.66 Kg/MT of Terbuphos | 6.39% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sr. No. | Action Plan Requirement | Current Status |
|---------|--|--|
| | <p>04. Reduction in overall water consumption from the present level = 20%</p> <p>05. Modified P2S5 handling system with totebins at a cost of Rs 25 Lacs – this will avoid spillages</p> <p>06. Drum Recycling which will reduce decontamination and disposal</p> | <p>04. The unit has reduced overall water consumption by as the unit has obtained Environmental Clearance vide EC letter no J-11011/1281/2007-IA(II) dated April 15th, 2008 with permission of total water consumption of 1043 KLD from GIDC water supply. The unit maintains record of water consumption. Please refer the details of water consumption summarised in EC Condition No 3 of Half Yearly Compliance report.</p> <p>05. The unit has installed Tote bins for P₂S₅ handling system which avoids spillages. The photograph showing Tote Bins is attached as Annexure 18 of Half Yearly Compliance report.</p> <p>06. The unit has installed drum de-contamination facility where all drums are getting de-contaminated and reused/recycled. The photograph showing drum decontamination facility is attached as Annexure 19 of Half Yearly Compliance report.</p> |
| b. | <p>Commitment for installation of incinerator at the unit and common incinerator at the TSDF within one year</p> <p>We are attaching herewith undertaking for upgradation of our existing incineration system.</p> <p>It may kindly be noted that we are becoming members of the common incineration facility being set up by Bharuch Enviro Infrastructure Ltd at Ankleshwar, Gujarat</p> | <p>Complied. The Unit has discontinued operation of captive incinerator. The communication on discontinuation of captive incinerator has been made to GPCB vide UPL Letter dated 08/09/2006. The copy of letter is attached as Annexure 4A of Half Yearly Compliance report. The Unit has taken membership of common Incineration facility at BEIL – Ankleshwar. BEIL membership is enclosed as Annexure-4 of Half Yearly Compliance report.</p> <p>The unit has discontinued operation of captive incinerator.</p> <p>The generated Organic waste streams such as low boiler, distillation residues, aqueous waste are being sent to BEIL, Ankleshwar for incineration. BEIL membership is enclosed as Annexure-4 of Half Yearly Compliance report.</p> |
| c. | <p>The unreacted solvents should be recovered and liquid effluent containing high COD and toxic chemicals, should be treated as per Hazardous Waste Management Rules before discharging into solar evaporation pond</p> <p>We will ensure only high TDS waste water have practically no organic load, will be sent to the evaporation</p> | <p>Complied. The solvent recovery is above 95 % and the unit has solvent recovery internally integrated with manufacturing process. The detailed report on solvent recovery in compliance to submitted action plan to MoEF, attached as Annexure 16 B of Half Yearly Compliance report.</p> <p>The unreacted solvents (Organic residue) from distillation system after recovery of solvent is sent for incineration at BEIL, Ankleshwar. The quantity of waste sent to BEIL for</p> |

| Sr. No. | Action Plan Requirement | Current Status |
|---------|---|---|
| | <p>pond. We are taking mainly scrubber solution from the incinerator. We will also regularly monitor the characteristics of the material in the evaporation pond. If required, for any streams, we will give required pre-treatment to reduce the COD.</p> | <p>incineration has been attached as Annexure 05 of Half Yearly Compliance report.</p> |
| d. | <p>The company should develop a system to share the information on regular basis with other entrepreneurs or innovative techniques developed with respect to technology and pollution control measures, etc.</p> <p>We are already sharing various information on waste minimisation, cleaner production practices, sustainable development, improvement in the environmental field, etc., to industries in this region. We are allowing various professionals from industries / academic institutions to visit our facilities. We are also participating in various seminars being organised by industries' associations like ICMA and we share our information. We will continue these activities so that information on improvements in the environmental field can be available to others which will facilitate overall improvement on the environment. Through our subsidiary company – Environ Technology Ltd (operators of Common Effluent Treatment Plant at Ankleshwar) – we are helping industries in implementation of cleaner production practices.</p> | <p>Complied.</p> <p>The unit is sharing innovative techniques implemented and improvements with regulatory GPCB/CPCB/MoEF and also demonstrates in lead for cleaner production concept implementation. The Unit is first pesticide unit has achieved ZLD. Recently received Gujarat Cleaner Production Award 2015-16 from Gujarat Cleaner Production Council, Government of Gujarat Forests & Environment Department on 5th June 2018.</p> <p>The unit also reports details of Environmental Performance In Responsible Care and details of innovative techniques adopted with respect to Technology and Pollution Control Measures are given in published Sustainability Report of FY-2019-20.</p> |

Photograph showing P2S5 Recovery by Tote Bins – Annexure 18



Photograph showing drum decontamination facility – Annexure 19



Green Belt Development

Annexure -20





United Phosphorus Limited

Ankleshwar 393 002
Gujarat (India)

Fax : (02646) 251434
250493

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Ref : u2/1994/f/03
December 22, 2003

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar

Mr R D Gandhi – Environmental Engineer
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A
Gandhinagar – 382 010

Act. Copy

Dear Sir;

Sub :- Ex Post Facto Environmental Clearance

Ref :- (1) Your letter # GPCB/Eco-cell/3/2003/BRCH-1/32843 dated 12.11.2003
(2) Environmental Clearance issued by MOEF, New Delhi vide Letter # J.11011/77/2002-IA.II dated 17.07.2003

Kindly refer discussion with our Mr P N Parameswaran at AIA Office on 10.12.2003. Also, please refer the above Show Cause Notice regarding payment of penalty towards the Ex Post Facto Environmental Clearance obtained for our Unit # 2 located at Plot # 3405 / 3406, GIDC Estate, Ankleshwar – 393 002, Dist – Bharuch, Gujarat.

With reference to the condition of payment of penalty, we have already submitted our letter dated 22.08.2003 giving the details of the expenses incurred by us so far, towards eco development and social welfare activities.

We have already spent more than the required amount of Rs 16.50 Lacs towards eco development and community welfare programs during the last few years. We are giving below the required details;

- Start up of Pesticide products (Phorate, Acephate and Terbuphos) for which Ex Post Facto Environmental Clearance was obtained = For Phorate / Terbuphos, the NOC was obtained on 17th November 1995 and For Acephate, the NOC was obtained on 02nd April 1996
- Total investment for the project = Rs 16.50 Crores
- 1 % of the investment made = Rs 16.50 Lacs
- Details of amounts already spent towards eco development and community welfare programs = more than Rs 16.50 Lacs, as per the following details;

(1) Contribution to Sanskardeep Trust, GIDC, Ankleshwar for construction of school and development of infrastructure facilities, as follows;

| | | |
|----------------------|----|----------------|
| • During 1997 – 1998 | Rs | 5,00,000/- |
| • During 1998 – 1999 | Rs | 24,00,000/- |
| • During 1999 – 2000 | Rs | 1,00,000/- |
| • During 2001 – 2002 | Rs | 50,000/- |
| • During 2002 – 2003 | Rs | 1,00,000/- |
| Total | | Rs 31,50,000/- |

A letter obtained from Sanskardeep Trust dated 15.12.2003 is also attached herewith.

(2) Contribution to Ankleshwar Rotary Welfare Trust, GIDC, Ankleshwar for a technical library, as follows;

| | | |
|----------------------|----|---------------|
| • During 1997 – 1998 | Rs | 1,20,000/- |
| • During 1998 – 1999 | Rs | 1,20,000/- |
| • During 1999 – 2000 | Rs | 1,20,000/- |
| • During 2000 – 2001 | Rs | 1,20,000 |
| • During 2001 – 2002 | Rs | 1,20,000/- |
| • During 2002 – 2003 | Rs | 1,20,000/- |
| • During 2003 – 2004 | Rs | 70,000/- |
| Total | | Rs 7,90,000/- |

A letter obtained from Ankleshwar Rotary Welfare Trust dated 04.12.2003 is also attached herewith.

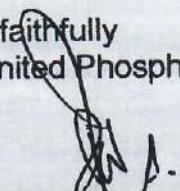
We hope that you will be able to consider the expenditure incurred by our Company for the development of primary education facility in the nearby area of our industry and development & operation of a technical library in the GIDC Estate. The total expenditure towards the above two community welfare measures amounts to Rs 39.40 Lacs. Since we have already incurred expenditure above Rs 16.50 Lacs, we request you to consider the expenditure towards eco development and community welfare programs as mentioned in our Environmental Clearance letter issued by MOEF, New Delhi vide Letter # J.11011/77/2002-IA.II dated 17.07.2003.

It may also be noted that we have also contributed towards various other eco development and community welfare programs in the nearby areas, like Tree Plantation, Hospital, Balwadi etc, and if required, we can submit the proofs. Since the expenditure required is only Rs 16.50 Lacs which is already covered in the contribution to Sanskardeep Trust and Ankleshwar Rotary Welfare Trust, we hope that this details will be sufficient.

In case you need any additional information, we can provide the same on hearing from you.

Thanking you

Yours faithfully
For, United Phosphorus Ltd


P N PARAMESNWARAN
General Manager – Environment.

Encl : a/a

CC : Dr (Mrs) P L Ahujarai – Additional Director
Ministry of Environment and Forests
Paryavaran Bhavan, CGO Complex
Lodi Road
New Delhi – 110 003

: Mr S H Vegda – Regional Officer
Gujarat Pollution Control Board
C – 1 / 119 / 3, GIDC Phase II
Narmaga Nagar
Bharuch – 392 015

: Dr AD / BAM

C:\network – krp/environment/environmental clearance\crpndnc.sdv

ph
28/12/2003

GUJARAT POLLUTION CONTROL BOARD
SECTOR No. 10-A,
SANDHINAGAR-392 015



United Phosphorus Limited

Ref : u2/e.clea/f/04
February 07, 2004

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Annexure 22
Phone : (02646) 250578, 250563
250493
Fax : (02646) 251434

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar

Mr R D Gandhi – Environmental Engineer
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A
Gandhinagar – 382 010

Dear Sir,

Sub :- Ex post-facto Environmental Clearance from MOEF, New Delhi

Ref :- Your letter # eco-cell/brch-1/2649 dated 31.01.2004

Kindly refer your above letter regarding Environmental Clearance obtained by our Unit and expenditure incurred towards eco-development / community welfare programs. As discussed with you on 06.02.2004, we have taken up with MOEF for clarification regarding the period to be considered for expenditure. As per our understanding, the expenditure incurred after implementation of the project is to be considered. It is mentioned in the MOEF Circular dated 23.06.2003 that "it has been further decided that for all proposals granted post facto environmental clearance, the amount required to be earmarked for eco-development measures including community welfare measures, shall be deposited (minus the amount already spent, if any) in a separate account to be maintained by the SPCB concerned."

We have already spent more than the required amount for various eco-development / community welfare programs. We can provide more details for the expenditure incurred so that we may not have to remit any amount to GPCB. However we will wait for the clarification from MOEF. A copy of our letter dated 07.02.2004 forwarded to MOEF is attached herewith for your kind information.

Thanking you

Yours faithfully
For, United Phosphorus Ltd

P N PARAMESWARAN
General Manager – Environment.

[Handwritten Signature]
GUJARAT POLLUTION CONTROL BOARD
SECTOR NO. 10-A,
GANDHINAGAR-382 010

Encl : a/a

No.J-11011/180/2016- I A II(I)
Government of India
Minister of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110003
31 Jan 2018

To,

M/s UPL LIMITED UNIT TWO
Plot no. 117/118, GIDC Notified Industrial Area,
Bharuch-393002
Gujarat

Tel.No.0264-6251223; Email:vishal.patel1@uniphos.com

Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

- | | |
|---|---|
| 1. Proposal No.: | IA/GJ/IND2/71948/2017 |
| 2. Name of the Proposal: | Proposed Expansion in Existing Capacity of Pesticides Technical, Intermediate & Pesticides Formulation Products & Addition of New Pesticides Technical Product within Existing Premises at M/s UPL Limited, UNIT # 02, Plot No. 3405/ 3406/3460A, Notified GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat |
| 3. Category of the Proposal: | Industrial Projects - 2 |
| 4. Project/Activity applied for: | 5(b) Pesticides industry and pesticide specific intermediates (excluding formulations) |
| 5. Date of submission for TOR: | 30 Dec 2017 |

In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

5(b): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR PESTICIDES INDUSTRY AND PESTICIDE SPECIFIC INTERMEDIATES (EXCLUDING FORMULATIONS) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

2) Introduction

- i. Details of the EIA Consultant including NABET accreditation
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3) Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing Iexisting operation of the project from SPCB shall be attached with the EIA-EMP report.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (*in case of projects involving forest land more than 40 ha*)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

- 10)** Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11) Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

- 12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13) 'A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR PESTICIDES INDUSTRY AND PESTICIDE SPECIFIC INTERMEDIATES (EXCLUDING FORMULATIONS)

1. Commitment that no banned pesticides will be manufactured.
2. Details on solvents to be used, measures for solvent recovery and for emissions control.
3. Details of process emissions from the proposed unit and its arrangement to control.
4. Ambient air quality data should include VOC, other process- specific pollutants* like NH₃*, chlorine*, HCl*, HBr*, H₂S*, HF*, CS₂ etc., (*-as applicable)
5. Work zone monitoring arrangements for hazardous chemicals.
6. Detailed effluent treatment scheme including segregation for units adopting 'Zero' liquid discharge.
7. Action plan for odour control to be submitted.
8. A copy of the Memorandum of Understanding signed with cement manufacturers indicating clearly that they co-process organic solid/hazardous waste generated.
9. Authorization/Membership for the disposal of liquid effluent in CETP and solid/hazardous waste in TSDF, if any.
10. Material Safety Data Sheet for all the Chemicals are being used/will be used.
11. Authorization/Membership for the disposal of solid/hazardous waste in TSDF.
12. Details of incinerator if to be installed.
13. Risk assessment for storage and handling of hazardous chemicals/solvents. Action plan for handling & safety system to be incorporated.
14. Arrangements for ensuring health and safety of workers engaged in handling of toxic materials.

No.J-11011/77/2002-IA II
Government of India
Ministry of Environment & Forests
I.A.Division

Email: plahujarai@yahoo.com

Paryavaran Bhavan, CGO Complex,
Lodi Road, New Delhi-110003

Tele No 24363973
Dated July 17, 2003

To,

The General Manager-Environments

M/s United Phosphorus Limited
117, GIDC

Ankleshwar - 393002
Gujarat, India

Subject: Pesticide unit of M/s United Phosphorus Ltd. - Unit-II at Ankleshwar, District Bharuch, Gujarat- ex-post facto clearance reg.

Sir,

This has reference to your letter no. u2/02 dated 21st August, 2002 along with project documents including EIA /EMP report, NOC from GSPCB, questionnaire and CD containing all the above documents and subsequent clarifications/additional information furnished vide your letters dated 3rd September, 2002. 11th Nov, 2002, 28th Feb, 2003 and 20th June, 2003 and letter no. Env-10.2002-163-P-1 dated 2nd November, 2002 from the Forest and Environment Department, Government of Gujarat on the above mentioned project. The Ministry of Environment and Forests has examined your application. It is noted that proposal involves manufacture of pesticides. The production profile given is as under:

1. Phorate/Turbophos - 3600 TPA
2. Acephate - 960 TPA

The land area of the project is 65625 km². The project does not involve forest land and displacement of people. Water requirement of 340.1 m³/day will be met from the GIDC. The solid waste in the form of ETP sludge (7.5 MTPM), incinerator ash (9.0TPM) and inorganic salts from evaporation system (30MTPM) will be disposed off in the common secured landfill of M/s Bharuch Enviro Infrastructure Limited at Ankleshwar. It is also noted that Public hearing of the project was held on 16.01.02. Gujarat Pollution Control Board has granted NOC for 300MTPM of Phorate (Tech)/Turbophos(Tech) on 17th Nov, 1995 and 80MTPM of Acephate on 2nd April, 1996. Cost of the project is Rs. 16.5 crores.

2.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27th

January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions:

A. Specific Conditions

- i. The gaseous emissions (SO₂, NO_x, HCl, HC, NH₃, H₂S and Cl₂) and particulate matter from various process units should conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. Fugitive emissions in the workplace environment, product, raw material storage areas must be regularly monitored. The fugitive emissions containing solvents from the process and storage tank vents and accidental leakage of ethyl mercaptan and tertiary butyl mercaptan should be subjected to thermal destruction in the fume incinerator. The flue gas emissions from the incinerator should conform to the standards prescribed by the Gujarat Pollution Control Board.
- iii. The process emissions (H₂S and NH₃, methyl chloride and volatile organic carbon) should be scrubbed through ventury and packed column scrubbers and conform to prescribed standards. The efficiency of the scrubber should be improved and maintained as per the best practicable technology. VOC data should be monitored and submitted to the Ministry.
- iv. As reflected in the EIA /EMP report, effluent generation should not exceed 218m³/d. To reduce the organic load , various effluent streams should be segregated , and following treatment system should be followed.
 - The organic waste water streams generated from the process and low boilers and distillation residues generated from the process, which are organic in nature should be collected separately and incinerated.
 - The effluent stream containing high dissolved solid before discharging into solar evaporation pond(SEP) having an area of 4000 sq.m should be treated suitably. Solvents from the effluent should be recovered before discharging into SEP. Besides, as reflected in EIA /EMP report, aqueous stream containing high dissolved solid should be evaporated by installation of forced evaporation system with the help of steam.
 - The streams with high organic load (i.e. high COD and BOD), should be treated chemically with hydrogen peroxide and then sent to effluent treatment plant for further treatment.
 - The dilute waste streams generated from the process, utilities including blow downs of cooling towers and boilers and wastewater from softening plant and domestic waste water should be given primary, secondary and tertiary treatment. The treated effluent after conforming to the prescribed

standards by GPCB should be discharged into GIDC drain, which also carries effluent from the industrial estates namely Ankleshwar, Panoli and Jhagadia. The treated effluent should conform to the standards prescribed by the Gujarat State Pollution Control Board vide its Gazette Notification dated 30th October, 2001 before discharging into sea via Amlakhadi drain. The effluent quality before disposal to the Amlakhadi drain should be as follows:

| | |
|-------------------|------------|
| PH - | 5.5 to 8.5 |
| BOD - | 130 mg/l |
| COD - | 100 mg/l |
| Suspended solid - | 100mg/l |
| Oil and grease- | 10mg/l |
| Phenol - | 1mg/l |
| Sulphides - | 0.5mg/l |

- v. The Company should recover methyl chloride (CH₃Cl) by installation of CH₃Cl recovery plant. Further, solvent recovery should be improved and attempts should be made to achieve atleast 90% recovery, wherever possible. Rest of the solvents, which can't be recovered should be incinerated. Action plan in this regard should be submitted to the Ministry within three months.
- vi. The Company should upgrade existing incinerator for incineration of hazardous waste. The organic aqueous and solid waste generated from the unit should be collected and incinerated for total destruction. As reflected in the EIA / EMP report, the solid waste and the ash obtained after incineration should be stored within the plant premises in a pit with impervious flooring and leachate collection system. The incinerated ash and the sludge from ETP should be finally disposed off in a common Treatment, Storage and Disposal Facility (TSDF) developed by M/s Bharuch Enviro Infrastructure Limited. The leachate should be sent to ETP for treatment.
- vii. As per the commitment given to the Ministry, the existing incineration system should be upgraded by 31.03.2004 . The Company should also take membership of common Incineration system being set up by Bharuch Enviro Infrastructure Limited at GIDC, Ankleshwar.
- viii. The destructive efficiency of the incinerator should be assessed by an agency like the Central Pollution Control Board and a report submitted. The Company should monitor VOCs and data submitted to the Ministry /CPCB/SPCB regularly.
- ix. As per the Charter on Corporate Responsibility on Environment Protection, the bio-assay test should be replaced by Toxicity Factor test method developed by CPCB. Toxicity factor of four (TF-4) should be achieved by December 2003 and TF-2 by July, 2006. Action plan in this regard should be submitted within three months on issue of this letter.
- x. As per the action plan submitted to the Ministry, the Company should adopt waste minimization/cleaner production techniques to reduce solvent, raw

material, water and energy consumption. The company should install modified P2S5 handling system with tote bins to prevent spillages. To reduce decontamination and disposal, the Company should recycle the drums.

- xi. The Company should undertake rainwater harvesting measures as per action plan in this regard submitted to this Ministry.
- xii. The project proponent shall comply with the environmental protection measures and safeguards recommended in EIA/EMP/Risk Analysis reports as well as the recommendations of the public hearing panel.
- xiii. Green belt of adequate width and density in the project area of 1200 sq.m in addition to 7642 sq.m of area already afforested should be provided to mitigate the effect of fugitive emissions all round the plant. The development of green belt along the boundary wall, open space and avenue roads should be improved in consultation with the local DFO as per the CPCB guidelines.
- xiv. As per the policy decision taken vide this Ministry's Circular no. J-21011/8/98-IA II (I) dated 14th May, 2002 and 23rd June, 2003, the Company should earmark a separate fund i.e. 1% of the project cost (Rs. 16.5 crores as per questionnaire) for eco-development measures including community welfare measures in the project area. The amount should be deposited within two months in a separate account to be maintained by the Gujarat Pollution Control Board. The plans in this regard should be submitted to the Ministry as well as GPCB within three months of issue of this letter. After approval of action plan by the GPCB, the amount deposited may be released in two installments based on progress of implementation.

B. GENERAL CONDITIONS

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess adequacy of the conditions imposed and to add additional environmental protection measures required, if any.
- iii. The project authorities must strictly comply with the rules and regulations under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000. Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc., must be obtained.
- iv. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection, storage, treatment and disposal of hazardous wastes.

- v. The overall noise levels in and around the plant area should be kept well within the standards (8SdBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under the Environment (P) Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. Occupational health surveillance programme should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. First aid facilities in the Occupational Health Care Centre should be strengthened and medical records of each employee should be maintained separately.
- vii. A separate Environment Management Cell equipped with full fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.
- viii. The project authorities will provide adequate funds both for recurring and non-recurring expenditure to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all conditions stipulated herein. The funds should not be diverted for any other purposes.
- ix. The implementation of the project vis-a-vis Environmental Action Plans will be monitored by Ministry's Regional Office at Bhopal/Gujarat Pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report should be submitted to the monitoring agencies.
- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.
- xi. The project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work, if any.

4.0 The Ministry may revoke or suspend the clearance, if the implementation of any of the above conditions is not satisfactory.

5.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.

6.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act,1974, the Air (Prevention and Control of Pollution) Act, 1981, the environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and the rules.

(Dr. P. L. Ahujarai)
Additional Director

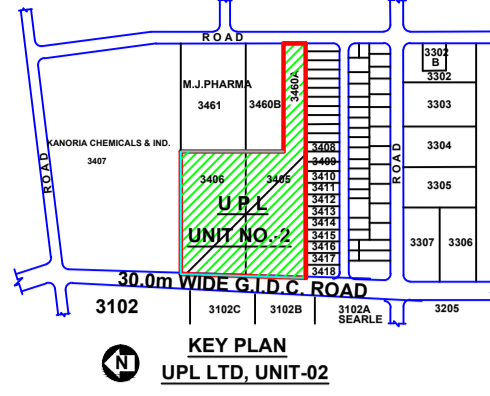
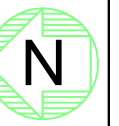
Copy to:-

1. Secretary, Department of Environment & Forests, Govt. of Gujarat.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5 , Arera Colony, Bhopal - 462 016.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar New Delhi – 110 032.
4. Chairman Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhi Nagar, -382043
5. The Sr. Adviser (EI division), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. The Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

(Dr. P. L. Ahujarai)
Additional Director

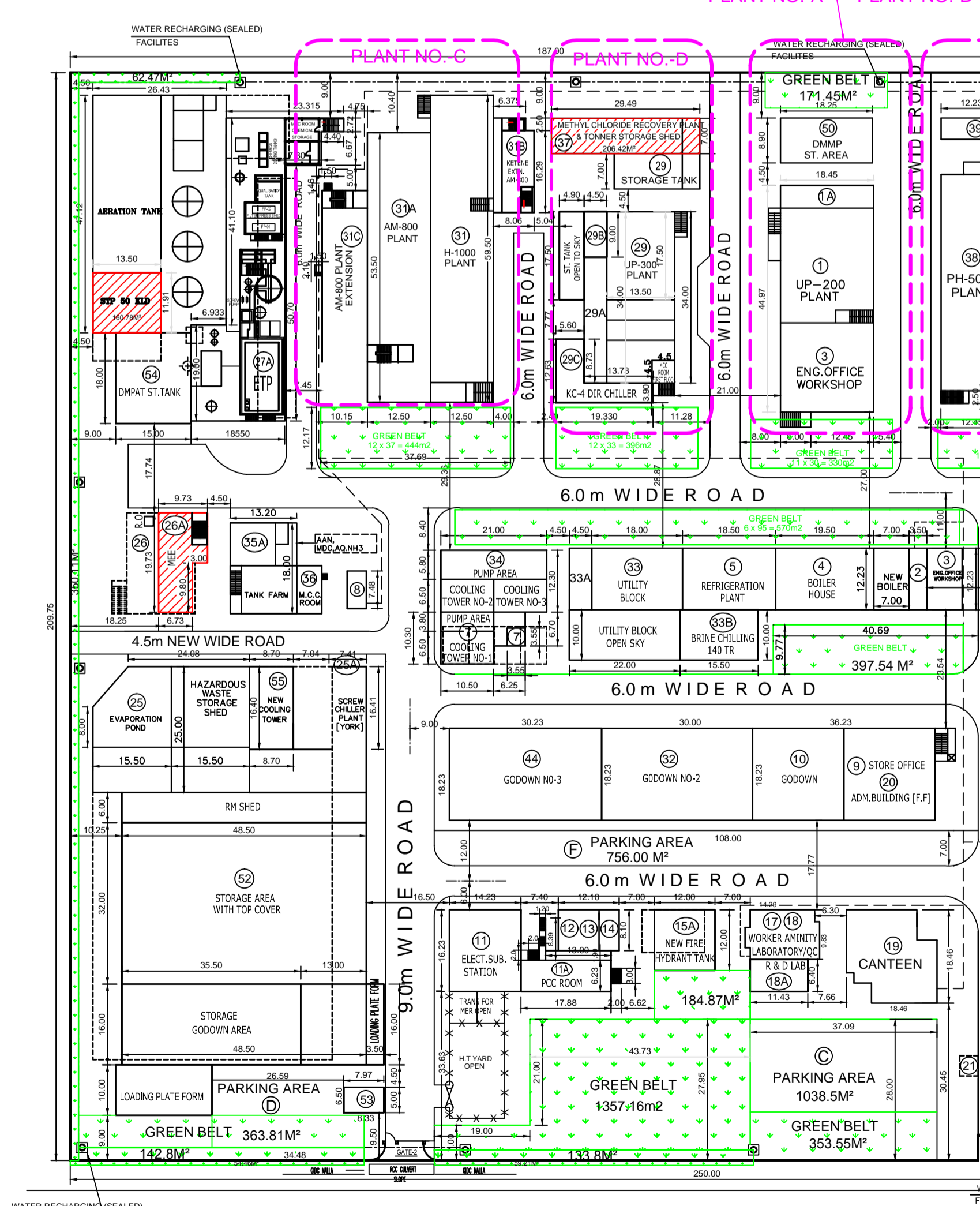
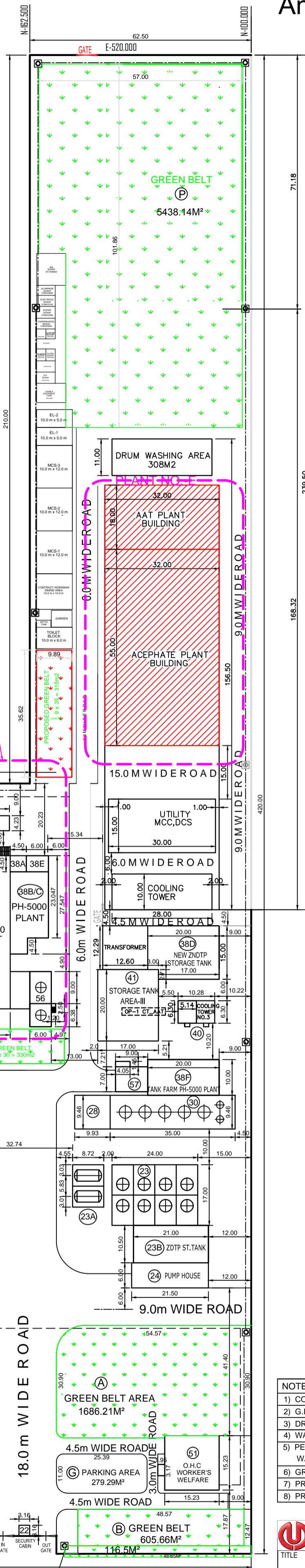
Membership Certificate of Final Effluent Treatment Plant (FETP) Operated by Narmada Clean Tech (NCT)

| | |
|--|---|
|  | NARMADA CLEAN TECH LIMITED (A Subsidiary of GIDC) Surti Bhagor, Nr. Gujarat Gas Company, Umarwada Road, Ankleshwar - 393 001, Dist. Bharuch (Gujarat) Tel. No. 02646-645285, 645635 E-mail : info@nctc.co.in, web site : www.nctc.co.in |
| Membership Certificate | |
| Membership Certificate No. : <u>A/M/E/D/U-1</u> | Date : <u>23/02/2012</u> |
| To Whomsoever it may Concern | |
| This is to certify that <u>UNITED PHOSPHORUS LIMITED (UNIT -2)</u> | |
| Located at <u>3405/3406, GIDC ESTATE, ANKLESHWAR-393002</u> | |
| is a valid Member for the Final Effluent Treatment Plant-FETP and conveyance system of NCTL. | |
| The committed quantity for fresh raw water consumption (KLD): | <u>1043.08</u> |
| The effluent discharge quantity as per GPCB-CCA (KLD): | <u>246</u> |
| The effluent discharge quantity booked at NCTL (KLD): | <u>561</u> |
| For & on Behalf of Narmada Clean Tech Limited | |
|  Chief Executive Officer | |



| SrNo | Particulars | Existing area in Sq. meter | Additional area in Sq. meter | Total area in Sq. meter |
|----------------------------|---|----------------------------|------------------------------|-------------------------|
| 1 | Admin block | 2610 | 0 | 2610 |
| 2 | Plant facility | 2697.06 | 1402 | 4099.06 |
| 3 | Utility facility | 2642 | 934 | 3576 |
| 4 | Explosive tank farm | 761 | 242 | 1003 |
| 5 | Chemical tank farm | 566 | 326 | 892 |
| 6 | Raw material ware house | 751 | 296 | 1047 |
| 7 | Finish good tank farm | 691 | 96 | 787 |
| 8 | QC lab | 494 | 0 | 494 |
| 9 | Chlorine tonner shed | 130 | 0 | 130 |
| 10 | MeCl Recovery plant including Tonner shed for Methyl Chloride | 129.94 | 76.48 | 206.42 |
| 11 | Compressed cylinder area | 15 | 0 | 15 |
| 12 | Approach road/drains | 13894.98 | 71.2 | 13966.18 |
| 13 | Others (change rooms, washrooms, internal passages etc) | 3298 | 106.8 | 3404.8 |
| 14 | Effluent Treatment Plant | 2831 | 0 | 2831 |
| 15 | STP Area | 0 | 160.78 | 160.78 |
| 16 | Hazardous waste storage area | 623 | 0 | 623 |
| 17 | Parking Area | 1409.31 | 0 | 1409.31 |
| TOTAL Build up Area | | 33543.29 | 3711.26 | 37254.55 |
| 18 | Open area | 18170.13 | 0 | 14143.87 |
| 19 | Green belt | 13911.58 | 315 | 14226.58 |
| TOTAL Plot Area | | 65625 | 4026.26 | 65625 |

| Plant No. | Product name | Area, Sq M. |
|-----------|--|-------------|
| A | D-Devriol | 894.08 |
| | Metobionuron | |
| | Di Methyl Methyl Phosphonate (DMMP) | |
| | Devriol | |
| | Imazatic Technical | |
| B | Terbuphos / Phorate / Metasystox (combined capacity) | 878.76 |
| | Acetamid DR Imidac oprid (Combined Capacity) | |
| | Di Ethyl Tri-Phosphoryl Chloride (DETCI) | |
| | Am no Aceto Nitrate Sulphate (AANS) | |
| | Myristic amine oxide (MO) | |
| | D Ethyl Thio Phosphoric Acid (DETA) / ZNTP (Combined Capacity) | |
| | Absolute Alcohol | |
| | Para Chloro O-Cresol (PCOC) | |
| | Noflan | |
| | Di Methyl Phosphorus Amido Thionate | |
| C | Meta Titron | 1752.62 |
| | Acetate (Existing) | |
| | Phosphamidon (PD) | |
| | Sulfan | |
| | Azoxystrobin | |
| D | Clozoxazole | 1044.58 |
| | Monocrotophos/2,4-D Technical (2,4-Dichloro Phenoxy Acetic Acid) (Combined Capacity) | |
| | Dichlorvos (DDVP) | |
| | Mesotrion OR Pyrazosulfuron Ethyl | |
| | Metribuzin | |
| E | Acophate (New) | 4080.32 |



- NOTE:
- 1) COMMON PLOT SHOWN IN
 - 2) G.I.D.C. ROAD SHOWN IN
 - 3) DRAINAGE SHOWN IN
 - 4) WATER SUPPLY LINE
 - 5) PERCOLATING BORE WELL (SEALED) WATER RECHARGING FACILITIES
 - 6) GREEN BELT
 - 7) PROCESS PLANT BUILDING
 - 8) PROCESS PLANT BUILDING

UPL LIMITED
 TITLE: **SITE PLAN [UNIT-2] NEW PLAN LOCATION MARKING**

| | | |
|--------------------|---------------|---------------------------------------|
| CAD No. 2017 | PLANT UNIT-02 | UNIT 2 |
| U2/ENV./DWG/SP-101 | | |
| SCALE 1:500 | PROJECT No. | SHEET 1 OF 1 |
| ISSUED TO | ISSUED BY | ISSUED DATE |
| DATE 13.11.17 | REV 0 | DESCRIPTION NEW PLAN LOCATION MARKING |
| DRAWN R.C.PATEL | CHEKED NMSJ | APPD BY |
| ISSUED DETAILS | | FORMAT No. U2/ENV./DWG/SP-101 |

Noise Monitoring Reports

F/QA/216

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT. MONTH APRIL - 2020

02.05.2020

| DATE ==> | 03/04/2020 | | 18/04/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 37.9 | 35.0 | 41.9 | 34.2 |
| Near Tank Farm Area | 49.6 | 44.2 | 43.9 | 39.4 |
| B/H Alcohol Plant | 52.6 | 38.4 | 55.1 | 35.1 |
| Between Clomazone & Boiler | 52.6 | 49.8 | 61.9 | 60.2 |
| Between ETP / Incinerator | 61.1 | 57.8 | 62.9 | 58.5 |
| B/H Acephate Plant | 62.4 | 60.4 | 61.5 | 58.3 |
| Near Canteen | 35.4 | 33.1 | 39.1 | 36.2 |
| B/H Evaporation Pond Towards road side | 64.2 | 58.1 | 62.2 | 60.2 |
| DG Room Outside (1 Meter distance in ambient) | 64.9 | 53.8 | 64.9 | 61.2 |
| New DG Room Outside (1 Meter distance in ambient) | 62.3 | 60.2 | 65.6 | 61.1 |
| Inside Boiler House | 64.8 | 62.0 | 63.7 | 60.5 |
| Near PH-5000 Fume Incinerator | 66.5 | 64.6 | 63.8 | 61.1 |
| PH-5000 utility (kc-12) | 64.3 | 61.2 | 63.6 | 59.9 |
| Acephate utility (kc-12) | 66.8 | 61.1 | 64.3 | 60.2 |
| Mecl utility (kc-93) | 64.2 | 61.1 | 65.1 | 62.1 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT. MONTH MAY - 2020

20.05.2020

| DATE ==> | 03/05/2020 | | 18/05/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 35.2 | 32.2 | 40.1 | 36.6 |
| Near Tank Farm Area | 52.2 | 40.2 | 55.5 | 37.7 |
| B/H Alcohol Plant | 62.2 | 44.5 | 58.5 | 42.2 |
| Between Clomazone & Boiler | 64.4 | 62.1 | 63.3 | 61.5 |
| Between ETP / Incinerator | 64.9 | 57.4 | 63.1 | 59.9 |
| B/H Acephate Plant | 66.2 | 60.6 | 64.8 | 61.7 |
| Near Canteen | 37.7 | 31.1 | 39.1 | 34.4 |
| B/H Evaporation Pond Towards road side | 67.7 | 66.5 | 65.4 | 63.9 |
| DG Room Outside (1 Meter distance in ambient) | 69.9 | 60.1 | 68.1 | 64.4 |
| New DG Room Outside (1 Meter distance in ambient) | 67.8 | 65.6 | 66.6 | 60.6 |
| Inside Boiler House | 69.2 | 67.7 | 64.8 | 66.9 |
| Near PH-5000 Fume Incinerator | 68.8 | 67.7 | 64.5 | 64.9 |
| PH-5000 utility (kc-12) | 65.9 | 63.8 | 66.8 | 65.7 |
| Acephate utility (kc-12) | 68.8 | 68.9 | 67.2 | 68.1 |
| Mecl utility (kc-93) | 67.7 | 68.2 | 65.9 | 66.8 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT. MONTH JUNE - 2020

02.07.2020

| DATE ==> | 03/06/2020 | | 18/06/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 38.8 | 40.2 | 39.3 | 41.2 |
| Near Tank Farm Area | 55.2 | 45.6 | 58.5 | 42.5 |
| B/H Alcohol Plant | 64.6 | 52.6 | 59.9 | 52.5 |
| Between Clomazone & Boiler | 63.3 | 64.6 | 68.2 | 62.6 |
| Between ETP / Incinerator | 66.6 | 61.2 | 64.8 | 62.2 |
| B/H Acephate Plant | 67.2 | 63.3 | 65.6 | 63.2 |
| Near Canteen | 45.5 | 42.2 | 46.2 | 44.2 |
| B/H Evaporation Pond Towards road side | 69.2 | 64.6 | 68.1 | 66.2 |
| DG Room Outside (1 Meter distance in ambient) | 69.2 | 65.2 | 67.4 | 63.7 |
| New DG Room Outside (1 Meter distance in ambient) | 68.6 | 63.5 | 68.2 | 65.5 |
| Inside Boiler House | 68.3 | 66.7 | 67.2 | 64.3 |
| Near PH-5000 Fume Incinerator | 69.2 | 65.2 | 63.2 | 61.1 |
| PH-5000 utility (kc-12) | 66.6 | 64.1 | 62.3 | 64.1 |
| Acephate utility (kc-12) | 69.3 | 67.1 | 64.5 | 62.1 |
| Mecl utility (kc-93) | 68.3 | 67.6 | 68.9 | 63.2 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT. MONTH JULY - 2020

02.08.2020

| DATE ==> | 03/07/2020 | | 18/07/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 54.1 | 44.2 | 52.6 | 43.8 |
| Near Tank Farm Area | 55.4 | 54.7 | 59.2 | 55.1 |
| B/H Alcohol Plant | 64.5 | 57.0 | 58.8 | 54.1 |
| Between Clomazone & Boiler | 64.2 | 65.1 | 66.9 | 63.4 |
| Between ETP / Incinerator | 68.7 | 64.0 | 65.1 | 63.8 |
| B/H Acephate Plant | 66.5 | 63.8 | 66.1 | 64.2 |
| Near Canteen | 54.1 | 43.8 | 50.9 | 45.1 |
| B/H Evaporation Pond Towards road side | 69.9 | 68.1 | 67.9 | 66.2 |
| DG Room Outside (1 Meter distance in ambient) | 69.8 | 64.8 | 68.9 | 64.2 |
| New DG Room Outside (1 Meter distance in ambient) | 69.4 | 63.7 | 69.1 | 65.1 |
| Inside Boiler House | 69.1 | 68.9 | 69.8 | 68.5 |
| Near PH-5000 Fume Incinerator | 69.8 | 68.1 | 69.9 | 68.5 |
| PH-5000 utility (kc-12) | 69.9 | 68.8 | 69.8 | 68.8 |
| Acephate utility (kc-31) | 69.7 | 68.6 | 69.5 | 68.9 |
| Utility (120TR) | 69.8 | 68.9 | 69.4 | 68.7 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

F/QA/216

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT.

20.09.2020

MONTH AUGUST - 2020

| DATE ==> | 03/08/2020 | | 18/08/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 55.5 | 47.2 | 54.1 | 45.6 |
| Near Tank Farm Area | 56.5 | 50.2 | 58.8 | 52.1 |
| B/H Alcohol Plant | 63.3 | 59.2 | 62.1 | 55.5 |
| Between Clomazone & Boiler | 66.6 | 62.5 | 67.7 | 61.2 |
| Between ETP / Incinerator | 69.2 | 63.2 | 68.1 | 64.8 |
| B/H Acephate Plant | 63.2 | 62.4 | 65.5 | 60.2 |
| Near Canteen | 52.2 | 51.2 | 54.3 | 50.5 |
| B/H Evaporation Pond Towards road side | 69.7 | 69.1 | 69.2 | 68.8 |
| DG Room Outside (1 Meter distance in ambient) | 69.9 | 65.5 | 68.7 | 62.2 |
| New DG Room Outside (1 Meter distance in ambient) | 69.7 | 65.5 | 69.4 | 66.6 |
| Inside Boiler House | 69.9 | 69.1 | 69.7 | 69.2 |
| Near PH-5000 Fume Incinerator | 69.5 | 69.2 | 69.6 | 69.3 |
| PH-5000 utility (kc-12) | 69.8 | 69.2 | 69.5 | 69.4 |
| Acephate utility (kc-31) | 69.3 | 68.2 | 69.9 | 69.0 |
| Utility (120TR) | 69.1 | 69.2 | 69.3 | 69.4 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

F/QA/216

UPL LIMITED. UNIT - 2

NOISE MONITORING REPORT

Q.A.DEPT.

02.10.2020

MONTH SEPTEMBER - 2020

| DATE ==> | 03/09/2020 | | 18/09/2020 | |
|--|------------|--------|------------|--------|
| TIME ==> | DAY | NIGHT | DAY | NIGHT |
| LIMIT ==> | 75 dba | 70 dba | 75 dba | 70 dba |
| LOCATION | | | | |
| Near Main Gate | 58.2 | 40.2 | 59.2 | 41.3 |
| Near Tank Farm Area | 58.2 | 42.2 | 57.2 | 46.3 |
| B/H Alcohol Plant | 64.2 | 61.2 | 63.3 | 57.2 |
| Between Clomazone & Boiler | 65.2 | 63.3 | 66.6 | 64.8 |
| Between ETP / Incinerator | 68.8 | 65.6 | 69.2 | 66.6 |
| B/H Acephate Plant | 67.2 | 67.0 | 68.3 | 62.3 |
| Near Canteen | 55.2 | 41.1 | 56.3 | 43.3 |
| B/H Evaporation Pond Towards road side | 69.2 | 69.0 | 69.6 | 68.1 |
| DG Room Outside (1 Meter distance in ambient) | 69.3 | 67.2 | 69.5 | 68.3 |
| New DG Room Outside (1 Meter distance in ambient) | 69.4 | 66.6 | 68.4 | 67.2 |
| Inside Boiler House | 69.5 | 69.2 | 69.8 | 69.4 |
| Near PH-5000 Fume Incinerator | 69.6 | 68.7 | 69.1 | 68.3 |
| PH-5000 utility (kc-12) | 69.9 | 68.2 | 69.4 | 67.1 |
| Acephate utility (kc-31) | 67.6 | 66.3 | 69.0 | 67.9 |
| Utility (120TR) | 68.1 | 67.2 | 68.3 | 66.2 |

PREPARED BY : MILESH.P.MODI

HOD (Q.A.)

0HS1F1005

ANNEXURE-28



UPL Limited, Unit-2

MEDICAL EXAMINATION RECORD



NAME : ANUT KUMAR

AGE : 19 Yrs. SEX : M/F

ADDRESS :

VILLAGE : NEELDEVTA TALUKA : NANOGLAON

DISTRICT : ETAWAH STATE : UTR PRADESH

NAME OF CONTRACTOR : A. R. Engg. CONTACT NO.: 9724740515

IDENTIFICATION MARK : black male (R) neck

OCCUPATIONAL HISTORY : Supervisor

PAST HISTORY : NIL

HTN/DM/TB/Asthma/Epilepsy/Allergy/Surgery/Hydrocele/Hernia.

FAMILY HISTORY : NIL

PERSONAL HISTORY : Smoking / Alcohol / Tobacco

GENERAL EXAMINATION

Ht : 179 cm, Wt : 57kg Kg. BMI : SKIN :

CONCIOUS/ORIENTED/TALLOR/ICTERUS/CLUBBING

PULSE : 72 / MIN BP : 110 / 60 mmHg TEMP : N SPO2 : 98 % PUPIL : Normal

VISION : Far rt : 6/6 Left : 6/6 NEAR : rt : N/6 Left : N/6 COLOUR BLINDNESS : N

SYSTEMIC EXAMINATION

CVS : S, S2+, NO MURMUR

RS : B/L AIR ENTRY +, NAD

P/A : SOFT, NO TENDERNESS

CNS : NFND

BCA TEST : DATE : 07/03/2020 Result : 87.8 %

REMARK : (FIT/UNFIT) FIT

ADVICE :

DATE : 07/03/2020

PLACE : Anulshwan

Dr. SHAILESH SINGH (MBBS, AFH) SIGNATURE: FMO (FACTORY MEDICAL OFFICER) UPL LIMITED



UPL Limited, Unit-2

FORM NO. 33

(GFR-1963, Prescribed under rule 68-T and 102)

Certificate of fitness of Employment in Hazardous process and operation.

(TO BE ISSUED BY FACTORY MEDICAL OFFICER)

1. Serial Number in the Register of Adult Person & DOJ : _____ (07 / 03 / 2020)
2. Name of the Person Examined : Anuj Kumar Yadav
3. Father's Name : Jaswant Singh
4. Sex :- Male / _____
5. Residence : Meesa Nagas
6. Date of Birth, if available : _____ (02 / 06 / 2000)
7. Name & Address of the Factory : UPL LIMITED, UNIT-02, ANKLESHWAR
8. The Worker is Employed / Proposed :-
 - (a) Hazardous Process :- _____
 - (b) Dangerous Operation :- _____

I Certify that I have personally examined the above named person whose identification marks are blue male (R) neck and who is desirous of being employed in above mentioned process/ operation and that his / her age as nearly as can be ascertained from my examination is 19 years.

In my opinion he / she is fit for employment in the said manufacturing process / operation in my opinion he / she is unfit for employment in the said manufacturing process / operation for the reason Nil he / she is referred for further examination to the certifying surgeon.

Anuj Kumar

Signature or if Hand thumb

Impression of the person examined

SHAILESH GANDHI
Signature of the Factory Medical Officer
FMO (Factory Medical Officer)
UPL LIMITED
Stamp of Factory medical officer

With Name of the factory

OH/SIF/106

FORM XXII

REGISTER OF PERSONS ENGAGED IN CONNECTION WITH
INSECTICIDES AND THEIR PERIODICAL MEDICAL EXAMINATION FOR THE YEAR 20 20
[Rule 37]

Serial No. _____

Name Anuj Kumar Age 19Father's Husband's name JashwantFull Address Meera Nagar Ane-2Sex Male Identification mark Black mole on (R) neckDate of appointment 07/03/2020Occupation Supervisor (Please specify the nature of duty)

1. Past 2. Present

PAST HISTORY

| Illness | Poisoning | Allergy | Exposure to pesticides (Compound) | No of years/ reason | Remarks, if any |
|---------|-----------|---------|-----------------------------------|---------------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| — | — | — | — | — | — |

FAMILY HISTORY

| Allergy | Psychological disorders | Haemorrhagic disorders |
|---------|-------------------------|------------------------|
| 1 | 2 | 3 |
| — | — | — |

PERSONAL HISTORY

| Smoking | Alcohol | Haemorrhagic disorders |
|---------|---------|------------------------|
| 1 | 2 | 3 |
| — | — | — |

OBSERVATIONS

| Medical Examination | Pre-employment examination | End of 1 st quarter i.e. after 3 months | After 2 nd quarter after 6 months | After 3 rd quarter after 6 months | End of year | Remarks |
|---------------------|----------------------------|--|--|--|-------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| PEME | — | — | — | — | — | Fit |

1. General Examination

General body limit : _____ Weight: 51 kg Piles: >
Blood pressure: 110/60 Respiration: > Anaemia: >
Dadema: > Jaundice: > Skin condition: >
Temperature: > Fatigability: > Sweating: >
Sleep: > Urination: >

2. Gastro Intestinal

Nausea: > Vomiting: > Appetite: > Taste: >
Pain in abdomen: > Bowel movement: > Liver: >
Spleen: >

3. Cardio-respiratory

Nasal discharge: > Wheeze: > Cough: > Expectoration: >
Tightness of chest: > Dyspnoea: > Palpitation: >
Heart: N Cyanosis: > Tachycardia: >

4. Neuro-muscular

Headache: > Dizziness: > Irritability: > Pulse: 72
Twitchings: > Tremors: > Convulsion: >
Paranesthesia: > Hallucination: > Unconsciousness: >
Deep reflexes: > Superficial reflexes: > Coordination: >

5. Eye

Pupil: N Lachrymation: > Double vision: >
Clumped vision: >

6. Psychological

Temperament: > Judgment: > Nervousness: >

7. Kidney

Kidney Condition: >

8. Investigation

Blood Hb%: 13.9 Blood D.C.: _____

Serum Cholinesterago

Serum Bilirubin: 7 Urine routine examination: 7 Urine microscopic: 7
X-ray of chest: 7

* serum cholinesterage level should be measured in monthly intervals in case of organophosphorus/ carbamate group of insecticides. General remarks of the doctor in the light of the above examination:

Advice given to:

1. The patient _____
2. The employer _____

Steps taken by the Employer as per Doctor's advice: _____

Anuj Kumar
Signature/ thumb impression of: _____

Dr. SHAILESH GANDHI
(MBBS AFII)
FMO (Factory Medical Officer)
IPL LIMITED

1. Doctor: _____
2. Employees: _____
3. Employer / Manufacturer: _____
4. Licensing officer at the time of inspection: _____

N.B. :- In organochlorine group of insecticides the blood residue estimation should be done once a year.



UPL Limited, Unit-2

Have you suffered from any other diseases not mentioned above ? (If so, give details) _____

2. Do you take medicine regularly ? (If so, give details) _____

3. Are you or have you ever been in the habit of taking drugs or alcoholic Drinks ?
(If so, state which and what amount per day) _____

4. Have you ever had a major accident ? (If so, give details and state the consequences) _____

5. Have you ever undergone an operation ? (if so, give particulars) _____

6. Date of your last vaccination against :
Diphtheria and tetanus _____
Hepatitis A _____
Polio _____
Other (kind / date) _____

7. Do you have experience staying in high altitude (>2500m) ? _____ 5-6

8. Have you ever had health problems related to staying in high altitude ? _____ N

Place and date
Anur
07/03/2020

DR. SHAILESH GANDHI
(MBBS AFIH)
Medical Officer

Signature
Anur Kumar

This questionnaire will be kept in your individual medical file of the medical consultant designated by the responsible UPL partner and will be treated confidentially.

UPL Limited, Unit-2

Medical Examination for Work at High Altitude

VERTIGO TEST DATA SHEET

Name of employee Anuj Kumar Date : 07 / 03 / 2020

Age : 19

Name of contractor : A. R. Engg.

| Sr. No. | Before Vertigo Test | | |
|---------|---------------------|------------------|------------------|
| | Pules | SPO ₂ | Bloor Pressure |
| 1 | 72 | 98% | $\frac{110}{60}$ |
| 2 | | | |
| 3 | | | |
| 4 | | | |

| Sr. No. | After Vertigo Test | | |
|---------|--------------------|------------------|------------------|
| | Pules | SPO ₂ | Bloor Pressure |
| 1 | 70 | 98% | $\frac{110}{60}$ |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Remarks : F-17

Advice : _____

Sign : _____

C. Certification of fitness to work at High altitude

RESULTS OF HIGH ALTITUDE PHYSICAL EXAMINATION

Name Anuj Kumar was examined on 7/03/20

YES NO

and has been determined to be medically qualified for high altitude activity : YES NO

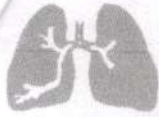
Period of validity of certificate :

Signature of Examining Physician Dr. Shailesh Gandhi Date 07 / 03 / 2020

Acknowledge :- Name of CS/CSS Rasham Sign of CS/CSS [Signature]

DR. SHAILESH GANDHI
(MBBS AFII)
FMO (Factory Medical Officer)
UPL LIMITED

DR. SHAILESH GANDHI
(MBBS AFII)
Factory Medical Officer
UPL LIMITED



8/3/1, Opp. K.M. Munshi Hall,
Manav Mandir, New Colony,
GIDC, Ankleshwar - 393 002.
Phone : (02646) 252511
E-mail : dramitrshah@yahoo.com

MAHAVIR DIAGNOSTIC CENTRE

EARLY DIAGNOSIS IS BETTER THAN CURE

Dr. Amit R. Shah
M.B.B.S., A.F.I.H.

Dr. Prasmil Shah
MO (PATH) A.F.I.H., M.E.S.F

- + Medical Advisor & Industrial Health Consultant.
- + Pre-Employment/Periodical Medical Examination
- + Pre-Placement Medical Examination.
- + Executive Health Check-up.
- + Computerised Audiometry, Spirometry, ECG.
- + Computerised Pathological Laboratory.
- + First Aid Training ST. John Ambulance Association.
- + Sonography, X-ray
- + Tmt, Echo.
- + Authorised for medical examination of seafarers

A RENGINEERING

DATE: 07/03/2020

NAME : ANUJKUMAR

AGE: 19Years HEIGHT: 179cm WEIGHT: 57Kg PULSE: 84/min BP: 110/ 80 mmHg

VISION : RIGHT LEFT
NEAR : N/ 6 N/ 6
FAR : 6/ 6 6/ 6

COLOUR VISION: ACCEPTABLE

BLOOD EXAMINATION

| PARAMETERS | FINDINGS | UNITS | NORMAL VALUE |
|-------------------|----------|--------|---------------------------------------|
| HAEMOGLOBIN | 13.9 | gms/dl | [M : 12.0 - 17.0 , F : 11.0 - 16.0] |
| TOTAL WBC COUNT | 8300 | /cmm | [4,000 - 11,000] |
| NEUTROPHILS | 58 | % | [60 - 75] |
| LYMPHOCYTES | 40 | % | [20 - 40] |
| EOSINOPHILS | 1 | % | [01 - 06] |
| MONOCYTES | 1 | % | [02 - 07] |
| BL.SUGAR [Random] | 98 | mg/dl | [80 - 130] |
| BLOOD GROUP: | O | RH | POSITIVE |

URINE EXAMINATION

| PHYSICAL | | CHEMICAL | | MICROSCOPIC | |
|------------|-------------|--------------|--------|-------------|------------|
| Quantity | 10 ml | Albumin | Absent | RBC | Absent |
| Colour | Pale Yellow | Sugar | Absent | Pus Cells | 1-2/hpf |
| Appearance | Clear | Bile Salt | Absent | Epi Cells | Occasional |
| Deposits | Absent | Bile Pigment | Absent | Crystals | Absent |
| | | Acetone | Absent | Cast | Absent |

LUNG FUNCTION TEST


| | RESULT | PREDICTED | %PRED |
|--------------|--------|-----------|-------|
| FVC | 3.28 | 3.77 | 87 |
| FEV1 | 2.99 | 3.20 | 93 |
| PEF | 7.89 | 6.91 | 114 |
| FEF 25 - 75% | 3.90 | 3.56 | 110 |

Spirometry Within Normal Limits.

E.C.G.: WITHIN NORMAL LIMIT

REMARKS: fit for job

FIT FOR JOB IN BULK DRUGS / CHEMICAL DIVISION HE CAN WORK AT HEIGHT
NOT SUFFERING FROM ANY INFECTIOUS OR OBNOXIOUS DISEASE


Dr. Amit Shah
M.B.B.S. A.F.I.H.
Industrial Health Consultant

भारत सरकार
Government of India




भक्त कुमार
 ANUJ KUMAR
 पिता : जशवंत सिंह
 Father : JASHVANT SINGH
 जन्म तिथि / DOB : 07/06/2000
 लिंग / Male

8799 3090 3024

भारत - आभा आदर्मी का अधिकार






भारत सरकार
Unique Identification Authority of India

ID
 O जशवंत सिंह, 113, मोडरो113,
 नई देवा, नरसगाँव, उत्तर प्रदेश,
 पिन कोड: 206127

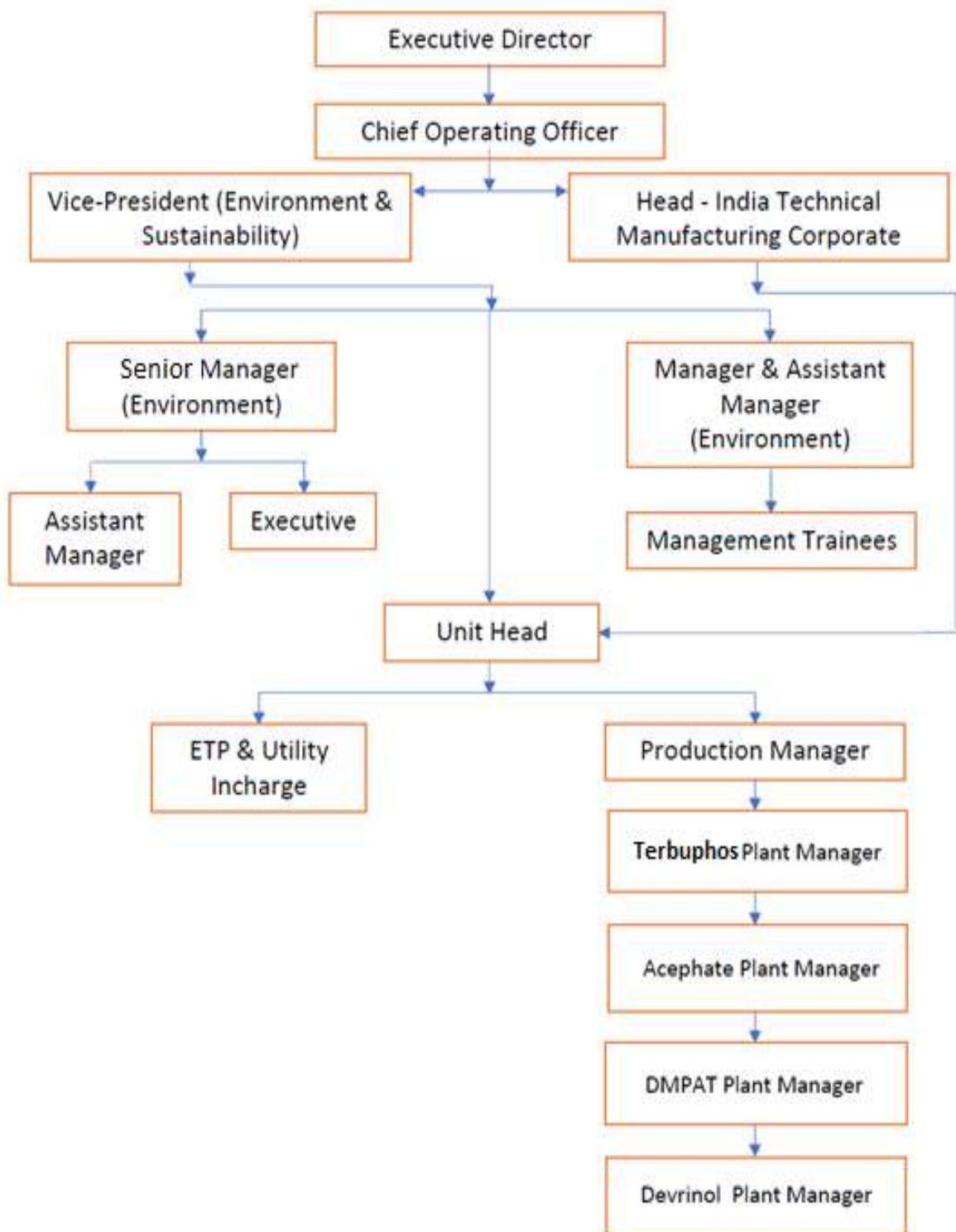
Address
 S/O Jaswant Singh, 113, HO,
 NO 113, new deva, Narvgaon,
 Etawah, Nardagaon, Uttar
 Pradesh, 206127

8799 3090 3024

1800 300 3007
 help@uidai.gov.in
 www.uidai.gov.in

Structure of Environmental Management Cell





United Phosphorus Limited

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Phone : (02646) 250578, 250563
250493
Fax : (02646) 251434

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

Annexure 30 A

Ref : u2/1994/03
August 13, 2003

Unit # 2
Plot # 3405 / 3406, GIDC, Ankleshwar – 393 002

Dr (Mrs) P L Ahujarai – Additional Director
Ministry of Environment and Forests
Government of India
Impact Assessment Division
Paryavaran Bhavan
CGO Complex, Lodi Road
New Delhi – 110 003

Dear Madam;

Sub : Pesticide Unit at Ankleshwar, Dist – Bharuch – Gujarat
Ex Post Facto Environmental Clearance

Ref : Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003

Thanks for your above letter according Ex Post Facto Environmental Clearance for the pesticide products started manufacturing between 1994 to 1997 at our Unit # 2 located at Plot # 3405 / 3406, GIDC, Ankleshwar – 393 002, Dist – Bharuch, Gujarat.

We have given advertisement in two news papers, i.e. The Indian Express and Loksatta – on 04.08.2003. Copies of the advertisement matter are attached herewith for your kind information.

Thanking you

Yours faithfully
For, United Phosphorus Ltd

P N PARAMESWARAN
General Manager – Environment.,

Encl : a/a

Copy
22/8
First Received
Gujarat Pollution Control Board
Bharuch.



United Phosphorus Limited

3405/3406, G.I.D.C.,
Ankleshwar 393 002
Gujarat (India)

Mumbai Office :
"UNIPHOS" House
C.D.Marg, 11th Road,
Khar (W), Mumbai.

Phone : (02646) 250578, 250583,
250493
Fax : (02646) 251434

Phone : (022) 26040462, 26041111
Fax : (022) 26040467

CC :

Mr Sanjeev Tyagi – Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector – 10 / A
Gandhinagar – 382 010

Mr S H Vegda – Regional Officer
Gujarat Pollution Control Board
C – 1 / 119 / 3, GIDC Phase II
Narmada Nagar
Bharuch – 392 010

along with the advertisements.

Dr AD / BAM.



UNITED PHOSPHORUS LTD

Unit # 2. Plot # 3405/3406, GIDC, Ankleshwar - 393 002
Dist - Bharuch, Gujarat, India

ENVIRONMENTAL CLEARANCE Expansion of Pesticide Unit

It is hereby informed that the Ministry of Environment and Forests, Government of India, has accorded Environmental Clearance to M/s United Phosphorus Ltd., Unit # 2, at Ankleshwar in District Bharuch, Gujarat, vide letter # J.11011/77/2002-IA.II dated 17.07.2003. Copies of the Clearance letter are available with Gujarat Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests, at <http://www.envfor.nic.in>.

પર્યાવરણીય મંજૂરી પેસ્ટીસાઇડ એકમનું વિસ્તૃતિકરણ

આ સાથે જણાવવામાં આવે છે કે ભારત સરકારના પર્યાવરણ અને વન મંત્રાલયે પત્ર નં. J.11011/77/2002-IA.II તા. ૧૭-૦૭-૨૦૦૩ થકી મે. યુનાઇટેડ ફોસ્ફરસ લી., યુનિટ નં. ૨, પ્લોટ નં. ૩૪૦૫/૩૪૦૬, જી.આઇ.ડી.સી., અંકલેશ્વર-૩૯૩ ૦૦૨, જી. ભરૂચ, ગુજરાતને પર્યાવરણીય મંજૂરી પ્રદાન કરી છે. મંજૂરી પત્રની પ્રતો ગુજરાત પ્રદૂષણ નિયંત્રણ નિગમ પાસે ઉપલબ્ધ છે તથા પર્યાવરણ અને વન મંત્રાલયની વેબ સાઇટ <http://www.envfor.nic.in> પર પણ જોઇ શકાય છે.

Loksatta Jansatta, Vadodara Edition

04th August 2003, Monday

Page # 03



UNITED PHOSPHORUS LTD

Unit#2, Plot # 3405/3406, GIDC, Ankleshwar - 390 002

Dist.: Bharuch, Gujarat, India

ENVIRONMENTAL CLEARANCE

Expansion of Pesticide Unit

It is hereby informed that the Ministry of Environment and Forests, Government of India, has accorded Environmental Clearance to M/s United Phosphorus Ltd., Unit #2, at Ankleshwar in District Bharuch, Gujarat, vide letter # J 11011/77/2002-IA, II dated 17.07.2003. Copies of the Clearance letter are available with Gujarat Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests, at <http://www.envfor.nic.in>

પર્યાવરણીય મંજૂરી

પેસ્ટીસાઇડ એકમ નું વિસ્ત્રુતીકરણ

આ સાથે જણાવવામાં આવે છે કે ભારત સરકાર ના પર્યાવરણ અને વન મંત્રાલયે પત્ર નં. J11011/77/2002-IA II તા. ૧૭.૦૭.૨૦૦૩ થકી મે. યુનાઇટેડ ફોસ્ફરસ લી., યુનિટ નં. ૨, પ્લોટ નં. ૩૪૦૫/૩૪૦૬, જી.આઇ.ડી.સી., અંકલેશ્વર - ૩૯૩૦૦૨, જી. ભરૂચ, ગુજરાત, ને પર્યાવરણીય મંજૂરી પ્રદાન કરી છે. મંજૂરી પત્ર ની પ્રતો ગુજરાત પ્રદુષણ નિયંત્રણ નિગમ પાસે ઉપલબ્ધ છે તથા પર્યાવરણ અને વન મંત્રાલય ની વેબ સાઇટ <http://www.envfor.nic.in> પર પણ જોઈ શકાય છે.

The Indian Express, Vadodara Edition

04th August 2003, Monday

Page # 03



United Phosphorus Limited

3405/3406, G.I.D.C., Ankleshwar 393 002, Gujarat (India)
Phone : (02646) 250578, 250563 Fax : (02646) 251434

Annexure 30B

Responsible Care®

42
Expn
ACK COPY

Ref: u2/ec-2008/08
May 23, 2008

Unit # 2
Plot # 3405/3406, GIDC, Ankleshwar - 393 002, Gujarat

Ministry of Environment and Forests
Paryavaran Bhavan
CGO Complex, Lodhi Road
New Delhi - 110 003

Kind attn :- Dr H S Malviya , Joint Director

Dear Sir;

Sub :- Environmental Clearance for New Pesticides, Intermediates and Expansion of Existing products in Existing Unit

Ref: - Environmental Clearance ## J-11011/1281/2007-IA(II) dated 15.04.2008

Kindly refer the above Environmental Clearance granted to us for New Pesticides, Intermediates and Expansion of Existing products in Existing Unit in Notified area, GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat. We have given advertisement in The Indian Express dated 20.05.2008 and Gujarat Samachar (local newspaper) dated 21.05.2008. We are enclosing herewith the relevant page of newspapers with advertisement matter appeared, for your reference and records.

We would like to bring your kind attention that in above EC point # v of condition; we are consuming Ethyl Mercaptan as a Raw Material in our existing products Phorate/Terbuphos. We have taken all control measures for closed handling/receipt by using ISO Tankers, storage at low temperature and tanks vent connected to Fume Incinerator for thermal destruction. The generated H₂S gas from our existing products Phorate/Terbuphos is being scrubbed with Caustic Lye and gets converted to valuable product NaSH. The details are included in EIA report and our Presentation.

We hope that the above is in order.

Thanking you

Yours faithfully
For, United Phosphorus Ltd

Accelade
DR P N
DR P N PARAMESWARAN
Vice President (Environment)

M. N. 27/5/08
Post Received
Gujarat Pollution Control Board
Bharuch

Encl : a/a



United Phosphorus Limited

3405/3406, G.I.D.C., Anleshwar 393 002, Gujarat (India)
Phone : (02646) 250578, 250563 Fax : (02646) 251434



Copy to

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A
Gandhinagar - 382 010

The Regional Officer
Gujarat Pollution Control Board
GIDC Phase II
Narmada Nagar
Bharuch - 392 015

The Regional Officer
Ministry of Environment and Forests
Western Region Office
Kendriya Paryavaran Bhavan
Link Road # 3
E - 5, Ravi Shankar Nagar
Bhopal - 462 016

The Secretary
Forests and Environment Department
Government of Gujarat
Block # 14 - B, Sachivalaya
Sardar Patel Bhavan
Gandhinagar - 382 010

BAM / PSP

100 pc turn out in Dudhdhara Dairy polls

EXPRESS NEWS SERVICE
VADODARA, MAY 19

THE management committee elections of Bharuch District Co-operative Milk Producers' Union-run Dudhdhara Dairy, also affiliated to Gujarat Co-operative Milk Marketing Federation (GCMMF), is likely to prove a keen tussle between two factions belonging to the BJP. On Monday, the polling was held for the 12 posts of 17-member Board of Directors and counting is scheduled on

Tuesday. Dudhdhara Dairy election has registered 100 per cent turnout after a long time. Though both the factions are supported by BJP, sitting chairman of Dharikheda Sugar Factory Ghanshyam Patel and Shanta Patel, a former District Panchayat president, are front-runners for the chairman's post, said sources. Baroda Dairy chairman and Waghadia BJP MLA Madhu Srivastav had rushed here to help Ghanshyam Patel group garner more

votes. Dudhdhara has milk collection of around 38,000 litres a day of which 30,000 litres are sold in retail market. It also produces ghee and buttermilk but only on receiving orders. In the last elections held in Dec. 2005 Natubhai Patel had emerged as dairy chairman. Bharuch SDM, D.D. Pandya, also returning officer, said, "Of the total 166 voters, all of them have voted and 27 candidates are vying for 12 posts. In individual shareholders category, one Mahesh Patel was elected unopposed. In the per-

vious elections, only 135 votes were polled."

Dudhdhara general manager Jitendra Patel said, "Of the 17 members on the management board, 13 are elected, including a shareholders' representative and three seats are reserved for women. GCMMF, NDDB, District Cooperative Registrar and banking sector have one representative each." Former chairman Patel said, "It is very difficult to predict the results this time but it is going to be good fight."

EXPRESS NEWS SERVICE
AHMEDABAD, MAY 19

CONGRESS MP and chief whip of the party in Lok Sabha Madhusudan Mistry, Congress MLA from Khebrahma Ashwin Kotwal and Sabarkantha district Congress president Dahyabhai Patel and dozens of Congress work-

ers sat on a day-long dharna outside the Sabarkantha District Collectorate at Himmatnagar on Monday.

Union Textile Minister Shankersinh Vaghela also visited Mistry and party workers sitting on dharna.

The dharna was in protest against the alleged 'delaying tactics' adopted by district ad-

Mistry stages dharna against dist admn's dilatory tactics

ministration in carrying out the work suggested by Mistry. According to Mistry, accounts of Rs 1.31 crore regarding use of MP's grant under MP Local Area Development (MPLAD) scheme was not furnished by the district administration to the Ministry of Planning and Implementa-

Consequently, funds amounting to Rs 3 crore were not released by the Central government for projects in Mistry's constituency. The result: new works were not sanctioned and the people from the area suffered for no fault of the MP but due to 'partisan attitude' of the district administration.

Rajputs to set up two residential schools for girls

EXPRESS NEWS SERVICE
RAJKOT, MAY 19

STATING that Rajput girls in urban areas get better education but in rural areas they do not get the same opportunity, the three-day Global Rajput Meet at Dwarka, attended by around 800 delegates from India as well as



two residential schools for Rajput girls. Rajkot and Junagadh city offer hostel facility, but not the residential school," said Shantisinh Rathore,

UNITED PHOSPHORUS LTD., Unit # 2
Plot # 3405 / 3406, GIDC Industrial Estate,
Ankleshwar - 393 002
Dist. - Bharuch, Gujarat

ENVIRONMENTAL CLEARANCE FOR Expansion of Pesticide and Intermediate Products

It is hereby informed that Ministry of Environment & Forests, Government of India, has accorded Environmental Clearance to M/s. United Phosphorus Ltd., Unit #2, at Ankleshwar, Dist. Bharuch, Gujarat, vide their letter @# J-11011/1281/2007-IA(II) dated 15.04.2008. Copies of Clearance letter are available with Gujarat Pollution Control Board and may also be seen at web site of Ministry of Environment & Forests, at www.envfor.nic.in

PUBLIC NOTICE

NOTICE is hereby given that my client Today's Infrastructure and Construction Company Ltd, have entered into an Agreement of Sell dated 01/02/2008 duly registered with the office of the Sub-Registrar of Assurance, Vadodra from Shri. Rajendrakumar Nanubhai Patel representing himself. RRP4 37 sq. ft.

WESTERN RAILWAY-RAJKOT DIVISION

Tender Notice No. M. 442/71/MC/OKO Date. 14.05.2008

For and on behalf of President of India, Divisional Railway Manager (Mechanical) Western Railway Rajkot invites sealed open tenders under "BWO PACKET SYSTEM" in prescribed tender form from the reputed contractors with adequate experience, financial capability and having in possession of a valid ISO-9000 certification (i.e. ISO-9001-2000) as Mechanized Cleaning Service Provider for the under mentioned work. The tender form costing Rs. 2000/- (Rs. 2000/- if received up to 15.00 Hrs. and opened at 15.30 Hrs. on Date. 23.06.2008 Tender not accompanied by earnest money in any of the forms as indicated in the tender papers will be summarily rejected. Tender fees under Indian postal order, demand draft and money order will not be accepted. It should be remitted in cash with any of the station master of Western Railway and money receipt in original should be produced to the undersigned for obtaining the tender form up to 17.00 Hrs. of any working day. Earnest money in the form of guarantee bond is not acceptable. The tender documents will also be available in the website at <http://www.wr.indianrail.gov.in> during the period mentioned above and same can be downloaded and used as tender documents for submitting the offer. However the crossed Demand Draft drawn in favour of Sr. Divisional Finance Manager, W. Ry. Rajkot and payable at Rajkot towards the cost of tender documents, shall have to be enclosed separately in addition to Earnest Money while submitting the tender, otherwise the tender will be summarily rejected. Any further information required by the tenderer can be obtained from the office of the Divisional Railway Manager (Mechanical) Rajkot during the working hours. Name of work: On Board House Keeping Service in Train No. 9599/9570 (OKHA-VARANASI-OKHA). EXPENSES maintained by Coaching Depot OKHA. Approx cost Rs.: Rs. 15,21,190/- (Rs. Fifteen lakhs twenty one thousand one hundred ninety only). Amount of Earnest Money: Rs. 30,430/- (Rs. Thirty thousand four hundred thirty only). Completion Period: FIVE YEARS (60 Months).

Dial 139 for any Rail-related enquiry!

KANDLA PORT TRUST
TENDER NOTICE NO. 56/08

Sealed Percentage Rate tenders are invited for work of Construction of Pump Room and U/G tank including water supply.

DIRECTOR GENERAL NAVAL PROJECTS (MUMBAI)

TENDER NOTICE

DESIGN, MANUFACTURE AND SUPPLY OF MOBILE CHILLED WATER PLANTS

- Sealed Tenders valid for 120 days are invited from prospective manufacturers for Design, Manufacture and Supply (including testing & commissioning) of quantity five numbers Trolley Mounted Mobile Chilled Water Plants of minimum capacity 110 TR (Design to cater for Salt Water as Chilled Water) at Naval Dockyard, Mumbai.
- The basic specifications of the required mobile Chilled Water Plants are as follows:-

| S/No | Description | Details |
|------|----------------------------------|---|
| (a) | Compressor | Preferably Screw Type with air cooled motor |
| (b) | Refrigerant | "R 404a" |
| (c) | Chilled Water inlet temperature | 9 to 12 deg C |
| (d) | Chilled Water outlet temperature | 5 to 8 deg C |
| (e) | Dimensions (L X W X H) mm | 3000 x 1285 x 2025 approx |
| (f) | Voltage | 415 Volts, 50 Hz., 3 Phase |
| (g) | Condenser | Shell & Tube |
| (h) | Chiller | Flooded, shell & tube type |

- The detailed Tender Enquiry along with 'Terms & Conditions' is available on the web site www.infra.nauzena.nic.in, and can be perused / downloaded for submission of your bids. Firms may also obtain the Tender Enquiry / clarifications (if any) from the Project Director(E), Office of DGN(PMB), CG Accommodation Complex, Naval Dockyard, Lion Gate, Mumbai-400023. Tel No- 022-22751669, Fax - 022-22661142.
- Last date for receipt of sealed tenders with EMD is 27 Jun 2008.

davn 10702/110033/08-08

IN THE HIGH COURT OF GUJARAT AT AHMEDABAD.
ORIGINAL JURISDICTION

ગુજરાત સમાચાર

તા. ૨૧ મે, ૦૮ બુધવાર

કાર્યાલય ભુવ: બી-૧૨૦, પૂર્ણા દેડ રોડ, સ્ટેશન રોડ, ફોન: ૨૫૪૨૨૨ - ૨૬૬૬૧૧. ડાહી: એ.પ. આરોપિલ સોસાયટી, ફોન: ૨૫૫૫૫૫. હાલોલ: ચંદન ચૌહાણ, બસ સ્ટેશન સામે, ફોન: ૨૨૧૧૩૫
 ૨૨૨૨૮૮૮, ગોધરા: પાંચરાપોળ કમ્પાઉન્ડ, ફોન: ૨૪૫૬૬૬, ૨૪૩૧૫૨. દાહોદ: નગરપાલિકા સોર્પોંગ સેન્ટર, સ્ટેશન રોડ, ફોન: ૨૪૨૫૦૧. રાજપીપળા: શાકમાર્કેટ પાછળ, બેક ચોક બારોડા સામે, મો. ૯૮૨૫૨ ૪૯૯૯૯

આ સાથે જણાવવામાં આવે છે કે પર્યાવરણ અને વન મંત્રાલય આઈ. એ. વિભાગ, ભારત સરકાર, નવી દિલ્લી ડ્રાગ મીલ ઈસ્ટ કેમ, પ્લોટ નં - સી-૧૫૧ ૪૦૪/૫, ઓ.આઈ.ડી.સી. એરેડે, પાનોલી, છંદલો - ભરૂચ - ૩૯૪૧૧૩ (ગુજરાત) ખાતે આગેલા કામ ઈન્ડેમીટીએટ નવા પ્લાન્ટ માટેની પર્યાવરણીય મંજૂરી તારીખ ૩૦ મે ૨૦૦૮ ના પત્ર ક્રમાંક J-1101/1285/2007-IA-II (I) પ્રમાણે મોટીકેશન તારીખ ૧૪ સપ્ટેમ્બર ૨૦૦૬ નોગવાઈ ફેઝ આપેલ છે. ઉપરોક્ત પત્રની નકલ રેડે પોલ્યુશન કન્ટ્રોલ બોર્ડ ઉપરાંત MOEF ની વેબસાઈટ સહી પાઈનર <http://envfor.nic.in> ઉપર ઉપલબ્ધ છે. તારીખ : ૩૦-૪-૨૦૦૮

મો. ૯૮૨૫૩ ૨૨૫૮

યુનાઇટેડ ફોર્ફરસ લી., યુનિટ નં. ૨
 પ્લોટ નં. ૩૪૦૫/૩૪૦૬, જીઆઈડીસી, અંકલેશ્વર-૩૯૩૦૦૨
 જ. ભરૂચ, ગુજરાત
પર્યાવરણીય મંજૂરી
પેટરીસાઇડ અને ઇન્ટરમીડીએટ પ્રોડક્ટનું વિસ્તૃતિકરણ
 આ સાથે જણાવવામાં આવે છે કે ભારત સરકારના વન અને પર્યાવરણ મંત્રાલયે પત્ર ક્રમાંક J-1101/1281/2007-IA(II) તા. ૧૫-૦૪-૨૦૦૮ દ્વારા મે. યુનાઇટેડ ફોર્ફરસ લી., યુનિટ નં. ૨ને પર્યાવરણીય મંજૂરી પ્રદાન કરેલ છે. મંજૂરી પત્રની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ તથા વન અને પર્યાવરણ મંત્રાલયની વેબસાઈટ www.envfor.nic.in પર પણ જોઈ શકાય છે.

ASIT C. MEHTA INVESTMENT INTERMEDIATES LTD NEEDS
Marketing executives
 (Smart, active, owned two w heeler)
 Walk in with bio-data on 21,22,23 May-08 between 10 am to 5 pm.
 AT
 F/12, Shree Narmada Arcade, Above Kotak Mahindra Bank, Old N.H.8, Ankleshwar.

પેટ રોગના સ્પેશલાલીઝ હવે ભરૂચ અને અંકલેશ્વર માં
દરેક પ્રકાર ના પેટ રોગ માટે સચોટ નિદાન
 ગુજરાત મા પ્રથમ અને એકમાત્ર Ligasure ટેકનીકથી પાર્થલ ની સારવાર માટે વડોદરા સહેર ના પ્રખ્યાત ગેસ્ટ્રોએન્ટ્રોલોજીસ્ટ સર્જન
+ ડો. સમીર કોન્ડ્રાકટર +
 M. 98240 43464

જોઈએ છે

જોઈએ છે!
 શ્રી શાંતિનિકેતન એજ્યુકેશન ટ્રસ્ટ સંચાલિત શાંતિનિકેતન રોટરી વિદ્યાલય તથા રોટરી ઈંગ્લીશ મિડિયમ સ્કૂલ માટે નીચે જણાવ્યા મુજબના ફર્વારીઓની ભરતી કરવાની છે. તે લાખાત પરખતા ઉમેદવારોને મેથિન સરનામે જાહેરાત પ્રતિભ પુસ્તી ૧૦ દિવસમાં રજુ પો. એ. ડી. થી અરજ કરવા જણાવવામાં આવે છે.
શૈક્ષિક લાયકાત મુખ્ય વિષય ગણિત/કોમ્પ્યુટર
જુગ્યાનો પ્રકાર બી.એસ.સી. બી.એડ ગણિત/કોમ્પ્યુટર
કમ કમ



United Phosphorus Limited

3405/3406, G.I.D.C., Ankleshwar 393 002, Gujarat (India)
Phone : (02646) 250578, 250563 Fax : (02646) 251434



Responsible Care®

Ack. COPY

42
Gpr

Ref : u2/e.clea/08
May 17, 2008

Unit #2
Plot # 3405 / 3406 GIDC, Ankleshwar - 393 002

Mr V.R.Ghadge - Regional Officer
Gujarat Pollution Control Board
C - 1 / 119 / 3, GIDC Phase II
Narmada Bharuch
Bharuch - 392 010

Dear Sir;

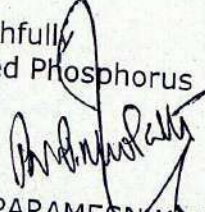
Sub: Environmental Clearance

We would like to bring to your kind attention that we have obtained Environmental Clearance # J-11011/1281/2007-IA(II) dated 15.04.2008 for Expansion of Pesticide and Intermediates products in existing site located at plot no.3405/3406, inside Notified area, GIDC, Ankleshwar, Bharuch, Gujarat from Ministry of Environment and Forests, New Delhi. We are enclosing herewith a photocopy of above Environmental Clearance for your kind reference and records.

We hope that you will find the same in line with the requirements

Thanking you

Yours faithfully
For, United Phosphorus Ltd


Dr. P N PARAMESWARAN
Vice President - Environment.


GUJARAT POLLUTION CONTROL BOARD
SECTOR NO. 10. A.
GANDHINAGAR-382 010.



United Phosphorus Limited

3405/3406, G.I.D.C., AnPleshwar 393 002, Gujarat (India)
Phone : (02646) 250578, 250563 Fax : (02646) 251434



CC : Mr A A Dolti – Environmental Engineer
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector – 10 / A
Gandhinagar – 382 010

The Secretary
Department of Environment and Forests
Government of Gujarat
Block # 14 – B
Sardar Patel Bhavan
Gandhinagar

CC: Dr AD / PSP / BAM

Encl : a/a

Annexure 31

Compliance to Pesticide Standards Notified by MoEF Vide Notification No GSR 446 dated 13 June 2011

| Sr. No | Requirement | | UPL Compliance |
|---|---|---|---|
| | Parameter | Standard (Limiting Concentration in mg/nM3) | |
| A) Emission Standards | | | |
| 1 | HCl | 20 | Complied Min - BDL Max – BDL |
| 2 | Cl ₂ | 5 | Complied Min - BDL Max – BDL |
| 3 | H ₂ S | 5 | Complied Min - BDL Max – BDL |
| 4 | P ₂ O ₅ as H ₃ PO ₄ | 10 | Not Applicable |
| 5 | Pesticide Compounds in Form of Particulate Matter | 20 | Complied Min – 4.9 mg/nM ₃ Max – 7.0 mg/nM ₃ |
| 6 | CH ₃ Cl | 20 | Not Applicable |
| 7 | HBr | 5 | Not Applicable |
| <u>The detailed stack emission monitoring results are attached as Annexure 08 of Half Yearly Compliance Report.</u> | | | |
| | B) Effluent Standards | Standard (Limiting Concentration in mg/l, except pH & Bio Assay Test) | UPL Compliance |
| 1 | pH | 6.5 – 8.5 | Complied. The unit has upgraded ETP & Adopted ZLD Since May 2014. Unit has installed online Flow Meter & CCTV Camera to discharge line. The data of flow and CCTV Camera have been transmitted to GPCB/CPCB Server continuously. |
| 2 | BOD, 3 Days | Formulation 30 | |
| | | Technical 100 | |
| 3 | Oil & Grease | 10 | |
| 4 | Suspended Solids | 100 | |
| 5 | Bio Assay Test | 90% survival of fish after 96 Hours in 100 % Effluent | |
| (II) Additional Parameters | | | |
| | Arsenic (As As) | 0.2 | Complied. The unit has upgraded ETP & Adopted ZLD Since May 2014. Unit has installed online Flow Meter & CCTV Camera to discharge line. The data of flow and CCTV Camera have been transmitted to GPCB/CPCB Server continuously. |
| | Copper | 1 | |
| | Manganese | 1 | |
| | Mercury | 0.01 | |
| | Antimony (as Sb) | 0.1 | |
| | Zinc | 1 | |
| | Nickel, etc (Heavy Metals Individually) | Shall not exceed five times to drinking water standards as per BIS | |

| | | | |
|--|--|--|--|
| | Cyanide as CN | 0.2 | |
| | Nitrate as NO ₃ | 50 | |
| | Phosphate as P | 5.0 | |
| | Phenol and Phenolic Compounds as C ₆ H ₅ OH | 1.0 | |
| | Sulphur | 0.03 | |
| | Benzene Hexachloride | 0.01 | |
| | Carbonyl | 0.01 | |
| | Copper Sulphate | 0.05 | |
| | Copper Oxychloride | 9.6 | |
| | DDT | 0.01 | |
| | Di Methoate | 0.45 | |
| | 2,4 D | 0.4 | |
| | Endosulphan | 0.01 | |
| | Fenitothrion | 0.01 | |
| | Malathion | 0.01 | |
| | Methyl Parathion | 0.01 | |
| | Paraquat | 2.3 | |
| | Phenathoate | 0.01 | |
| | Phorate | 0.01 | |
| | Proponil | 7.3 | |
| | Pyrethrums | 0.01 | |
| | Ziram | 1 | |
| | Other Pesticides | 0.10 | |
| | C – Emission Standards For Incinerator | | |
| | The UPL Unit 2 has discontinued operation of Incinerator since year 2006 (Before Publication of Notification). The communication for discontinuation of incineration to GPCB has been made vide UPL letter No U2/f/a-2/06 dated 08/09/2006. The copy of letter is attached as Annexure 4A of Half Yearly Compliance Report. The Hazardous waste is being sent to CHWTSDF – BEIL Ankleshwar. The Unit has obtained membership of BEIL Ankleshwar. Hence Not Applicable. | | |
| | D – Effluent from Incinerator | | |
| | The UPL Unit 2 has discontinued operation of Incinerator since year 2006 (Before Publication of Notification). The communication for discontinuation of incineration to GPCB has been made vide UPL letter No U2/f/a-2/06 dated 08/09/2006. The copy of letter is attached as Annexure 4A of Half Yearly Compliance Report. The Hazardous waste is being sent to CHWTSDF – BEIL Ankleshwar. The Unit has obtained membership of BEIL Ankleshwar. Hence Not Applicable. | | |
| | E – Storm water | | |
| | Storm water shall not be allowed with scrubber water and/or floor washing | Complied. The separate storm water drainage network has been developed within unit & for floor washing garland drains are separately provided which are finally connected to ETP. | |

| | | |
|--|---|--|
| | <p>Storm water shall be channelized through separate drain passing through a HDPE lined pit having capacity of 10 Minutes (Hourly Average) of Rainfall.</p> | <p>Complied. The unit has provided RCC/Masonry Pit for storm water channelization. The collected first storm water is sent to ETP.</p> |
|--|---|--|

Chilling Brine Unit

Annexure 32



CHILING UNIT



BRINE UNIT

April 24, 2018

Unit # 02

Plot # 3405 / 3406 / 3460-A, GIDC, Ankleshwar - 393 002, Gujarat
Ministry of Environment Forests & Climate Change
Impact Assessment Division
Indira Paryavaran Bhavan
Jor Baug Road, Ali Ganj
New Delhi - 110 003

Kind attn :- Mr S K Srivastava, Director

Dear Sir;

Sub :- Amendment in EC condition

Ref :- EC # J-11011/1281/2007-IA-II dated 15.04.2008

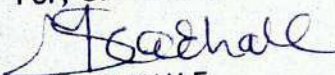
Please refer the above Environmental Clearance # J-11011/1281/2007-IA-II dated 15.04.2008 issued by MoEF to our Unit. Also, kindly refer (A) specific condition # A.vi i.e. **All storage tanks shall be under negative pressure to avoid any leakages.** Breathers, Nitrogen blanketing and condensers will be provided for all storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps / agitators for reactors for reduction of fugitive emissions. Chilled brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary.

We would like to bring to your kind attention that looking to the technical and safety related constraints, it is difficult to maintain negative pressure for All storage tanks. However, we have provided certain storage tanks under negative pressure wherever applicable.

Kindly amend the above condition so that we can comply the same.

Thanking you

Yours faithfully
For, UPL Limited



S M KARHALE
General Manager (Environment)

CC : The Principal Chief Conservator of Forests
Ministry of Environment Forests & Climate Change
Kendriya Paryavaran Bhavan
Link Road # 03, Ravi Shankar Nagar
Bhopal - 462 016
Madhya Pradesh

: VVR

BUREAU VERITAS
Certification



UPL LIMITED
(UNIT – 02)



PLOT 3405 / 6, GIDC, ANKLESHWAR, DIST. BHARUCH – 393 002,
GUJARAT, INDIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standards detailed below.

Standards

ISO 14001:2015 & ISO 45001:2018

Scope of certification

**MANUFACTURE & DESPATCH OF INDUSTRIAL CHEMICALS,
TECHNICAL GRADE PESTICIDES AND THEIR FORMULATIONS**

| | |
|---|-------------------------|
| Original cycle start date For EMS: | 09 March 2012 |
| Original cycle start date For OHSMS: | 26 March 2019 |
| Expiry date of previous cycle For EMS: | 08 March 2018 |
| Expiry date of previous cycle For OHSMS: | Not Applicable |
| Recertification Audit date: | 24 February 2018 |
| Recertification cycle start date For EMS: | 09 March 2018 |
| Recertification cycle start date For OHSMS: | 26 March 2019 |

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **08 March 2021**

Certificate No. **IND18.8577U/E/HS** Version : 2 Revision date: **26 March 2019**

Signed on behalf of BVCH SAS – UK Branch
Jagdheesh N. MANIAN
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



0008

Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom.

Local office: Bureau Veritas (India) Private Limited (Certification Business)
72 Business Park, Marol Industrial Area, MIDC Cross Road "C",
Andheri (East), Mumbai – 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call **+91 22 6274 2000**.



Annexure - 35

AIR POLLUTION CONTROL MEASURES (APCM) DETAILS

| FLUE GAS STACK EMISSION DETAILS | | | | | |
|---------------------------------|--|--|------|------------------|---------------------------------|
| Stack No | Stack Attached to | Stack Height in Meters from Ground Level | APCM | Parameter | Permissible Limit |
| 1 | Boiler – 3 nos (10 TPH each) OR to obtain 30 TPH steam from common facility of Ankleshwar Eco Energy Ltd (*) | 30 | -- | PM SO2 NOx | 150 mg/nm3 100 ppm 50 ppm |
| 2 | DG Set – 1 (2000 KVA) | 18 | | | |
| 3 | DG Sets – 2 nos (1250 and 500 KVA) | 9 | | | |

| PROCESS STACK DETAILS | | | | | | |
|-----------------------|---------------------------------|-------------------|--|---------------------------------------|-----------|-------------------|
| Stack No | Name of Process / Plant | Stack Attached to | Stack Height in Meters from Ground Level | Air Pollution Control Measures (APCM) | Parameter | Permissible limit |
| 1 | Acephate / Metamitron | Ammoniation | 20 | Water scrubber | HCL | 20 mg / nm3 |
| | | | | | Chlorine | 5 mg / nm3 |
| | | | | | Ammonia | 30 mg / nm3 |
| 2 | Mesotriol / Imazapic | Neutralization | 30 | Water scrubber | HCL | 20 mg / nm3 |
| | | | | | Chlorine | 5 mg / nm3 |
| 3 | DETA / ZnDTP | Neutralization | 30 | Alkali scrubber | H2S | 5 mg / nm3 |
| 4 | Solid Formulation Plant | Packer | 20 | Dust Collector + Bag Filter | PM | 20 mg / nm3 |
| 5 | Devrinol Plant | Chlorination | 30 | Alkali scrubber | HCL | 20 mg / nm3 |
| | | | | | Chlorine | 9 mg / nm3 |
| 6 | DETA / ZnDTP / DETCL | Neutralization | 30 | Alkali scrubber | H2S | 5 mg / nm3 |
| 7 | Noflan Plant | Emission vessel | 30 | -- | PM | 150 mg / nm3 |
| | | | | | SO2 | 40 mg / nm3 |
| | | | | | NOx | 25 mg / nm3 |
| | | | | | HC | 20 mg / nm3 |
| 8 | Acephate Plant (Ketene Process) | Neutralization | 30 | Water scrubber | Ammonia | 30 mg / nm3 |
| | | | | | HC | 20 mg / nm3 |
| 9 | Metribuzin Plant | Neutralization | 30 | Alkali scrubber | HC | 20 mg / nm |
| 10 | Noflan Plant | Neutralization | 30 | Water scrubber | Ammonia | 175 mg / nm3 |

| | | | | | | |
|----|--|-------------------------|----|-------------------------------------|----------|--------------|
| 11 | DETA / ZnDTP Plant | Neutralization | 30 | Alkali scrubber | H2S | 5 mg / nm3 |
| 12 | Noflan Plant | Neutralization | 30 | Alkali Scrubber + Water Scrubber | HCL | 20 mg / nm3 |
| | | | | | Chlorine | 5 mg / nm3 |
| 13 | Acephate Plant Ketene Process | Process emission vessel | 30 | -- | PM | 150 mg / nm3 |
| | | | | | SO2 | 40 mg / nm3 |
| | | | | | NOx | 25 mg / nm3 |
| 14 | Fume Incinerator attached to Terbuphos | Process emission vessel | 30 | Heater / furnace – low sulphur fuel | PM | 150 mg / nm3 |
| | | | | | SO2 | 40 mg / nm3 |
| | | | | | NOx | 25 mg / nm3 |
| | | | | | HCL | 20 mg / nm3 |

June 6th 2018

Unit # 02

Plot # 3405 / 3406 / 3460-A, GIDC, Ankleshwar – 393 002

To,
The Additional PCCF
Ministry of Environment, Forests & Climate Change
Western Region Office,
Kendriya Paryavaran Bhavan,
Link Road # 3, E-5, Ravi Shankar Nagar,
Bhopal – 462 016, Madhya Pradesh

Sub : Submission of Information as per Environmental Clearance Requirements

Ref : (1) Environmental Clearance # J.11011/1281/2007-IA (II) dated 15.04.2008

Dear Sir,

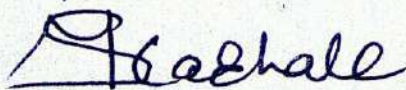
With reference to above cited subject, please refer (Ref 1) above environmental clearance granted by MoEF New Delhi for UPL Unit 2. The compliance of Information submission requirement is tabulated below.

| Sr. NO | EC No & Date | EC Condition No – of General Conditions | UPL Compliance |
|--------|---|--|--|
| 1 | <u>Environmental Clearance # J.11011/1281/2007-IA (II) dated 15.04.2008</u> | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. | <p>Financial Closure Date : The project was financially closed on 11th May 2015.</p> <p>Final Approval Details : The project has received following approvals from SPCB. ⇒ Consent To Establish (NOC) # 47139 dated 25.07.2012 ⇒ CC&A amendment AWH#65674 dated 11.05.2015 from GPCB against the Environmental Clearance</p> <p>Date of Start of Project The Project has been started from 12th May 2015. The details are attached as Annexure 1.</p> |

We hope that the above is in order. In case you need any additional information, we can provide the same on hearing from you.

Thanking you.

Yours faithfully,
For, UPL Limited



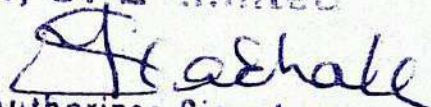
S M Karhale
General Manager (Environment)

J. Impatiel
10/9/18

कार्यालय / OFFICE
पर्यावरण एवं वन मंत्रालय (केन्द्रीय)
Ministry of Environment & Forests (C)
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)
Regional Office (Western Region)
अंकलेश्वर (म.प्र.) - 462016

| Sr No | Name of Product | Commencement of work | Completion of work |
|-------|---|--|--------------------|
| 1 | Phorate/ Turbuphos | 1995 | 1996 |
| 2 | Acophate OR Metamitron | 1996 | 1997 |
| 3 | Devonol OR Metabromuron | 2003 | 2004 |
| 4 | Phosphamidon (PD) OR Surflan | 1993 | 1993 |
| 5 | Dichlorovos (DDVP) | 1996 | 1996 |
| 6 | Monocrotophos | 2012 | 2015 |
| 7 | Acetanapride OR Imidacloprid | 2012 | 2015 |
| 8 | Metribuzin | 2012 | 2015 |
| 9 | Diethyl Thio Phosphoryl Chloride (DETCL) | 1993 | 1993 |
| 10 | Para Chloro O Cresol (PCOC) | 1996 | 1997 |
| 11 | Di Methyl Phosphorus Amidothionate (DMPAT) | 2004 | 2004 |
| 12 | Di Methyl Methyl Phosphonate (DMMP) | 2004 | 2004 |
| 13 | Di Ethyl Thio Phosphoric Acid (DETA) / Zinc Di Thio Phosphate (ZnDTP) | 2002 | 2004 |
| 14 | Noflan | 2012 | 2015 |
| 15 | Absolute Alcohol | Obtained CC&A on 01/04/1997 but Not Manufactured | |

For, UPL Limited



Authorized Signatory

**GUJARAT POLLUTION CONTROL BOARD**

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382010

Phone : (079) 23222425

(079) 23222152

Fax : (079) 23232156

Website : www.gpcb.gov.in

Application For CTE After TOR

File No : GPCB/ (PCB ID. - 15832)

To,

M/s. UPL LIMITED (UNIT No.2).

3405/3406/3460-A, , ,

City :ANKLESHWAR ,

Dist : Ankleshwar ,

Taluka : Ankleshwar

Sub: Consent to Establish (After obtaining Terms Of Rrference For Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: (1) Your online application No. 169819 dated 17/12/2019

(2) TOR issued by Central Authority vide their letter no. J-11011/180/2016- I A II(I) Dated 31/01/2018

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (After obtaining Terms Of Rrference For Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981** for manufacturing of products as mentioned into the application of Environment Clearance (EC) for which TOR is granted vide letter under reference no (2) above.

Consent To Establish Is Granted Subject To The Following Conditions: -

- 1) The validity period of this CTE shall be Seven Years from the issue of this order.
- 2) Applicant shall strictly comply with all conditions stipulated by competent authority in the order of Environment Clearance to be issued in reference to TOR issued vide letter under reference No. : 2 above.
- 3) The applicant shall however , not without the prior concern of the Board. Bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the water Act - 1974, the Air - 1981 and the Environment (Protection) Act - 1986.

For and on behalf of
Gujarat Pollution Control Board


R.R.Vyas
ROH - Ankleshwar

- This order is issued to 3405/3406/3460-A, , , City :ANKLESHWAR, Dist : Ankleshwar, Taluka : Ankleshwar (15832) for CTE amendment after obtaining EC.

Outward No. 157/24/01/2020

No.J-11011/180/2016- I A II(I)
Government of India
Minister of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhavan,
Vayu Wing, 3rd Floor, Aliganj,
Jor Bagh Road, New Delhi-110003
31 Jan 2018

To,

M/s UPL LIMITED UNIT TWO
Plot no. 117/118, GIDC Notified Industrial Area,
Bharuch-393002
Gujarat

Tel.No.0264-6251223; Email:vishal.patel1@uniphos.com

Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

- | | |
|---|---|
| 1. Proposal No.: | IA/GJ/IND2/71948/2017 |
| 2. Name of the Proposal: | Proposed Expansion in Existing Capacity of Pesticides Technical, Intermediate & Pesticides Formulation Products & Addition of New Pesticides Technical Product within Existing Premises at M/s UPL Limited, UNIT # 02, Plot No. 3405/ 3406/3460A, Notified GIDC Industrial Estate, Ankleshwar, Bharuch, Gujarat |
| 3. Category of the Proposal: | Industrial Projects - 2 |
| 4. Project/Activity applied for: | 5(b) Pesticides industry and pesticide specific intermediates (excluding formulations) |
| 5. Date of submission for TOR: | 30 Dec 2017 |

In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

5(b): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR PESTICIDES INDUSTRY AND PESTICIDE SPECIFIC INTERMEDIATES (EXCLUDING FORMULATIONS) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

2) Introduction

- i. Details of the EIA Consultant including NABET accreditation
- ii. Information about the project proponent
- iii. Importance and benefits of the project

3) Project Description

- i. Cost of project and time of completion.
- ii. Products with capacities for the proposed project.
- iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
- iv. List of raw materials required and their source along with mode of transportation.
- v. Other chemicals and materials required with quantities and storage capacities
- vi. Details of Emission, effluents, hazardous waste generation and their management.
- vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
- ix. Hazard identification and details of proposed safety systems.
- x. Expansion/modernization proposals:
 - a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing Iexisting operation of the project from SPCB shall be attached with the EIA-EMP report.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (*in case of projects involving forest land more than 40 ha*)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.

6) Environmental Status

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
- iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- vi. Ground water monitoring at minimum at 8 locations shall be included.
- vii. Noise levels monitoring at 8 locations within the study area.
- viii. Soil Characteristic as per CPCB guidelines.
- ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.
- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

- 10)** Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11) Enterprise Social Commitment (ESC)

- i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

- 12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 13) 'A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR PESTICIDES INDUSTRY AND PESTICIDE SPECIFIC INTERMEDIATES (EXCLUDING FORMULATIONS)

1. Commitment that no banned pesticides will be manufactured.
2. Details on solvents to be used, measures for solvent recovery and for emissions control.
3. Details of process emissions from the proposed unit and its arrangement to control.
4. Ambient air quality data should include VOC, other process-specific pollutants* like NH₃*, chlorine*, HCl*, HBr*, H₂S*, HF*, CS₂ etc., (*-as applicable)
5. Work zone monitoring arrangements for hazardous chemicals.
6. Detailed effluent treatment scheme including segregation for units adopting 'Zero' liquid discharge.
7. Action plan for odour control to be submitted.
8. A copy of the Memorandum of Understanding signed with cement manufacturers indicating clearly that they co-process organic solid/hazardous waste generated.
9. Authorization/Membership for the disposal of liquid effluent in CETP and solid/hazardous waste in TSDF, if any.
10. Material Safety Data Sheet for all the Chemicals are being used/will be used.
11. Authorization/Membership for the disposal of solid/hazardous waste in TSDF.
12. Details of incinerator if to be installed.
13. Risk assessment for storage and handling of hazardous chemicals/solvents. Action plan for handling & safety system to be incorporated.
14. Arrangements for ensuring health and safety of workers engaged in handling of toxic materials.

**MINUTES OF THE 11th EXPERT APPRAISAL COMMITTEE (INDUSTRY-2) MEETING HELD
DURING 28-29 August, 2019**

Venue: Indus Hall, Ground Floor, Jal Wing, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, JorBagh Road, New Delhi-3

Time: 10:30 AM

11.1 Opening Remarks by the Chairman

11.2 Confirmation of the Minutes of the 10th Meeting of the EAC (Industry-2) held during 29-31 July, 2019 at Indira Paryavaran Bhawan, New Delhi.

The EAC, having taken note that no comments were offered on the minutes of its 10th meeting held during 29-31 July, 2019 at New Delhi, confirmed the same.

Day One - 28th August, 2019

11.3 Environmental Clearance

Agenda No.11.3.1

Expansion and debottlenecking of existing petrochemical manufacturing facility at Vadodara (Gujarat) Manufacturing Division (VMD) of M/s Reliance Industries Limited- Environmental Clearance

[IA/GJ/IND2/100410/1998, J-11011/13/99-IA-II(I)]

The project proponent and their consultant M/s Kadam Environmental Consultants, made a detailed presentation on the salient features of the project.

11.3.1.1 During deliberations, the EAC noted the following: -

The proposal is for environmental clearance to the project for expansion & debottlenecking of petrochemical facility of Vadodara Manufacturing Division (VMD) by M/s Reliance Industries Limited in an area of 350 ha located at Vadodara (Gujarat).

The details of products and capacity as under:

| Plant | Products | Capacity (MTM) | | |
|--------------------------------|----------------------------------|----------------|----------|-------|
| | | Existing | Proposed | Total |
| GOP | Ethylene | 17000 | 8000 | 25000 |
| | Propylene | 8000 | 7000 | 15000 |
| GAP | Ortho xylene | 3784 | 0 | 3784 |
| | Para xylene | 4050 | 0 | 4050 |
| | Dimethyl Terephthalate | 3333 | 0 | 3333 |
| C2 Derivatives including Vinyl | Ethylene Glycol (EG) | 1670 | 470 | 2140 |
| | Ethylene Oxide (EO) | 836 | 1004 | 1840 |
| | Low Density Poly Ethylene (LDPE) | 13335 | 0 | 13335 |
| | Ethylene Dichloride (EDC) | 8335 | 0 | 8335 |
| | Vinyl Chloride | 4750 | 3020 | 7770 |

Agenda No.11.5.8

Proposed Expansion in Existing Capacity of Pesticides Technical, Intermediate & Pesticides Formulation Products & Addition of New Pesticides Technical Product within Existing Premises at Plot 3405/3406/3460-A, GIDC Estate, Ankleshwar, Bharuch (Gujarat) by M/s UPL Ltd - Environment clearance

[IA/GJ/IND2/91392/2002, J-11011/77/2002-IA II]

11.5.8.1 Member Secretary was not present during appraisal of the proposal due to other important assignment in the office.

11.5.8.2 During deliberations, the Committee noted the following:

The proposal is for environmental clearance to the project for expansion of pesticide technical and pesticide specific intermediates manufacturing unit from 4069 TPM to 9564 TPM by M/s UPL Ltd in an area of 65,625 sqm located at Plot No.3405/ 3406/3460A, Notified Industrial Estate, GIDC, Taluka Ankleshwar, District Bharuch (Gujarat).

The details of proposed products are as under:-

| Plant No | S.N. | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) |
|----------|----------------|--|---------------------------|--------------------------|-----------------------------------|-----------------------|
| A | 1 | D-Devrinol OR Devrinol OR Clomazone (combined capacity) | 300 | NIL | D-Devrinol | 300 |
| | | OR | OR | OR | OR | OR |
| | 2 | Metobromuron | 60 | NIL | Metobromuron | 60 |
| | 3 | Devrinol | NIL | 400 | Devrinol | 400 |
| | 4 | Imazapic Technical | NIL | 500 | Imazapic Technical | 500 |
| | 5 | Ethofumesate | NIL | 100 | Ethofumesate | 100 |
| B | 6 | Terbuphos OR | 500 | NIL | Terbuphos OR | 500 |
| | | Phorate OR | | | Phorate OR | |
| | | Metasystox (combined capacity) | | | Metasystox (combined capacity) | |
| 7 | Acetamiprid OR | 10 | 40 (Combined Capacity) | Acetamiprid OR | 50 (Combined Capacity) | |
| | Imidacloprid | 5 | | Imidacloprid | | |
| C | 8 | Acephate | 1,225 | NIL | Acephate | 1,225 |
| | 9 | OR Metamitron | OR 60 | NIL | OR Metamitron | OR 60 |
| D | 10 | Phosphamidon (PD) OR Azoxystrobin | 400 OR | NIL | Phosphamidon (PD) OR | 400 OR 40 |

| Plant No | S.N. | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) |
|---|-------|---|--------------------------|--------------------------|---|-----------------------|
| | | Surflan OR | 40 | | Surflan | |
| | 11 | Azoxystrobin | NIL | 200 | Azoxystrobin | 200 |
| | 12 | Clomazone | NIL | 300 | Clomazone | 300 |
| | 13 OR | Monocrotophos OR | | | Monocrotophos OR | |
| | 13 | 2-4 D technical (2, 4-Dichloro Phenoxy Acetic Acid) (Combined Capacity) | 10 (Combined Capacity) | 90 (Combined Capacity) | 2-4 D technical (2, 4-Dichloro Phenoxy Acetic Acid) (Combined Capacity) | 100 |
| | 14 | Dichlorvos (DDVP) OR | 85 OR | NIL | Mesotrion | 85 |
| | | Ethofumesate OR | 50 OR | NIL | | |
| | | Mesotrion OR | 85 OR | NIL | OR | |
| | | Pyrazosulfuron Ethyl | 85 | NIL | Pyrazosulfuron Ethyl (Combined Capacity) | |
| | 15 | Dichlorvos (DDVP) | NIL | 470 | Dichlorvos (DDVP) | 470 |
| | 16 | Metribuzin | 5 | NIL | Metribuzin | 5 |
| E | 17 | Acephate | NIL | 1,775 | Acephate | 1,775 |
| TOTAL A - Submitted in PFR & Form 1 | | | 2,235 | 3,575 | | 5,810 |
| <u>TOTAL A1 - Revised After Exclusion of Prohibited Pesticides</u> | | | 2,175 | 3,405 | -- | 5,580 |
| <i>Based on The Pesticide (Prohibition) Order 2018 dated 8th August 2018 by Ministry of Agriculture and Farmers Welfare the Products - Dichlorvos, Phorate&Phosphamidon are Prohibited for Manufacture, Formulate, Import with effect from the 1st January, 2019.</i> | | | | | | |
| <i>Note: The strikethrough items are no longer manufactured or produced at Unit 2 from January 01st 2019</i> | | | | | | |
| (B) Intermediate Chemicals - Existing and Proposed capacity | | | | | | |
| A | 1 | Di Methyl Methyl Phosphonate (DMMP) | 100 | 200 | Di Methyl Methyl Phosphonate (DMMP) | 300 |
| B | 2 | Di Ethyl ThioPhosphoryl Chloride (DETCL) OR | 50 OR | NIL | Di Ethyl ThioPhosphoryl Chloride (DETCL) OR | 50 OR |
| | | Amino Aceto Nitrile Sulphate (AANS) OR | 160 OR | | Amino Aceto Nitrile Sulphate (AANS) OR | 160 OR |
| | | Myristyl amine oxide (MO) | 160 | | Myristyl amine oxide (MO) | 160 |

| Plant No | S.N. | Product Name | Existing Capacity (TP/M) | Proposed Capacity (TP/M) | After Expansion Product Name | Total Capacity (TP/M) |
|--|------|---|--------------------------|--------------------------|---|-----------------------|
| | | | | | (Combined capacity) | |
| | 3 | Para Chloro O Cresol (PCOC) | 96 | NIL | Para Chloro O Cresol (PCOC) | 96 |
| | 4 | Di Ethyl Thio Phosphoric Acid (DETA) OR ZnDTP (Combined Capacity) | 1,000 | 1,000 | Di Ethyl Thio Phosphoric Acid (DETA) OR ZnDTP (Combined Capacity) | 2,000 |
| | 5 | Absolute alcohol | 420 | NIL | Absolute alcohol | 420 |
| | 6 | Noflan | 8 | NIL | Noflan | 8 |
| C | 7 | Di Methyl Phosphorus Amido Thionate (DMPAT) | 110 | 890 | Di Methyl Phosphorus Amido Thionate (DMPAT) | 1000 |
| TOTAL B - Submitted in PFR & Form 1 | | | 1,894 | 2,090 | | 3,984 |
| TOTAL B1 - Revised After Exclusion of Prohibited Pesticides | | | 1,894 | 2,090 | | 3,984 |
| Grand Total (A + B) As per PFR Submission | | | 4,129 | 5,665 | | 9,794 |
| <u>Grand Total (A1 + B1) After Exclusion of Prohibited Pesticides</u> | | | 4,069 | 5,495 | | 9,564 |

Note: The strikethrough items are no longer manufactured or produced at Unit 2 from January 01st 2019 as per The Pesticide (Prohibition) Order 2018 dated 8th August 2018 by Ministry of Agriculture and Farmers Welfare, the products are banned

The project/activities are covered under category A of item 5(b) 'Pesticides industry and Pesticide specific intermediates' and 5 (f) 'Synthetic organic Chemicals' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level by the sectoral EAC in the Ministry.

Standard Terms of Reference for the project was issued on 31st January, 2018. Public Hearing is exempted being project site located inside the notified industrial area.

Existing land area is 65,625m² and no additional land will be used for proposed expansion. Industry has already developed greenbelt in an area of 14226.58 m² out of total area of the project. The industry has also requested / signed MOU with GIDC for additional land for green belt development. The estimated project cost is Rs. 445.89 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.26.02 Crores and the recurring cost (operation and maintenance) will be about Rs.34 crores per annum. Total Employment will be 103 persons as direct & 150 persons indirect after expansion.

There are no National parks, Wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Narmada river flows at 7 km in North East.

Total water requirement will be 3442 cum/day of which fresh water requirement of 2747 cum/day will be met from GIDC water supply. Effluent of (513.00 cum/day Existing + 317 cum/day Additional = 830 cum/day) quantity will be treated through existing ETP followed by RO and MEE. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be ~16,799 kW including existing 6,895 kW proposed to be met from Dakshin Gujarat Vij Company Limited (DGVCL) State power distribution corporation limited (SPDCL). Existing unit has 3 DG sets of 1x1,250 kVA, 1x500 kVA and 1x2,000 kVA capacity, additionally 1x2,000 kVA DG sets are used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.

Existing unit has 2x10 TPH and 1x5 TPH capacity natural gas/ LSHS and FO fired boilers. Additionally, 2x20 TPH capacity natural gas/ LSHS and FO fired boiler will be installed. Multi cyclone separator/ bag filter with a stack of height of 55 m will be installed for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers.

Ambient air quality monitoring was carried out at 9 locations during 26th February 2018 to 21st May, 2018 and the baseline data indicates the ranges of concentrations as: PM₁₀ (35.5 – 121.0 µg/m³), PM_{2.5} (15.8 – 64.2 µg/m³), SO₂ (7.3 – 25.4 µg/m³) and NO₂ (11.5 – 45.4 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 3.5 µg/m³, 6.41 µg/m³ and 2.23 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

Earlier, environmental clearance was granted by the Ministry vide letter dated 15th April, 2008 to the project for expansion of pesticides and intermediate products in favour of M/s United Phosphorous Ltd. Unit-2 located at Plot No.3405/ 3406, GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat). The Monitoring report on compliance status of the EC conditions was forwarded by the Ministry's Regional Office at Bhopal (after conducting site visit on 18th July, 2018) vide letter dated 2nd November, 2018. The EAC found the same to be satisfactory.

The expenditure towards CER for the project would be 0.75% of the project cost as committed by the project proponent.

The EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components.

11.5.8.3 *The EAC, after deliberations, recommended the project for grant of environmental clearance, subject to compliance of terms and conditions as under:-*

- *Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.*
- *Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.*
- *As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.*
- *Natural gas shall be used as fuel in the boiler. Furnace oil shall not be used in the plant.*

- *National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13th June, 2011, as amended from time to time, shall be followed.*
- *No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD₅₀<100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.*
- *To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.*
- *Solvent management shall be carried out as follows:*
 - (v) Reactor shall be connected to chilled brine condenser system.*
 - (w) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.*
 - (x) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.*
 - (y) Solvents shall be stored in a separate space specified with all safety measures.*
 - (z) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.*
 - (aa) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.*
 - (bb) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.*
- *Total fresh water requirement shall not exceed 2747 cum/day to be met from GIDC water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.*
- *Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system*
- *Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.*
- *Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.*
- *The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.*
- *The company shall undertake waste minimization measures as below:-*
 - (i) Metering and control of quantities of active ingredients to minimize waste.*
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.*
 - (iii) Use of automated filling to minimize spillage.*
 - (iv) Use of Close Feed system into batch reactors.*
 - (v) Venting equipment through vapour recovery system.*
 - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.*
- *The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.*
- *As committed, funds allocation for the Corporate Environment Responsibility (CER) shall be 0.75% of the total project cost. Item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.*
- *Safety and visual reality training shall be provided to employees.*

- For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- Occupational health surveillance and urological assessment of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- Being a Pesticide manufacturing unit, no ground water shall be recharge. Harvested Rain water shall be collected in RCC tanks and shall be used for process requirements.
- Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- Mitigating measures suggested during process safety and risk assessment studies shall be carried out.

11.6 Amendment in EC

Agenda No. 11.6.1

Expansion of resins at Block No.1834/P1 & P2, ChikhliVansda Road, Opposite KhodiyarQuary, Taluka Chikhali, District Navasari (Gujarat) by M/s Windson Chemical Pvt. Ltd -For amendment in EC reg.

[IA/GJ/IND2/27574/2014, J-11011/103/2014-IA II (I)]

11.6.1.1 The proposal is for amendment in the environmental clearance granted by the Ministry vide letter dated 28th December, 2017 for Expansion of Resin manufacturing unit located at Block No.1834/P1 & P2, Chikhlivasda Road, Opp. Khodiyar Quarry, At & Po.: Alipore – 396409, Taluka: Chikhli, District: Navsari, Gujarat in favor of M/s. Windson Chemical Pvt. Ltd.

11.6.1.2 The project proponent has requested for amendment in the EC with the details are as under :

| S. No. | Para of EC issued by MoEF&CC | Details as per the EC | To be revised / read as | Justification / reasons |
|--------|------------------------------|---|--|---|
| 1 | 6 (page no. 2)para -1 | Power requirement after expansion will be 600 KVA, proposed to be met from Dakshin Gujarat Vij Company Ltd. (DGVCL). Existing unit has one DG set of 250 KVA capacity. Two more DG sets of 250 KVA each shall be kept as standby during power failure. Stack (6 m) shall be provided as per | <ul style="list-style-type: none"> • Existing unit has one DG set of 250 KVA capacity which will be removed after proposed expansion. • Additionally one DG set of 350 KVA capacity, 2 DG set of 400 KVA capacity and 1 DG set of 620 KVA capacity shall be kept as standby during power failure. Stack (6 m) shall be provided as per CPCB norms to the each proposed DG set. | During executing process; it comes to conclude that unit has to provide higher capacity of DG set to control process operation. |

Date: 11-1-2019
UNDERTAKING

We, **M/s UPL Limited (Unit-2)**, the Project Proponent of the proposed expansion of manufacturing capacity of existing products and manufacturing of new pesticides & intermediate chemicals, at Plot No.- 3405, 3406 & 3460A, G.I.D.C Notified Industrial Estate, Ankleshwar, District-Bharuch, Gujarat, hereby declare that we have gone through list of pesticides banned for manufacturing in India published by Central Insecticide Board (CIB) till date.

We commit that UPL is not planning to manufacture / import / store any of the banned pesticides for the proposed expansion products at our existing site and the following product listed in product list which are discontinued from production on the date (1st January 2019) specified under S.O.3951 (E) The Pesticide (Prohibition) Order 2018 dated 8th August 2018 published by Ministry of Agriculture and Farmers Welfare.

| Sr. No | Name of Product (Pesticide) | Existing production Quantity | Additional Quantity for proposed expansion | Total Quantity after proposed expansions | Remarks |
|--------|-----------------------------|------------------------------|--|--|--|
| 1 | Phorate | 500 MT/Month | 0.00 MT/Month | 500 MT/Month | No expansion is proposed in product and production of the Phorate has been discontinued from 1 st January 2019 as per time line given under The Pesticide (Prohibition) Order 2018 dated 8 th August 2018 published by Ministry of Agriculture and Farmers Welfare. |
| 2 | Phosphamidon | 100 MT/Month | 0.00 MT/Month | 100 MT/Month | No expansion is proposed in product and production of the Phosphamidon has been discontinued from 1 st January 2019 as per time line given under The Pesticide (Prohibition) Order 2018 dated 8 th August 2018 published by Ministry of Agriculture and Farmers Welfare. |
| 3 | Dichlorvos (DDVP) | 85 MT/Month | 85 MT/Month | 170 MT/Month | The Unit has proposed expansion in product Dichlorvos but production of the Dichlorvos has been discontinued from 1 st January 2019 as per time line given under The Pesticide (Prohibition) Order 2018 dated 8 th August 2018 published by Ministry of Agriculture and Farmers Welfare. |



भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

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कृषि और किसान कल्याण मंत्रालय

(कृषि और किसान कल्याण विभाग)

अधिसूचना

तारीख: 8 अगस्त, 2018

का. आ. 3951(अ).—जबकि पूर्व के कृषि और सहकारिता विभाग में केन्द्रीय सरकार ने भारत में रजिस्ट्रीकृत नियो-विद्युत कीटनाशियों के उपयोग को जारी रखने अथवा प्रयोग की समीक्षा के लिए 8 जुलाई, 2013 को एक विशेषज्ञ समिति गठित की थी और ऐसे छियासठ नियो-विद्युत कीटनाशियों में घरेलू उपयोग के लिए रजिस्ट्रीकरण जारी है, परन्तु अन्य देशों में प्रतिबंधित और निर्विधित अथवा वापस ले लिए गए हैं, की समीक्षा करने के लिए 19 अगस्त 2013 को एक समीक्षा समिति का गठन किया गया था, जिसने विस्तृत जांच के बाद 09 दिसम्बर, 2015 केन्द्र सरकार को अपनी रिपोर्ट प्रस्तुत की;

अतः, कीटनाशी अधिनियम, 1968 (1968 का 46) की धारा 5 के अधीन गठित रजिस्ट्रीकरण समिति ने उसकी विशेष रिपोर्ट पर विचार-विमर्श किया था और अपने कार्यवृत्त में केंद्र सरकार को अपनी टिप्पणी प्रस्तुत की थी;

अतः, केंद्रीय सरकार, उक्त विशेषज्ञ समिति की सिफारिशों पर विचार करने के पश्चात् और रजिस्ट्रीकरण समिति के साथ परामर्श के पश्चात् समाधान है कि इस अधिसूचना की अनुसूची में विद्युत कीटनाशियों के उपयोग से मानव और पशुओं को संभावना की संभावना है, इस कारण से तुरंत कार्रवाई करना समीचीन और आवश्यक है;

अतः, प्रारूप आदेश, जिसे केंद्रीय सरकार, कीटनाशी अधिनियम, 1968 की धारा 27 की उप-धारा 2 के साथ पठित धारा 25 के अन्तर्गत उप-धारा(1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए कृषि और किसान कल्याण मंत्रालय (कृषि, सहकारिता और किसान कल्याण विभाग) की अधिसूचना संख्या का.आ. 4212 (अ), तारीख 15 दिसम्बर, 2016 को भारत के राजपत्र, भाग II खण्ड 3 उप-खण्ड (ii) के माध्यम से प्रकाशित किया गया था जिसमें इससे संबंधित लोगों से पत्रों की आपत्तियां मांगी गई थी, जो उपरोक्त अधिसूचना वाले राजपत्र की प्रतियां लोगों को उपलब्ध कराने के पैंतालिस दिन पूर्व मांगी गई थी;

अतः, उक्त अधिसूचना वाले राजपत्र की प्रतियां लोगों को 28 दिसम्बर, 2016 को उपलब्ध कराई गई थी;

केन्द्र सरकार, उक्त अधिसूचना से संबंधित आपत्तियों और सुझावों पर विचार करने के लिए एक विशेषज्ञ समिति का गठन किया गया है। निम्न नाम आपत्तियों और सुझाव पर विचार करने के पश्चात तारीख 16 जुलाई, 2018 को केन्द्र सरकार को अपनी रिपोर्ट प्रस्तुत की।

केन्द्र सरकार, कीटनाशी अधिनियम, 1968 (1968 का 46) की धारा 28 के साथ पठित धारा 27 में दी गई शक्तियों का उपयोग करते हुए, विशेषज्ञ समिति की सिफारिशों पर विचार करते हुए निम्न आदेश करती है।

आदेश

1. शीर्षक और प्रारम्भ (1) इस आदेश का संक्षिप्त नाम कीटनाशी (निर्णय) अधिनियम, 2018 रहेगा।

(2) यह राजपत्र में प्रकाशन की तारीख को प्रवृत्त होगा।

2. विषय कीटनाशियों का प्रतिषेध :-

(1) कोई व्यक्ति इस आदेश की अनुसूची के स्तंभ (2) के अधीन विनिर्दिष्ट कीटनाशियों का उसके अधीन विनिर्दिष्ट तारीख से निर्दिष्ट कार्यवाही नहीं करेगा।

(2) रजिस्ट्रीकरण समिति उक्त अनुसूची में विनिर्दिष्ट कीटनाशियों के लिए प्रदान किए गए रजिस्ट्रीकरण पत्र को वापस ले सकेगी।

(3) यदि कोई व्यक्ति जो रजिस्ट्रीकरण पत्र धारण करता है, तीन मास की अवधि के भीतर, उप पैरा (2) में निर्दिष्ट रजिस्ट्रीकरण पत्र में उक्त अधिनियम में अंतर्विष्ट कार्यवाही नहीं करेगा।

(4) उक्त अधिनियम की धारा 9 के अधीन प्रदत्त अनुसूची में विनिर्दिष्ट कीटनाशियों के लिए पंजीकरण का पत्र उक्त अनुसूची के स्तंभ (3) के तहत तारीख से रद्द किया गया समझा जाएगा।

(5) प्रत्येक राज्य सरकार उक्त अधिनियम और इसके अधीन बनाये गए नियमों के अन्वये अपने राज्य में जिनमें वह राज्यों में इस आदेश के कार्यान्वयन के लिए आवश्यक समझे।

अनुसूची

कीटनाशियों का प्रतिषेध

(निर्णय अधिनियम, 2018 के अधीन)

| क्र.स. | कीटनाशी (कीटनाशियों) का नाम | केन्द्र सरकार का निर्णय |
|--------|--------------------------------|---|
| (1) | (2) | (3) |
| 1. | बेनोमाइल | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 2. | कार्बराइल | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 3. | डायजिनोन | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 4. | फेनारिमोल | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 5. | फेंथिओन | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 6. | लिनुरोन | इस आदेश के प्रकाशन की तारीख से रजिस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |

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| 7. | मेथोक्सी ईथाइल मरकरी क्लोराइड | इस आदेश के प्रकाशन की तारीख से रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 8. | मिथाईल पैराथिओन | इस आदेश के प्रकाशन की तारीख से रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 9. | सोडियम सायनाईड | इस आदेश के प्रकाशन की तारीख से केवल कीटनाशकीय उद्देश्य के लिए इसका रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन, विक्रय और उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 10. | थियोमेटोन | इस आदेश के प्रकाशन की तारीख से रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 11. | ट्राईडेमोर्फ | इस आदेश के प्रकाशन की तारीख से रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन और विक्रय प्रतिबंधित किया जाता है और इसका उपयोग पूर्णतः निषिद्ध किया जाता है। |
| 12. | ट्राईफ्लूरेलिन | (i) इस आदेश के प्रकाशन की तारीख से रजस्ट्रीकरण, आयात, विनिर्माण, सूत्रीकरण, परिवहन, और विक्रय प्रतिबंधित किया जाता है और गेहूं में उपयोग के अलावा इसका सभी प्रकार का उपयोग पूर्णतः निषिद्ध किया जाता है। (ii) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए। |
| 13. | अलाक्लोर | (i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा। (ii) कोई व्यक्ति 1 जनवरी, 2019 से अलाक्लोर का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा। (iii) अलाक्लोर का उपयोग 31 दिसंबर, 2020 से पूर्णतः प्रतिबंधित होगा। (iv) यह जलीय जीव के लिए विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि "यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए"। |
| 14. | डाईक्लोरोवस | (i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा। (ii) कोई व्यक्ति 1 जनवरी, 2019 से डाईक्लोरोवस का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा। (iii) डाईक्लोरोवस का उपयोग 31 दिसंबर, 2020 से पूर्णतः प्रतिबंधित होगा। (iv) यह जलीय जीव के लिए विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए। (v) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट किया जा सकेगा कि उत्पाद मधुमक्खियों के लिए विषैला है इसलिए सक्रिय मधुमक्खी फोरेजिंग अवधि के दौरान छिड़काव नहीं करे। |

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| 15. | फोरेट | <p>(i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजिस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा।</p> <p>(ii) कोई व्यक्ति 1 जनवरी, 2019 से फोरेट का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा।</p> <p>(iii) फोरेट का उपयोग 31 दिसंबर, 2020 से पूर्णतः प्रतिबद्धित होगा।</p> <p>(iv) यह जलीय जीव के लिए विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए।</p> <p>(v) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट किया जा सकेगा कि उत्पाद मधुमक्खियों के लिए विषैला है इसलिए सक्रिय मधुमक्खी फोरेजिंग अवधि के दौरान छिड़काव नहीं करे।</p> <p>(vi) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह उत्पाद चिड़ियों के लिए विषैला है।</p> |
| 16. | फोस्फामिडोन | <p>(i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजिस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा।</p> <p>(ii) कोई व्यक्ति 1 जनवरी, 2019 से फोस्फामिडोन का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा।</p> <p>(iii) फोस्फामिडोन का उपयोग 31 दिसंबर, 2020 से पूर्णतः प्रतिबद्धित होगा।</p> <p>(iv) यह जलीय जीव के लिए विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए।</p> <p>(v) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट किया जा सकेगा कि उत्पाद मधुमक्खियों के लिए विषैला है इसलिए सक्रिय मधुमक्खी फोरेजिंग अवधि के दौरान छिड़काव नहीं करे।</p> <p>(vi) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह उत्पाद चिड़ियों के लिए विषैला है।</p> |
| 17. | ट्रायाजोफोस | <p>(i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजिस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा।</p> <p>(ii) कोई व्यक्ति 1 जनवरी, 2019 से ट्रायाजोफोस का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा।</p> <p>(iii) ट्रायाजोफोस का उपयोग 31 दिसंबर, 2020 से पूर्णतः प्रतिबद्धित होगा।</p> <p>(iv) यह जलीय जीव के लिए विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह जलीय जीव के लिए विषैला है इसलिए जल निकायों, जलीय कृषि, मछली की खेती के पास इसका उपयोग नहीं किया जाना चाहिए।</p> <p>(v) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट किया जा सकेगा कि उत्पाद मधुमक्खियों के लिए विषैला है इसलिए सक्रिय मधुमक्खी फोरेजिंग अवधि के दौरान छिड़काव नहीं करे।</p> <p>(vi) लेबल और पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह उत्पाद चिड़ियों के लिए विषैला है।</p> |
| 18. | ट्राईक्लोरोफोर्न | <p>(i) इस आदेश के प्रकाशन के पश्चात विनिर्माता को नया रजिस्ट्रीकरण प्रमाणपत्र जारी नहीं किया जाएगा।</p> <p>(ii) कोई व्यक्ति 1 जनवरी, 2019 से ट्राईक्लोरोफोर्न का आयात, विनिर्माण या सूत्रीकरण नहीं करेगा।</p> |

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| | | <p>iii) ट्राइक्लोरोफोर्न का उपयोग 31 दिसंबर 2016 तक प्रतिबन्धित होगा।</p> <p>(iv) जल में मौजूद बहुत विषैला है इसलिए लेबल और पत्रक पर एक चेतावनी कथन शामिल किया गया कि यह जलीय जीव के लिए विषैला है इसलिए जल संचयन के लिए खेतों की खेती के पास इसका उपयोग नहीं किया जाना चाहिए।</p> <p>(v) पत्रक पर एक चेतावनी कथन समाविष्ट होगा कि यह उत्पाद चिड़ियों के लिए विषैला है।</p> |
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संयुक्त सचिव

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(DEPARTMENT OF AGRICULTURE, CO-OPERATION AND FARMERS WELFARE)

NOTIFICATION

New Delhi, the 8th August, 2018

S.O. 3951(E).— Whereas the Central Government in the erstwhile Ministry of Agriculture, Department of Agriculture and Cooperation constituted an Expert Committee on 8th July, 2013 to examine the continued use of or otherwise of neo-nicotinoid pesticides registered in India and the mandate of the Committee, on 19th August, 2013, was further expanded to review Sixty Six pesticides which are banned or restricted or withdrawn in other countries but continue to be registered for domestic use in India which, after detailed examination submitted its report to the Central Government on the 9th December, 2015;

And whereas the Registration Committee constituted under section 5 of the Insecticides Act, 1968 (46 of 1968) deliberated the Report in its special meeting and submitted its observation to the Central Government in its minute;

And whereas, the Central Government, after considering the recommendations of the said Expert Committee and after consultation with the Registration Committee satisfied that the use of eighteen pesticides as specified in the schedule to this Notification are likely to involve risk to human being and animals as to render it expedient or necessary to take immediate action;

And whereas the Draft Order, which the Central Government proposes to make, in exercise of the powers conferred by sub-section (2) of section 27 read with section 28 and sub-section (1) of section 36 of the Insecticides Act, 1968, was published vide notification of the Government of India in the Ministry of Agriculture and Farmers Welfare (Department of Agriculture, Cooperation and Farmers Welfare) vide number S.O. 4212(E), dated 15th December, 2016, in the Gazette of India, Extraordinary, Part-II, Section-3, Sub-section(ii), dated 28th December, 2016, inviting objections or suggestions from all persons likely to be affected thereby, before the expiry of the period of forty- five days from the date on which the copies of the Gazette of India containing the said notification were made available to the public;

And whereas copies of the said Gazette notification were made available to the public on the 28th December, 2016;

And whereas an Expert Committee was constituted by the Central Government to consider the objections and suggestions received in respect of the said notification which after considering all the objections and suggestions submitted its report to the Central Government on the 16th July, 2018;

Now, therefore, in exercise of the powers conferred by section 27 read with section 28 of the Insecticides Act, 1968 (46 of 1968), the Central Government after considering the recommendations of the Expert Committee hereby makes the following Order, namely:-

ORDER

1. Short title and commencement. - (1) This Order may be called the Pesticides (Prohibition) Order, 2018
(2) It shall come into force on the date of its publication in the Official Gazette.
2. Prohibition of certain pesticides. -

- (1) No person shall manufacture, import, formulate, transport, sell, use any pesticide specified under column (2) of the Schedule to this Order from the date specified under column (3) thereof.
- (2) The Registration Committee shall call back the certificate of registration granted for the pesticides specified in the said Schedule.
- (3) If any person, who holds the certificate of registration fails to return the certificate to the Registration Committee, referred to in sub-paragraph (2), within a period of three months, action shall be taken under the provisions contained in the said Act.
- (4) The certificate of registration for the pesticides specified in the Schedule granted under section 9 of the said Act shall be deemed to be cancelled from the date under column (3) of the said Schedule.
- (5) Every State Government shall take such steps under the said Act and the rules made thereunder, as it considers necessary, for the implementation of this Order in the State.

SCHEDULE

[See paragraph 2]

List of Prohibited Pesticides

| S. No. (1) | Name of Pesticides (2) | Decision of the Central Government (3) |
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| 1. | Benomyl | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 2. | Carbaryl | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 3. | Diazinon | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 4. | Fenarimol | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 5. | Fenthion | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 6. | Linuron | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 7. | Methoxy Ethyl Mercury Chloride | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 8. | Methyl Parathion | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 9. | Sodium Cyanide | The registration, import, manufacture, formulation, transport, sell and its use is completely banned for insecticidal purpose only from the date of publication of this Order. |
| 10. | Thiometon | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 11. | Tridemorph | The registrations, import, manufacture, formulation, transport, sell is prohibited and its use is completely banned from the date of publication of this Order. |
| 12. | Trifluralin | (i) The Registration, import, manufacture, formulation, transport, sell and its all uses except use in wheat shall be prohibited and completely banned from date of publication of this Order. (ii) A cautionary statement has to be incorporated in the label and leaflet that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. |
| 13. | Alachlor | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate Alachlor with effect from the 1 st January, 2019. (iii) The use of Alachlor shall be completely banned with effect from the 31 st December, 2020. (iv) It is toxic to aquatic organism, hence a cautionary statement should be incorporated |

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|-----|--------------|--|
| | | on label and leaflets “ toxic to aquatic organism hence should not be used near water bodies, aquaculture or pisciculture area |
| 14. | Dichlorvos | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate dichlorvos with effect from the January, 2019. (iii) The use of dichlorvos shall be completely banned with effect from the 31 st December, 2020. (iv) It is very toxic to aquatic organism, hence a cautionary statement should be incorporated on label and leaflets that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. (v) A warning may be incorporated in the label and leaflet stating that this product is toxic to honey bees so do not spray during active honey bees foraging period of the day. |
| 15. | Phorate | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate Phorate with effect from the 1 st January, 2019. (iii) The use of Phorate shall be completely banned with effect from the 31 st December, 2020. (iv) It is very toxic to aquatic organism, hence a cautionary statement should be incorporated on label and leaflets that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. (v) A warning may be incorporated in the label and leaflet stating that this product is toxic to honey bees so do not spray during active honey bees foraging period of the day. (vi) A cautionary statement should incorporate in label and leaflet that this product is toxic to birds. |
| 16. | Phosphamidon | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate Phosphamidon with effect from the 1 st January, 2019. (iii) The use of Phosphamidon shall be completely banned with effect from the 31 st December, 2020. (iv) It is very toxic to aquatic organism, hence a cautionary statement should be incorporated on label and leaflets that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. (v) A warning may be incorporated in the label and leaflet stating that this product is toxic to honey bees so do not spray during active honey bees foraging period of the day. (vi) A cautionary statement should incorporate in label and leaflet that this product is toxic to birds. |
| 17. | Triazophos | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate Triazophos with effect from the 1 st January, 2019. (iii) The use of Triazophos shall be completely banned with effect from the 31 st December, 2020. (iv) It is very toxic to aquatic organism, hence a cautionary statement should be incorporated on label and leaflets that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area. (v) A warning may be incorporated in the label and leaflet stating that this product is toxic to honey bees so do not spray during active honey bees foraging period of the day. (vi) A cautionary statement should incorporate in label and leaflet that this product is toxic to birds. |
| 18. | Trichlorfon | (i) No new certificate of registration to manufacture shall be issued after publication of this Order. (ii) No person shall import, manufacture or formulate Trichlorfon with effect from the 1 st January, 2019. |

| | | |
|--|--|---|
| | | <p>(iii) The use Trichlorfon shall be completely banned with effect from the 31st December, 2020.</p> <p>(iv) It is very toxic to aquatic organism, hence a cautionary statement should be incorporated on label and leaflets that it is toxic to aquatic organism, hence should not be used near water bodies, aquaculture or pisciculture area.</p> <p>(v) A cautionary statement should incorporate in label and leaflet that this product is toxic to birds.</p> |
|--|--|---|

[F. No. 13035/31/2013-PP-I (vol. ii)]

ASHISH KUMAR BHUTANI, Jt. Secy.

**RAKESH
SUKUL**

Digitally signed by
RAKESH SUKUL
Date: 2018.08.11
14:18:34 +05'30'

THE SCREEN SHOT OF ONLINE TRANSMISSION OF DATA TO CPCB SERVER SHOWING FLOW TREND & BLOCKED CONVEYANCE SYSTEM AT ETP OUTLET

The screenshot displays a web interface for monitoring an ETP outlet. On the left, a live video feed shows a concrete area with a blocked conveyance system. A timestamp '05-15-2020 Fri 11:08:35' is overlaid on the video. On the right, a 'Flow Trend' graph shows 'm3/Day' on the y-axis and 'Date Time' on the x-axis. The graph shows a flat line at 0.00 from 2020-09-00 to 15/05/2020 08:45. Below the graph are two sections: 'Industry Details' and 'Camera Details'.

| Industry Details | | Camera Details | |
|--------------------|-------------------|------------------|--------------|
| Industry Category: | PESTICIDE | Camera Make: | Hikvisionnvr |
| Industry Name: | UPL LIMITED UNIT2 | Camera Model No: | Hikvisionnvr |
| Industry Location: | Ankleshwar | PTZ: | Yes |
| Monitored Area: | ETP_Outlet | 10x Zoom: | No |
| Camera Location: | ETP_Outlet | Night Vision: | Yes |
| | | IP Camera: | Yes |



Office copy.

UPL Limited, Unit -2
Plot No. 3405/6, G.I.D.C.
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India.

w: upl-ltd.com
t: +91 2646 250578 / 250575
Date : 15-1-2020

To,

- 1) The Regional Officer,
Gujarat Pollution Control Board,
Ankleshwar
- 2) Ankleshwar Taluka Panchayat,
Ankleshwar
- 3) The District Collector,
District - Bharuch
- 4) The Notified Area Authority,
GIDC, Ankleshwar
- 5) The Divisional Manager
Gujarat Industrial Development Corporation
GIDC, Ankleshwar

Dear Sirs,

Sub : Environmental Clearance for Expansion of Pesticides & Pesticide Specific Intermediates Manufacturing Unit by M/s UPL Ltd (Unit 2) at Plot No 3405/3406/3460A, GIDC Notified Industrial Area, Ankleshwar, District – Bharuch.

Ref : Environmental Clearance Letter No : J-11011/77/2002-IA-II(I) dated 10/1/2020.

Kindly refer above Environmental Clearance granted to us by Ministry of Environment, Forests & Climate Change (MoEF&CC), for Expansion of Pesticides & Pesticide Specific Intermediates Manufacturing Unit at UPL Limited Unit 2, Ankleshwar, District – Bharuch, Gujarat.

We are enclosing copy of above Environmental Clearance for Your Kind Information & Records.

We hope that above in Order.

Thanking you,

Yours Faithfully,

For, UPL Limited,

V. V. Vallapureddy
Vidyadharareddy Vallapureddy

Enclosed :

Copy of Environmental Clearance Letter No : J-11011/77/2002-IA-II(I) dated 10/1/2020.



20/1/20
રાણજી કાંચડા
સેક્રટરી
પી.સી.



Received
Gujarat Pollution Control Board
R.O Ankleshwar
28/1/20

22-9-2020
રાણજી કાંચડા
તા. પં.



Annexure 43

UPL Limited, Unit -2
Plot No. 3405/6, G.I.D.C.
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India.

w: upl-ltd.com
t: +91 2646 250578 / 250575

4th September 2020

The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan
Sector - 10 / A,
Gandhinagar - 382 043.

IND ID # 15832

Dear Sir,

Sub: Environmental Statement for the Year 2019-20

We are forwarding herewith Environmental Statement for our Unit # 02 situated at Plot # 3405 / 3406 / 3460-A, G.I.D.C., Ankleshwar -393 002, Dist. Bharuch, for the Year 2019-20.

Our Unit is operating as Zero Discharge Unit (ZLD) since May 2014.

We hope that the above is in order.

Kindly acknowledge receipt.

Thanking you

Yours faithfully
For, UPL LIMITED


V.V Reddy
Unit Head

CC: The Regional Officer
Gujarat Pollution Control Board
Ankleshwar - 393 002.
Dist: Bharuch

CC: AP

Encl : a/a



ENVIRONMENTAL STATEMENT

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART – A

| | | | |
|------------|---|--|-----------------------------|
| i | Name and address of the owner / occupier of the industry / operation or process | Arun C Ashar UPL Limited Unit # 2, Plot # 3405 / 3406 / 3460-A, GIDC Estate, Ankleshwar – 393 002. | |
| ii | Industry Category | Primary – STC Code | |
| | | Secondary–SIC Code | 202 2021 |
| iii | Production capacity | Units | <i>Please refer Table-1</i> |

Table-1

| Sr. No. | Name of Product | Production Quantity as per CC&A (MT/Month) |
|--|---|---|
| Pesticide Technical and Intermediates | | |
| 1 | Para Chloro O Cresol (PCOC) | 96 |
| 2 | Di Methyl Phosphorus Amido Thionate (DMPAT) | 110 |
| 3 | Di Methyl Methyl Phosphonate (DMMP) | 100 |
| 4 | Absolute alcohol | 420 |
| 5 | Monocrotophos | 10 |
| | OR 2-4 D Technical (combined capacity) | OR 10 |
| 6 | Metribuzin | 5 |
| 7 | Terbuphos | 350 |
| | OR | OR |
| | Metasystox | 350 |
| | OR | OR |
| | Ethion (Combined capacity) | 350 |
| | OR Asulam Technical (Combined capacity) | OR 350 |
| 8 | Noflan | 8 |
| 9 | Di Ethyl Thio Phosphoric Acid (DETA) / Zinc Dithio Phosphate ZnDTP (combined capacity) | 1000 |
| 10 | Mesotrion | 40 |
| | OR | OR |
| | Pyrazosulfuron Ethyl | 40 |
| | OR | OR |
| | Ethofumisate | 23.5 |
| 11 | Azoxystrobin | 50 |
| | OR | OR |

| | | |
|------------------------------|---|---------------------------------|
| | Surflan (Oryzalin) | 20 |
| | OR | OR |
| | Imazapic | 5 |
| 12 | Devrinol | 300 |
| | OR | OR |
| | D-Devrinol | 300 |
| | OR | OR |
| | Clomazone | 300 |
| | OR | OR |
| | Metobromuron | 60 |
| | OR | OR |
| | Mesotrione Cu Chelate | 300 |
| | OR | OR |
| | Bifenthrin | 300 |
| | OR | OR |
| | Metribuzin | 16 |
| 13 | Acephate | 1430 |
| | OR | OR |
| | Metamitron | 70 |
| 14 | Acetamiprid | 10 |
| | OR | OR |
| | Imidacloprid | 5 |
| 15 | Amino Aceto Nitrile Sulphate (AANS) | 160 |
| | OR | OR |
| | Myristyl Amine Oxide | 160 |
| | OR | OR |
| | Di Ethyl Thiophosphory Chloride (DETCL) | 50 |
| Pesticide Formulation | | |
| F1 | Paraquate Dichloro Formulation-100% (PQDC)-Liquid Pesticide Formulation | 1010 (Combined Capacity) |
| F2 | Monocrotophos (Phoskil) 36%,40% & 55% SL- Liquid Pesticide Formulation | |
| F3 | Acephate 75%-Solid Pesticide Formulation | |
| F4 | Surflan (Oryzalin) 85% DF- Solid Pesticide Formulation | |
| F5 | Metamitron 70% WP or WDG- Solid Pesticide Formulation | |
| F6 | Metribuzine 75% DF and 70% DF- Solid Pesticide Formulation | |
| F7 | Imidaclopride 70% WS- Solid Pesticide Formulation | |
| F8 | Acephate 97% DF- Solid Pesticide Formulation | |
| F9 | Imidaclopride 17.8% - Liquid Pesticide Formulation | |

| | | |
|------------|---|--|
| F10 | Devrinol 50% DF OR Clomazone Formulation Solid Pesticide Formulation (Combined Capacity) | |
| F11 | Asulam Formulation | |
| F12 | Glyphosphate Formulation | |
| F13 | Bifenthrin Formulation | |

| | | |
|-----------|--|------------|
| iv | Year of establishment | 1993 |
| v | Date of the last Environmental Statement submitted | 12.09.2019 |

PART – B**Water and Raw Material Consumption**

| 1. | Water Consumption (m³/day) | |
|----|--|---------------------------|
| A | Water Consumption | 185.6 m ³ /day |
| B | Process | 58.8 m ³ /day |
| C | Cooling and Boiler | 87.7 m ³ /day |
| D | Domestic and Gardening | 39.1 m ³ /day |

| Name of products | Process water consumption per unit of product output m³/MT | |
|-------------------------------------|--|--|
| | During the previous financial year (2018-19) (*) | During the current financial year (2019-2020) (*) |
| Para Chloro O Cresol (PCOC) | No Production | No Production |
| Di Methyl Phosphorus Amido Thionate | No Production | No Production |
| Di Methyl Methyl Phosphonate | No Production | No Production |
| Absolute alcohol | No Production | No Production |
| Monochrotophos | No Production | No Production |
| 2-4 D Technical (combined capacity) | No Production | No Production |
| Metribuzin | No Production | No Production |
| Terbuphos | 2.23 | 2.22 |
| Metasystox | 2.20 | 2.20 |
| Ethion | No Production | No Production |
| Asulam Technical | No Production | 0.530 |
| Noflan | No Production | No Production |
| DETA | 0.96 | 0.95 |
| ZnDTP | 1.05 | 1.05 |
| Mesotrion | No Production | No Production |
| Pyrazosulfuron Ethyl | No Production | No Production |
| Ethofumisate | 3.2 | 3.0 |
| Azoxystrobin | No Production | 4.043 |
| Surflan (Oryzalin) | 1.9 | No Production |
| Imazapic | No Production | No Production |
| Devrinol | 2.55 | 2.50 |
| D-Devrinol | No Production | No Production |
| Clomazone | 11.35 | 11.20 |
| Metobromuron | No Production | No Production |
| Mesotrione Cu Chelate | No Production | No Production |
| Bifenthrin | No Production | No Production |
| Acephate | 1.77 | 1.68 |
| Metamitron | No Production | No Production |
| Acetamapride | No Production | No Production |
| Imidaclopride | No Production | No Production |
| Amino Aceto Nitrile Sulphate (AANS) | No Production | No Production |
| Myristyl Amine Oxide (MO) | No Production | No Production |
| Di Ethyl Thiophosphory Chloride | No Production | No Production |

(*) Water consumption has been calculated including consumption in other areas like canteen etc.

2) Raw Material Consumption

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|----------------------------------|---|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| A | Sulphonyl Chloride | Para Chloro Ortho Cresol (PCOC) | No Production | No Production |
| B | Ortho Cresol | | | |
| C | Chlorine | | | |
| A | Diethyl Thio Phosphonyl Chloride | Di Methyl Phosphorous Amnido Thionate (DMPAT) | No Production | No Production |
| B | Methylene dichloride | | | |
| C | Aq.Ammonia | | | |
| A | Tri Methyl Phosphite | Di Methyl Methyl Phosphonate (DMMP) | No Production | No Production |
| B | Methyl Iodide | | | |
| A | Denatured rectified Spirit | Absolute Alcohol | No Production | No Production |
| A | MMAA | Monocrotophos | No Production | No Production |
| B | Urea | | | |
| C | NaCl | | | |
| D | EDC | | | |
| E | TMP | | | |
| F | Na ₂ CO ₃ | | | |
| A | 2,4-Dichlorophenol | 2,4- D Technical | No Production | No Production |
| B | Sodium Hydroxide. | | | |
| C | Mono Chloro Acetic Acid | | | |
| D | 30% HCl | | | |
| A | Bromine | Metribuzin | No Production | No Production |
| B | Methanol | | | |
| C | Sulfur | | | |
| D | Triazinone | | | |
| E | Caustic Lye | | | |
| F | Ethyl Hexanol | | | |
| A | DETA | Terbuphos | 0.769 | 0.771 |
| B | Tertiary Butyl Mercaptan | | 0.366 | 0.366 |
| C | Formaldehyde | | 0.348 | 0.347 |
| D | Caustic Lye | | 0.007 | 0.007 |
| A | OODMTPC | Metasystox | 0.527 | 0.520 |
| B | PCI3 | | 0.176 | 0.170 |
| C | ETE | | 0.365 | 0.355 |
| D | Caustic 32% | | 0.421 | 0.320 |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|--------------------------------|--------------------------------------|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| E | Xylene | | 0.081 | 0.079 |
| F | H ₂ O ₂ | | 0.196 | 0.210 |
| G | H ₂ SO ₄ | | 0.003 | 0.003 |
| H | Sodium bi sulphite | | 0.005 | 0.005 |
| I | Ammonia | | 0.009 | 0.01 |
| J | MCB | | 0.274 | 0.376 |
| A | DETA | Ethion | No Production | No Production |
| B | Ammonium Hydroxide 24% | | | |
| C | Toluene | | | |
| D | Methylene Dibromide | | | |
| A | Sulphanilamide | Asulam | No Production | 0.313 |
| B | Sodium Methoxide | | | 0.130 |
| C | HCl | | | 0.085 |
| D | Dimethyl Carbonate | | | 0.192 |
| A | DMP | Noflan | No Production | No Production |
| B | POCl | | | |
| C | PCI | | | |
| A | Absolute Alcohol | Di Ethyl Thio Phosphoric Acid (DETA) | 0.646 | 0.647 |
| B | P ₂ S ₅ | | 0.600 | 0.599 |
| C | NaOH | | 0.086 | 0.085 |
| D | TEA | | 0.001 | 0.001 |
| A | P ₂ S ₅ | Zinc Di Thio Phosphate | 0.308 | 0.321 |
| B | SBA | | 0.343 | 0.350 |
| C | MIBC | | 0.154 | 0.158 |
| D | Zinc Oxide | | 0.118 | 0.120 |
| E | Acetic Acid | | 0.001 | 0.001 |
| F | Lube Oil | | 0.271 | 0.271 |
| G | Caustic Lye | | 0.066 | 0.066 |
| A | MSNBA | Mesotrione | No Production | No Production |
| B | Thionyl Chloride | | | |
| C | DMF | | | |
| D | EDC | | | |
| E | NaOH (27%) | | | |
| F | CHD | | | |
| G | TEA | | | |
| H | Catalyst – P | | | |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|---|----------------------|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| I | Catalyst – C | | | |
| J | HCl(30%) | | | |
| K | Caustic Lye | | | |
| L | Methanol | | | |
| A | 4,6-dimethoxy pyrimidin-2-amine | Pyrazosulfuron Ethyl | No Production | No Production |
| B | Phenyl Chlorocarbonate | | | |
| C | N,N Dimethyl Aniline | | | |
| D | 1,4 Dioxane | | | |
| E | Sodium hydroxide (48% NaOH) | | | |
| F | Methylene dichloride (MDC) | | | |
| G | Isopropyl Alcohol | | | |
| H | Ethyl 1-methyl 5- Sulfamoyl 1-Hpyrazole 4-carboxylate | | | |
| I | Acetonitrile | | | |
| J | Methanol | | | |
| K | Catalyst | | | |
| A | Ethofumesate powder | Ethofumesate | 1.015 | 1.016 |
| B | Purifying agent | | 0.001 | 0.001 |
| A | 2Coumaranone | Azoxystrobin | No Production | 0.358 |
| B | Trimethyl Ortho Formate | | | 0.980 |
| C | 4,6 DCP | | | 0.400 |
| D | Ortho Cyanophenol | | | 0.316 |
| E | Acetic Anhydride | | | 0.288 |
| F | Methanol | | | 0.430 |
| G | Sodium Methoxide | | | 0.149 |
| H | Potassium Carbonate | | | 0.250 |
| I | DMF | | | 0.133 |
| A | OKS Salt | Surflan | 1.240 | No Production |
| B | Di Propyl Amine | | 0.360 | |
| C | Toluene | | 0.040 | |
| D | Acetone | | 0.068 | |
| E | POCl ₃ | | 0.476 | |
| F | Ammonia | | 0.140 | |
| G | Sulphuric Acid | | 0.136 | |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|--------------------------------|------------------|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| A | Ethyl Chloroacetate | Imazapic | No Production | No Production |
| B | Sodium Ethoxide | | | |
| C | Ethanol | | | |
| D | Diethyl Oxalate | | | |
| E | HCl | | | |
| F | MDC | | | |
| G | Formaldehyde | | | |
| H | Propanol | | | |
| I | Butyric Acid | | | |
| J | Di-n-butyl Amine | | | |
| K | Hydroquinone | | | |
| L | NaOH | | | |
| M | Ammonium Acetate | | | |
| N | Sodium Bicarbonate | | | |
| O | 2-Amino 2,3-Dimethylbutanamide | | | |
| P | Sodium Hydride | | | |
| Q | Toluene | | | |
| A | EDTA | Devrinol | 0.002 | 0.002 |
| B | CPC | | 0.524 | 0.526 |
| C | DEA | | 0.297 | 0.375 |
| D | Toluene | | 0.054 | 0.056 |
| E | Caustic Lye | | 0.372 | 0.375 |
| F | Naphthol | | 0.529 | 0.532 |
| A | 2-Chloropropionic | D-Devrinol | No Production | No Production |
| B | Thionyl Chloride | | | |
| C | Catalyst | | | |
| D | Caustic Lye | | | |
| E | DEA | | | |
| F | Toluene | | | |
| G | Alpha Naphthol | | | |
| H | IPA | | | |
| A | 3- Chloropivaloyl Chloride | Clomazone | 0.885 | 0.842 |
| B | 2-Chlorobenzyl Chloride | | 0.688 | 0.712 |
| C | Hydroxyl Amine Sulphate | | 0.612 | 0.618 |
| D | Tetra Butyl Ammonium | | 0.017 | 0.018 |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|---|-----------------------|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| | Bromide | | | |
| E | Thionyl Chloride | | 0.051 | 0.055 |
| F | Sodium Carbonate (soda ash) | | 0.031 | 0.031 |
| G | Caustic Lye | | 1.240 | 1.350 |
| H | Sulphuric Acid | | 0.241 | 0.240 |
| I | Toluene | | 0.069 | 0.069 |
| J | Methylene Dichloride (MDC) | | 0.140 | 0.140 |
| K | Methanol | | 0.110 | 0.110 |
| A | Phenyl Isocyanate | Metabromuron | No Production | No Production |
| B | Hydroxylamine Sulphate (HAS) | | | |
| C | Sodium Hydroxide | | | |
| D | Bromine | | | |
| E | Sodium Bicarbonate | | | |
| F | Toluene | | | |
| G | EDC | | | |
| H | DMS | | | |
| I | Methanol | | | |
| J | Caustic Lye | | | |
| A | NaOH Lye | Mesotrione Cu Chelate | No Production | No Production |
| B | Me - 328 | | | |
| C | CuSO ₄ .5H ₂ O Aq. Solution | | | |
| A | 2-Methyl 3-Biphenyl Methanol | Bifenthrin | No Production | No Production |
| B | Hydrochloric Acid | | | |
| C | Triethyl Benzyl Ammonium | | | |
| D | Tetra Butyl Ammonium Bromide | | | |
| E | Cyhylothric Acid | | | |
| F | Potassium Carbonate | | | |
| G | Sodium Carbonate | | | |
| H | Hexane | | | |
| A | DMPAT | Acephate | 1.024 | 1.050 |
| B | DMS | | 0.138 | 0.133 |
| C | MDC | | 0.045 | 0.040 |
| D | Acetic Anhydride | | 0.779 | 0.766 |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|------------------------------|---|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| E | NH3 | | 0.822 | 0.850 |
| F | EA | | 0.056 | 0.055 |
| G | H2SO4 | | 0.023 | 0.024 |
| A | Sodium Cyanide | Metamitron | No Production | No Production |
| B | NaOH | | | |
| C | Toluene | | | |
| D | Benzaldehyde | | | |
| E | Ammonia | | | |
| F | Sulphuric acid | | | |
| G | Hydrazine hydrate | | | |
| H | HCl | | | |
| I | Methanol | | | |
| J | NaOCl | | | |
| K | Methyl Acetate | Acetamapride | No Production | No Production |
| L | DMAC | | | |
| A | Methyl Amine | | | |
| B | Toluene | | | |
| C | CCMP | | | |
| D | NaOH | | | |
| E | ECAI | Imidaclopride | No Production | No Production |
| A | CCMP | | | |
| B | 2 – Nitro Iminoimidazolidine | | | |
| C | NaOH | | | |
| D | DMF | | | |
| E | Methanol | Amino Aceto Nitrile Sulphate (AANS) | No Production | No Production |
| A | MAAN | | | |
| B | Sulphuric Acid | | | |
| C | Methanol | | | |
| D | Caustic flakes | Myristyl Amine Oxide (MO) | No Production | No Production |
| A | Myristyl Amine | | | |
| B | Hydrogen Peroxide | | | |
| C | Citric Acid | | | |
| D | Sodium Bicarbonate | Di Ethyl Thiophosphory Chloride (DETCI) | No Production | No Production |
| A | Phosphorous Pentasulphide | | | |
| B | Ethyl Alcohol | | | |
| C | Chlorine | | | |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|------------------------------|------------------------|---|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| D | Caustic Lye | | | |
| Pesticide Formulation | | | | |
| A | Paraquate Dichloride | Paraquet Di Chloro Formulation N-100% (PQDC)-Liquid Pesticide Formulation | No Production | No Production |
| B | Dispersol AGM | | | |
| C | Dye | | | |
| A | Cyclo Hexanol | Monocrotophos (Phoskil) 36%,40% & 55% SL | No Production | No Production |
| B | IPA | | | |
| C | MCP Technical | | | |
| A | Acephate (T) | Acephate 75% | No Production | No Production |
| B | PPT Silica | | | |
| C | Dispersol PS | | | |
| A | Oryzalin Technical | Surflan (Oriziline) 85% DF | No Production | No Production |
| B | Geropon SC – 213 | | | |
| C | Supragil WP | | | |
| D | Corn Starch | | | |
| A | Metamitron Technical | Metamitron Wp or DG 70% | No Production | No Production |
| B | Dispersing Agent | | | |
| C | Wetting Agent | | | |
| D | Diluent (Inter Clay) | | | |
| A | Metribuzin Technical | Metribuzin 75% DF and 70% DF | No Production | No Production |
| B | Suspending Agent | | | |
| C | Wetting Agent-1 | | | |
| D | Wetting Agent-2 | | | |
| E | Dispersing Agent | | | |
| F | Binder | | | |
| G | Inert | | | |
| A | Imidcloprid Technical | Imidacloprid 70% WS | No Production | No Production |
| B | Dodium Ligno sulfonate | | | |
| C | Supragil WP | | | |
| D | Red Dye | | | |
| E | Red Pigment | | | |
| F | Lissapol D | | | |
| G | Potato Soluble Starch | | | |

| Sr. No | Name of Raw Material | Name of products | Consumption of raw material per unit | |
|--------|-----------------------------|------------------------|--|---|
| | | | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| H | PVP K -30 | | | |
| I | Defoamer | | | |
| J | PPT SILICA | | | |
| K | KAOLIN | | | |
| A | Acephate (T) | Acephate 97% DF | 0.993 | 0.992 |
| B | Morwet EFW | | 0.001 | 0.001 |
| C | Lissapol D | | 0.004 | 0.004 |
| D | PPT silica | | 0.002 | 0.002 |
| A | Imidaclopride | Imidaclopride 17.8% | No Production | No Production |
| B | PVPK 30 | | | |
| C | DMSO | | | |
| D | DMF | | | |
| E | N Methyl Pyrolidon | | | |
| A | Devrinol Technical | Devrinol 50% DF | No Production | 0.566 |
| B | Morwet D – 425 | | | 0.080 |
| C | Morwet EFW | | | 0.015 |
| D | Supragil WP | | | 0.015 |
| E | Kaolin | | | 0.273 |
| F | Attapulgate ClayPowder | | | 0.050 |
| A | Clomazone tech | Clomazone Formulation | No Production | No Production |
| B | Solvent(Heptane) | | | |
| C | Surfactant | | | |
| A | Asulam (40%) | Asulam Formulation | No Production | No Production |
| B | HCl 30% | | | |
| C | NaOH | | | |
| A | Glyphosate Technical 95% | Glyphosate Formulation | No Production | No Production |
| B | Mono Isopropyl Amine 70% ag | | | |
| C | Glyphosate IPA salt 62% | | | |
| A | Bifenthrin | Bifenthrin Formulation | No Production | No Production |
| B | UPL X | | | |
| C | UPLY | | | |
| D | Solvent C-9/R-9/HAR | | | |

PART-C

Pollution discharged to environment / unit of output

(Parameters as specified in the consent issued)

| Pollutants | Quantity of pollution generated | Percentage of variation from prescribed standards with reasons |
|------------|---|---|
| Water | Operating as a zero liquid discharge unit | Operating as a zero liquid discharge unit |
| Air | Pollutants are in negligible quantity | All parameters specified in Consent are within limits Copy of analysis report attached as Annexure-2 |

PART-D

Hazardous Wastes

(as specified under Hazardous Waste (Management and handling) Rules, 1989)

| Hazardous Waste | Total Quantity (MT) | |
|---|--|---|
| | During the previous financial year 2018-19 | During the current financial year 2019-20 |
| a) From Process | | |
| Organic Waste | 5567.02 | 8241.89 |
| Aqueous Waste | 5440.50 | 2385.40 |
| High TDS & Low COD effluent (Treated in house) | 14172 KL | 12465 KL |
| Used Oil | 300 Litre | 1200 Litre |
| b) From Pollution Control Facilities | ---- | --- |

PART-E

Solid Wastes

| Solid Wastes | Total Quantity (MT) | |
|---|--|---|
| | During previous financial year (2018-19) | During current financial year (2019-20) |
| a) From Process | NIL | NIL |
| b) From Pollution Control Facility | | |
| Evaporation Salt | 2416 | 2570 |
| ETP Sludge | 284 | 318.52 |
| c) (1) Quantity recycled or re-utilized within the unit | NIL | NIL |
| c) (2) Sold Batteries | 107 Nos. | 249 Nos. |
| c) (3) Disposed Non-Recyclable Plastic waste | 19.9 | 24.75 |
| Decontaminated drums | 18300 Nos | 11643 Nos |
| Insulation Waste | 29.45 | 42.56 |

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

| Sr No. | Category | Type of Waste & Chemical form | Total Quantity of Waste Generated MT/A | Method of storage | Mode of disposal | Date wise description of Management of Hazardous and other waste |
|--------|----------|--|--|---|---|--|
| 1 | 29.1 | Process Wastes or residues (organic waste) | 8241.89 | Stored in impervious HW storage area having roof | Collection, storage, transportation, disposal by sending for Coprocessing/to CHWIF for incineration | April 2019 to March 2020. Please refer Ann-1 for month wise disposal |
| 2 | 29.1 | Process wastes or residues (aqueous waste) | 2385.4 | Stored in impervious HW storage area having roof | Collection, storage, transportation, disposal by sending for Coprocessing/to CHWIF for incineration | |
| 3 | 29.1 | Process wastes or residues (high TDS and low COD effluent) | 12465 KL | Stored in impervious HW storage area having roof | Collection, storage, transportation, disposal by sending to CMEE. | |
| 4 | 29.1 | Process wastes or residues (filter aid inert) | NIL | Stored in drums in H.W. storage area (shed & impervious area) | Collection, storage, transportation, disposal by sending for Coprocessing/to CHWIF for incineration | |
| 5 | 29.3 | Date expired and off specification pesticides | NIL | Stored in covered shed having RCC flooring | Collection, storage, transportation, disposal by sending to CHWIF for incineration | |

| Sr No. | Category | Type of Waste & Chemical form | Total Quantity of Waste Generated MT/A | Method of storage | Mode of disposal | Date wise description of Management of Hazardous and other waste |
|--------|----------|---|--|--|--|--|
| 6 | 33.1 | Empty barrels / containers / liners contaminated with hazardous chemicals / wastes | 11643 Nos. | Stored in covered Shed having RCC flooring | Collection, storage, transportation, decontamination, disposal by sending to authorized decontamination facility / recycler or reuse or sending back to supplier after decontamination / detoxification and selling to scrap processor after AEPS approval – partially recycling / reuse | |
| 7 | 33.1 | Empty barrels / containers / liners contaminated with hazardous chemicals / wastes (non-recyclable plastic waste) | 24.75 | Stored in covered Shed having RCC flooring | Collection, storage, transportation, decontamination, disposal by sending to TSDF at BEIL Ankleshwar or sending to authorized decontamination facility / recycler / reuse | |
| 8 | 33.2 | Contaminate cotton rags or other cleaning materials (insulation wastes) | 42.56 | Stored in earmarked storage area | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |
| 9 | 33.2 | Contaminated cotton rags or other cleaning materials (PPE) | NIL | Stored in earmarked storage area | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |

| Sr No. | Category | Type of Waste & Chemical form | Total Quantity of Waste Generated MT/A | Method of storage | Mode of disposal | Date wise description of Management of Hazardous and other waste |
|--------|----------|--|--|---|---|--|
| 10 | 35.3 | Chemical sludge (evaporation salt) | 2570 | Stored in impervious storage area with roofing | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |
| 11 | 35.3 | Chemical sludge (spent carbon from ETP and RO Plant) | NIL | Stored in earmarked storage area | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |
| 12 | 35.3 | Chemical sludge (ETP Sludge) | 318.52 | Stored in impervious storage area with roofing | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |
| 13 | 35.3 | Chemical sludge (salt from RO Rejects evaporation) | Added with Sr.No 10 | Stored in impervious storage area with roofing | Collection, storage, transportation, disposal by sending to TSDF for landfilling | |
| 14 | 5.1 | Used or spent oil | 1.2 | Stored in drums in H.W. storage area (shed & impervious area) | Collection, storage, transportation, disposal by reuse in plant and machinery as lubricant or sell to authorized refiners / recyclers | |
| 15 | A5 | Used batteries | 249 Nos | Stored in earmarked storage area | Collection, storage, transportation, disposal by sell to authorized recycler or reuse | |

Copy of waste analysis report enclosed as Annexure-3

Disposal Practice:

- Unit is generating organic liquid waste and solid waste. Incinerable waste is sent to M/s BEIL and Shree Cement Industry for disposal through Co-Processing. Unit is having a valid membership of BEIL, Ankleshwar for Common Incineration and has signed a MOU with Shree Cement Industry for Co-Processing.

- High TDS waste water generated from manufacturing is evaporated in Closed Evaporation System and the salt generated is disposed off in the Common Secured Landfill Site. Generated filtrate (ML –Aq effluent) is sent for Incineration along with aqueous waste and condensate effluent is treated in Effluent Treatment Plant
- High COD Waste water is chemically treated followed by treatment in ETP.
- Unit is internally processing Ammonium Acetate at UPL Jhagadia Unit to recover Acetic Acid / Sodium Acetate / Ammonium Acetate. The generated wastes are sent to BEIL Ankleshwar.
- The Unit is operating as Zero Discharge Unit since May 2014
- Spent solvent is sold to M/s Aquire Chemicals and M/s Apex Pharma Chem as per CC&A

PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- ZLD sustenance
- Overall electricity consumption 4.24% & water consumption 26.81% were decreased.
- The company use steam through common facility M/s. Ankleshwar Eco Energy Ltd.
- Renewable Power (Solar power) Purchased started from Dec'2019.
- Fume Incinerator is provided in Terbuphos plant to eliminate odour. All process vents are provided with scrubbing systems. Additional Venturi scrubber is provided for incinerator.
- Another important area we have paid attention is using of re-cycled drums for packing of products. With special efforts on re-cycling of drums, we could reduce substantial quantity of wastage. Also, this has reduced the cost of production.
- Hazardous waste storage area as per CPCB guideline is available
- Unit has initiated 5'S system for improvement in housekeeping.

PART H

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution.

- Installed Toxic effluent treatment facility with automation in PH-5000 plant capital investment @ Rs 60 Lac.
- Installed Cascading Evaporative Condenser for Acephate Utility Chiller saving power, Capital Investment@38 Lacs.
- Adding additives to the Refrigerant of chiller in Acephate plant York, Capital Investment @ 8 lacs
- Installed Energy Efficient CT Fan FRP glass coating Capital Investment & 4 lacs.
- The company use steam through common facility M/s. Ankleshwar Eco Energy Ltd. Deposited @ 1.20 crore
- Renewable Power (Solar power) Purchased started from Dec'2019.
- Unit has installed Rain water harvesting systems, Capital investment @ Rs 20 lacs.

- Unit has developed 45 Acres of green belt from ~ 3 km distance located at village – Mandva
- Unit has developed green belt in 11500 sq. mtr in GIDC Ankleshwar.

PART I

Any other particulars for improving the quality of the environment.

- Our Unit has implemented Environmental Management System standards ISO 14001 and Occupational Health & Safety (OH&S) Management Systems ISO 45001 & got certification from international auditors – BVQI.
- Unit has implemented Energy Management System standards ISO 50001.
- We have membership of Common Incinerator Project of BEIL and incinerable wastes are sent to BEIL for Incineration.
- We have celebrated World Environment Day virtually on June 5th.
- Unit is carrying out mock drills / Safety Talk on regular basis.
- Unit is practicing Rain Water Harvesting and water is taken into Cooling Tower as well as water storage tanks.
- “Emergency Response Team” at Unit # 2, comprising of total of 120 members consisting of Supervisors and Operators. They have been trained in handling any type of chemical related emergency within the premises.
- The Unit has obtained Leaders Award in Large Business, Process Sector in Frost & Sullivan and TERI Sustainability 4.0 in August 2020.

For, UPL LIMITED, UNIT # 02

V V Reddy

Unit Head

UPL Ltd, Unit # 2 Plot # 3405 / 3406 / 3460-A, GIDC

Ankleshwar – 393 002, Dist. - Bharuch, Gujarat

ANNEXURE- 1**1) Details of Liquid Incineration Waste Generation & Disposal to CHWIF of BEIL / Co-processing to Cement Industry**

| Month | Opening Stock | Generation | | | Disposal | | Closing Stock |
|--------------|---------------|-----------------|-----------------|------------------|----------------------|-----------------|---------------|
| | | Organic Waste | Aqueous Waste | Total | Incineration at BEIL | Co-processing | |
| Apr-19 | 9.958 | 452.000 | 255.000 | 707.000 | 707.850 | -- | 9.108 |
| May-19 | 9.108 | 413.000 | 280.000 | 693.000 | 693.470 | -- | 8.638 |
| Jun-19 | 8.638 | 512.000 | 229.500 | 741.500 | 740.640 | -- | 9.498 |
| July-19 | 9.498 | 748.000 | 245.000 | 993.000 | 995.060 | -- | 7.438 |
| Augt-19 | 7.438 | 710.000 | 221.500 | 931.500 | 930.250 | -- | 8.688 |
| Sep-19 | 8.688 | 765.000 | 262.000 | 1027.000 | 1027.340 | -- | 8.348 |
| Oct-19 | 8.348 | 735.500 | 209.400 | 944.900 | 944.960 | -- | 8.288 |
| Nov-19 | 8.288 | 726.000 | 195.000 | 921.000 | 919.770 | -- | 9.518 |
| Dec-19 | 9.518 | 983.060 | 154.000 | 1137.060 | 852.600 | 285.060 | 8.918 |
| Jan-20 | 8.918 | 920.000 | 210.000 | 1130.200 | 412.340 | 719.200 | 7.578 |
| Feb-20 | 7.578 | 971.860 | 124.000 | 1095.860 | 463.740 | 629.860 | 9.838 |
| Mar-20 | 9.838 | 305.270 | -- | 305.270 | 287.150 | 19.470 | 8.488 |
| Total | 9.958 | 8241.890 | 2385.400 | 10627.290 | 8975.170 | 1653.590 | 8.488 |

2) Spent solvent sold to M/S Acquire Chemicals, Plot No 7901 /D GIDC, Ankleshwar and M/S Apex Pharma Chem, Plot No. 7904/F, GIDC, Ankleshwar

| MONTH | Qty Sold (MT) |
|--------------|----------------|
| Apr-19 | 85.060 |
| May-19 | 110.700 |
| Jun-19 | 94.820 |
| July-19 | 51.625 |
| Augt-19 | 51.520 |
| Sep-19 | 116.080 |
| Oct-19 | 128.150 |
| Nov-19 | 63.430 |
| Dec-19 | 58.960 |
| Jan-20 | 34.440 |
| Feb-20 | 14.970 |
| Mar-20 | 10.490 |
| Total | 820.245 |

3) Details of Solid Waste (ETP Sludge & Salt) Generation & Disposal to BEIL, Ankleshwar for Landfilling

| Month | Opening Stock | Generation (MT) | | | Disposal to BEIL for Landfilling | Closing Stock |
|--------------|---------------|-----------------|-----------------------------------|-----------------|----------------------------------|---------------|
| | | ETP Sludge | Salt from RO reject & Evaporation | Total | | |
| Apr-19 | 8.429 | 26.500 | 196.000 | 222.500 | 222.510 | 8.419 |
| May-19 | 8.419 | 21.000 | 298.000 | 325.000 | 323.980 | 9.439 |
| Jun-19 | 9.439 | 28.000 | 242.000 | 270.000 | 271.310 | 8.129 |
| July-19 | 8.129 | 27.370 | 270.000 | 297.370 | 297.100 | 8.399 |
| Augt-19 | 8.399 | 26.500 | 211.000 | 237.500 | 236.120 | 9.779 |
| Sep-19 | 9.779 | 29.500 | 167.000 | 196.500 | 199.030 | 7.249 |
| Oct-19 | 7.249 | 29.000 | 335.000 | 364.000 | 364.080 | 7.169 |
| Nov-19 | 7.169 | 28.000 | 295.000 | 323.000 | 321.820 | 8.349 |
| Dec-19 | 8.349 | 27.000 | 245.000 | 272.000 | 272.580 | 7.769 |
| Jan-20 | 7.769 | 26.650 | 212.000 | 238.650 | 237.610 | 8.809 |
| Feb-20 | 8.809 | 24.000 | 55.000 | 79.000 | 80.610 | 7.199 |
| Mar-20 | 7.199 | 19.000 | 44.000 | 63.000 | 62.960 | 7.239 |
| Total | 8.429 | 318.520 | 2570.000 | 2888.520 | 2889.710 | 7.239 |

4) Details of Total Solid Waste Disposal To BEIL, Ankleshwar for Landfilling

| Month | Solids (ETP Sludge + Evaporation Salt) | Plastic Waste | Insulation Waste | Construction Debris | Monthly Total Solid Waste Quantity to BEIL |
|-----------------------------|--|---------------|------------------|---------------------|--|
| All Quantities in MT | | | | | |
| Apr-19 | 222.510 | 0.890 | 3.200 | 0.000 | 226.600 |
| May-19 | 323.980 | 0.000 | 3.090 | 0.000 | 327.070 |
| June-19 | 271.310 | 0.670 | 1.740 | 0.000 | 273.070 |
| Jul-19 | 297.100 | 1.070 | 3.520 | 0.000 | 301.690 |
| Aug-19 | 236.120 | 2.330 | 2.580 | 0.000 | 241.030 |
| Sept-19 | 199.030 | 3.850 | 1.360 | 0.000 | 204.240 |
| Oct-19 | 364.080 | 2.300 | 4.240 | 242.750 | 613.370 |
| Nov-19 | 321.820 | 1.030 | 4.520 | 822.710 | 1150.080 |
| Dec-19 | 272.580 | 3.820 | 2.050 | 855.100 | 1133.550 |
| Jan-20 | 237.610 | 2.720 | 2.190 | 388.640 | 631.160 |
| Feb-20 | 80.610 | 4.330 | 5.290 | 715.550 | 805.780 |
| Mar-20 | 62.960 | 1.740 | 8.780 | 0.000 | 73.480 |
| Total | 2889.710 | 24.750 | 42.560 | 3024.750 | 5981.770 |

5) Used Oil Details

| Month | Opening Stock | Generation | Quantity Sent to Approved Recyclers | Closing Stock |
|---------------------------------|---------------|-------------|-------------------------------------|---------------|
| All Quantities in Liters | | | | |
| Apr-19 | 500 | 0 | 0 | 500 |
| May-19 | 500 | 0 | 0 | 500 |
| Jun-19 | 500 | 400 | 0 | 900 |
| July-19 | 900 | 0 | 0 | 900 |
| Augt-19 | 900 | 0 | 0 | 900 |
| Sep-19 | 900 | 400 | 0 | 1300 |
| Oct-19 | 1300 | 0 | 0 | 1300 |
| Nov-19 | 1300 | 0 | 0 | 1300 |
| Dec-19 | 1300 | 0 | 0 | 1300 |
| Jan-20 | 1300 | 0 | 0 | 1300 |
| Feb-20 | 1300 | 2 | 0 | 1302 |
| Mar-20 | 1302 | 398 | 0 | 1700 |
| Total | 500 | 1200 | 0 | 1700 |

Detail of Registered Used Oil Recycler:

M/s Suraj Barrel Supply

CC&A # AWH 84277 dated 17.02.2017 valid up to 15.02.2022

Address: Opposite P.W.D. Store Nr Good Luck Market, Chandol lake,
Narol Highway, Ahmedabad-380028.**6) Details of Packaging Material after Decontamination**

| Type of scrap | Op stock | Generation | Sold to approved scrap processors | Reused | Cl. Stock |
|------------------------------|------------|--------------|-----------------------------------|-------------|------------|
| All Quantities in Nos | | | | | |
| M.S. Drum without liner | 18 | 2003 | 1800 | 216 | 5 |
| M.S. Drum with liner | 15 | 615 | 384 | 246 | 0 |
| H.D.P.E. Drums | 241 | 7535 | 4356 | 3336 | 84 |
| M.S. One side cut drums | 0 | 0 | 0 | 0 | 0 |
| H.D.P.E. Carboys | 118 | 1490 | 0 | 1533 | 75 |
| Total | 392 | 11643 | 6540 | 5331 | 164 |

7) Details of Used Batteries

| Month | Opening Stock | Generation | Disposal /sold to approved recycler | Closing stock |
|------------------------------|----------------------|-------------------|--|----------------------|
| All Quantities in Nos | | | | |
| Apr-19 | 0 | 26 | 26 | 0 |
| May-19 | 0 | 0 | 0 | 0 |
| Jun-19 | 0 | 0 | 0 | 0 |
| July-19 | 0 | 27 | 27 | 0 |
| Augt-19 | 0 | 26 | 26 | 0 |
| Sep-19 | 0 | 0 | 0 | 0 |
| Oct-19 | 0 | 40 | 40 | 0 |
| Nov-19 | 0 | 0 | 0 | 0 |
| Dec-19 | 0 | 82 | 82 | 0 |
| Jan-20 | 0 | 1 | 1 | 0 |
| Feb-20 | 0 | 17 | 17 | 0 |
| Mar-20 | 0 | 30 | 30 | 0 |
| Total | 0 | 249 | 249 | 0 |

Detail of Registered Battery Recycler:

M/s Metex Battery

Corporation Vendor Code:

101265

GIDC, Ankleshwar, Gujarat

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UPL Limited, Unit - 2
Plot No. 3405/6, GIDC
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India

w: upl-ltd.com
t: +91 2646 251434

Certificate of Analysis

F/QA/215

Date : 21.03.2020

Sample : Aqueous waste

Date of Analysis : 21.03.2020

Characteristics :

| Sr.No. | Parameter | Result |
|--------|--------------|--------|
| 1 | pH | 9.35 |
| 2 | TDS in ppm | 35500 |
| 3 | COD , in ppm | 256910 |

Tested by

A.V.Chhatrivala
Executive

Approved by

J.D.Shastri
HOD (Q.A.)



UPL Limited, Unit - 2
Plot No. 3405/6, GIDC
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India

w: upl-ltd.com
t: +91 2646 251434

Certificate of Analysis

F/QA/215

Date : 21.03.2020

Sample : EA Residue

Date of Analysis : 21.03.2020

Characteristics :

| Sr.No. | Parameter | Result |
|--------|-----------------|--------|
| 1 | pH(1.0 % AQ) | 2.82 |
| 2 | %Moisture | 0.26 |
| 3 | Sp.Gr. | 1.1165 |
| 4 | % CHLORIDE | 0.42 |
| 5 | CALORIFIC_VALUE | 4000 |

Tested by

A.V.Chhatriwala
Executive

Approved by

J.D.Shastri
HOD (Q.A.)



UPL Limited, Unit - 2
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Dist. Bharuch, Ankleshwar 393 002
Gujarat, India

w: upl-ltd.com
t: +91 2646 251434

Certificate of Analysis

F/QA/215

Date : 21.03.2020

Sample : ETP Sludge
(Leachate Analysis in 5% DM water)

Date of Analysis : 21.03.2020

Characteristics :

| Sr.No. | Parameter | Result |
|--------|-----------------|--------|
| 1 | pH | 9.29 |
| 2 | TDS in ppm | 1300 |
| 3 | CHLORIDE In ppm | 564 |
| 4 | NaCl , in ppm | 1000 |
| 5 | COD , in ppm | 189 |
| 6 | %Moisture | 66.20 |

Tested by

A.V.Chhatrivala
Executive

Approved by

J.D.Shastri
HOD (Q.A.)



UPL Limited, Unit - 2
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Dist. Bharuch, Ankleshwar 393 002
Gujarat, India

w: upl-ltd.com
t: +91 2646 251434

Certificate of Analysis

F/QA/215

Date : 21.03.2020

Sample : Evaporation Salt

Date of Analysis : 21.03.2020

Characteristics :

| Sr.No. | Parameter | Result |
|--------|-------------------------------------|--------|
| 1 | %Moisture | 5.49 |
| 2 | %NaCl (Drying 2 hrs. on 110 deg.c) | 61.2 |

Tested by

A.V.Chhatriwala
Executive

Approved by

J.D.Shastri
HOD (Q.A.)



UPL Limited, Unit - 2
Plot No. 3405/6, GIDC
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India

w: upl-ltd.com
t: +91 2646 251434

Certificate of Analysis

F/QA/215

Date : 21.03.2020

Sample : ZnDTP Sludge
(Leachate Analysis in 5% DM water)

Date of Analysis : 21.03.2020

Characteristics :

| Sr.No. | Parameter | Result |
|--------|--------------|--------|
| 1 | pH | 6.30 |
| 2 | COD , in ppm | 1173 |
| 3 | %Moisture | 2.32 |

Tested by

A.V.Chhatrawala
Executive

Approved by

J.D.Shastri
HOD (Q.A.)

BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - LANDFILLABLE WASTE - APRIL 2019 TO MARCH 2020

| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PH | PFLT_TEST | LRT_TEST | METAL_STABILIZE_REQD | MOISTURE_CONTENT |
|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF5361 | UPL LTD#2 | 01-04-2019 15:26 | GJ06XX-6395 | 16.19 | 6119200084 | 7.5 | PASS | 0 | NO | 9.1 |
| LF5362 | UPL LTD#2 | 01-04-2019 15:34 | GJ21V-0005 | 13.63 | 6119200084 | 7.5 | PASS | 24 | NO | 70.38 |
| LF5363 | UPL LTD#2 | 02-04-2019 14:21 | GJ6XX-6395 | 0.64 | 6119200084 | | PASS | | NO | |
| LF5364 | UPL LTD#2 | 02-04-2019 15:33 | GJ01CX-3473 | 1.6 | 6119200084 | | PASS | | NO | |
| LF5365 | UPL LTD#2 | 03-04-2019 15:10 | GJ06XX-6395 | 14.4 | 6119200084 | 7.5 | NOT PASS | 20 | NO | 48.61 |
| LF5366 | UPL LTD#2 | 04-04-2019 18:13 | GJ01CV-4675 | 16.31 | 6119200084 | 7.5 | PASS | 21 | NO | 51.16 |
| LF5367 | UPL LTD#2 | 07-04-2019 18:31 | GJ21V 0005 | 15.67 | 6119200084 | 7.5 | PASS | 0 | NO | 10.31 |
| LF5368 | UPL LTD#2 | 10-04-2019 18:39 | GJ23T-7578 | 14.51 | 6119200084 | 7.5 | PASS | 20.3 | NO | 71.13 |
| LF5369 | UPL LTD#2 | 11-04-2019 16:03 | GJ23T-7578 | 16.79 | 6119200184 | 7.5 | PASS | 0 | NO | 10.08 |
| LF5370 | UPL LTD#2 | 12-04-2019 15:36 | GJ23T-7578 | 16.95 | 6119200184 | 7.5 | NOT PASS | 3.6 | NO | 14.18 |
| LF5371 | UPL LTD#2 | 14-04-2019 15:01 | GJ23T-7578 | 14.36 | 6119200184 | 7.5 | PASS | 23.7 | NO | 60.11 |
| LF5372 | UPL LTD#2 | 17-04-2019 15:55 | GJ23V-0277 | 0.96 | 6119200184 | | PASS | | NO | |
| LF5373 | UPL LTD#2 | 18-04-2019 16:35 | GJ23V-0277 | 0.89 | 6119200184 | | PASS | | NO | |
| LF5374 | UPL LTD#2 | 21-04-2019 18:31 | GJ23T-7578 | 17.49 | 6119200279 | 7.5 | PASS | 16.3 | NO | 48.69 |
| LF5375 | UPL LTD#2 | 24-04-2019 18:48 | GJ23T-7578 | 16.83 | 6119200279 | 7.5 | PASS | 1.2 | NO | 8.96 |
| LF5376 | UPL LTD#2 | 26-04-2019 18:38 | GJ23T-7578 | 16.45 | 6119200279 | 7.5 | PASS | 23.8 | NO | 61.15 |
| LF5377 | UPL LTD#2 | 28-04-2019 18:40 | GJ23T-7578 | 16.54 | 6119200279 | 7.5 | PASS | 3.2 | NO | 29.98 |
| LF5378 | UPL LTD#2 | 29-04-2019 15:54 | GJ23T-7578 | 16.39 | 6119200279 | 7.5 | PASS | 0 | NO | 9.31 |
| LF5379 | UPL LTD#2 | 02-05-2019 17:54 | GJ23T-7578 | 16.88 | 6119200383 | 7.5 | NOT PASS | 6.8 | NO | 45.87 |
| LF5380 | UPL LTD#2 | 03-05-2019 13:58 | GJ08Z-0775 | 15.14 | 6119200383 | 7.5 | NOT PASS | 22.6 | NO | 72.18 |
| LF5381 | UPL LTD#2 | 03-05-2019 16:14 | GJ23V-0277 | 0.77 | 6119200383 | | PASS | | NO | |
| LF5382 | UPL LTD#2 | 03-05-2019 18:29 | GJ08Z-0775 | 0.85 | 6119200383 | | PASS | | NO | |
| LF9051 | UPL LTD#2 | 04-05-2019 14:09 | GJ08Z-0775 | 17.46 | 6119200383 | 7.5 | NOT PASS | 3.4 | NO | 17.29 |
| LF9052 | UPL LTD#2 | 05-05-2019 17:53 | GJ23T-7578 | 15.71 | 6119200383 | 7.5 | PASS | 26.5 | NO | 64.89 |
| LF9053 | UPL LTD#2 | 06-05-2019 18:29 | GJ08Z-0775 | 0.76 | 6119200383 | | PASS | | NO | |
| LF9054 | UPL LTD#2 | 07-05-2019 18:32 | GJ08Z-0775 | 17.83 | 6119200383 | 7.5 | NOT PASS | 3.4 | NO | 21.65 |
| LF9048 | UPL LTD#2 | 08-05-2019 18:15 | GJ08Z-0775 | 16.94 | 6119200383 | 7.5 | NOT PASS | 14.8 | NO | 42.48 |
| LF9049 | UPL LTD#2 | 09-05-2019 15:40 | GJ21V-0005 | 16.48 | 6119200383 | 7.5 | PASS | 0 | NO | 11.47 |
| LF9050 | UPL LTD#2 | 10-05-2019 18:38 | GJ02VV-1735 | 15.54 | 6119200383 | 7.5 | PASS | 15.4 | NO | 52.98 |
| LF9056 | UPL LTD#2 | 13-05-2019 16:45 | GJ21V-0005 | 16.99 | 6119200498 | 7.5 | PASS | 0 | NO | 13.11 |
| LF9057 | UPL LTD#2 | 14-05-2019 14:24 | GJ02VV-9517 | 16.58 | 6119200498 | 7.5 | PASS | 0 | NO | 18.2 |
| LF9058 | UPL LTD#2 | 15-05-2019 19:09 | GJ02VV-9517 | 17.28 | 6119200498 | 7.5 | NOT PASS | 15.6 | NO | 49.26 |
| LF9059 | UPL LTD#2 | 16-05-2019 17:36 | GJ02VV-9517 | 16.01 | 6119200498 | 7.5 | PASS | 0 | NO | 12.11 |
| LF9060 | UPL LTD#2 | 18-05-2019 18:28 | GJ23V-0277 | 15.44 | 6119200498 | 7.5 | NOT PASS | 15.4 | NO | 39.42 |
| LF9061 | UPL LTD#2 | 19-05-2019 15:43 | GJ16W-1083 | 13.92 | 6119200498 | 7.5 | PASS | 0 | NO | 11.68 |
| LF9062 | UPL LTD#2 | 22-05-2019 18:08 | GJ02VV-9517 | 17.25 | 6119200628 | 7.5 | NOT PASS | 3.8 | NO | 36.08 |
| LF9063 | UPL LTD#2 | 22-05-2019 16:44 | GJ02VV-1735 | 0.71 | 6119200628 | | PASS | | NO | |
| LF9064 | UPL LTD#2 | 23-05-2019 16:08 | GJ02VV-1735 | 15.73 | 6119200628 | 7.5 | PASS | 0 | NO | 9.51 |
| LF9065 | UPL LTD#2 | 24-05-2019 18:39 | GJ02VV-1735 | 15.65 | 6119200628 | 7.5 | NOT PASS | 17.6 | NO | 66.78 |
| LF9066 | UPL LTD#2 | 25-05-2019 14:16 | GJ02VV-1735 | 15.23 | 6119200628 | 7.5 | PASS | 0 | NO | 9.21 |
| LF9067 | UPL LTD#2 | 28-05-2019 17:35 | GJ16X-8214 | 15.31 | 6119200628 | 7.5 | PASS | 0 | NO | 7.36 |
| LF9068 | UPL LTD#2 | 31-05-2019 18:24 | GJ16X-8214 | 16.61 | 6119200628 | 7.5 | PASS | 14.6 | NO | 39.26 |
| LF9069 | UPL LTD#2 | 01-06-2019 15:02 | GJ02VV-1735 | 16.29 | 6119200745 | 7.5 | NOT PASS | 3.2 | NO | 26.78 |
| LF9070 | UPL LTD#2 | 01-06-2019 18:56 | GJ02VV 9517 | 16.22 | 6119200745 | 7.5 | PASS | 28.1 | NO | 70.29 |
| LF9071 | UPL LTD#2 | 01-06-2019 17:56 | GJ05YY 8583 | 0.9 | 6119200745 | | PASS | | NO | |
| LF9072 | UPL LTD#2 | 02-06-2019 17:22 | GJ02VV-1735 | 13.53 | 6119200745 | 7.5 | NOT PASS | 29.1 | NO | 50.15 |
| LF9073 | UPL LTD#2 | 03-06-2019 14:46 | GJ02VV-1735 | 0.67 | 6119200745 | | PASS | | NO | |
| LF9074 | UPL LTD#2 | 06-06-2019 16:49 | GJ02VV 1735 | 16.16 | 6119200745 | 7.5 | PASS | 0.5 | NO | 6.31 |

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|----------|-----------|------------------|----------------|-------------|-----------------|--------------|----------|----------------------|------------------|
| LF9075 | UPL LTD#2 | 07-06-2019 18:07 | GJ02VV-1735 | 17.28 | 6119200745 | 7.5 PASS | 8.2 | NO | 34.15 |
| LF9076 | UPL LTD#2 | 08-06-2019 18:03 | GJ02VV-1735 | 15.36 | 6119200745 | 7.5 PASS | 11.8 | NO | 48.56 |
| LF9077 | UPL LTD#2 | 09-06-2019 14:49 | GJ02VV-1735 | 13.11 | 6119200745 | 7.5 PASS | 0 | NO | 6.71 |
| LT11804 | UPL LTD#2 | 10-06-2019 16:53 | GJ02VV-1735 | 15.66 | 6119200745 | 7.5 PASS | 0 | NO | 9.13 |
| LF11805 | UPL LTD#2 | 11-06-2019 16:41 | GJ02VV-1735 | 14.99 | 6119200828 | 7.5 PASS | 10.8 | NO | 13.68 |
| LF11806 | UPL LTD#2 | 13-06-2019 15:44 | GJ02VV-1735 | 0.84 | 6119200828 | | PASS | NO | |
| LF11807 | UPL LTD#2 | 16-06-2019 15:46 | GJ21V-0012 | 13.25 | 6119200828 | 7.5 PASS | 0 | NO | 10.24 |
| LF11808 | UPL LTD#2 | 17-06-2019 16:13 | GJ21V-0019 | 14.48 | 6119200828 | 7.5 PASS | 1.4 | NO | 12.45 |
| LF11810 | UPL LTD#2 | 19-06-2019 17:47 | GJ02VV-1739 | 14.77 | 6119200828 | 7.5 PASS | 33.5 | NO | 62.11 |
| LF11809 | UPL LTD#2 | 19-06-2019 17:39 | GJ21V-0005 | 13.21 | 6119200828 | 7.5 PASS | 0 | NO | 14.06 |
| LF11811 | UPL LTD#2 | 23-06-2019 17:16 | GJ21V-0019 | 16.55 | 6119200860 | 7.5 PASS | 10 | NO | 38.15 |
| LF11812 | UPL LTD#2 | 24-06-2019 15:53 | GJ21V-0005 | 15.57 | 6119200860 | 7.5 PASS | 0 | NO | 6.53 |
| LF11813 | UPL LTD#2 | 25-06-2019 16:13 | GJ21V-0008 | 14.64 | 6119200860 | 7.5 PASS | 19.6 | NO | 38.64 |
| LF11814 | UPL LTD#2 | 27-06-2019 18:57 | GJ16W-1106 | 14.26 | 6119200860 | 7.5 NOT PASS | 10.4 | NO | 23.54 |
| LF11815 | UPL LTD#2 | 29-06-2019 17:34 | GJ16W-1481 | 15.98 | 6119200860 | 7.5 PASS | 2.4 | NO | 20.24 |
| LF11816 | UPL LTD#2 | 01-07-2019 19:15 | GJ01CX-3473 | 15.7 | 6119200885 | 7.5 PASS | 6 | NO | 16.71 |
| LF11817 | UPL LTD#2 | 02-07-2019 17:56 | GJ02VV-1735 | 14.39 | 6119200885 | 7.5 PASS | 21.4 | NO | 53.38 |
| LF11818 | UPL LTD#2 | 02-07-2019 18:36 | GJ21V19 | 0.85 | 6119200885 | | PASS | NO | |
| LF11819 | UPL LTD#2 | 03-07-2019 16:16 | GJ16W-1481 | 14.41 | 6119200885 | 7.5 PASS | 34.2 | NO | 40.95 |
| LF11820 | UPL LTD#2 | 03-07-2019 19:32 | GJ01CX-3473 | 12.6 | 6119200885 | 7.5 PASS | 32 | NO | 41.47 |
| LF11821 | UPL LTD#2 | 04-07-2019 16:58 | GJ02VV-1741 | 3.86 | 6119200885 | | PASS | NO | |
| LF11822 | UPL LTD#2 | 06-07-2019 15:26 | GJ21V-0019 | 14.54 | 6119200885 | 7.5 PASS | 0 | NO | 13.06 |
| LF11823 | UPL LTD#2 | 08-07-2019 16:23 | GJ21V 0019 | 16.25 | 6119200885 | 7.5 PASS | 14 | NO | 44.08 |
| LF11824 | UPL LTD#2 | 09-07-2019 18:23 | GJ21V 0019 | 14.87 | 6119200885 | 7.5 NOT PASS | 4.5 | NO | 25.16 |
| LF11825 | UPL LTD#2 | 10-07-2019 15:26 | GJ02VV-1735 | 13.16 | 6119200885 | 7.5 PASS | 30.2 | NO | 71.21 |
| LF11826 | UPL LTD#2 | 11-07-2019 14:21 | GJ02VV-1735 | 0.72 | 6119200909 | | PASS | NO | |
| LF11827 | UPL LTD#2 | 12-07-2019 17:26 | GJ02VV-1735 | 13.24 | 6119200909 | 7.5 NOT PASS | 3.5 | NO | 31.01 |
| LF11829 | UPL LTD#2 | 13-07-2019 17:36 | GJ02VV-9517 | 1.07 | 6119200909 | | PASS | NO | |
| LF11830 | UPL LTD#2 | 14-07-2019 16:31 | GJ02VV-1735 | 16.07 | 6119200909 | 7.5 PASS | 1.8 | NO | 14.31 |
| LF11831 | UPL LTD#2 | 17-07-2019 14:59 | GJ02VV-1735 | 15.08 | 6119200909 | 7.5 PASS | 0 | NO | 12.92 |
| LF11832 | UPL LTD#2 | 18-07-2019 18:41 | GJ02VV-1735 | 15.96 | 6119200909 | 7.5 PASS | 31.2 | NO | 46.16 |
| LF11833 | UPL LTD#2 | 19-07-2019 15:05 | GJ02VV-1735 | 0.98 | 6119200909 | | PASS | NO | |
| LF11834 | UPL LTD#2 | 20-07-2019 18:49 | GJ16X-8214 | 15.41 | 6119200909 | 7.5 PASS | 9.5 | NO | 21.18 |
| LF11835 | UPL LTD#2 | 22-07-2019 17:23 | GJ02VV-9517 | 12.98 | 6119200936 | 7.5 PASS | 0 | NO | 18.35 |
| LF11836 | UPL LTD#2 | 23-07-2019 16:16 | GJ02VV-9517 | 14.35 | 6119200936 | 7.5 PASS | 0 | NO | 16.18 |
| LF11837 | UPL LTD#2 | 24-07-2019 16:07 | GJ16W-1481 | 16.09 | 6119200936 | 7.5 PASS | 24.2 | NO | 46.17 |
| LF11838 | UPL LTD#2 | 24-07-2019 14:57 | GJ02VV 1735 | 0.97 | 6119200936 | | PASS | NO | |
| LF11839 | UPL LTD#2 | 25-07-2019 18:28 | GJ02VV-1735 | 14.42 | 6119200936 | 7.5 PASS | 14.7 | NO | 38.64 |
| LF11840 | UPL LTD#2 | 26-07-2019 18:45 | GJ02VV-1744 | 13.12 | 6119200936 | 7.5 PASS | 19 | NO | 46.11 |
| LF11841 | UPL LTD#2 | 28-07-2019 16:58 | GJ02VV-1744 | 16.57 | 6119200936 | 7.5 NOT PASS | 3.2 | NO | 10.1 |
| LF11842 | UPL LTD#2 | 31-07-2019 18:30 | GJ02VV-1735 | 14.03 | 6119200936 | 7.5 PASS | 0 | NO | 9.13 |
| LF11843 | UPL LTD#2 | 01-08-2019 19:03 | GJ02VV-9517 | 15.34 | 6119200954 | 7.5 PASS | 0 | NO | 9.21 |
| LF11844 | UPL LTD#2 | 05-08-2019 17:21 | GJ02VV-1744 | 15.75 | 6119200954 | 7.5 PASS | 0 | NO | 8.19 |
| LF11845 | UPL LTD#2 | 05-08-2019 17:59 | GJ16X-8214 | 15.71 | 6119200954 | 7.5 NOT PASS | 25 | NO | 41.12 |
| LF11846 | UPL LTD#2 | 06-08-2019 14:59 | GJ02VV-1744 | 1.17 | 6119200954 | | PASS | NO | |
| LF13141 | UPL LTD#2 | 08-08-2019 15:43 | GJ02VV-1735 | 15.81 | 6119200954 | 7.5 PASS | 21.8 | NO | 34.91 |
| LF13142 | UPL LTD#2 | 08-08-2019 18:06 | GJ16X-8214 | 15.32 | 6119200954 | 7.5 PASS | 7 | NO | 16.73 |
| LF13143 | UPL LTD#2 | 12-08-2019 14:36 | GJ02VV-1744 | 15.15 | 6119200977 | 7.5 PASS | 0 | NO | 8.95 |

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|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF13144 | UPL LTD#2 | 14-08-2019 10:03 | GJ02VV-1735 | 0.81 | 6119200977 | | PASS | | NO | |
| LF13145 | UPL LTD#2 | 14-08-2019 11:57 | GJ02VV-1744 | 16.35 | 6119200977 | 7.5 | NOT PASS | 3.2 | NO | 8.96 |
| LF13146 | UPL LTD#2 | 14-08-2019 16:24 | GJ02VV-1735 | 2.88 | 6119200977 | | PASS | | NO | |
| LF13147 | UPL LTD#2 | 16-08-2019 14:31 | GJ06XX-6395 | 16.45 | 6119200977 | 7.5 | NOT PASS | 8.4 | NO | 21.6 |
| LF13148 | UPL LTD#2 | 16-08-2019 14:30 | GJ02VV-1735 | 1.23 | 6119200977 | | PASS | | NO | |
| LF13149 | UPL LTD#2 | 17-08-2019 11:54 | GJ02VV-1735 | 14.46 | 6119200977 | 7.5 | PASS | 24 | NO | 46.2 |
| LF13150 | UPL LTD#2 | 18-08-2019 14:00 | GJ02VV-1735 | 1.1 | 6119200977 | | PASS | | NO | |
| LF11847 | UPL LTD#2 | 19-08-2019 15:48 | GJ02VV-1735 | 16.23 | 6119200977 | 7.5 | PASS | 10 | NO | 24.12 |
| LF11848 | UPL LTD#2 | 20-08-2019 16:33 | GJ02VV-1735 | 14.44 | 6119200977 | 7.5 | PASS | 0 | NO | 13.2 |
| LF11849 | UPL LTD#2 | 22-08-2019 11:45 | GJ02VV-1735 | 0.6 | 6119201000 | | PASS | | NO | |
| LF11850 | UPL LTD#2 | 24-08-2019 15:35 | GJ02VV-1744 | 14.95 | 6119201000 | 7.5 | PASS | 0 | NO | 19.2 |
| LF11851 | UPL LTD#2 | 25-08-2019 16:48 | GJ02VV-1744 | 14.3 | 6119201000 | 7.5 | PASS | 0 | NO | 7.83 |
| LF11852 | UPL LTD#2 | 28-08-2019 18:32 | GJ02VV-1744 | 15.18 | 6119201000 | 7.5 | PASS | 0 | NO | 11.03 |
| LF11853 | UPL LTD#2 | 29-08-2019 16:20 | GJ02VV-1744 | 17.8 | 6119201000 | 7.5 | PASS | 0 | NO | 5.78 |
| LF13151 | UPL LTD#2 | 02-09-2019 16:40 | GJ08W-1717 | 18.45 | 6119201027 | 7.5 | NOT PASS | 23 | NO | 36.78 |
| LF13152 | UPL LTD#2 | 02-09-2019 16:32 | GJ16W-1106 | 16.81 | 6119201027 | 7.5 | PASS | 0 | NO | 9.23 |
| LF13153 | UPL LTD#2 | 04-09-2019 15:34 | GJ02VV-1744 | 0.77 | 6119201027 | | PASS | | NO | |
| LF13155 | UPL LTD#2 | 05-09-2019 16:49 | GJ02VV-1744 | 13.83 | 6119201027 | 7.5 | PASS | 18 | NO | 29.65 |
| LF13154 | UPL LTD#2 | 05-09-2019 16:07 | GJ16X-8214 | 0.95 | 6119201027 | | PASS | | NO | |
| LF13156 | UPL LTD#2 | 06-09-2019 18:10 | GJ21V-0019 | 16.07 | 6119201027 | 7.5 | PASS | 0 | NO | 14.3 |
| LF13157 | UPL LTD#2 | 07-09-2019 17:38 | GJ02VV-9517 | 15.69 | 6119201027 | 7.5 | NOT PASS | 25.2 | NO | 51.42 |
| LF13158 | UPL LTD#2 | 08-09-2019 18:39 | GJ16W-1106 | 12.7 | 6119201027 | 7.5 | NOT PASS | 29.5 | NO | 63.4 |
| LF13159 | UPL LTD#2 | 09-09-2019 17:40 | GJ02VV1744 | 0.43 | 6119201027 | | PASS | | NO | |
| LF13160 | UPL LTD#2 | 10-09-2019 11:20 | GJ02VV-1741 | 1.07 | 6119201027 | | PASS | | NO | |
| LF13161 | UPL LTD#2 | 12-09-2019 18:17 | GJ08Z-0775 | 16.16 | 6119201047 | 7.5 | PASS | 14 | NO | 60.1 |
| LF13162 | UPL LTD#2 | 13-09-2019 17:39 | GJ02VV-1744 | 14.89 | 6119201047 | 7.5 | PASS | 15 | NO | 55.73 |
| LF13163 | UPL LTD#2 | 22-09-2019 17:11 | GJ08Z-0775 | 16.8 | 6119201060 | 7.5 | PASS | 0 | NO | 8.28 |
| LF13164 | UPL LTD#2 | 22-09-2019 17:43 | GJ08W-1717 | 1.06 | 6119201060 | | PASS | | NO | |
| LF13165 | UPL LTD#2 | 27-09-2019 17:46 | GJ01CX-3473 | 14.77 | 6119201060 | 7.5 | PASS | 0 | NO | 12.06 |
| LF13166 | UPL LTD#2 | 28-09-2019 13:56 | GJ02VV-1739 | 13.53 | 6119201060 | 7.5 | PASS | 25.4 | NO | 32.6 |
| LF13167 | UPL LTD#2 | 28-09-2019 14:19 | GJ05AT-2113 | 14.05 | 6119201060 | 7.5 | PASS | 28.6 | NO | 49.2 |
| LF13170 | UPL LTD#2 | 29-09-2019 16:28 | GJ21V-0019 | 15.28 | 6119201060 | 7.5 | PASS | 0 | NO | 14.2 |
| LF13169 | UPL LTD#2 | 29-09-2019 16:44 | GJ02VV-9517 | 0.93 | 6119201060 | | PASS | | NO | |
| LF14811 | UPL LTD#2 | 01-10-2019 18:08 | GJ08Z-0779 | 12.36 | 6119201078 | 7.5 | NOT PASS | 31 | NO | 69.23 |
| LF14812 | UPL LTD#2 | 02-10-2019 16:46 | GJ02VV-1739 | 14.94 | 6119201078 | 7.5 | PASS | 15 | NO | 29.62 |
| LF14813 | UPL LTD#2 | 06-10-2019 16:01 | GJ02VV-1739 | 14.48 | 6119201078 | 7.5 | PASS | 0 | NO | 8.06 |
| LF14814 | UPL LTD#2 | 06-10-2019 15:46 | GJ01CX-3473 | 15.48 | 6119201078 | 7.5 | PASS | 12.2 | NO | 24.12 |
| LF14815 | UPL LTD#2 | 06-10-2019 16:04 | GJ21V-0008 | 16.57 | 6119201078 | 7.5 | NOT PASS | 25.6 | NO | 35.27 |
| LF14816 | UPL LTD#2 | 07-10-2019 17:07 | GJ16W-1481 | 15.72 | 6119201078 | 7.5 | NOT PASS | 3.2 | NO | 8.41 |
| LF14817 | UPL LTD#2 | 07-10-2019 17:43 | GJ08W-1717 | 18.06 | 6119201078 | 7.5 | NOT PASS | 3.2 | NO | 8.26 |
| LF14818 | UPL LTD#2 | 09-10-2019 16:32 | GJ08Z-0779 | 16.17 | 6119201078 | 7.5 | NOT PASS | 6.9 | NO | 21.02 |
| LF14819 | UPL LTD#2 | 09-10-2019 14:05 | GJ02VV-9517 | 1.3 | 6119201078 | | PASS | | NO | |
| LF14820 | UPL LTD#2 | 10-10-2019 11:21 | GJ21V-0019 | 17.05 | 6119201078 | 7.5 | PASS | 0 | NO | 6.41 |
| LF14821 | UPL LTD#2 | 10-10-2019 11:34 | GJ16W-1083 | 1.44 | 6119201078 | | PASS | | NO | |
| LF14822 | UPL LTD#2 | 10-10-2019 15:39 | GJ08Z-0775 | 16.23 | 6119201078 | 7.5 | PASS | 0 | NO | 8.13 |
| LF14823 | UPL LTD#2 | 10-10-2019 17:20 | GJ02VV-1739 | 13.47 | 6119201078 | 7.5 | NOT PASS | 29.6 | NO | 65.28 |
| LF14824 | UPL LTD#2 | 12-10-2019 18:05 | GJ08Z-0775 | 14.74 | 6119201138 | 7.5 | PASS | 13.8 | NO | 40.7 |
| LF14825 | UPL LTD#2 | 16-10-2019 18:17 | GJ05YY-8583 | 14.76 | 6119201138 | 7.5 | PASS | 0 | NO | 6.71 |

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|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF14826 | UPL LTD#2 | 17-10-2019 17:51 | GJ16W-1083 | 16.41 | 6119201138 | 7.5 | PASS | 0 | NO | 7.36 |
| LF14827 | UPL LTD#2 | 18-10-2019 13:57 | GJ02VV-1739 | 16.32 | 6119201138 | 7.5 | NOT PASS | 3 | NO | 14.23 |
| LF14828 | UPL LTD#2 | 19-10-2019 13:04 | GJ02VV-1739 | 15.24 | 6119201138 | 7.5 | PASS | 26.8 | NO | 66.2 |
| LF14829 | UPL LTD#2 | 19-10-2019 19:00 | GJ02VV-1739 | 4.31 | 6119201138 | | PASS | | NO | |
| LF14830 | UPL LTD#2 | 21-10-2019 14:51 | GJ08Z-0775 | 16.28 | 6119201214 | 7.5 | PASS | 0 | NO | 21.08 |
| LF14831 | UPL LTD#2 | 22-10-2019 10:09 | GJ02VV-1739 | 16.29 | 6119201214 | 7.5 | PASS | 0 | NO | 13.42 |
| LF14832 | UPL LTD#2 | 22-10-2019 15:28 | GJ01CX-3473 | 0.83 | 6119201214 | | PASS | | NO | |
| LF14833 | UPL LTD#2 | 22-10-2019 16:19 | GJ02VV-1741 | 19.35 | 6119201214 | 7.5 | PASS | 3.5 | NO | 24.18 |
| LF14834 | UPL LTD#2 | 23-10-2019 18:23 | GJ01CX-3473 | 15.9 | 6119201214 | 7.5 | PASS | 3.2 | NO | 38.16 |
| LF14835 | UPL LTD#2 | 24-10-2019 16:46 | GJ16W-1106 | 14.42 | 6119201214 | 7.5 | NOT PASS | 14.8 | NO | 39.68 |
| LF14836 | UPL LTD#2 | 24-10-2019 14:56 | GJ16W 1481 | 19 | 6119201214 | 7.5 | PASS | 2.2 | NO | 12.82 |
| LF14838 | UPL LTD#2 | 24-10-2019 15:02 | GJ23V-0277 | 15.97 | 6119201214 | 7.5 | PASS | 1.8 | NO | 18.46 |
| LF14837 | UPL LTD#2 | 24-10-2019 14:59 | GJ08Z-0775 | 16.5 | 6119201214 | 7.5 | PASS | 0 | NO | 13.7 |
| LF14839 | UPL LTD#2 | 24-10-2019 15:05 | GJ05YY-8583 | 16.94 | 6119201214 | 7.5 | PASS | 2 | NO | 14.02 |
| LF14840 | UPL LTD#2 | 24-10-2019 18:34 | GJ01CV-4675 | 18.28 | 6119201214 | 7.5 | PASS | 8.2 | NO | 23.15 |
| LF16701 | UPL LTD#2 | 25-10-2019 08:56 | GJ16W 1481 | 14.35 | 6119201214 | 7.5 | PASS | 0 | NO | 15.9 |
| LF16702 | UPL LTD#2 | 25-10-2019 12:41 | GJ078Z-0775 | 15 | 6119201214 | 7.5 | PASS | 0 | NO | 18.1 |
| LF16703 | UPL LTD#2 | 25-10-2019 12:28 | GJ23V-0277 | 14.87 | 6119201214 | 7.5 | PASS | 0 | NO | 16.72 |
| LF16704 | UPL LTD#2 | 25-10-2019 12:34 | GJ05YY-8583 | 17.93 | 6119201214 | 7.5 | PASS | 0 | NO | 19.01 |
| LF16705 | UPL LTD#2 | 25-10-2019 18:25 | GJ23V-0277 | 15.47 | 6119201214 | 7.5 | PASS | 0 | NO | 17.12 |
| LF16707 | UPL LTD#2 | 26-10-2019 09:30 | GJ08Z-0775 | 16.73 | 6119201214 | 7.5 | NOT PASS | 3.5 | NO | 14.81 |
| LF16706 | UPL LTD#2 | 26-10-2019 10:19 | GJ05YY-8583 | 16.74 | 6119201214 | 7.5 | PASS | 0 | NO | 15.96 |
| LF16708 | UPL LTD#2 | 26-10-2019 09:06 | GJ02VV-1739 | 16.06 | 6119201214 | 7.5 | PASS | 0 | NO | 16.81 |
| LF16709 | UPL LTD#2 | 26-10-2019 14:52 | GJ16X-8214 | 1.12 | 6119201214 | | PASS | | NO | |
| LF16710 | UPL LTD#2 | 26-10-2019 15:39 | GJ23V-0277 | 14.05 | 6119201214 | 7.5 | PASS | 0 | NO | 18.32 |
| LF16711 | UPL LTD#2 | 26-10-2019 14:50 | GJ16W-1481 | 14.62 | 6119201214 | 7.5 | PASS | 0 | NO | 15.82 |
| LF16712 | UPL LTD#2 | 26-10-2019 16:42 | GJ08Z-0775 | 16.35 | 6119201214 | 7.5 | PASS | 29.2 | NO | 57.16 |
| LF16713 | UPL LTD#2 | 26-10-2019 16:51 | GJ05Y 8583 | 13.42 | 6119201214 | 7.5 | PASS | 15.2 | NO | 53.12 |
| LF16714 | UPL LTD#2 | 26-10-2019 17:22 | GJ16W-1106 | 0.99 | 6119201214 | | PASS | | NO | |
| LF16715 | UPL LTD#2 | 26-10-2019 18:21 | GJ21V12 | 0.86 | 6119201214 | | PASS | | NO | |
| LF16717 | UPL LTD#2 | 01-11-2019 17:15 | GJ08W-1717 | 16.16 | 6119201236 | 7.5 | PASS | 0 | NO | 7.75 |
| LF16716 | UPL LTD#2 | 05-11-2019 15:13 | GJ02VV-1744 | 15.92 | 6119201236 | 7.5 | PASS | 0 | NO | 6.98 |
| LF16718 | UPL LTD#2 | 11-11-2019 18:22 | GJ02VV-1744 | 17.31 | 6119201316 | 7.5 | PASS | 3.2 | NO | 18.24 |
| LF16719 | UPL LTD#2 | 11-11-2019 18:14 | GJ02VV-1740 | 15.66 | 6119201316 | 7.5 | PASS | 3.2 | NO | 20.44 |
| LF16720 | UPL LTD#2 | 12-11-2019 18:06 | GJ08Z-0775 | 16.16 | 6119201316 | 7.5 | PASS | 24.4 | NO | 48.11 |
| LF16721 | UPL LTD#2 | 12-11-2019 17:45 | GJ16X-7097 | 16.06 | 6119201316 | 7.5 | PASS | 0 | NO | 14.44 |
| LF16722 | UPL LTD#2 | 14-11-2019 14:02 | GJ08Z-0779 | 0.78 | 6119201316 | | PASS | | NO | |
| LF16723 | UPL LTD#2 | 15-11-2019 11:38 | GJ08Z-0779 | 1.04 | 6119201316 | | PASS | | NO | |
| LF16724 | UPL LTD#2 | 16-11-2019 16:37 | GJ08Z-0779 | 16.16 | 6119201316 | 7.5 | PASS | 23.4 | NO | 35.15 |
| LF16725 | UPL LTD#2 | 16-11-2019 16:58 | GJ16W-1106 | 16.84 | 6119201316 | 7.5 | PASS | 0 | NO | 8.36 |
| LF16726 | UPL LTD#2 | 17-11-2019 18:01 | GJ22T-0851 | 20.95 | 6119201316 | 7.5 | PASS | 0 | NO | 20.35 |
| LF16727 | UPL LTD#2 | 17-11-2019 17:33 | GJ05AV-2764 | 17.37 | 6119201316 | 7.5 | PASS | 0 | NO | 16.48 |
| LF16728 | UPL LTD#2 | 18-11-2019 12:09 | GJ08Z-2908 | 1.03 | 6119201316 | | PASS | | NO | |
| LF16729 | UPL LTD#2 | 18-11-2019 15:05 | GJ23V-0277 | 14.72 | 6119201316 | 7.5 | PASS | 0 | NO | 27.08 |
| LF16730 | UPL LTD#2 | 18-11-2019 16:43 | GJ05AV-2764 | 16.83 | 6119201316 | 7.5 | PASS | 0 | NO | 28.19 |
| LF16731 | UPL LTD#2 | 18-11-2019 17:13 | GJ22T-0851 | 20.21 | 6119201316 | 7.5 | PASS | 0 | NO | 15.26 |
| LF16732 | UPL LTD#2 | 19-11-2019 10:45 | GJ23V-0277 | 15.44 | 6119201316 | 7.5 | PASS | 0 | NO | 15.88 |
| LF16733 | UPL LTD#2 | 19-11-2019 14:31 | GJ05AV-2764 | 15.21 | 6119201316 | 7.5 | PASS | 0 | NO | 11.1 |

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| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PH | PFLT_TEST | LRT_TEST | METAL_STABILIZE_REQD | MOISTURE_CONTENT |
|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF16734 | UPL LTD#2 | 19-11-2019 17:01 | GJ22T-0851 | 19.15 | 6119201316 | 7.5 | PASS | 0 | NO | 11.08 |
| LF16735 | UPL LTD#2 | 19-11-2019 15:45 | GJ01CV-4675 | 20.21 | 6119201316 | 7.5 | PASS | 0 | NO | 10.08 |
| LF16736 | UPL LTD#2 | 19-11-2019 16:39 | GJ23V-0277 | 15.22 | 6119201316 | 7.5 | PASS | 0 | NO | 9.88 |
| LF16737 | UPL LTD#2 | 20-11-2019 16:36 | GJ05AV-2764 | 16.09 | 6119201316 | 7.5 | NOT PASS | 20.2 | NO | 69.08 |
| LF16738 | UPL LTD#2 | 20-11-2019 18:47 | GJ23V-0277 | 14.91 | 6119201316 | 7.5 | NOT PASS | 12.4 | NO | 44.73 |
| LF16739 | UPL LTD#2 | 20-11-2019 17:24 | GJ22T-0851 | 17.03 | 6119201316 | 7.5 | PASS | 0 | NO | 9.17 |
| LF16740 | UPL LTD#2 | 20-11-2019 16:02 | GJ16Z-0725 | 18.41 | 6119201316 | 7.5 | PASS | 0 | NO | 11.08 |
| LF16741 | UPL LTD#2 | 21-11-2019 15:21 | GJ05Y-8583 | 17.5 | 6119201411 | 7.5 | PASS | 0 | NO | 8.01 |
| LF16742 | UPL LTD#2 | 21-11-2019 14:52 | GJ23V-0277 | 14.45 | 6119201411 | 7.5 | PASS | 0 | NO | 7.73 |
| LF16743 | UPL LTD#2 | 21-11-2019 16:19 | GJ22T-0851 | 14.1 | 6119201411 | 7.5 | PASS | 0 | NO | 6.13 |
| LF16744 | UPL LTD#2 | 21-11-2019 18:32 | GJ03BW-0202 | 15.62 | 6119201411 | 7.5 | PASS | 0 | NO | 6.28 |
| LF16745 | UPL LTD#2 | 22-11-2019 08:14 | GJ23V-0277 | 14.83 | 6119201411 | 7.5 | PASS | 19.8 | NO | 71.1 |
| LF16746 | UPL LTD#2 | 22-11-2019 15:16 | GJ05Y-8583 | 13.86 | 6119201411 | 7.5 | NOT PASS | 23.2 | NO | 71.1 |
| LF16748 | UPL LTD#2 | 22-11-2019 13:30 | GJ22T-0851 | 16.19 | 6119201411 | 7.5 | PASS | 0 | NO | 10.78 |
| LF16747 | UPL LTD#2 | 22-11-2019 15:39 | GJ21V-1624 | 17.88 | 6119201411 | 7.5 | PASS | 0 | NO | 29.26 |
| LF16749 | UPL LTD#2 | 22-11-2019 13:35 | GJ05AV-2764 | 14.43 | 6119201411 | 7.5 | PASS | 0 | NO | 8.12 |
| LF16750 | UPL LTD#2 | 22-11-2019 12:38 | GJ03BW-0202 | 16.64 | 6119201411 | 7.5 | PASS | 0 | NO | 13.08 |
| LF17853 | UPL LTD#2 | 22-11-2019 13:29 | GJ23V-0277 | 15.54 | 6119201411 | 7.5 | PASS | 0 | NO | 10.25 |
| LF17856 | UPL LTD#2 | 22-11-2019 16:39 | GJ23V-0277 | 15.01 | 6119201411 | 7.5 | PASS | 0 | NO | 15.96 |
| LF17854 | UPL LTD#2 | 22-11-2019 16:39 | GJ03BW-0202 | 14.8 | 6119201411 | 7.5 | PASS | 0 | NO | 13.18 |
| LF17857 | UPL LTD#2 | 22-11-2019 16:41 | GJ05AV-2764 | 14.25 | 6119201411 | 7.5 | PASS | 0 | NO | 15.29 |
| LF17858 | UPL LTD#2 | 22-11-2019 17:58 | GJ05Y-8583 | 15.11 | 6119201411 | 7.5 | PASS | 0 | NO | 16.19 |
| LF17859 | UPL LTD#2 | 23-11-2019 11:53 | GJ22T-0851 | 16.33 | 6119201411 | 7.5 | PASS | 0 | NO | 14.18 |
| LF17860 | UPL LTD#2 | 23-11-2019 10:32 | GJ05AV-2764 | 14.15 | 6119201411 | 7.5 | PASS | 0 | NO | 15.35 |
| LF17809 | UPL LTD#2 | 23-11-2019 11:38 | GJ23V-0277 | 14.62 | 6119201411 | 7.5 | PASS | 0 | NO | 15.85 |
| LF17810 | UPL LTD#2 | 23-11-2019 13:17 | GJ05Y-8583 | 13.82 | 6119201411 | 7.5 | PASS | 0 | NO | 19.54 |
| LF17811 | UPL LTD#2 | 23-11-2019 14:01 | GJ05AV-2764 | 12.2 | 6119201411 | 7.5 | PASS | 0 | NO | 25.75 |
| LF17813 | UPL LTD#2 | 23-11-2019 15:54 | GJ03BW-0202 | 15.71 | 6119201411 | 7.5 | PASS | 0 | NO | 21.37 |
| LF17814 | UPL LTD#2 | 23-11-2019 18:08 | GJ05Y-8583 | 14.08 | 6119201411 | 7.5 | PASS | 2.4 | NO | 29.45 |
| LF17815 | UPL LTD#2 | 24-11-2019 10:59 | GJ05AV-2764 | 13.5 | 6119201411 | 7.5 | PASS | 0 | NO | 19.49 |
| LF17817 | UPL LTD#2 | 24-11-2019 15:45 | GJ05Y-8583 | 19.44 | 6119201411 | 7.5 | PASS | 7.5 | NO | 25.42 |
| LF17819 | UPL LTD#2 | 24-11-2019 16:07 | GJ16Z-0725 | 15.21 | 6119201411 | 7.5 | PASS | 0 | NO | 23.35 |
| LF17818 | UPL LTD#2 | 25-11-2019 10:36 | GJ16X-7583 | 19.67 | 6119201411 | 7.5 | PASS | 0 | NO | 23.44 |
| LF17820 | UPL LTD#2 | 25-11-2019 12:13 | GJ05Y-8583 | 1 | 6119201411 | | PASS | | NO | |
| LF17821 | UPL LTD#2 | 25-11-2019 14:17 | GJ16Z-0725 | 13.96 | 6119201411 | 7.5 | PASS | 0 | NO | 17.47 |
| LF17816 | UPL LTD#2 | 25-11-2019 15:32 | GJ03BW-0202 | 15.92 | 6119201411 | 7.5 | PASS | 0 | NO | 21.34 |
| LF17822 | UPL LTD#2 | 25-11-2019 15:40 | GJ05Y-8583 | 13.89 | 6119201411 | 7.5 | PASS | 0 | NO | 18.29 |
| LF17812 | UPL LTD#2 | 26-11-2019 10:48 | GJ23V-0277 | 12.93 | 6119201411 | 7.5 | PASS | 0 | NO | 16.9 |
| LF17823 | UPL LTD#2 | 26-11-2019 10:58 | GJ05Y-8583 | 15.35 | 6119201411 | 7.5 | PASS | 0 | NO | 16.7 |
| LF17824 | UPL LTD#2 | 26-11-2019 14:47 | GJ03BW-0202 | 16.23 | 6119201411 | 7.5 | PASS | 0 | NO | 17.35 |
| LF17826 | UPL LTD#2 | 26-11-2019 14:53 | GJ23V-0277 | 12.98 | 6119201411 | 7.5 | PASS | 0 | NO | 13.9 |
| LF17828 | UPL LTD#2 | 26-11-2019 17:39 | GJ23V-0277 | 14.15 | 6119201411 | 7.5 | PASS | 0 | NO | 18.38 |
| LF17829 | UPL LTD#2 | 26-11-2019 18:35 | GJ03BW-0202 | 14.72 | 6119201411 | 7.5 | PASS | 0 | NO | 16.31 |
| LF17825 | UPL LTD#2 | 27-11-2019 13:52 | GJ16Z-0725 | 17.93 | 6119201411 | 7.5 | NOT PASS | 8.4 | NO | 41.15 |
| LF17827 | UPL LTD#2 | 27-11-2019 07:59 | GJ05Y-8583 | 16.35 | 6119201411 | 7.5 | NOT PASS | 15.4 | NO | 31.01 |
| LF17830 | UPL LTD#2 | 27-11-2019 12:37 | GJ23V-0277 | 13.4 | 6119201411 | 7.5 | PASS | 0 | NO | 16.76 |
| LF17831 | UPL LTD#2 | 27-11-2019 12:59 | GJ05Y-8583 | 14.48 | 6119201411 | 7.5 | PASS | 0 | NO | 18.01 |
| LF17833 | UPL LTD#2 | 27-11-2019 17:43 | GJ23V-0277 | 14.27 | 6119201411 | 7.5 | PASS | 0 | NO | 17.85 |

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|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF17832 | UPL LTD#2 | 27-11-2019 17:32 | GJ03BW-0202 | 16.24 | 6119201411 | 7.5 | PASS | 0 | NO | 18.45 |
| LF17834 | UPL LTD#2 | 27-11-2019 17:35 | GJ05YY-8583 | 14.95 | 6119201411 | 7.5 | PASS | 0 | NO | 19.3 |
| LF17836 | UPL LTD#2 | 28-11-2019 13:55 | GJ23V-0277 | 16.09 | 6119201411 | 7.5 | PASS | 0 | NO | 15.97 |
| LF17838 | UPL LTD#2 | 28-11-2019 14:09 | GJ05YY-8583 | 15.04 | 6119201411 | 7.5 | PASS | 0 | NO | 18.41 |
| LF17837 | UPL LTD#2 | 28-11-2019 12:50 | GJ03BW-0202 | 15.02 | 6119201411 | 7.5 | PASS | 0 | NO | 18.34 |
| LF17835 | UPL LTD#2 | 28-11-2019 17:58 | GJ16Z-0725 | 14.2 | 6119201411 | 7.5 | PASS | 0 | NO | 18.01 |
| LF17839 | UPL LTD#2 | 28-11-2019 17:03 | GJ05YY-8583 | 14.78 | 6119201411 | 7.5 | PASS | 0 | NO | 14.71 |
| LF17840 | UPL LTD#2 | 29-11-2019 08:43 | GJ23V-0277 | 14.39 | 6119201411 | 7.5 | PASS | 23.4 | NO | 63.16 |
| LF17841 | UPL LTD#2 | 29-11-2019 09:36 | GJ03BW-0202 | 15.26 | 6119201411 | 7.5 | PASS | 0 | NO | 17.14 |
| LF17843 | UPL LTD#2 | 29-11-2019 16:38 | GJ23V-0277 | 0.76 | 6119201411 | | PASS | | NO | |
| LF17842 | UPL LTD#2 | 30-11-2019 09:24 | GJ05YY-8583 | 15.09 | 6119201411 | 7.5 | PASS | 11 | NO | 23.1 |
| LF17844 | UPL LTD#2 | 30-11-2019 11:02 | GJ16Z-0725 | 0.94 | 6119201411 | | PASS | | NO | |
| LF17845 | UPL LTD#2 | 30-11-2019 16:26 | GJ23V-0277 | 15.95 | 6119201411 | 7.5 | PASS | 0 | NO | 16.39 |
| LF17846 | UPL LTD#2 | 01-12-2019 12:09 | GJ23V-0277 | 15.8 | 6119201526 | 7.5 | PASS | 0 | NO | 14.87 |
| LF17847 | UPL LTD#2 | 01-12-2019 12:16 | GJ05YY-8583 | 16.79 | 6119201526 | 7.5 | PASS | 0 | NO | 17.26 |
| LF17848 | UPL LTD#2 | 01-12-2019 15:30 | GJ23V-0277 | 14.89 | 6119201526 | 7.5 | PASS | 0 | NO | 17.01 |
| LF17849 | UPL LTD#2 | 01-12-2019 15:29 | GJ05YY-8583 | 15.29 | 6119201526 | 7.5 | PASS | 0 | NO | 16.53 |
| LF17850 | UPL LTD#2 | 01-12-2019 17:37 | GJ03BW-0202 | 15.61 | 6119201526 | 7.5 | PASS | 0 | NO | 17.41 |
| LF18827 | UPL LTD#2 | 03-12-2019 17:50 | GJ23V-0277 | 16.63 | 6119201526 | 7.5 | PASS | 0 | NO | 13.74 |
| LF18828 | UPL LTD#2 | 04-12-2019 12:16 | GJ23V-0277 | 15.06 | 6119201526 | 7.5 | PASS | 0 | NO | 17.74 |
| LF18829 | UPL LTD#2 | 04-12-2019 13:09 | GJ05YY-8583 | 16.86 | 6119201526 | 7.5 | PASS | 0 | NO | 21.18 |
| LF18830 | UPL LTD#2 | 04-12-2019 15:23 | GJ16Z-0725 | 16.96 | 6119201526 | 7.5 | PASS | 0 | NO | 21.09 |
| LF18831 | UPL LTD#2 | 04-12-2019 15:08 | GJ23V-0277 | 15.72 | 6119201526 | 7.5 | PASS | 0 | NO | 34.18 |
| LF18832 | UPL LTD#2 | 04-12-2019 16:27 | GJ05YY-8583 | 15.25 | 6119201526 | 7.5 | PASS | 0 | NO | 24.18 |
| LF18833 | UPL LTD#2 | 04-12-2019 18:31 | GJ23V-0277 | 14.45 | 6119201526 | 7.5 | PASS | 0 | NO | 28.19 |
| LF18834 | UPL LTD#2 | 05-12-2019 15:13 | GJ16Z-0725 | 14.99 | 6119201526 | 7.5 | PASS | 0 | NO | 15.24 |
| LF18835 | UPL LTD#2 | 05-12-2019 11:24 | GJ23V-0277 | 14.98 | 6119201526 | 7.5 | PASS | 0 | NO | 15.26 |
| LF18836 | UPL LTD#2 | 05-12-2019 12:19 | GJ05YY-8583 | 15.87 | 6119201526 | 7.5 | PASS | 0 | NO | 18.29 |
| LF18837 | UPL LTD#2 | 05-12-2019 13:43 | GJ03BW-0202 | 16.87 | 6119201526 | 7.5 | PASS | 0 | NO | 16.15 |
| LF18838 | UPL LTD#2 | 05-12-2019 13:38 | GJ23V-0277 | 15.02 | 6119201526 | 7.5 | PASS | 0 | NO | 24.18 |
| LF18839 | UPL LTD#2 | 05-12-2019 15:21 | GJ05YY-8583 | 16.33 | 6119201526 | 7.5 | PASS | 0 | NO | 13.14 |
| LF18840 | UPL LTD#2 | 05-12-2019 17:52 | GJ23V-0277 | 15.61 | 6119201526 | 7.5 | PASS | 0 | NO | 16.24 |
| LF18841 | UPL LTD#2 | 05-12-2019 18:20 | GJ16Z-0725 | 13.42 | 6119201526 | 7.5 | PASS | 0 | NO | 18.18 |
| LF18842 | UPL LTD#2 | 06-12-2019 09:06 | GJ05YY-8583 | 15.64 | 6119201526 | 7.5 | PASS | 0 | NO | 16.18 |
| LF18843 | UPL LTD#2 | 06-12-2019 12:19 | GJ23V-0277 | 14.51 | 6119201526 | 7.5 | PASS | 0 | NO | 16.08 |
| LF18844 | UPL LTD#2 | 06-12-2019 14:56 | GJ05YY-8583 | 15.3 | 6119201526 | 7.5 | PASS | 0 | NO | 6.72 |
| LF18845 | UPL LTD#2 | 06-12-2019 15:12 | GJ03BW-0202 | 17.14 | 6119201526 | 7.5 | PASS | 0 | NO | 15.28 |
| LF18846 | UPL LTD#2 | 06-12-2019 15:17 | GJ16Z-0725 | 13.86 | 6119201526 | 7.5 | PASS | 0 | NO | 13.89 |
| LF18847 | UPL LTD#2 | 06-12-2019 18:00 | GJ23V-0277 | 14.56 | 6119201526 | 7.5 | PASS | 0 | NO | 10.61 |
| LF18849 | UPL LTD#2 | 06-12-2019 18:10 | GJ03BW-0202 | 18.25 | 6119201526 | 7.5 | PASS | 0 | NO | 11.75 |
| LF18850 | UPL LTD#2 | 06-12-2019 18:14 | GJ16Z-0725 | 17.13 | 6119201526 | 7.5 | PASS | 0 | NO | 18.09 |
| LF18853 | UPL LTD#2 | 07-12-2019 18:28 | GJ23V-0277 | 15.41 | 6119201526 | 7.5 | PASS | 20.1 | NO | 58.16 |
| LF18852 | UPL LTD#2 | 07-12-2019 12:39 | GJ03BW-0202 | 16.98 | 6119201526 | 7.5 | PASS | 0 | NO | 10.27 |
| LF18854 | UPL LTD#2 | 07-12-2019 15:15 | GJ16Z-0725 | 0.83 | 6119201526 | | PASS | | NO | |
| LF18855 | UPL LTD#2 | 07-12-2019 15:30 | GJ03BW-0202 | 15.5 | 6119201526 | 7.5 | PASS | 0 | NO | 12.14 |
| LF18856 | UPL LTD#2 | 07-12-2019 17:59 | GJ16Z-0725 | 14.79 | 6119201526 | 7.5 | PASS | 0 | NO | 13.16 |
| LF18857 | UPL LTD#2 | 07-12-2019 18:14 | GJ03BW-0202 | 15.73 | 6119201526 | 7.5 | PASS | 0 | NO | 12.7 |
| LF18851 | UPL LTD#2 | 08-12-2019 13:49 | GJ05YY-8583 | 19.6 | 6119201526 | 7.5 | NOT PASS | 3.5 | NO | 21.18 |

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|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF18858 | UPL LTD#2 | 08-12-2019 11:10 | GJ23V-0277 | 14.48 | 6119201526 | 7.5 | PASS | 0 | NO | 14.47 |
| LF18859 | UPL LTD#2 | 08-12-2019 11:59 | GJ16Z-0725 | 14.76 | 6119201526 | 7.5 | PASS | 0 | NO | 16.18 |
| LF18862 | UPL LTD#2 | 08-12-2019 13:22 | GJ03BW-0202 | 16.3 | 6119201526 | 7.5 | PASS | 0 | NO | 15.3 |
| LF18863 | UPL LTD#2 | 08-12-2019 13:24 | GJ23V-0277 | 14.34 | 6119201526 | 7.5 | PASS | 0 | NO | 12.21 |
| LF18864 | UPL LTD#2 | 08-12-2019 14:37 | GJ16Z-0725 | 15.94 | 6119201526 | 7.5 | PASS | 0 | NO | 14.16 |
| LF18865 | UPL LTD#2 | 08-12-2019 18:33 | GJ23V-0277 | 16.28 | 6119201526 | 7.5 | PASS | 0 | NO | 16.2 |
| LF18866 | UPL LTD#2 | 08-12-2019 16:08 | GJ03BW-0202 | 16.81 | 6119201526 | 7.5 | PASS | 0 | NO | 15.2 |
| LF18867 | UPL LTD#2 | 08-12-2019 18:37 | GJ16Z-0725 | 16.26 | 6119201526 | 7.5 | PASS | 0 | NO | 10.12 |
| LF18868 | UPL LTD#2 | 09-12-2019 10:12 | GJ03BW-0202 | 16.41 | 6119201526 | 7.5 | PASS | 0 | NO | 14.25 |
| LF18869 | UPL LTD#2 | 09-12-2019 16:40 | GJ23V-0277 | 14.91 | 6119201526 | 7.5 | PASS | 0 | NO | 16.21 |
| LF18870 | UPL LTD#2 | 09-12-2019 16:39 | GJ16Z-0725 | 15.49 | 6119201526 | 7.5 | PASS | 0 | NO | 13.24 |
| LF18871 | UPL LTD#2 | 09-12-2019 17:30 | GJ03BW-0202 | 16.63 | 6119201526 | 7.5 | PASS | 0 | NO | 14.22 |
| LF18872 | UPL LTD#2 | 10-12-2019 18:01 | GJ05YY-8583 | 17.01 | 6119201526 | 7.5 | PASS | 4.8 | NO | 42.08 |
| LF18875 | UPL LTD#2 | 10-12-2019 14:04 | GJ16Z-0725 | 14.45 | 6119201526 | 7.5 | PASS | 0 | NO | 17.24 |
| LF18876 | UPL LTD#2 | 10-12-2019 15:08 | GJ03BW-0202 | 15.13 | 6119201526 | 7.5 | PASS | 0 | NO | 10.08 |
| LF18873 | UPL LTD#2 | 10-12-2019 15:01 | GJ23V-0277 | 13.74 | 6119201526 | 7.5 | PASS | 0 | NO | 15.28 |
| LF19751 | UPL LTD#2 | 10-12-2019 17:32 | GJ16Z-0725 | 15.32 | 6119201526 | 7.5 | PASS | 0 | NO | 10.24 |
| LF18874 | UPL LTD#2 | 10-12-2019 17:31 | GJ23V-0277 | 15.56 | 6119201526 | 7.5 | PASS | 0 | NO | 8.18 |
| LF19752 | UPL LTD#2 | 10-12-2019 17:36 | GJ03BW-0202 | 16.12 | 6119201526 | 7.5 | PASS | 0 | NO | 14.15 |
| LF19753 | UPL LTD#2 | 11-12-2019 17:15 | GJ23V-0277 | 14.09 | 6119201637 | 7.5 | PASS | 0 | NO | 16.14 |
| LF19756 | UPL LTD#2 | 12-12-2019 11:02 | GJ05YY-8583 | 14.77 | 6119201637 | 7.5 | PASS | 0 | NO | 7.24 |
| LF19755 | UPL LTD#2 | 12-12-2019 10:20 | GJ03BW-0202 | 17.32 | 6119201637 | 7.5 | PASS | 0 | NO | 8.08 |
| LF19757 | UPL LTD#2 | 12-12-2019 18:22 | GJ16Z-0725 | 14.51 | 6119201637 | 7.5 | NOT PASS | 12.8 | NO | 75.18 |
| LF19758 | UPL LTD#2 | 12-12-2019 18:24 | GJ23V-0277 | 12.97 | 6119201637 | 7.5 | PASS | 1.2 | NO | 23.14 |
| LF19759 | UPL LTD#2 | 12-12-2019 18:14 | GJ03BW-0202 | 17.43 | 6119201637 | 7.5 | PASS | 0 | NO | 9.08 |
| LF19760 | UPL LTD#2 | 12-12-2019 18:15 | GJ05YY-8583 | 14.43 | 6119201637 | 7.5 | PASS | 0 | NO | 6.15 |
| LF19761 | UPL LTD#2 | 13-12-2019 16:44 | GJ23V-0277 | 14.11 | 6119201637 | 7.5 | PASS | 0 | NO | 7.08 |
| LF19762 | UPL LTD#2 | 15-12-2019 15:00 | GJ23V-0277 | 14.33 | 6119201637 | 7.5 | PASS | 0 | NO | 6.29 |
| LF19763 | UPL LTD#2 | 15-12-2019 18:44 | GJ16Z-0725 | 0.93 | 6119201637 | | PASS | | NO | |
| LF19764 | UPL LTD#2 | 16-12-2019 15:21 | GJ23V-0277 | 13.6 | 6119201637 | 7.5 | PASS | 0 | NO | 6.21 |
| LF19765 | UPL LTD#2 | 18-12-2019 10:55 | GJ23V-0277 | 14.42 | 6119201637 | 7.5 | NOT PASS | 19.5 | NO | 41.84 |
| LF19767 | UPL LTD#2 | 19-12-2019 18:04 | GJ23V-0277 | 19.07 | 6119201637 | 7.5 | PASS | 0 | NO | 11.31 |
| LF19768 | UPL LTD#2 | 19-12-2019 18:07 | GJ05YY-8583 | 0.81 | 6119201637 | | PASS | | NO | |
| LF19770 | UPL LTD#2 | 22-12-2019 17:27 | GJ05YY-8583 | 16.18 | 6119201757 | 7.5 | PASS | 4 | NO | 12.11 |
| LF19769 | UPL LTD#2 | 22-12-2019 17:52 | GJ23V-0277 | 16.06 | 6119201757 | 7.5 | PASS | 11.5 | NO | 21.87 |
| LF19771 | UPL LTD#2 | 23-12-2019 14:59 | GJ23V-0277 | 1.12 | 6119201757 | | PASS | | NO | |
| LF19772 | UPL LTD#2 | 24-12-2019 10:50 | GJ23V-0277 | 0.89 | 6119201757 | | PASS | | NO | |
| LF19773 | UPL LTD#2 | 25-12-2019 15:23 | GJ05YY-8583 | 16.67 | 6119201757 | 7.5 | PASS | 0 | NO | 9.11 |
| LF19774 | UPL LTD#2 | 26-12-2019 15:52 | GJ05YY-8583 | 15.49 | 6119201757 | 7.5 | PASS | 19.5 | NO | 57.11 |
| LF19775 | UPL LTD#2 | 27-12-2019 15:55 | GJ05YY-8583 | 1.29 | 6119201757 | | PASS | | NO | |
| LF19776 | UPL LTD#2 | 28-12-2019 19:26 | GJ05YY-8583 | 16.91 | 6119201757 | 7.5 | PASS | 0.5 | NO | 10.37 |
| LF19777 | UPL LTD#2 | 29-12-2019 17:36 | GJ05YY-8583 | 15.64 | 6119201757 | 7.5 | PASS | 14.5 | NO | 20.15 |
| LF19778 | UPL LTD#2 | 31-12-2019 18:59 | GJ05YY-8583 | 16.94 | 6119201757 | 7.5 | NOT PASS | 3.8 | NO | 10.15 |
| LF19779 | UPL LTD#2 | 02-01-2020 16:00 | GJ05YY-8583 | 14.62 | 6119201860 | 7.5 | PASS | 0 | NO | 11.4 |
| LF19780 | UPL LTD#2 | 03-01-2020 15:58 | GJ05YY-8583 | 0.83 | 6119201860 | | PASS | | NO | |
| LF19781 | UPL LTD#2 | 04-01-2020 16:05 | GJ05YY-8583 | 15.16 | 6119201860 | 7.5 | PASS | 0 | NO | 6.29 |
| LF19782 | UPL LTD#2 | 05-01-2020 14:35 | GJ05YY-8583 | 15.06 | 6119201860 | 7.5 | PASS | 0 | NO | 7.96 |
| LF19783 | UPL LTD#2 | 06-01-2020 19:53 | GJ05YY-8583 | 14.75 | 6119201860 | 7.5 | PASS | 16.3 | NO | 60.08 |

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| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PH | PFLT_TEST | LRT_TEST | METAL_STABILIZE_REQD | MOISTURE_CONTENT |
|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF19784 | UPL LTD#2 | 10-01-2020 15:52 | GJ05YY-8583 | 15.77 | 6119201860 | 7.5 | PASS | 0 | NO | 8 |
| LF19785 | UPL LTD#2 | 12-01-2020 14:24 | GJ23V-0277 | 15.7 | 6119201954 | 7.5 | PASS | 0 | NO | 15.2 |
| LF19786 | UPL LTD#2 | 12-01-2020 19:17 | GJ05YY-8583 | 13.45 | 6119201954 | 7.5 | NOT PASS | 27.9 | NO | 65.11 |
| LF19787 | UPL LTD#2 | 13-01-2020 14:06 | GJ23V-0277 | 0.71 | 6119201954 | | PASS | | NO | |
| LF19788 | UPL LTD#2 | 13-01-2020 16:16 | GJ05YY-8583 | 14.6 | 6119201954 | 7.5 | PASS | 0 | NO | 7.29 |
| LF19789 | UPL LTD#2 | 15-01-2020 16:01 | GJ05YY-8583 | 15.05 | 6119201954 | 7.5 | PASS | 0 | NO | 9.56 |
| LF19790 | UPL LTD#2 | 16-01-2020 15:59 | GJ05YY-8583 | 14.64 | 6119201954 | 7.5 | PASS | 1.5 | NO | 10.27 |
| LF19791 | UPL LTD#2 | 17-01-2020 17:07 | GJ05YY-8583 | 0.74 | 6119201954 | | PASS | | NO | |
| LF19792 | UPL LTD#2 | 20-01-2020 14:38 | GJ05YY-8583 | 16.15 | 6119201954 | 7.5 | NOT PASS | 3.5 | NO | 22.18 |
| LF19793 | UPL LTD#2 | 21-01-2020 10:44 | GJ05YY-8583 | 1.15 | 6119202070 | | PASS | | NO | |
| LF19794 | UPL LTD#2 | 22-01-2020 14:15 | GJ05YY-8583 | 14.96 | 6119202070 | 7.5 | NOT PASS | 3.5 | NO | 18.6 |
| LF19795 | UPL LTD#2 | 23-01-2020 16:33 | GJ05YY-8583 | 14.83 | 6119202070 | 7.5 | PASS | 0 | NO | 9.01 |
| LF21806 | UPL LTD#2 | 24-01-2020 18:05 | GJ05YY-8583 | 14.47 | 6119202070 | 7.5 | PASS | 10 | NO | 50.88 |
| LF19796 | UPL LTD#2 | 25-01-2020 15:43 | GJ05YY-8583 | 1.48 | 6119202070 | | PASS | | NO | |
| LF19797 | UPL LTD#2 | 27-01-2020 10:01 | GJ05YY-8583 | 15.2 | 6119202070 | 7.5 | NOT PASS | 26 | NO | 49.28 |
| LF19798 | UPL LTD#2 | 27-01-2020 18:51 | GJ05YY-8583 | 16.12 | 6119202070 | 7.5 | PASS | 0 | NO | 9.11 |
| LF19799 | UPL LTD#2 | 28-01-2020 09:33 | GJ05AV-2764 | 13.28 | 6119202070 | 7.5 | PASS | 0 | NO | 9.38 |
| LF19800 | UPL LTD#2 | 28-01-2020 10:21 | GJ23V-0277 | 15.78 | 6119202070 | 7.5 | PASS | 0 | NO | 19.21 |
| LF21807 | UPL LTD#2 | 28-01-2020 11:47 | GJ05YY-8583 | 17.28 | 6119202070 | 7.5 | PASS | 0 | NO | 19.53 |
| LF21809 | UPL LTD#2 | 28-01-2020 13:43 | GJ05AV-2764 | 14.39 | 6119202070 | 7.5 | PASS | 0 | NO | 19.35 |
| LF21808 | UPL LTD#2 | 28-01-2020 13:44 | GJ23V-0277 | 14.83 | 6119202070 | 7.5 | PASS | 0 | NO | 18.58 |
| LF21810 | UPL LTD#2 | 28-01-2020 15:51 | GJ05YY-8583 | 13.71 | 6119202070 | 7.5 | PASS | 0 | NO | 19.51 |
| LF21811 | UPL LTD#2 | 28-01-2020 15:53 | GJ03BW-0202 | 11.85 | 6119202070 | 7.5 | PASS | 0 | NO | 20.14 |
| LF21812 | UPL LTD#2 | 28-01-2020 17:04 | GJ23V-0277 | 14.72 | 6119202070 | 7.5 | PASS | 0 | NO | 18.92 |
| LF21813 | UPL LTD#2 | 28-01-2020 17:48 | GJ05AV-2764 | 14.08 | 6119202070 | 7.5 | PASS | 0 | NO | 19.23 |
| LF21815 | UPL LTD#2 | 29-01-2020 09:30 | GJ03BW-0202 | 12.41 | 6119202070 | 7.5 | PASS | 0 | NO | 13.37 |
| LF21814 | UPL LTD#2 | 29-01-2020 10:54 | GJ05YY-8583 | 13.97 | 6119202070 | 7.5 | PASS | 0 | NO | 14.59 |
| LF21816 | UPL LTD#2 | 29-01-2020 13:31 | GJ23V-0277 | 14.27 | 6119202070 | 7.5 | PASS | 0 | NO | 19.51 |
| LF21817 | UPL LTD#2 | 29-01-2020 13:32 | GJ05AV-2764 | 13.2 | 6119202070 | 7.5 | PASS | 0 | NO | 19.34 |
| LF21818 | UPL LTD#2 | 29-01-2020 15:11 | GJ05YY-8583 | 14.23 | 6119202070 | 7.5 | PASS | 0 | NO | 17.96 |
| LF21819 | UPL LTD#2 | 29-01-2020 15:17 | GJ03BW-0202 | 12.67 | 6119202070 | 7.5 | PASS | 0 | NO | 17.64 |
| LF21820 | UPL LTD#2 | 29-01-2020 17:22 | GJ05AV-2764 | 13.57 | 6119202070 | 7.5 | PASS | 0 | NO | 19.51 |
| LF21821 | UPL LTD#2 | 29-01-2020 17:28 | GJ23V-0277 | 12.78 | 6119202070 | 7.5 | PASS | 0 | NO | 19.42 |
| LF21822 | UPL LTD#2 | 29-01-2020 18:07 | GJ05YY-8583 | 12.61 | 6119202070 | 7.5 | PASS | 0 | NO | 19.34 |
| LF21823 | UPL LTD#2 | 30-01-2020 12:21 | GJ23V-0277 | 12.62 | 6119202070 | 7.5 | PASS | 0 | NO | 12.28 |
| LF21824 | UPL LTD#2 | 30-01-2020 12:50 | GJ03BW-0202 | 13.31 | 6119202070 | 7.5 | PASS | 0 | NO | 17.76 |
| LF21826 | UPL LTD#2 | 30-01-2020 13:06 | GJ22T-0851 | 12.22 | 6119202070 | 7.5 | PASS | 0 | NO | 17.64 |
| LF21825 | UPL LTD#2 | 30-01-2020 13:08 | GJ05YY-8583 | 13.47 | 6119202070 | 7.5 | PASS | 0 | NO | 18.19 |
| LF21827 | UPL LTD#2 | 30-01-2020 17:26 | GJ05AV-2764 | 13.67 | 6119202070 | 7.5 | PASS | 0 | NO | 16.78 |
| LF21828 | UPL LTD#2 | 30-01-2020 17:14 | GJ23V-0277 | 13.69 | 6119202070 | 7.5 | PASS | 0 | NO | 13.95 |
| LF21830 | UPL LTD#2 | 30-01-2020 17:54 | GJ22T-0851 | 15.56 | 6119202070 | 7.5 | PASS | 0 | NO | 18.21 |
| LF21831 | UPL LTD#2 | 30-01-2020 18:17 | GJ03BW-0202 | 15.24 | 6119202070 | 7.5 | PASS | 0 | NO | 17.92 |
| LF21829 | UPL LTD#2 | 31-01-2020 12:10 | GJ05YY-8583 | 13.11 | 6119202070 | 7.5 | PASS | 0 | NO | 18.65 |
| LF21832 | UPL LTD#2 | 31-01-2020 18:53 | GJ23V-0277 | 13.2 | 6119202070 | 7.5 | PASS | 39 | NO | 51.66 |
| LF21833 | UPL LTD#2 | 01-02-2020 17:15 | GJ05YY-8583 | 13.95 | 6119202181 | 7.5 | PASS | 27 | NO | 72.11 |
| LF21834 | UPL LTD#2 | 01-02-2020 14:20 | GJ23V-0277 | 1.06 | 6119202181 | | PASS | | NO | |
| LF21835 | UPL LTD#2 | 01-02-2020 15:17 | GJ05AV-2764 | 1.15 | 6119202181 | | PASS | | NO | |
| LF21837 | UPL LTD#2 | 01-02-2020 15:29 | GJ03BW-0202 | 12.71 | 6119202181 | 7.5 | PASS | 0 | NO | 25.16 |

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|----------|-----------|------------------|----------------|-------------|-----------------|--------------|----------|----------------------|------------------|
| LF21836 | UPL LTD#2 | 01-02-2020 15:30 | GJ22T-0851 | 15.56 | 6119202181 | 7.5 PASS | 0 | NO | 28.05 |
| LF21838 | UPL LTD#2 | 01-02-2020 16:56 | GJ23V-0277 | 13.79 | 6119202181 | 7.5 PASS | 0 | NO | 16.8 |
| LF21839 | UPL LTD#2 | 02-02-2020 11:05 | GJ05AV-2764 | 13.56 | 6119202181 | 7.5 PASS | 0 | NO | 23.46 |
| LF21840 | UPL LTD#2 | 02-02-2020 12:35 | GJ23V-0277 | 13.29 | 6119202181 | 7.5 PASS | 0 | NO | 16.4 |
| LF21843 | UPL LTD#2 | 02-02-2020 12:36 | GJ05YY-8583 | 14.48 | 6119202181 | 7.5 PASS | 0 | NO | 19.6 |
| LF21841 | UPL LTD#2 | 02-02-2020 12:37 | GJ03BW-0202 | 12.63 | 6119202181 | 7.5 PASS | 0 | NO | 21.45 |
| LF21842 | UPL LTD#2 | 02-02-2020 12:38 | GJ22T-0851 | 12.8 | 6119202181 | 7.5 PASS | 0 | NO | 20.4 |
| LF21844 | UPL LTD#2 | 02-02-2020 14:57 | GJ05AV-2764 | 13.17 | 6119202181 | 7.5 PASS | 0 | NO | 22.81 |
| LF21846 | UPL LTD#2 | 02-02-2020 15:35 | GJ23V-0277 | 14.08 | 6119202181 | 7.5 PASS | 0 | NO | 20.38 |
| LF21845 | UPL LTD#2 | 02-02-2020 15:37 | GJ05YY-8583 | 14.41 | 6119202181 | 7.5 PASS | 0 | NO | 22.14 |
| LF21848 | UPL LTD#2 | 02-02-2020 17:49 | GJ03BW-0202 | 15.21 | 6119202181 | 7.5 PASS | 0 | NO | 16.4 |
| LF21847 | UPL LTD#2 | 02-02-2020 17:57 | GJ22T-0851 | 15.56 | 6119202181 | 7.5 PASS | 0 | NO | 14.8 |
| LF21849 | UPL LTD#2 | 02-02-2020 17:51 | GJ05AV-2764 | 14.57 | 6119202181 | 7.5 PASS | 0 | NO | 19.16 |
| LF21850 | UPL LTD#2 | 03-02-2020 16:08 | GJ23V-0277 | 14.44 | 6119202181 | 7.5 PASS | 0 | NO | 18.25 |
| LF21851 | UPL LTD#2 | 03-02-2020 16:39 | GJ03BW-0202 | 15.47 | 6119202181 | 7.5 PASS | 0 | NO | 18.31 |
| LF21852 | UPL LTD#2 | 03-02-2020 16:40 | GJ05YY-8583 | 13.26 | 6119202181 | 7.5 PASS | 0 | NO | 19.82 |
| LF21854 | UPL LTD#2 | 03-02-2020 17:04 | GJ22T-0851 | 12.4 | 6119202181 | 7.5 PASS | 0 | NO | 19.37 |
| LF21855 | UPL LTD#2 | 03-02-2020 17:08 | GJ05AV-2764 | 13.36 | 6119202181 | 7.5 PASS | 0 | NO | 17.92 |
| LF24001 | UPL LTD#2 | 04-02-2020 09:16 | GJ23V-0277 | 13.38 | 6119202181 | 7.5 PASS | 0 | NO | 14.25 |
| LF24002 | UPL LTD#2 | 04-02-2020 11:39 | GJ05YY-8583 | 13.12 | 6119202181 | 7.5 PASS | 0 | NO | 17.76 |
| LF23953 | UPL LTD#2 | 04-02-2020 11:53 | GJ23V-0277 | 15.34 | 6119202181 | 7.5 PASS | 0 | NO | 15.77 |
| LF23954 | UPL LTD#2 | 04-02-2020 12:31 | GJ03BW-0202 | 15.25 | 6119202181 | 7.5 PASS | 0 | NO | 18.41 |
| LF23955 | UPL LTD#2 | 04-02-2020 12:33 | GJ22T-0851 | 14.74 | 6119202181 | 7.5 PASS | 0 | NO | 13.68 |
| LF23956 | UPL LTD#2 | 04-02-2020 13:52 | GJ05YY-8583 | 13.09 | 6119202181 | 7.5 PASS | 0 | NO | 18.1 |
| LF23957 | UPL LTD#2 | 04-02-2020 13:55 | GJ23V-0277 | 13.65 | 6119202181 | 7.5 PASS | 0 | NO | 20.01 |
| LF23959 | UPL LTD#2 | 04-02-2020 17:55 | GJ03BW-0202 | 16.16 | 6119202181 | 7.5 PASS | 0.5 | NO | 19.27 |
| LF23958 | UPL LTD#2 | 04-02-2020 17:57 | GJ22T-0851 | 14.69 | 6119202181 | 7.5 PASS | 0.4 | NO | 21.1 |
| LF23960 | UPL LTD#2 | 04-02-2020 18:05 | GJ23V-0277 | 13.57 | 6119202181 | 7.5 PASS | 0 | NO | 18.4 |
| LF23961 | UPL LTD#2 | 04-02-2020 18:09 | GJ05YY-8583 | 13.85 | 6119202181 | 7.5 PASS | 0 | NO | 16.53 |
| LF23962 | UPL LTD#2 | 05-02-2020 12:17 | GJ23V-0277 | 15.22 | 6119202181 | 7.5 PASS | 0 | NO | 22.92 |
| LF23964 | UPL LTD#2 | 05-02-2020 13:13 | GJ22T-0851 | 13.73 | 6119202181 | 7.5 PASS | 0 | NO | 23.19 |
| LF23963 | UPL LTD#2 | 05-02-2020 13:22 | GJ05YY-8583 | 15.55 | 6119202181 | 7.5 PASS | 0 | NO | 21.18 |
| LF23965 | UPL LTD#2 | 05-02-2020 16:32 | GJ23V-0277 | 14.42 | 6119202181 | 7.5 PASS | 0 | NO | 24.14 |
| LF23966 | UPL LTD#2 | 05-02-2020 16:36 | GJ05YY-8583 | 15.58 | 6119202181 | 7.5 PASS | 0 | NO | 16.18 |
| LF23967 | UPL LTD#2 | 05-02-2020 17:25 | GJ22T-0851 | 13.39 | 6119202181 | 7.5 PASS | 0 | NO | 28.01 |
| LF23969 | UPL LTD#2 | 06-02-2020 16:33 | GJ23V-0277 | 12.72 | 6119202181 | 7.5 PASS | 0 | NO | 19.35 |
| LF23968 | UPL LTD#2 | 06-02-2020 16:32 | GJ22T-0851 | 12.51 | 6119202181 | 7.5 PASS | 0 | NO | 18.1 |
| LF23970 | UPL LTD#2 | 07-02-2020 15:10 | GJ23V-0277 | 1.14 | 6119202181 | | | NO | |
| LF23971 | UPL LTD#2 | 08-02-2020 15:08 | GJ22T-0851 | 11.78 | 6119202181 | 7.5 PASS | 36 | NO | 64.93 |
| LF23972 | UPL LTD#2 | 08-02-2020 16:59 | GJ23V-0277 | 13.29 | 6119202181 | 7.5 PASS | 0 | NO | 20.15 |
| LF23973 | UPL LTD#2 | 08-02-2020 17:03 | GJ05YY-8583 | 13.68 | 6119202181 | 7.5 PASS | 0 | NO | 21.75 |
| LF23974 | UPL LTD#2 | 09-02-2020 11:48 | GJ22T-0851 | 12.67 | 6119202181 | 7.5 PASS | 0 | NO | 21.12 |
| LF23975 | UPL LTD#2 | 11-02-2020 15:10 | GJ05YY-8583 | 13.73 | 6119202303 | 7.5 PASS | 35.1 | NO | 60.11 |
| LF23976 | UPL LTD#2 | 12-02-2020 16:53 | GJ05YY-8583 | 0.92 | 6119202303 | | | NO | |
| LF23977 | UPL LTD#2 | 14-02-2020 10:21 | GJ05YY-8583 | 1.32 | 6119202303 | | | NO | |
| LF23978 | UPL LTD#2 | 14-02-2020 18:22 | GJ05YY-8583 | 0.57 | 6119202303 | | | NO | |
| LF23979 | UPL LTD#2 | 15-02-2020 18:44 | GJ23V-0277 | 13.4 | 6119202303 | 7.5 NOT PASS | 22 | NO | 61.4 |
| LF23980 | UPL LTD#2 | 19-02-2020 15:39 | GJ23V-0277 | 0.81 | 6119202303 | | | NO | |

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|----------|-----------|------------------|----------------|-------------|-----------------|-----|-----------|----------|----------------------|------------------|
| LF23981 | UPL LTD#2 | 19-02-2020 18:28 | GJ05YY-8583 | 13.98 | 6119202303 | 7.5 | PASS | 19 | NO | 51.68 |
| LF23982 | UPL LTD#2 | 20-02-2020 16:22 | GJ23V-0277 | 13.89 | 6119202303 | 7.5 | PASS | 0 | NO | 11.26 |
| LF25151 | UPL LTD#2 | 21-02-2020 13:58 | GJ23V-0277 | 14.85 | 6119202406 | 7.5 | PASS | 0 | NO | 12.41 |
| LF25152 | UPL LTD#2 | 21-02-2020 13:59 | GJ05YY-8583 | 15.4 | 6119202406 | 7.5 | PASS | 0 | NO | 18.3 |
| LF25153 | UPL LTD#2 | 21-02-2020 16:26 | GJ23V-0277 | 13.87 | 6119202406 | 7.5 | PASS | 0 | NO | 16.02 |
| LF25154 | UPL LTD#2 | 21-02-2020 16:35 | GJ05YY-8583 | 16.14 | 6119202406 | 7.5 | PASS | 0 | NO | 13.76 |
| LF25155 | UPL LTD#2 | 22-02-2020 12:26 | GJ23V-0277 | 16.22 | 6119202406 | 7.5 | PASS | 0 | NO | 13.49 |
| LF25156 | UPL LTD#2 | 22-02-2020 13:58 | GJ05YY-8583 | 17.57 | 6119202406 | 7.5 | PASS | 0 | NO | 17.51 |
| LF25157 | UPL LTD#2 | 22-02-2020 15:52 | GJ23V-0277 | 16.1 | 6119202406 | 7.5 | PASS | 0 | NO | 17.54 |
| LF25158 | UPL LTD#2 | 22-02-2020 17:19 | GJ05YY-8583 | 17.16 | 6119202406 | 7.5 | PASS | 0 | NO | 19.34 |
| LF25159 | UPL LTD#2 | 24-02-2020 15:48 | GJ05YY-8583 | 1.47 | 6119202406 | | PASS | | NO | |
| LF25160 | UPL LTD#2 | 28-02-2020 15:50 | GJ05YY-8583 | 13.77 | 6119202406 | 7.5 | PASS | 16 | NO | 65.21 |
| LF25161 | UPL LTD#2 | 29-02-2020 15:39 | GJ05YY-8583 | 1.18 | 6119202406 | | PASS | | NO | |
| LF25162 | UPL LTD#2 | 02-03-2020 19:01 | GJ23V-0277 | 1.14 | 6119202519 | | PASS | | NO | |
| LF25163 | UPL LTD#2 | 04-03-2020 18:33 | GJ05YY-8583 | 15.75 | 6119202519 | 7.5 | PASS | 15 | NO | 63.69 |
| LF25164 | UPL LTD#2 | 05-03-2020 16:48 | GJ05YY-8583 | 1.37 | 6119202519 | | PASS | | NO | |
| LF25165 | UPL LTD#2 | 06-03-2020 15:21 | GJ05YY-8583 | 1.76 | 6119202519 | | PASS | | NO | |
| LF25166 | UPL LTD#2 | 07-03-2020 12:39 | GJ05YY-8583 | 1 | 6119202519 | | PASS | | NO | |
| LF26801 | UPL LTD#2 | 08-03-2020 13:42 | GJ05YY-8583 | 1.13 | 6119202519 | | PASS | | NO | |
| LF26803 | UPL LTD#2 | 09-03-2020 18:51 | GJ23V-0277 | 11.96 | 6119202519 | 7.5 | NOT PASS | 11 | NO | 66.71 |
| LF26804 | UPL LTD#2 | 12-03-2020 14:34 | GJ05YY-8583 | 11.61 | 6119202624 | 7.5 | NOT PASS | 28 | NO | 72.38 |
| LF26805 | UPL LTD#2 | 12-03-2020 14:56 | GJ23V-0277 | 1.04 | 6119202624 | | PASS | | NO | |
| LF26806 | UPL LTD#2 | 14-03-2020 15:47 | GJ05YY-8583 | 0.74 | 6119202624 | | PASS | | NO | |
| LF26807 | UPL LTD#2 | 15-03-2020 17:36 | GJ05YY-8583 | 13.31 | 6119202624 | 7.5 | PASS | 34 | NO | 64.1 |
| LF26808 | UPL LTD#2 | 16-03-2020 16:00 | GJ05YY-8583 | 1.31 | 6119202624 | | PASS | | NO | |
| LF26759 | UPL LTD#2 | 17-03-2020 18:06 | GJ05YY-8583 | 10.33 | 6119202624 | 7.5 | PASS | 28 | NO | 43.97 |
| LF23983 | UPL LTD#2 | 19-03-2020 16:29 | GJ05YY-8583 | 1.03 | 6119202624 | | PASS | | NO | |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL12 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|--|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|-------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC1062 | UPL LTR#2 | 01-04-2019 18:30 | G106X-7795 | 20.11 | 6219200022 | TANKER | OLW | 4357 | 2.06 | 7.17 | 81.08 | 2.04 | 2.21 | 3.08 |
| INC1061 | UPL LTR#2 | 03-04-2019 18:00 | G101AY-8515 | 15.5 | 6219200022 | TANKER | AQUEOUS | 769 | 2 | 8.62 | 55.45 | 6.87 | 2.92 | 32.96 |
| INC1064 | UPL LTR#2 | 03-04-2019 14:48 | G116Z-1824 | 18.24 | 6219200022 | TANKER | OLW | 3886 | 2.19 | 12.2 | 79.42 | 1.26 | 2.4 | 6.33 |
| INC1063 | UPL LTR#2 | 04-04-2019 17:09 | G112X-1193 | 14.18 | 6219200022 | TANKER | AQUEOUS | 700 | 2.1 | 5.2 | 56.93 | 7.17 | 2.74 | 45.01 |
| INC1067 | UPL LTR#2 | 04-04-2019 16:21 | G106X-7795 | 16.87 | 6219200022 | TANKER | OLW | 4114 | 2.5 | 7.55 | 81.03 | 1.8 | 2.04 | 3.95 |
| INC1070 | UPL LTR#2 | 05-04-2019 18:24 | G106X-7795 | 20.12 | 6219200022 | TANKER | OLW | 4429 | 2.19 | 7.53 | 80.74 | 1.13 | 1.79 | 3.47 |
| INC1065 | UPL LTR#2 | 06-04-2019 13:58 | G102X-3942 | 15.29 | 6219200022 | TANKER | AQUEOUS | 742 | 2.05 | 7.87 | 62.73 | 5.24 | 2.91 | 46.34 |
| INC1068 | UPL LTR#2 | 07-04-2019 16:20 | G102Y-4046 | 15.77 | 6219200022 | TANKER | AQUEOUS | 798 | 1.76 | 7.13 | 72.23 | 5.13 | 2.06 | 56.07 |
| INC1072 | UPL LTR#2 | 07-04-2019 11:49 | G116Z-1824 | 17.69 | 6219200022 | TANKER | OLW | 4418 | 2.1 | 6.21 | 80.68 | 2.22 | 1.89 | 1.82 |
| INC1069 | UPL LTR#2 | 08-04-2019 18:03 | G101AY-8515 | 13.98 | 6219200022 | TANKER | AQUEOUS | 823 | 1.88 | 7.67 | 59.63 | 5.33 | 2.16 | 37.68 |
| INC1074 | UPL LTR#2 | 08-04-2019 14:43 | G106X-7795 | 18.84 | 6219200022 | TANKER | OLW | 4368 | 2.73 | 7.05 | 78.15 | 1.1 | 2.22 | 8.13 |
| INC1071 | UPL LTR#2 | 09-04-2019 18:09 | G112X-1193 | 16.69 | 6219200022 | TANKER | AQUEOUS | 785 | 1.81 | 8.16 | 60.13 | 6.25 | 2.18 | 33.87 |
| INC1073 | UPL LTR#2 | 09-04-2019 14:27 | G106X-7795 | 13.21 | 6219200022 | TANKER | AQUEOUS | 1047 | 1.91 | 2.47 | 94.27 | 1.03 | 10.44 | 86.57 |
| INC1076 | UPL LTR#2 | 10-04-2019 16:48 | G102X-3942 | 16.95 | 6219200022 | TANKER | AQUEOUS | 767 | 1.95 | 8.9 | 56.35 | 5.02 | 1.95 | 32.38 |
| INC1075 | UPL LTR#2 | 10-04-2019 11:52 | G116Z-1824 | 19.68 | 6219200022 | TANKER | OLW | 4102 | 2.74 | 7.29 | 84.63 | 0.89 | 2.08 | 2.46 |
| INC1081 | UPL LTR#2 | 11-04-2019 16:55 | G106X-7795 | 12.09 | 6219200048 | TANKER | AQUEOUS | 773 | 3.59 | 7.88 | 84.47 | 3.22 | 8.42 | 71.56 |
| INC1078 | UPL LTR#2 | 11-04-2019 17:23 | G106X-7795 | 17.01 | 6219200048 | TANKER | OLW | 4634 | 1.69 | 8.01 | 80.76 | 1.13 | 2.5 | 3.56 |
| INC1075 | UPL LTR#2 | 12-04-2019 18:30 | G102Y-4046 | 15.57 | 6219200048 | TANKER | AQUEOUS | 819 | 1.83 | 8.94 | 61.35 | 6.19 | 2.24 | 39.94 |
| INC1082 | UPL LTR#2 | 12-04-2019 15:46 | G116Z-1824 | 17.77 | 6219200048 | TANKER | OLW | 4271 | 2.94 | 8.81 | 80.2 | 1.03 | 2.16 | 2.86 |
| INC1084 | UPL LTR#2 | 13-04-2019 18:25 | G106X-7795 | 19.77 | 6219200048 | TANKER | OLW | 4783 | 2.09 | 7.49 | 82.76 | 1.26 | 2.06 | 2.4 |
| INC1079 | UPL LTR#2 | 14-04-2019 09:11 | G112X-1193 | 15.9 | 6219200048 | TANKER | AQUEOUS | 773 | 2.08 | 7.42 | 55.25 | 5.22 | 2.06 | 31.4 |
| INC1077 | UPL LTR#2 | 15-04-2019 17:10 | G101AY-8515 | 14.86 | 6219200048 | TANKER | AQUEOUS | 827 | 1.29 | 9.21 | 56.79 | 5.22 | 2.16 | 36.86 |
| INC1086 | UPL LTR#2 | 15-04-2019 12:21 | G116Z-1824 | 18.87 | 6219200048 | TANKER | OLW | 4609 | 2.94 | 8.19 | 82.12 | 1.03 | 8.11 | 8.1 |
| INC1088 | UPL LTR#2 | 16-04-2019 16:30 | G106X-7795 | 19.72 | 6219200048 | TANKER | OLW | 4038 | 2.86 | 8.2 | 82.12 | 0.99 | 2.2 | 4.1 |
| INC1089 | UPL LTR#2 | 17-04-2019 17:30 | G116Z-1824 | 19.29 | 6219200048 | TANKER | OLW | 4732 | 2.01 | 10.5 | 83.19 | 0.73 | 2.2 | 5.29 |
| INC1083 | UPL LTR#2 | 18-04-2019 15:34 | G102X-3942 | 16.17 | 6219200048 | TANKER | AQUEOUS | 763 | 1.55 | 9.73 | 58.75 | 6.02 | 2.2 | 36.67 |
| INC1085 | UPL LTR#2 | 19-04-2019 17:42 | G102Y-4046 | 16.52 | 6219200048 | TANKER | AQUEOUS | 729 | 1.81 | 6.17 | 57.12 | 7.12 | 1.87 | 36.86 |
| INC1092 | UPL LTR#2 | 19-04-2019 17:47 | G116Z-1824 | 18.22 | 6219200048 | TANKER | OLW | 3194 | 1.82 | 8.9 | 52.19 | 2.5 | 2.73 | 26.07 |
| INC1090 | UPL LTR#2 | 20-04-2019 11:40 | G101AY-8518 | 15 | 6219200048 | TANKER | AQUEOUS | 729 | 1.48 | 8.59 | 56.15 | 7.09 | 2.29 | 32.9 |
| INC1087 | UPL LTR#2 | 21-04-2019 16:50 | G112X-1193 | 15.45 | 6219200076 | TANKER | AQUEOUS | 749 | 1.89 | 8.19 | 60.2 | 6.06 | 2.42 | 34.64 |
| INC1091 | UPL LTR#2 | 21-04-2019 11:22 | G106X-7795 | 19.71 | 6219200076 | TANKER | AQUEOUS | 866 | 2.39 | 7.76 | 58.2 | 7.13 | 2.02 | 37.47 |
| INC1094 | UPL LTR#2 | 22-04-2019 16:58 | G102X-3942 | 20.15 | 6219200076 | TANKER | AQUEOUS | 780 | 2.21 | 8.27 | 60.62 | 5.33 | 2.88 | 32.94 |
| INC1093 | UPL LTR#2 | 22-04-2019 19:51 | G106X-7795 | 12.8 | 6219200076 | TANKER | AQUEOUS | 1065 | 3.1 | 5.22 | 84.62 | 1.82 | 6.68 | 75.31 |
| INC1095 | UPL LTR#2 | 24-04-2019 15:37 | G102Y-4046 | 14.36 | 6219200076 | TANKER | AQUEOUS | 790 | 2.99 | 9.81 | 55.37 | 7.55 | 2.06 | 35.14 |
| INC1098 | UPL LTR#2 | 25-04-2019 17:47 | G102X-3942 | 12.54 | 6219200076 | TANKER | AQUEOUS | 764 | 2.54 | 8.78 | 60.61 | 6.02 | 2.64 | 39.87 |
| INC1099 | UPL LTR#2 | 25-04-2019 17:43 | G106X-7795 | 12.42 | 6219200076 | TANKER | AQUEOUS | 1171 | 3.68 | 7.84 | 76.79 | 1.55 | 6.7 | 60.65 |
| INC1100 | UPL LTR#2 | 26-04-2019 18:12 | G101AY-8515 | 11.24 | 6219200076 | TANKER | AQUEOUS | 898 | 3.29 | 2.01 | 88.76 | 2.38 | 5.57 | 76.98 |
| INC1321 | UPL LTR#2 | 26-04-2019 16:26 | G116Z-7746 | 6.63 | 6219200076 | DRUMS | SOLID | 4718 | 2.5 | 8.4 | 15.02 | 18.19 | 3.83 | |
| INC1097 | UPL LTR#2 | 27-04-2019 16:53 | G112X-1193 | 14.27 | 6219200076 | TANKER | AQUEOUS | 744 | 2.02 | 8.94 | 58.76 | 7.2 | 2.14 | 40.76 |
| INC1323 | UPL LTR#2 | 27-04-2019 10:37 | G106Z-4878 | 1.49 | 6219200076 | DRUMS | SOLID | 5340 | 2.02 | 0.0012 | 9.73 | 1.97 | 4 | |
| INC1325 | UPL LTR#2 | 27-04-2019 18:06 | G116Z-7746 | 6.88 | 6219200076 | DRUMS | AQUEOUS | 746 | 2.54 | 0.962 | 90.19 | 1.07 | 5.7 | 88.19 |
| INC1322 | UPL LTR#2 | 27-04-2019 18:18 | G106Z-4878 | 5.42 | 6219200076 | DRUMS | SOLID | 3197 | 4.22 | 13.1 | 7.79 | 1.81 | 4 | |
| INC1322 | UPL LTR#2 | 29-04-2019 17:08 | G102Y-4046 | 16.37 | 6219200076 | TANKER | AQUEOUS | 769 | 2.4 | 7.97 | 62.76 | 5.44 | 2.13 | 46.26 |
| INC1324 | UPL LTR#2 | 29-04-2019 17:38 | G102X-3942 | 15.55 | 6219200076 | TANKER | AQUEOUS | 815 | 3.02 | 9.46 | 56.79 | 6.22 | 2.1 | 32.56 |
| INC1329 | UPL LTR#2 | 29-04-2019 17:01 | G106Z-4878 | 2.05 | 6219200076 | DRUMS | SOLID | 2309 | 2.12 | 2.2 | 12.79 | 19.09 | 3.8 | |
| INC1328 | UPL LTR#2 | 29-04-2019 17:15 | G116Z-7746 | 4.24 | 6219200076 | DRUMS | OLW | 4380 | 3.03 | 7.8 | 78.89 | 1.03 | 3.43 | 23.79 |
| INC1327 | UPL LTR#2 | 30-04-2019 18:10 | G101AY-8515 | 14.02 | 6219200076 | TANKER | AQUEOUS | 943 | 1.64 | 7.82 | 64.09 | 6.04 | 2.7 | 34.16 |
| INC1331 | UPL LTR#2 | 30-04-2019 17:13 | G106X-7795 | 12.38 | 6219200076 | TANKER | AQUEOUS | 1182 | 3.53 | 6.87 | 81.15 | 1.82 | 6.29 | 60.95 |
| INC1330 | UPL LTR#2 | 01-05-2019 16:50 | G112X-1193 | 13.83 | 6219200119 | TANKER | AQUEOUS | 1057 | 2.88 | 7.43 | 59.63 | 6.03 | 2.1 | 39.72 |
| INC1366 | UPL LTR#2 | 02-05-2019 18:03 | G102Y-4046 | 15.37 | 6219200119 | TANKER | AQUEOUS | 695 | 1.99 | 8.07 | 56.67 | 5.22 | 2.14 | 33.44 |
| INC1367 | UPL LTR#2 | 03-05-2019 15:17 | G102X-3942 | 15.21 | 6219200119 | TANKER | AQUEOUS | 841 | 2.59 | 8.1 | 58.5 | 6.13 | 1.94 | 37.65 |
| INC1369 | UPL LTR#2 | 03-05-2019 11:38 | G116Z-1824 | 18.12 | 6219200119 | TANKER | OLW | 4057 | 2.25 | 9.41 | 84.64 | 0.86 | 2.37 | 3.21 |
| INC1368 | UPL LTR#2 | 04-05-2019 12:48 | G101AY-8515 | 13.35 | 6219200119 | TANKER | AQUEOUS | 766 | 2.5 | 8.02 | 54.13 | 7.13 | 1.97 | 35.26 |
| INC1370 | UPL LTR#2 | 04-05-2019 18:33 | G112X-1193 | 14.15 | 6219200119 | TANKER | AQUEOUS | 712 | 2.65 | 7.23 | 51.27 | 7.13 | 1.65 | 33.22 |
| INC1332 | UPL LTR#2 | 05-05-2019 16:48 | G102Y-4046 | 15.34 | 6219200119 | TANKER | AQUEOUS | 729 | 2.47 | 7.33 | 54.17 | 7.05 | 1.63 | 35.11 |
| INC1333 | UPL LTR#2 | 05-05-2019 18:01 | G106X-7795 | 19.57 | 6219200119 | TANKER | OLW | 4228 | 2.52 | 8.86 | 81.29 | 1.03 | 2.03 | 4.32 |
| INC1334 | UPL LTR#2 | 06-05-2019 14:13 | G116Z-1824 | 19.37 | 6219200119 | TANKER | OLW | 4040 | 2.51 | 8.51 | 83.13 | 0.97 | 2.22 | 5.52 |
| INC1335 | UPL LTR#2 | 06-05-2019 16:55 | G101AY-8515 | 13.59 | 6219200119 | TANKER | AQUEOUS | 749 | 2.01 | 8.89 | 52.17 | 7.49 | 1.54 | 25.94 |
| INC1336 | UPL LTR#2 | 07-05-2019 16:23 | G102X-3942 | 12.05 | 6219200119 | TANKER | AQUEOUS | 819 | 2.61 | 8.01 | 53.95 | 7.17 | 1.69 | 29.85 |
| INC1337 | UPL LTR#2 | 07-05-2019 16:25 | G106X-7795 | 18.66 | 6219200119 | TANKER | OLW | 4019 | 2.61 | 7.79 | 84.27 | 0.87 | 2.26 | 5.55 |
| INC1338 | UPL LTR#2 | 07-05-2019 17:28 | G112X-1193 | 12.65 | 6219200119 | TANKER | AQUEOUS | 967 | 2.62 | 8.39 | 54.15 | 7.12 | 2.34 | 34.34 |

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|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC1339 | UPL LTR#2 | 09-05-2019 13:14 | G102Y-4046 | 13.34 | 6219200119 | TANKER | AQUEOUS | 765 | 2.47 | 9.91 | 54.42 | 7.22 | 1.75 | 27.19 |
| INC1342 | UPL LTR#2 | 09-05-2019 13:17 | G116Z-1824 | 19.69 | 6219200119 | TANKER | OLW | 4150 | 2.12 | 9.73 | 84.61 | 0.9 | 2.86 | 4.51 |
| INC1340 | UPL LTR#2 | 09-05-2019 15:10 | G106X-7995 | 13.25 | 6219200119 | TANKER | AQUEOUS | 1584 | 2.06 | 15.5 | 72.15 | 2.15 | 6.02 | 50.53 |
| INC1343 | UPL LTR#2 | 10-05-2019 11:11 | G116Z-7746 | 6.69 | 6219200119 | DRUMS | SEMI-SOLID | 4463 | 1.92 | 11.5 | 66.36 | 5.4 | 5 | |
| INC1344 | UPL LTR#2 | 10-05-2019 19:06 | G106X-7795 | 19.83 | 6219200119 | TANKER | OLW | 4152 | 2.29 | 9.64 | 81.02 | 1.02 | 2.32 | 2.22 |
| INC1345 | UPL LTR#2 | 11-05-2019 09:54 | G112X-1193 | 14.32 | 6219200160 | TANKER | AQUEOUS | 794 | 2.31 | 8.25 | 54.16 | 7.15 | 1.64 | 31.08 |
| INC1346 | UPL LTR#2 | 11-05-2019 16:13 | G106Z-4878 | 1.22 | 6219200160 | DRUMS | OLW | 6422 | 2.65 | 0.067 | 72.13 | 1.07 | 5.47 | 28.64 |
| INC1348 | UPL LTR#2 | 11-05-2019 13:58 | G116Z-1824 | 19 | 6219200160 | TANKER | OLW | 4302 | 2.57 | 10.5 | 79.17 | 0.82 | 2.32 | 4.04 |
| INC1347 | UPL LTR#2 | 12-05-2019 11:07 | G116Z-7746 | 1.98 | 6219200160 | DRUMS | AQUEOUS | 746 | 2.33 | 9.56 | 66.12 | 1.17 | 2.09 | 54.91 |
| INC1349 | UPL LTR#2 | 12-05-2019 12:07 | G102Y-4046 | 14.18 | 6219200160 | TANKER | AQUEOUS | 749 | 2.29 | 7.39 | 57.17 | 7.63 | 2.1 | 38.23 |
| INC1351 | UPL LTR#2 | 13-05-2019 15:16 | G116Z-1824 | 19.95 | 6219200160 | TANKER | OLW | 3824 | 2.5 | 8.81 | 78.19 | 1.44 | 1.98 | 4.04 |
| INC1350 | UPL LTR#2 | 13-05-2019 12:51 | G102Z-3942 | 15.26 | 6219200160 | TANKER | AQUEOUS | 680 | 1.96 | 8.91 | 58.3 | 8.32 | 1.86 | 34.34 |
| INC1352 | UPL LTR#2 | 13-05-2019 19:01 | G101AY-8515 | 13.29 | 6219200160 | TANKER | AQUEOUS | 982 | 1.91 | 8.09 | 56.77 | 7.4 | 2.28 | 34.42 |
| INC1353 | UPL LTR#2 | 14-05-2019 17:18 | G106X-7995 | 12.04 | 6219200160 | TANKER | AQUEOUS | 932 | 2.93 | 16.6 | 94.16 | 1.64 | 7.46 | 76.46 |
| INC1354 | UPL LTR#2 | 15-05-2019 13:56 | G112X-1193 | 12.81 | 6219200160 | TANKER | AQUEOUS | 748 | 2.82 | 10.4 | 58.15 | 7.62 | 2.01 | 26.9 |
| INC1355 | UPL LTR#2 | 15-05-2019 12:12 | G116Z-1824 | 19.69 | 6219200160 | TANKER | OLW | 4180 | 2.89 | 9.87 | 83.13 | 0.91 | 2.4 | 4.8 |
| INC1356 | UPL LTR#2 | 16-05-2019 15:09 | G102X-3942 | 12.47 | 6219200160 | TANKER | AQUEOUS | 769 | 2.42 | 8.02 | 54.35 | 5.5 | 2.84 | 24.89 |
| INC1357 | UPL LTR#2 | 16-05-2019 16:47 | G101AY-8515 | 14.15 | 6219200160 | TANKER | AQUEOUS | 874 | 2.03 | 8.27 | 7.13 | 7.13 | 2.88 | 30.75 |
| INC1358 | UPL LTR#2 | 18-05-2019 18:08 | G112X-1193 | 17.01 | 6219200160 | TANKER | AQUEOUS | 746 | 2.31 | 7.21 | 53.23 | 7.13 | 2.33 | 26.84 |
| INC1359 | UPL LTR#2 | 20-05-2019 17:38 | G102Y-4046 | 10.44 | 6219200160 | TANKER | AQUEOUS | 757 | 2.4 | 8.57 | 88.17 | 6.47 | 2.22 | 32.12 |
| INC1360 | UPL LTR#2 | 21-05-2019 17:23 | G101AY-8515 | 12.16 | 6219200202 | TANKER | AQUEOUS | 903 | 1.85 | 8.59 | 54.17 | 6.92 | 2.01 | 34.19 |
| INC1361 | UPL LTR#2 | 23-05-2019 11:50 | G102X-3942 | 17.98 | 6219200202 | TANKER | AQUEOUS | 741 | 2.44 | 8.85 | 58.97 | 6.25 | 1.57 | 30.05 |
| INC1362 | UPL LTR#2 | 25-05-2019 18:01 | G112X-1193 | 15.96 | 6219200202 | TANKER | AQUEOUS | 811 | 2.13 | 8.01 | 58.61 | 6.13 | 1.79 | 39.69 |
| INC1365 | UPL LTR#2 | 26-05-2019 11:35 | G116Z-7746 | 6.53 | 6219200202 | DRUMS | SOLID | 4682 | 4.64 | 8.23 | 15.19 | 3.02 | 4 | |
| INC1364 | UPL LTR#2 | 26-05-2019 16:52 | G102Y-4046 | 14.19 | 6219200202 | TANKER | AQUEOUS | 892 | 1.9 | 7.88 | 56.79 | 6.25 | 1.76 | 40.31 |
| INC1363 | UPL LTR#2 | 26-05-2019 12:01 | G106X-7795 | 19.36 | 6219200202 | TANKER | OLW | 3789 | 2.81 | 8.39 | 82.36 | 1.79 | 2.39 | 2.07 |
| INC1604 | UPL LTR#2 | 27-05-2019 17:52 | G116Z-7746 | 2.94 | 6219200202 | DRUMS | OLW | 4933 | 3.58 | 1.08 | 82.39 | 0.87 | 1.2 | 2.14 |
| INC1601 | UPL LTR#2 | 28-05-2019 13:34 | G101AY-8515 | 14.33 | 6219200202 | TANKER | AQUEOUS | 725 | 2.52 | 8.48 | 57.41 | 6.97 | 2.83 | 28.86 |
| INC1602 | UPL LTR#2 | 28-05-2019 13:39 | G106X-7995 | 13.31 | 6219200202 | TANKER | AQUEOUS | 1065 | 3.32 | 7.21 | 58.65 | 1.97 | 8.3 | 43.38 |
| INC1606 | UPL LTR#2 | 28-05-2019 18:45 | G112X-1193 | 15.78 | 6219200202 | TANKER | AQUEOUS | 873 | 2.23 | 8.89 | 54.97 | 7.11 | 2.85 | 32.59 |
| INC1605 | UPL LTR#2 | 29-05-2019 08:39 | G116Z-1824 | 19.7 | 6219200202 | TANKER | OLW | 4200 | 2.5 | 8.89 | 81.29 | 1.59 | 2.39 | 1.67 |
| INC1603 | UPL LTR#2 | 30-05-2019 17:41 | G102X-3942 | 15.14 | 6219200202 | TANKER | AQUEOUS | 689 | 2.23 | 9.41 | 54.65 | 7.29 | 1.69 | 32.7 |
| INC1607 | UPL LTR#2 | 30-05-2019 13:17 | G106X-7995 | 19.64 | 6219200202 | TANKER | OLW | 4031 | 2.36 | 8.78 | 86.13 | 0.81 | 2.12 | 1.86 |
| INC1608 | UPL LTR#2 | 30-05-2019 19:33 | G102Y-4046 | 15.05 | 6219200202 | TANKER | AQUEOUS | 772 | 2.31 | 8.23 | 56.15 | 6.92 | 2.9 | 26.94 |
| INC1610 | UPL LTR#2 | 31-05-2019 11:36 | G116Z-1824 | 19.53 | 6219200202 | TANKER | OLW | 4163 | 2.32 | 8.42 | 81.93 | 1.59 | 3.29 | 2.99 |
| INC1609 | UPL LTR#2 | 01-06-2019 12:56 | G101AY-8515 | 13.53 | 6219200241 | TANKER | AQUEOUS | 769 | 2.32 | 9.01 | 55.34 | 7.12 | 2.8 | 26.41 |
| INC1612 | UPL LTR#2 | 01-06-2019 17:07 | G106X-7795 | 19.51 | 6219200241 | TANKER | OLW | 3997 | 2.4 | 9.46 | 84.46 | 1.15 | 2.4 | 4.8 |
| INC1613 | UPL LTR#2 | 01-06-2019 17:14 | G106Z-4878 | 5.53 | 6219200241 | DRUMS | SOLID | 4793 | 1.65 | 8.94 | 16.79 | 1.1 | 3.4 | |
| INC1611 | UPL LTR#2 | 02-06-2019 18:36 | G112X-1193 | 15.66 | 6219200241 | DRUMS | AQUEOUS | 691 | 2.35 | 9.88 | 54.4 | 7.15 | 1.69 | 36.32 |
| INC1565 | UPL LTR#2 | 02-06-2019 16:09 | G107T-6378 | 3.85 | 6219200241 | DRUMS | OLW | 4587 | 1.89 | 3.46 | 88.18 | 0.97 | 9.4 | 16.81 |
| INC1567 | UPL LTR#2 | 02-06-2019 17:24 | G116Z-1824 | 19.88 | 6219200241 | TANKER | OLW | 3874 | 2.3 | 9.54 | 81.49 | 2.13 | 1.92 | 4.08 |
| INC1564 | UPL LTR#2 | 03-06-2019 18:03 | G102Y-4046 | 12.72 | 6219200241 | TANKER | AQUEOUS | 835 | 1.56 | 8.86 | 57.56 | 6.73 | 2.2 | 30.75 |
| INC1569 | UPL LTR#2 | 03-06-2019 17:59 | G106X-7795 | 19.22 | 6219200241 | TANKER | OLW | 4605 | 2.26 | 9.46 | 81.36 | 1.76 | 2.09 | 7.61 |
| INC1566 | UPL LTR#2 | 04-06-2019 11:59 | G102X-3942 | 14.39 | 6219200241 | TANKER | AQUEOUS | 782 | 2.32 | 8.98 | 59.6 | 7.02 | 2.18 | 35.52 |
| INC1568 | UPL LTR#2 | 04-06-2019 18:46 | G101AY-8515 | 12.91 | 6219200241 | TANKER | AQUEOUS | 828 | 1.83 | 8.84 | 58.19 | 6.76 | 2.19 | 34.06 |
| INC1570 | UPL LTR#2 | 04-06-2019 12:03 | G106Z-4878 | 1.52 | 6219200241 | DRUMS | OLW | 5069 | 2.93 | 10.05 | 84.65 | 2.02 | 3.18 | 5.41 |
| INC1572 | UPL LTR#2 | 05-06-2019 16:02 | G116Z-7746 | 1.63 | 6219200241 | DRUMS | OLW | 5352 | 3.02 | 1.09 | 84.16 | 1.19 | 1.09 | 6.87 |
| INC1573 | UPL LTR#2 | 05-06-2019 17:55 | G116Z-1824 | 19.61 | 6219200241 | TANKER | OLW | 4695 | 1.8 | 8.27 | 81.03 | 1.13 | 2.19 | 8.15 |
| LF1571 | UPL LTR#2 | 06-06-2019 18:05 | G112X-1193 | 13.85 | 6219200241 | TANKER | AQUEOUS | 700 | 2.2 | 8.94 | 55.16 | 7.12 | 1.9 | 36.78 |
| INC1574 | UPL LTR#2 | 06-06-2019 18:52 | G102Y-4046 | 12.74 | 6219200241 | TANKER | AQUEOUS | 735 | 2.09 | 9.11 | 54.16 | 7.17 | 1.94 | 38.36 |
| INC1575 | UPL LTR#2 | 06-06-2019 18:02 | G106X-7795 | 19.81 | 6219200241 | TANKER | OLW | 4056 | 1.79 | 8.59 | 88.69 | 2.03 | 2.19 | 3.67 |
| INC1576 | UPL LTR#2 | 07-06-2019 18:43 | G102X-3942 | 13.03 | 6219200241 | TANKER | AQUEOUS | 807 | 2.3 | 8.26 | 56.73 | 7.02 | 1.92 | 32.2 |
| INC1577 | UPL LTR#2 | 08-06-2019 17:44 | G116Z-1824 | 19.42 | 6219200241 | TANKER | OLW | 4044 | 2.4 | 9.16 | 83.29 | 1.55 | 3.29 | 7.89 |
| INC1578 | UPL LTR#2 | 08-06-2019 17:30 | G106X-7795 | 19.03 | 6219200241 | TANKER | OLW | 4255 | 2.73 | 8.98 | 82.06 | 1.44 | 4 | 6.91 |
| INC1579 | UPL LTR#2 | 09-06-2019 11:39 | G101AY-8515 | 14.19 | 6219200241 | TANKER | AQUEOUS | 711 | 1.93 | 8.89 | 56.37 | 6.9 | 3.82 | 34.41 |
| INC1580 | UPL LTR#2 | 10-06-2019 12:44 | G112X-1193 | 12.65 | 6219200241 | TANKER | AQUEOUS | 802 | 1.68 | 8.34 | 51.3 | 6.13 | 3.96 | 33.19 |
| INC1581 | UPL LTR#2 | 10-06-2019 17:16 | G116Z-1824 | 19.6 | 6219200241 | TANKER | OLW | 4836 | 2.13 | 8.2 | 82.02 | 2.02 | 2.19 | 7.34 |
| INC1583 | UPL LTR#2 | 11-06-2019 12:58 | G102Y-4046 | 12.58 | 6219200287 | TANKER | AQUEOUS | 796 | 2.02 | 8.73 | 54.08 | 6.38 | 2.89 | 29.18 |
| INC1584 | UPL LTR#2 | 11-06-2019 16:24 | G116Z-7746 | 5.73 | 6219200287 | DRUMS | SOLID | 4005 | 2.23 | 2.32 | 16.42 | 6.13 | 4 | |
| INC1585 | UPL LTR#2 | 11-06-2019 17:23 | G106X-7795 | 19.54 | 6219200287 | TANKER | OLW | 3639 | 2.44 | 9.04 | 81.09 | 1.26 | 2.39 | 6.16 |
| INC1587 | UPL LTR#2 | 12-06-2019 12:01 | G116Z-1824 | 19.39 | 6219200287 | TANKER | OLW | 3805 | 1.94 | 8.91 | 82.3 | 1.8 | 2.2 | 7.84 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|-------|------------------|--|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT | |
| INC1586 | UPL LTR#2 | 12-06-2019 17:53 | G102X-3942 | 14.17 | 6219200287 | TANKER | AQUEOUS | 744 | 1.73 | 8.01 | 58.17 | 5.89 | 2.21 | 32.56 | |
| INC1582 | UPL LTR#2 | 12-06-2019 18:24 | G106X-7995 | 12.88 | 6219200287 | TANKER | AQUEOUS | 1010 | 2.28 | 9.88 | 89.1 | 1.12 | 11.11 | 75.89 | |
| INC1589 | UPL LTR#2 | 13-06-2019 14:49 | G116Z-7746 | 3.33 | 6219200287 | DRUMS | AQUEOUS | 812 | 7.14 | 1.88 | 69.09 | 3.01 | 9.69 | 56.43 | |
| INC1588 | UPL LTR#2 | 14-06-2019 12:13 | G101AY-8515 | 14.85 | 6219200287 | TANKER | AQUEOUS | 763 | 2.15 | 8.95 | 60.12 | 6.22 | 2.84 | 37.17 | |
| INC1590 | UPL LTR#2 | 15-06-2019 12:22 | G112X-1193 | 17.64 | 6219200287 | TANKER | AQUEOUS | 728 | 2.72 | 9.21 | 58.12 | 7.12 | 2.3 | 33.45 | |
| INC1592 | UPL LTR#2 | 15-06-2019 17:10 | G116Z-7746 | 5.48 | 6219200287 | DRUMS | AQUEOUS | 522 | 4.17 | 2.46 | 69.11 | 4.13 | 9.56 | 52.45 | |
| INC1591 | UPL LTR#2 | 16-06-2019 17:28 | G102Y-4046 | 14.04 | 6219200287 | TANKER | AQUEOUS | 749 | 2.36 | 8.94 | 55.13 | 6.02 | 2.23 | 28.34 | |
| INC1593 | UPL LTR#2 | 18-06-2019 17:56 | G102X-3942 | 14.97 | 6219200287 | TANKER | AQUEOUS | 745 | 1.31 | 7.78 | 56.13 | 6.45 | 2.6 | 32.49 | |
| INC1594 | UPL LTR#2 | 19-06-2019 11:04 | G116Z-7746 | 2.78 | 6219200287 | DRUMS | OLW | 3603 | 3.3 | 1.21 | 80.13 | 1.82 | 4.22 | 16.9 | |
| INC1597 | UPL LTR#2 | 20-06-2019 15:15 | G116Z-7746 | 5.34 | 6219200287 | DRUMS | SOLID | 4649 | 1.43 | 7.21 | 3.83 | 40.29 | 3.56 | | |
| INC1595 | UPL LTR#2 | 21-06-2019 12:24 | G101AY-8515 | 15.25 | 6219200336 | TANKER | AQUEOUS | 908 | 2.63 | 7.77 | 58.73 | 5.79 | 2.68 | 39.8 | |
| INC1599 | UPL LTR#2 | 21-06-2019 13:24 | G106X-7795 | 19.41 | 6219200336 | TANKER | OLW | 3937 | 3.47 | 9.11 | 66.76 | 1.99 | 1.29 | 3.15 | |
| INC1598 | UPL LTR#2 | 22-06-2019 18:22 | G112X-1193 | 14.87 | 6219200336 | TANKER | AQUEOUS | 857 | 2.44 | 7.76 | 55.13 | 6.02 | 2.88 | 39.64 | |
| INC1600 | UPL LTR#2 | 24-06-2019 10:20 | G102Y-4046 | 15.09 | 6219200336 | TANKER | AQUEOUS | 801 | 1.71 | 7.47 | 56.9 | 6.32 | 2.46 | 31.54 | |
| INC2049 | UPL LTR#2 | 24-06-2019 09:26 | G116Z-1824 | 19.81 | 6219200336 | TANKER | OLW | 3970 | 2.93 | 8.97 | 88.07 | 4.17 | 2.2 | 4.41 | |
| INC2052 | UPL LTR#2 | 24-06-2019 16:46 | G106X-7795 | 19.58 | 6219200336 | TANKER | OLW | 4199 | 2.45 | 9.08 | 82.39 | 2.13 | 1.89 | 2.96 | |
| INC2050 | UPL LTR#2 | 24-06-2019 18:26 | G102X-3942 | 15.16 | 6219200336 | TANKER | AQUEOUS | 850 | 2.05 | 8.91 | 58.3 | 6.22 | 2.2 | 28.34 | |
| INC2051 | UPL LTR#2 | 25-06-2019 18:10 | G101AY-8515 | 16.14 | 6219200336 | TANKER | AQUEOUS | 779 | 1.66 | 8.86 | 55.13 | 6.39 | 2.44 | 31.62 | |
| INC2053 | UPL LTR#2 | 26-06-2019 18:05 | G112X-1193 | 15.44 | 6219200336 | TANKER | AQUEOUS | 840 | 2.51 | 8.95 | 56.75 | 6.57 | 2.2 | 30.5 | |
| INC2054 | UPL LTR#2 | 26-06-2019 08:08 | G116Z-1824 | 19.49 | 6219200336 | TANKER | OLW | 4161 | 2.84 | 9.11 | 84.62 | 0.83 | 2.16 | 4.28 | |
| INC2055 | UPL LTR#2 | 27-06-2019 17:02 | G102Y-4046 | 14.64 | 6219200336 | TANKER | AQUEOUS | 801 | 2.29 | 7.26 | 54.13 | 5.9 | 2.68 | 24.15 | |
| INC2056 | UPL LTR#2 | 27-06-2019 17:16 | G106X-7795 | 19.16 | 6219200336 | TANKER | OLW | 3972 | 2.47 | 8.86 | 80.08 | 1.73 | 2.11 | 2.97 | |
| INC2057 | UPL LTR#2 | 28-06-2019 18:28 | G102X-3942 | 14.14 | 6219200336 | TANKER | AQUEOUS | 828 | 1.88 | 8.89 | 58.62 | 6.8 | 2.19 | 32.88 | |
| INC2058 | UPL LTR#2 | 28-06-2019 10:46 | G107T-6378 | 1.98 | 6219200336 | DRUMS | OLW | 5320 | 1.85 | 1.32 | 88.62 | 1.01 | 1.46 | 3.42 | |
| INC2059 | UPL LTR#2 | 28-06-2019 16:45 | G116Z-1824 | 19.18 | 6219200336 | TANKER | OLW | 3775 | 2.11 | 8.19 | 80.81 | 1.13 | 2.16 | 2.97 | |
| INC2060 | UPL LTR#2 | 29-06-2019 17:22 | G101AY-8515 | 15.1 | 6219200336 | TANKER | AQUEOUS | 757 | 2.26 | 8.7 | 54.97 | 6.93 | 2.29 | 33.19 | |
| INC2061 | UPL LTR#2 | 29-06-2019 18:12 | G106X-7795 | 19.5 | 6219200336 | TANKER | OLW | 4400 | 2.59 | 8.97 | 84.42 | 1.11 | 2.21 | 3.3 | |
| INC2062 | UPL LTR#2 | 01-07-2019 17:22 | G112X-1193 | 15 | 6219200380 | TANKER | AQUEOUS | 781 | 2.6 | 8.75 | 56.59 | 6.72 | 2.18 | 32.65 | |
| INC2063 | UPL LTR#2 | 01-07-2019 12:37 | G116Z-1824 | 19.77 | 6219200380 | TANKER | OLW | 3908 | 2.71 | 9.07 | 84.11 | 1.75 | 2.12 | 4.07 | |
| INC2066 | UPL LTR#2 | 02-07-2019 17:06 | G106X-7795 | 18.99 | 6219200380 | TANKER | OLW | 3868 | 2.91 | 8.97 | 85.37 | 2.17 | 2.16 | 6.18 | |
| INC2067 | UPL LTR#2 | 03-07-2019 12:58 | G101AY-8515 | 9.34 | 6219200380 | TANKER | AQUEOUS | 829 | 2.56 | 3.57 | 84.31 | 1.05 | 4.32 | 75.75 | |
| INC2068 | UPL LTR#2 | 03-07-2019 15:53 | G116Z-1824 | 19.03 | 6219200380 | TANKER | OLW | 4755 | 2.32 | 8.36 | 81.03 | 2.09 | 2.06 | 3.15 | |
| INC2064 | UPL LTR#2 | 04-07-2019 15:40 | G102Y-4046 | 15.08 | 6219200380 | TANKER | AQUEOUS | 766 | 2.06 | 7.01 | 61.62 | 5.21 | 2.28 | 29.27 | |
| INC2071 | UPL LTR#2 | 04-07-2019 11:13 | G106X-7795 | 18.83 | 6219200380 | TANKER | OLW | 4211 | 2.19 | 8.59 | 82.13 | 1.03 | 2.18 | 4.91 | |
| INC2069 | UPL LTR#2 | 04-07-2019 17:26 | G106X-7995 | 11.97 | 6219200380 | TANKER | AQUEOUS | 1037 | 3.68 | 11.21 | 80.52 | 1.89 | 11.04 | 71.94 | |
| INC2072 | UPL LTR#2 | 04-07-2019 17:30 | G116Z-1824 | 18.7 | 6219200380 | TANKER | OLW | 4861 | 2.26 | 9.2 | 81.82 | 1.63 | 2.42 | 5.1 | |
| INC2075 | UPL LTR#2 | 05-07-2019 16:46 | G102X-3942 | 14.6 | 6219200380 | TANKER | AQUEOUS | 770 | 1.68 | 8.85 | 56.71 | 7.67 | 2.1 | 29.62 | |
| INC2074 | UPL LTR#2 | 06-07-2019 12:05 | G106X-7795 | 18.6 | 6219200380 | TANKER | OLW | 4486 | 1.94 | 8.98 | 85.21 | 2.08 | 2.12 | 4.83 | |
| INC2075 | UPL LTR#2 | 06-07-2019 16:49 | G107T-6378 | 3.05 | 6219200380 | DRUMS | OLW | 5779 | 2.06 | 2.03 | 85.23 | 1.22 | 2.09 | 3.69 | |
| INC2077 | UPL LTR#2 | 06-07-2019 17:32 | G116Z-1824 | 19.03 | 6219200380 | TANKER | OLW | 3866 | 1.83 | 7.3 | 83.59 | 1.74 | 2.39 | 3.54 | |
| INC2070 | UPL LTR#2 | 07-07-2019 15:46 | G112X-1193 | 17.33 | 6219200380 | TANKER | AQUEOUS | 773 | 2.19 | 9.08 | 54.12 | 6.97 | 2.26 | 29.86 | |
| INC2078 | UPL LTR#2 | 07-07-2019 16:14 | G107T-6378 | 2.15 | 6219200380 | DRUMS | AQUEOUS | 1151 | 3.1 | 2.96 | 65.13 | 2.9 | 2.7 | 50.63 | |
| INC2073 | UPL LTR#2 | 08-07-2019 15:18 | G101AY-8515 | 15.26 | 6219200380 | TANKER | AQUEOUS | 704 | 1.93 | 8.87 | 58.92 | 6.07 | 2.49 | 31.2 | |
| INC2079 | UPL LTR#2 | 08-07-2019 12:16 | G106X-7795 | 18.81 | 6219200380 | TANKER | OLW | 4404 | 2.22 | 8.29 | 81.06 | 2.02 | 2.14 | 5 | |
| INC2081 | UPL LTR#2 | 09-07-2019 12:08 | G116Z-1824 | 19.08 | 6219200380 | TANKER | OLW | 4473 | 3.39 | 9.13 | 82.25 | 2.68 | 2.22 | 6.33 | |
| INC2082 | UPL LTR#2 | 09-07-2019 18:10 | G107T-6378 | 3.07 | 6219200380 | DRUMS | AQUEOUS | 927 | 2.67 | 0.95 | 88.11 | 2.14 | 7.88 | 71.04 | |
| INC2076 | UPL LTR#2 | 10-07-2019 11:00 | G102Y-4046 | 14.89 | 6219200380 | TANKER | AQUEOUS | 794 | 2.08 | 8.8 | 58.7 | 6.09 | 2.2 | 23.12 | |
| INC2084 | UPL LTR#2 | 10-07-2019 11:31 | G106X-7795 | 18.7 | 6219200380 | TANKER | OLW | 4368 | 3.32 | 8.98 | 80.25 | 2.81 | 2.38 | 5.04 | |
| INC2086 | UPL LTR#2 | 11-07-2019 16:33 | G116Z-1824 | 19.14 | 6219200407 | TANKER | OLW | 3953 | 2.43 | 8.446 | 77.09 | 1.03 | 3.4 | 4.56 | |
| INC2080 | UPL LTR#2 | 12-07-2019 13:42 | G102X-3942 | 15.49 | 6219200407 | TANKER | AQUEOUS | 900 | 2.23 | 8.89 | 58.69 | 6.53 | 2.62 | 35.22 | |
| INC2088 | UPL LTR#2 | 12-07-2019 18:11 | G106X-7795 | 19.57 | 6219200407 | TANKER | OLW | 4380 | 3.28 | 9.11 | 78.87 | 4.27 | 2.16 | 4.83 | |
| INC2083 | UPL LTR#2 | 13-07-2019 18:51 | G112X-1193 | 16.19 | 6219200407 | TANKER | AQUEOUS | 806 | 1.64 | 8.66 | 58.59 | 6.53 | 2.44 | 36.31 | |
| INC2089 | UPL LTR#2 | 13-07-2019 17:18 | G116Z-1824 | 19.62 | 6219200407 | TANKER | OLW | 4477 | 2.44 | 8.93 | 84.08 | 3.07 | 2.18 | 3 | |
| INC2085 | UPL LTR#2 | 14-07-2019 17:45 | G101AY-8515 | 14.99 | 6219200407 | TANKER | AQUEOUS | 1315 | 2.26 | 7.54 | 58.79 | 2.26 | 2.4 | 32.31 | |
| INC2090 | UPL LTR#2 | 14-07-2019 18:43 | G106X-7795 | 18.72 | 6219200407 | TANKER | OLW | 4311 | 3.1 | 7.87 | 81.76 | 2.09 | 3.16 | 4.06 | |
| INC2092 | UPL LTR#2 | 15-07-2019 15:28 | G107T-6378 | 6.15 | 6219200407 | DRUMS | SOLID | 4310 | 2.42 | 8.77 | 20.66 | 3.16 | 4 | | |
| INC2087 | UPL LTR#2 | 16-07-2019 11:06 | G102Y-4046 | 13.75 | 6219200407 | TANKER | AQUEOUS | 921 | 2.23 | 7.89 | 57.12 | 7.12 | 1.96 | 32.49 | |
| INC2094 | UPL LTR#2 | 16-07-2019 18:27 | G116Z-1824 | 18.85 | 6219200407 | TANKER | OLW | 4158 | 3.23 | 8.92 | 84.18 | 0.92 | 2.24 | 4.52 | |
| INC2091 | UPL LTR#2 | 17-07-2019 15:18 | G102X-3942 | 12.35 | 6219200407 | TANKER | AQUEOUS | 887 | 2.02 | 8.81 | 54.16 | 6.09 | 3.32 | 28.17 | |
| INC2095 | UPL LTR#2 | 17-07-2019 13:09 | G106X-7795 | 18.81 | 6219200407 | TANKER | OLW | 4204 | 2.77 | 8.87 | 84.16 | 0.92 | 2.18 | 6.52 | |
| INC2098 | UPL LTR#2 | 17-07-2019 15:21 | G107T-6378 | 3.56 | 6219200407 | DRUMS | OLW | 6661 | 1.34 | 3.12 | 86.08 | 1.13 | 2.09 | 4.09 | |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC2097 | UPL LTR#2 | 17-07-2019 18:10 | G106X-7995 | 16.84 | 6219200407 | TANKER | OLW | 4752 | 1.34 | 8.88 | 78.08 | 2.14 | 2.29 | 2.8 |
| INC2093 | UPL LTR#2 | 18-07-2019 18:14 | G112X-1193 | 14.1 | 6219200407 | TANKER | AQUEOUS | 800 | 2.5 | 8.43 | 54.15 | 7.03 | 2.16 | 32.38 |
| INC2452 | UPL LTR#2 | 18-07-2019 18:57 | G116Z-1824 | 18.95 | 6219200407 | TANKER | OLW | 4433 | 2.95 | 8.93 | 75.09 | 3.09 | 2.24 | 3.01 |
| INC2096 | UPL LTR#2 | 19-07-2019 18:02 | G101AY-8515 | 15.02 | 6219200407 | TANKER | AQUEOUS | 793 | 1.73 | 8.45 | 57.11 | 5.74 | 2.64 | 31.4 |
| INC2454 | UPL LTR#2 | 19-07-2019 17:19 | G106X-7795 | 18.88 | 6219200407 | TANKER | OLW | 4245 | 1.75 | 8.96 | 85.17 | 1.49 | 2.64 | 3.45 |
| INC2457 | UPL LTR#2 | 20-07-2019 12:37 | G116Z-1824 | 19.02 | 6219200407 | TANKER | OLW | 4492 | 2.08 | 8.88 | 81.09 | 2.4 | 2.54 | 3.69 |
| INC2456 | UPL LTR#2 | 20-07-2019 11:10 | G107T-6378 | 10.64 | 6219200407 | DRUMS | AQUEOUS | 818 | 2.27 | 2.52 | 60.18 | 4.14 | 3.78 | 30.66 |
| INC2460 | UPL LTR#2 | 20-07-2019 18:38 | G107T-6378 | 9.57 | 6219200407 | DRUMS | AQUEOUS | 872 | 2.15 | 2.69 | 65.81 | 3.24 | 3.75 | 27.33 |
| INC2453 | UPL LTR#2 | 21-07-2019 17:10 | G102X-3942 | 13.35 | 6219200422 | TANKER | AQUEOUS | 884 | 1.29 | 8.78 | 82.56 | 6.4 | 3.68 | 27.01 |
| INC2463 | UPL LTR#2 | 21-07-2019 17:04 | G106X-7795 | 18.91 | 6219200422 | TANKER | OLW | 4513 | 2.08 | 8.32 | 88.09 | 1.23 | 2.36 | 2.19 |
| INC2464 | UPL LTR#2 | 21-07-2019 17:33 | G107T-6378 | 10.73 | 6219200422 | DRUMS | AQUEOUS | 704 | 2.31 | 2.89 | 65.78 | 5.79 | 3.7 | 25.57 |
| INC2461 | UPL LTR#2 | 22-07-2019 15:52 | G102Y-4046 | 13.95 | 6219200422 | TANKER | AQUEOUS | 969 | 2.1 | 9.45 | 54.31 | 5.81 | 3.38 | 28.28 |
| INC2462 | UPL LTR#2 | 23-07-2019 12:02 | G101AY-8515 | 13.26 | 6219200422 | TANKER | AQUEOUS | 881 | 2.01 | 9.81 | 56.19 | 6.22 | 3.36 | 24.16 |
| INC2465 | UPL LTR#2 | 23-07-2019 15:34 | G116Z-1824 | 18.92 | 6219200422 | TANKER | OLW | 4619 | 2.26 | 8.89 | 83.09 | 1.15 | 2.52 | 4.09 |
| INC2466 | UPL LTR#2 | 23-07-2019 17:47 | G112X-1193 | 13.91 | 6219200422 | TANKER | AQUEOUS | 790 | 1.85 | 8.76 | 58.07 | 5.66 | 2.4 | 26.56 |
| INC2468 | UPL LTR#2 | 23-07-2019 18:12 | G106X-7995 | 11.85 | 6219200422 | TANKER | AQUEOUS | 731 | 1.64 | 3.77 | 95.03 | 0.89 | 6.23 | 89.81 |
| INC2467 | UPL LTR#2 | 24-07-2019 18:15 | G106X-7795 | 18.89 | 6219200422 | TANKER | OLW | 4194 | 2.62 | 8.92 | 81.17 | 1.23 | 1.96 | 6.9 |
| INC2470 | UPL LTR#2 | 24-07-2019 10:53 | G107T-6378 | 11.02 | 6219200422 | DRUMS | AQUEOUS | 753 | 1.58 | 8.28 | 52.48 | 5.27 | 3.3 | 31.03 |
| INC2469 | UPL LTR#2 | 25-07-2019 13:09 | G116Z-1824 | 18.8 | 6219200422 | TANKER | OLW | 3919 | 1.07 | 8.11 | 82.53 | 1.79 | 2.29 | 3.56 |
| INC2471 | UPL LTR#2 | 25-07-2019 11:04 | G107T 6378 | 4.48 | 6219200422 | DRUMS | SOLID | 4508 | 2.23 | 14.18 | 7.22 | 1.24 | 4 | |
| INC2472 | UPL LTR#2 | 25-07-2019 16:37 | G101AY-8515 | 13.51 | 6219200422 | TANKER | AQUEOUS | 750 | 1.85 | 8.87 | 65.19 | 4.03 | 2.64 | 40.5 |
| INC2475 | UPL LTR#2 | 26-07-2019 12:34 | G106X-7795 | 18.88 | 6219200422 | TANKER | OLW | 4231 | 2.9 | 9.1 | 81.13 | 1.19 | 2.46 | 5.81 |
| INC2474 | UPL LTR#2 | 26-07-2019 11:15 | G107T-6378 | 10.42 | 6219200422 | DRUMS | AQUEOUS | 744 | 2.21 | 8.9 | 56.27 | 4.13 | 3.53 | 27.17 |
| INC2473 | UPL LTR#2 | 27-07-2019 17:38 | G106X-7995 | 16.2 | 6219200422 | TANKER | OLW | 4276 | 2.56 | 9.07 | 80.55 | 3.07 | 2.2 | 3.83 |
| INC2476 | UPL LTR#2 | 27-07-2019 12:45 | G102X-3942 | 15.03 | 6219200422 | TANKER | AQUEOUS | 749 | 2.22 | 8.92 | 58.21 | 5.99 | 2.94 | 29.12 |
| INC2478 | UPL LTR#2 | 27-07-2019 10:55 | G107T-6378 | 10.18 | 6219200422 | DRUMS | AQUEOUS | 793 | 0.94 | 7.48 | 54.59 | 5.96 | 3.42 | 28.9 |
| INC2477 | UPL LTR#2 | 28-07-2019 13:32 | G116Z-1824 | 18.8 | 6219200422 | DRUMS | OLW | 4317 | 3.27 | 8.95 | 80.19 | 2.13 | 2.2 | 3.42 |
| INC2480 | UPL LTR#2 | 28-07-2019 10:23 | G107T-6378 | 10.72 | 6219200422 | DRUMS | AQUEOUS | 691 | 1.2 | 7.21 | 56.79 | 6.13 | 3.09 | 30.74 |
| INC2481 | UPL LTR#2 | 29-07-2019 16:41 | G101AY-8515 | 14.6 | 6219200422 | TANKER | AQUEOUS | 676 | 2.79 | 8.4 | 58.19 | 6.03 | 3.01 | 30.47 |
| INC2483 | UPL LTR#2 | 29-07-2019 15:42 | G107T-6378 | 5.98 | 6219200422 | DRUMS | AQUEOUS | 750 | 1.96 | 8.84 | 58.79 | 6.13 | 3.06 | 31.95 |
| INC2479 | UPL LTR#2 | 30-07-2019 12:10 | G106X-7795 | 18.7 | 6219200422 | TANKER | OLW | 4116 | 1.68 | 8.89 | 89.13 | 2.18 | 2.46 | 2.72 |
| INC2486 | UPL LTR#2 | 30-07-2019 17:59 | G107T-6378 | 10.54 | 6219200422 | DRUMS | AQUEOUS | 770 | 2.11 | 7.86 | 57.03 | 6.82 | 3.38 | 38.1 |
| INC2482 | UPL LTR#2 | 31-07-2019 12:15 | G106X-7995 | 16.89 | 6219200422 | TANKER | OLW | 4195 | 2.52 | 8.91 | 81.27 | 1.39 | 2.32 | 3.12 |
| INC2485 | UPL LTR#2 | 31-07-2019 17:02 | G112X-1193 | 15.05 | 6219200422 | TANKER | AQUEOUS | 721 | 2.17 | 8.78 | 57.12 | 6.89 | 3.09 | 33.92 |
| INC2489 | UPL LTR#2 | 01-08-2019 12:25 | G101AY-8515 | 13.35 | 6219200438 | TANKER | AQUEOUS | 735 | 2.02 | 8.53 | 55.19 | 6.03 | 3.32 | 30.12 |
| INC2484 | UPL LTR#2 | 02-08-2019 09:50 | G116Z-1824 | 18.55 | 6219200438 | TANKER | OLW | 3734 | 2.62 | 8.96 | 86.02 | 0.97 | 2.39 | 2.63 |
| INC2487 | UPL LTR#2 | 03-08-2019 18:23 | G106X-7795 | 18.62 | 6219200438 | TANKER | OLW | 3916 | 2.76 | 8.97 | 80.63 | 1.42 | 2.44 | 3.51 |
| INC2491 | UPL LTR#2 | 03-08-2019 17:42 | G112X-1193 | 14 | 6219200438 | TANKER | AQUEOUS | 727 | 1.28 | 8.27 | 54.59 | 5.69 | 3.1 | 31.53 |
| INC2497 | UPL LTR#2 | 06-08-2019 16:42 | G111X-9909 | 12.76 | 6219200438 | DRUMS | AQUEOUS | 851 | 2.18 | 8.3 | 54.35 | 6.85 | 3.5 | 26.66 |
| INC2488 | UPL LTR#2 | 07-08-2019 17:41 | G102X-4046 | 10.63 | 6219200438 | TANKER | OLW | 4287 | 2.4 | 8.12 | 80.82 | 2.09 | 2.7 | 2.69 |
| INC2496 | UPL LTR#2 | 07-08-2019 16:43 | G107T-6378 | 11.2 | 6219200438 | DRUMS | AQUEOUS | 699 | 1.7 | 7.4 | 58.19 | 5.97 | 2.36 | 33.56 |
| INC2498 | UPL LTR#2 | 08-08-2019 17:25 | G106X-7995 | 16.51 | 6219200438 | TANKER | OLW | 3790 | 2.38 | 8.01 | 80.76 | 1.19 | 2.24 | 2.94 |
| INC2498 | UPL LTR#2 | 08-08-2019 18:03 | G107T-6378 | 11.34 | 6219200438 | DRUMS | AQUEOUS | 718 | 1.35 | 9.02 | 58.69 | 5.99 | 2.28 | 30.52 |
| INC2499 | UPL LTR#2 | 10-08-2019 10:56 | G106Z-4878 | 9.14 | 6219200438 | DRUMS | AQUEOUS | 805 | 2.01 | 9.77 | 60.18 | 6.02 | 2.8 | 32.8 |
| INC2500 | UPL LTR#2 | 10-08-2019 14:15 | G107T-6378 | 9.57 | 6219200438 | DRUMS | OLW | 3095 | 3.01 | 9.44 | 78.23 | 1.23 | 2.3 | 2.23 |
| INC2492 | UPL LTR#2 | 11-08-2019 17:51 | G116Z-1824 | 18.92 | 6219200457 | TANKER | OLW | 3878 | 2.32 | 8.85 | 79.82 | 2.13 | 2.16 | 2.41 |
| INC2352 | UPL LTR#2 | 11-08-2019 12:07 | G112X 3110 | 11.13 | 6219200457 | DRUMS | OLW | 3979 | 3.07 | 9.76 | 78.19 | 1.99 | 2.42 | 4.96 |
| INC2353 | UPL LTR#2 | 11-08-2019 12:27 | G106Z-4878 | 7.63 | 6219200457 | DRUMS | AQUEOUS | 893 | 1.91 | 9.04 | 59.09 | 6.02 | 2.16 | 38.76 |
| INC2494 | UPL LTR#2 | 12-08-2019 12:43 | G106X 7995 | 18.87 | 6219200457 | TANKER | OLW | 3624 | 2.91 | 8.95 | 84.69 | 0.91 | 2.16 | 3.31 |
| INC2354 | UPL LTR#2 | 12-08-2019 10:39 | G115UU-0187 | 11.41 | 6219200457 | DRUMS | OLW | 4401 | 2.55 | 9.4 | 79.13 | 2.05 | 2.2 | 4.35 |
| INC2355 | UPL LTR#2 | 12-08-2019 11:10 | G116Z-7746 | 6.97 | 6219200457 | DRUMS | OLW | 4393 | 2.94 | 10.8 | 80.19 | 2.42 | 2.26 | 4.35 |
| INC2357 | UPL LTR#2 | 12-08-2019 11:21 | G106Z-4878 | 6.73 | 6219200457 | DRUMS | OLW | 4428 | 2.63 | 11.5 | 81.09 | 1.99 | 2.4 | 5.31 |
| INC2358 | UPL LTR#2 | 12-08-2019 17:52 | G106Z-4878 | 7.89 | 6219200457 | DRUMS | OLW | 4412 | 2.42 | 9.44 | 83.2 | 1.13 | 2.2 | 3.93 |
| INC2356 | UPL LTR#2 | 13-08-2019 16:55 | G107T-6378 | 9.98 | 6219200457 | DRUMS | OLW | 4686 | 2.69 | 12 | 77.13 | 2.02 | 2.42 | 4.92 |
| INC2359 | UPL LTR#2 | 14-08-2019 10:21 | G106Z-4878 | 7.63 | 6219200457 | DRUMS | AQUEOUS | 730 | 1.94 | 8.98 | 51.66 | 6.15 | 2.24 | 32.5 |
| INC2363 | UPL LTR#2 | 14-08-2019 16:07 | G111X-9909 | 11.12 | 6219200457 | DRUMS | OLW | 3661 | 1.99 | 8.98 | 80.82 | 2.09 | 2.46 | 3.48 |
| INC2351 | UPL LTR#2 | 15-08-2019 17:33 | G106X-7995 | 16.88 | 6219200457 | TANKER | OLW | 4410 | 2.32 | 9.75 | 78.16 | 1.01 | 2.2 | 2.43 |
| INC2493 | UPL LTR#2 | 16-08-2019 18:16 | G112X-3942 | 16.96 | 6219200457 | TANKER | AQUEOUS | 783 | 1.41 | 8.55 | 54.19 | 6.93 | 2.2 | 35.39 |
| INC2361 | UPL LTR#2 | 16-08-2019 12:08 | G116Z-1824 | 19.73 | 6219200457 | TANKER | OLW | 3623 | 2.4 | 9.3 | 81.76 | 1.25 | 2.88 | 2.36 |
| INC2364 | UPL LTR#2 | 16-08-2019 11:15 | G106Z-4878 | 7.71 | 6219200457 | DRUMS | AQUEOUS | 859 | 2.59 | 9.23 | 58.62 | 6.63 | 3.07 | 28.52 |
| INC2366 | UPL LTR#2 | 17-08-2019 11:03 | G106Z-4878 | 7.51 | 6219200457 | DRUMS | AQUEOUS | 865 | 1.96 | 8.96 | 60.61 | 6.21 | 2.2 | 35.11 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL12 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|--|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC2367 | UPL LTR#2 | 17-08-2019 16:03 | G107T-6378 | 10.49 | 6219200457 | DRUMS | AQUEOUS | 889 | 2.24 | 8.98 | 58.61 | 6.23 | 3.12 | 36.34 |
| INC2365 | UPL LTR#2 | 18-08-2019 18:36 | G106X-7795 | 18.81 | 6219200457 | TANKER | OLW | 4577 | 2.77 | 9.54 | 78.19 | 2.04 | 2.26 | 2.54 |
| INC2370 | UPL LTR#2 | 19-08-2019 10:12 | G106Z-4878 | 7.77 | 6219200457 | DRUMS | AQUEOUS | 934 | 1.92 | 11.7 | 59.62 | 6.03 | 2.41 | 33.21 |
| INC2369 | UPL LTR#2 | 19-08-2019 12:19 | G106X-7995 | 16.66 | 6219200457 | TANKER | OLW | 4644 | 2.65 | 13.6 | 80.13 | 2.13 | 2.27 | 2.03 |
| INC2372 | UPL LTR#2 | 20-08-2019 10:38 | G116Z-7746 | 8.01 | 6219200457 | DRUMS | OLW | 4623 | 2.84 | 9.93 | 78.07 | 1.13 | 2.24 | 2.42 |
| INC2373 | UPL LTR#2 | 20-08-2019 10:49 | G107T-6378 | 9.57 | 6219200457 | DRUMS | OLW | 4601 | 3.03 | 10.3 | 80.02 | 2.32 | 2.28 | 5.76 |
| INC2376 | UPL LTR#2 | 20-08-2019 10:39 | G106Z-4878 | 7.55 | 6219200457 | DRUMS | AQUEOUS | 902 | 2.48 | 10.8 | 56.79 | 6.13 | 3.33 | 25.32 |
| INC2368 | UPL LTR#2 | 21-08-2019 17:50 | G101AY-8515 | 13.16 | 6219200478 | TANKER | AQUEOUS | 945 | 2.03 | 10.7 | 60.19 | 5.89 | 2.62 | 32.7 |
| INC2374 | UPL LTR#2 | 21-08-2019 09:35 | G116Z-1824 | 18.88 | 6219200478 | TANKER | OLW | 4535 | 2.71 | 10.5 | 78.19 | 2.04 | 2.18 | 3.73 |
| INC2377 | UPL LTR#2 | 21-08-2019 11:53 | G106X-7795 | 19.21 | 6219200478 | TANKER | OLW | 3929 | 2.9 | 8.61 | 84.18 | 0.92 | 2.18 | 3.15 |
| INC2378 | UPL LTR#2 | 21-08-2019 10:52 | G106Z-4878 | 7.81 | 6219200478 | DRUMS | AQUEOUS | 756 | 2.18 | 7.69 | 54.37 | 5.17 | 2.44 | 32.07 |
| INC2379 | UPL LTR#2 | 21-08-2019 10:56 | G116Z-7746 | 7.35 | 6219200478 | DRUMS | AQUEOUS | 723 | 2.33 | 7.71 | 56.79 | 6.13 | 2.42 | 31.54 |
| INC2380 | UPL LTR#2 | 21-08-2019 11:56 | G107T-6378 | 9.9 | 6219200478 | DRUMS | OLW | 3138 | 2.83 | 8.89 | 81.76 | 2.09 | 2.44 | 3.06 |
| INC2371 | UPL LTR#2 | 22-08-2019 12:05 | G102X-4046 | 14.73 | 6219200478 | TANKER | AQUEOUS | 907 | 1.88 | 10.3 | 59.59 | 6.53 | 2.16 | 35.8 |
| INC2381 | UPL LTR#2 | 22-08-2019 12:50 | G116Z-1824 | 19.6 | 6219200478 | TANKER | OLW | 4470 | 2.5 | 9.53 | 82.09 | 1.88 | 2.2 | 4.79 |
| INC2382 | UPL LTR#2 | 23-08-2019 10:48 | G116Z-7746 | 7.64 | 6219200478 | DRUMS | AQUEOUS | 735 | 2.14 | 9.3 | 57.57 | 6.03 | 2.89 | 24.76 |
| INC2383 | UPL LTR#2 | 23-08-2019 11:23 | G107T-6378 | 10.87 | 6219200478 | DRUMS | AQUEOUS | 799 | 1.67 | 9.43 | 58.59 | 6.22 | 3.84 | 31.32 |
| INC2384 | UPL LTR#2 | 23-08-2019 11:40 | G116Z-1824 | 19.04 | 6219200478 | TANKER | OLW | 4243 | 2.72 | 10.89 | 81.09 | 2.05 | 2.34 | 5.42 |
| INC2385 | UPL LTR#2 | 23-08-2019 15:43 | G101AY-8515 | 13.66 | 6219200478 | TANKER | AQUEOUS | 779 | 2.41 | 8.96 | 58.74 | 5.4 | 2.16 | 31.28 |
| INC2387 | UPL LTR#2 | 24-08-2019 11:43 | G106X-7995 | 16.46 | 6219200478 | TANKER | OLW | 4091 | 3.78 | 9.32 | 80.19 | 1.98 | 2.16 | 2.51 |
| INC2386 | UPL LTR#2 | 24-08-2019 10:51 | G116Z-7746 | 5.32 | 6219200478 | DRUMS | OLW | 4817 | 5.42 | 0.94 | 84.16 | 0.98 | 1.88 | 3.1 |
| INC2388 | UPL LTR#2 | 24-08-2019 11:45 | G102X-3942 | 14.97 | 6219200478 | TANKER | AQUEOUS | 873 | 2.16 | 8.55 | 60.13 | 6.02 | 2.2 | 40.72 |
| INC2390 | UPL LTR#2 | 25-08-2019 14:07 | G116Z-7746 | 7.92 | 6219200478 | DRUMS | AQUEOUS | 791 | 2.48 | 10.4 | 54.55 | 6.22 | 2.28 | 37.04 |
| INC2391 | UPL LTR#2 | 25-08-2019 11:32 | G102Y-4246 | 14.28 | 6219200478 | TANKER | AQUEOUS | 874 | 2.44 | 8.86 | 58.67 | 6.89 | 2.44 | 36.52 |
| INC2392 | UPL LTR#2 | 25-08-2019 17:55 | G112X-1193 | 17.9 | 6219200478 | TANKER | AQUEOUS | 993 | 2.24 | 9.47 | 58.07 | 6.54 | 2.56 | 34.46 |
| INC2389 | UPL LTR#2 | 25-08-2019 16:39 | G116Z-0976 | 17.75 | 6219200478 | TANKER | OLW | 3519 | 2.63 | 10.3 | 78.03 | 2.03 | 2.06 | 2.8 |
| INC2393 | UPL LTR#2 | 25-08-2019 17:06 | G107T-6378 | 9.91 | 6219200478 | TANKER | OLW | 4062 | 3.88 | 4.14 | 75.09 | 2.55 | 4.27 | 7.69 |
| INC2394 | UPL LTR#2 | 25-08-2019 18:13 | G116Z-1824 | 18.36 | 6219200478 | TANKER | OLW | 4095 | 3.1 | 10.7 | 80.19 | 3.02 | 2.24 | 4.47 |
| INC2396 | UPL LTR#2 | 26-08-2019 15:55 | G101AY-8515 | 14.98 | 6219200478 | TANKER | AQUEOUS | 1043 | 2.8 | 6.89 | 58.69 | 6.53 | 2.91 | 32.6 |
| INC2399 | UPL LTR#2 | 26-08-2019 18:41 | G116Z-0976 | 18.25 | 6219200478 | TANKER | OLW | 3515 | 2.31 | 9.46 | 80.25 | 2.81 | 2.14 | 9.2 |
| INC2395 | UPL LTR#2 | 27-08-2019 11:45 | G106X-7995 | 13.97 | 6219200478 | TANKER | AQUEOUS | 956 | 3.6 | 8.48 | 81.65 | 2.14 | 5.44 | 67.32 |
| INC2397 | UPL LTR#2 | 27-08-2019 10:55 | G116Z-7746 | 6.94 | 6219200478 | TANKER | OLW | 4175 | 2.33 | 9.17 | 72.79 | 1.29 | 3.14 | 12.6 |
| INC2398 | UPL LTR#2 | 27-08-2019 11:25 | G107T-6378 | 11.45 | 6219200478 | DRUMS | AQUEOUS | 723 | 2.19 | 4.63 | 58.79 | 6.29 | 2.23 | 28.01 |
| INC2732 | UPL LTR#2 | 27-08-2019 18:52 | G116Z-1824 | 19.03 | 6219200478 | TANKER | OLW | 4008 | 3.45 | 10.1 | 84.15 | 0.97 | 2.16 | 5.57 |
| INC2731 | UPL LTR#2 | 29-08-2019 16:59 | G102X-3942 | 16.29 | 6219200478 | TANKER | AQUEOUS | 552 | 1.24 | 8.64 | 54.2 | 6.96 | 2.66 | 37.43 |
| INC2734 | UPL LTR#2 | 29-08-2019 14:10 | G116Z-7746 | 7.95 | 6219200478 | DRUMS | AQUEOUS | 678 | 2.59 | 7.19 | 56.1 | 7.02 | 2.39 | 29.26 |
| INC2735 | UPL LTR#2 | 29-08-2019 14:52 | G116Z-0976 | 18.8 | 6219200478 | TANKER | OLW | 3977 | 2.27 | 8.63 | 84.13 | 0.86 | 2.27 | 3.85 |
| INC2737 | UPL LTR#2 | 29-08-2019 17:44 | G106X-7995 | 16.64 | 6219200478 | TANKER | OLW | 3923 | 2.99 | 8.65 | 84.13 | 0.82 | 2.34 | 5.74 |
| INC2733 | UPL LTR#2 | 30-08-2019 18:05 | G102Y-4046 | 13.34 | 6219200478 | TANKER | AQUEOUS | 640 | 2.05 | 10.3 | 51.12 | 7.27 | 2.46 | 20.27 |
| INC2738 | UPL LTR#2 | 30-08-2019 11:08 | G112X-3110 | 12.29 | 6219200478 | DRUMS | AQUEOUS | 785 | 2.05 | 7.39 | 55.36 | 7.02 | 2.84 | 28.74 |
| INC2739 | UPL LTR#2 | 30-08-2019 10:30 | G116Z-7746 | 6.52 | 6219200478 | DRUMS | SOLID | 2961 | 2.39 | 7.43 | 24.15 | 4 | 3.46 | 24.6 |
| INC2741 | UPL LTR#2 | 30-08-2019 17:30 | G107T-6378 | 10.7 | 6219200478 | DRUMS | AQUEOUS | 662 | 2.1 | 7.36 | 55.25 | 6.93 | 2.86 | 28.76 |
| INC2742 | UPL LTR#2 | 30-08-2019 17:28 | G116Z-7746 | 7.7 | 6219200478 | DRUMS | AQUEOUS | 722 | 2.07 | 7.95 | 54.37 | 6.91 | 3.04 | 28.27 |
| INC2400 | UPL LTR#2 | 31-08-2019 18:01 | G112X-1193 | 13.87 | 6219200478 | TANKER | AQUEOUS | 757 | 2.19 | 9.46 | 54.15 | 6.92 | 2.46 | 22.73 |
| INC2744 | UPL LTR#2 | 31-08-2019 12:10 | G116Z-1824 | 16.87 | 6219200478 | TANKER | OLW | 4079 | 3.08 | 9.54 | 84.12 | 0.92 | 2.21 | 6.24 |
| INC2743 | UPL LTR#2 | 31-08-2019 18:07 | G119U-1341 | 8.34 | 6219200478 | DRUMS | AQUEOUS | 933 | 2.6 | 6.06 | 53.22 | 6.99 | 2.2 | 34.48 |
| INC2740 | UPL LTR#2 | 01-09-2019 11:14 | G101AY-8515 | 12.49 | 6219200506 | TANKER | AQUEOUS | 935 | 3 | 9.87 | 54.16 | 7.02 | 2.26 | 36.12 |
| INC2747 | UPL LTR#2 | 01-09-2019 10:34 | G116Z-7746 | 6.8 | 6219200506 | DRUMS | OLW | 3245 | 4.83 | 8.92 | 80.09 | 3.06 | 2.68 | 4.14 |
| INC2748 | UPL LTR#2 | 01-09-2019 10:53 | G107T-6378 | 9.98 | 6219200506 | DRUMS | OLW | 3892 | 3.55 | 9.62 | 78.13 | 3.55 | 2.22 | 4.36 |
| INC2751 | UPL LTR#2 | 01-09-2019 17:26 | G119U-1341 | 7.93 | 6219200506 | DRUMS | OLW | 3110 | 3.18 | 8.91 | 80.09 | 2.79 | 2.28 | 4.31 |
| INC2750 | UPL LTR#2 | 02-09-2019 17:05 | G102X-3942 | 14.57 | 6219200506 | TANKER | AQUEOUS | 927 | 3.14 | 7.32 | 59.61 | 7.05 | 2.44 | 35.58 |
| INC2755 | UPL LTR#2 | 02-09-2019 12:41 | G116Z-0976 | 19.29 | 6219200506 | TANKER | OLW | 3050 | 3.09 | 9.66 | 81.08 | 2.13 | 2.2 | 3.86 |
| INC2752 | UPL LTR#2 | 02-09-2019 16:07 | G116Z-7746 | 6.95 | 6219200506 | DRUMS | OLW | 3195 | 2.24 | 8.18 | 82.09 | 2.66 | 2.82 | 4.61 |
| INC2754 | UPL LTR#2 | 02-09-2019 16:39 | G116Z-1824 | 19.34 | 6219200506 | TANKER | OLW | 3425 | 2.41 | 7.94 | 84.09 | 3.14 | 2.28 | 5.89 |
| INC2746 | UPL LTR#2 | 03-09-2019 13:14 | G106X-7995 | 12.39 | 6219200506 | TANKER | AQUEOUS | 1100 | 3.7 | 7.81 | 75.19 | 2.9 | 3.83 | 71.56 |
| INC2749 | UPL LTR#2 | 03-09-2019 12:16 | G102Y-4046 | 13.5 | 6219200506 | TANKER | AQUEOUS | 667 | 1.52 | 8.93 | 60.13 | 7.31 | 3.16 | 41.11 |
| INC2753 | UPL LTR#2 | 03-09-2019 10:43 | G107T-6378 | 7.97 | 6219200506 | DRUMS | SOLID | 4035 | 1.13 | 8.33 | 22.19 | 18.12 | 4 | 3.44 |
| INC2755 | UPL LTR#2 | 03-09-2019 10:13 | G119U-1341 | 7.74 | 6219200506 | DRUMS | OLW | 3373 | 2.66 | 7.37 | 81.25 | 3.02 | 2.48 | 3.44 |
| INC2758 | UPL LTR#2 | 03-09-2019 17:07 | G116Z-7746 | 6.89 | 6219200506 | DRUMS | OLW | 2874 | 2.46 | 10.1 | 83.55 | 2.32 | 2.28 | 4.6 |
| INC2756 | UPL LTR#2 | 03-09-2019 17:30 | G116Z-0976 | 19.48 | 6219200506 | TANKER | OLW | 3443 | 2.96 | 9.86 | 85.86 | 2.41 | 2.4 | 3.05 |
| INC2759 | UPL LTR#2 | 04-09-2019 17:39 | G112X-1193 | 15.47 | 6219200506 | TANKER | AQUEOUS | 601 | 1.74 | 6.12 | 58.69 | 6.33 | 2.44 | 34.58 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL12 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|--|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC2761 | UPL LTR#2 | 04-09-2019 11:23 | G107T-6378 | 9.81 | 6219200506 | DRUMS | OLW | 3337 | 2.93 | 10.1 | 85.61 | 2.81 | 2.3 | 4.03 |
| INC2760 | UPL LTR#2 | 04-09-2019 10:39 | G119U-1341 | 8.88 | 6219200506 | DRUMS | AQUEOUS | 523 | 2.32 | 6.14 | 57.31 | 8.43 | 2.28 | 38.03 |
| INC2763 | UPL LTR#2 | 04-09-2019 17:04 | G116Z-7746 | 5.75 | 6219200506 | DRUMS | OLW | 3639 | 3 | 7.34 | 81.69 | 1.1 | 2.33 | 3.39 |
| INC2757 | UPL LTR#2 | 05-09-2019 13:12 | G101AY-8515 | 13.53 | 6219200506 | TANKER | AQUEOUS | 598 | 2.14 | 8.44 | 56.47 | 8.17 | 2.22 | 38.78 |
| INC2764 | UPL LTR#2 | 05-09-2019 11:03 | G119U-1341 | 6.06 | 6219200506 | DRUMS | OLW | 5626 | 1.22 | 0.123 | 81.57 | 0.81 | 8.16 | 21.61 |
| INC2765 | UPL LTR#2 | 05-09-2019 17:27 | G107T-6378 | 10.57 | 6219200506 | DRUMS | AQUEOUS | 654 | 2.15 | 8.86 | 54.17 | 7.02 | 2.28 | 37.5 |
| INC2766 | UPL LTR#2 | 05-09-2019 17:39 | G116Z-7746 | 4.01 | 6219200506 | DRUMS | OLW | 3964 | 2.89 | 8.64 | 84.2 | 0.91 | 1.8 | 25.47 |
| INC2762 | UPL LTR#2 | 06-09-2019 12:37 | G102X-3942 | 15.09 | 6219200506 | TANKER | AQUEOUS | 934 | 2.25 | 8.98 | 58.18 | 1.97 | 3.26 | 40 |
| INC2767 | UPL LTR#2 | 06-09-2019 16:24 | G116Z-1824 | 19.51 | 6219200506 | TANKER | OLW | 3292 | 2.87 | 8.94 | 79.17 | 0.97 | 2.6 | 5.34 |
| INC2769 | UPL LTR#2 | 07-09-2019 12:26 | G106X-7995 | 16.84 | 6219200506 | TANKER | OLW | 3157 | 3.32 | 12.2 | 81.07 | 1.32 | 2.2 | 4.39 |
| INC2768 | UPL LTR#2 | 07-09-2019 12:22 | G102Y-4046 | 12.19 | 6219200506 | TANKER | AQUEOUS | 700 | 2.03 | 9.91 | 55.13 | 7.13 | 2.36 | 29.57 |
| INC2770 | UPL LTR#2 | 07-09-2019 16:44 | G101AY-8515 | 13.91 | 6219200506 | TANKER | AQUEOUS | 908 | 2.14 | 8.84 | 58.59 | 5.9 | 2.16 | 33.13 |
| INC2771 | UPL LTR#2 | 08-09-2019 11:32 | G107T-6378 | 11.15 | 6219200506 | DRUMS | AQUEOUS | 930 | 2.12 | 8.61 | 60.73 | 6.84 | 3.32 | |
| INC2772 | UPL LTR#2 | 08-09-2019 16:06 | G116Z-0976 | 18.86 | 6219200506 | TANKER | OLW | 4310 | 3.15 | 8.93 | 82.14 | 0.87 | 2.39 | 5.93 |
| INC2775 | UPL LTR#2 | 09-09-2019 15:24 | G106X-7995 | 14.62 | 6219200506 | TANKER | AQUEOUS | 934 | 3.18 | 8.92 | 73.19 | 1.37 | 6.92 | 65.58 |
| INC2774 | UPL LTR#2 | 09-09-2019 16:03 | G107T-6378 | 8.99 | 6219200506 | DRUMS | AQUEOUS | 704 | 1.37 | 0.42 | 66.21 | 0.87 | 6.7 | 40.16 |
| INC2776 | UPL LTR#2 | 09-09-2019 17:18 | G116Z-1824 | 19.66 | 6219200506 | TANKER | OLW | 4590 | 3.34 | 9.11 | 82.17 | 0.93 | 2.22 | 3.71 |
| INC2773 | UPL LTR#2 | 10-09-2019 17:12 | G102X-3942 | 12.8 | 6219200506 | TANKER | AQUEOUS | 728 | 3.34 | 9.79 | 75.13 | 1.03 | 3.61 | 25.08 |
| INC2777 | UPL LTR#2 | 10-09-2019 11:42 | G119U-1341 | 6.46 | 6219200506 | DRUMS | AQUEOUS | 910 | 2.47 | 3.77 | 76.38 | 3.15 | 6.71 | 38.6 |
| INC2780 | UPL LTR#2 | 10-09-2019 17:50 | G116Z-0976 | 19.14 | 6219200506 | TANKER | OLW | 4127 | 2.97 | 8.52 | 82.12 | 0.92 | 2.18 | 4.77 |
| INC2778 | UPL LTR#2 | 11-09-2019 12:08 | G102Y-4046 | 11.29 | 6219200534 | TANKER | AQUEOUS | 801 | 2 | 8.89 | 58.13 | 6.02 | 2.2 | 36.96 |
| INC2779 | UPL LTR#2 | 11-09-2019 14:43 | G107T-6378 | 3.06 | 6219200534 | DRUMS | OLW | 3830 | 3.73 | 3.11 | 79.12 | 1.72 | 2.2 | 3.38 |
| INC2893 | UPL LTR#2 | 11-09-2019 16:54 | G119U-1341 | 6.48 | 6219200534 | DRUMS | OLW | 6280 | 1.36 | 2.71 | 86.09 | 1.03 | 3.17 | 6.48 |
| INC2894 | UPL LTR#2 | 12-09-2019 12:16 | G106X-7995 | 15.17 | 6219200534 | TANKER | OLW | 4646 | 1.57 | 9.21 | 81.09 | 2.84 | 2.21 | 4.63 |
| INC2895 | UPL LTR#2 | 12-09-2019 16:20 | G107T-6378 | 2.77 | 6219200534 | DRUMS | OLW | 4569 | 1.36 | 8.42 | 83.93 | 1.03 | 2.99 | 9.18 |
| INC2892 | UPL LTR#2 | 13-09-2019 10:44 | G101AY-8515 | 12.01 | 6219200534 | TANKER | AQUEOUS | 497 | 1.39 | 8.62 | 60.62 | 6.22 | 3.9 | 32.58 |
| INC2899 | UPL LTR#2 | 14-09-2019 17:23 | G107T-6378 | 3.16 | 6219200534 | DRUMS | AQUEOUS | 1420 | 6.02 | 1.22 | 75.12 | 1.5 | 1.88 | 60.63 |
| INC2896 | UPL LTR#2 | 14-09-2019 15:48 | G112X-1193 | 13.89 | 6219200534 | TANKER | AQUEOUS | 662 | 1.64 | 9.15 | 58.19 | 6.9 | 3.41 | 33.53 |
| INC2898 | UPL LTR#2 | 15-09-2019 15:25 | G116Z-1824 | 18.68 | 6219200534 | TANKER | OLW | 3693 | 1.44 | 9.52 | 78.13 | 3.01 | 2.35 | 4.43 |
| INC2901 | UPL LTR#2 | 15-09-2019 11:29 | G106X-7995 | 13.82 | 6219200534 | TANKER | AQUEOUS | 706 | 8.24 | 0.37 | 68.12 | 4.07 | 3.83 | 44.69 |
| INC2902 | UPL LTR#2 | 15-09-2019 10:29 | G17T-6378 | 10.59 | 6219200534 | DRUMS | AQUEOUS | 471 | 1.36 | 8.88 | 58.1 | 1.36 | 2.96 | 35.83 |
| INC2903 | UPL LTR#2 | 16-09-2019 11:23 | G112X-3110 | 12.21 | 6219200534 | DRUMS | AQUEOUS | 938 | 1.54 | 8.76 | 54.13 | 7.02 | 3.4 | 30.13 |
| INC2904 | UPL LTR#2 | 16-09-2019 11:52 | G107T-6378 | 9.43 | 6219200534 | DRUMS | OLW | 3012 | 3.48 | 3.13 | 75.11 | 1.03 | 3.39 | 24.38 |
| INC2906 | UPL LTR#2 | 16-09-2019 18:16 | G112X-1193 | 12.29 | 6219200534 | TANKER | AQUEOUS | 797 | 2.7 | 0.035 | 54.27 | 7.02 | 2.2 | 32.28 |
| INC2900 | UPL LTR#2 | 17-09-2019 17:11 | G116Z-0976 | 18.45 | 6219200534 | TANKER | OLW | 4252 | 3.5 | 10.5 | 81.07 | 3.27 | 2.24 | 6.17 |
| INC2905 | UPL LTR#2 | 17-09-2019 18:20 | G106X-7995 | 16.93 | 6219200534 | TANKER | OLW | 3144 | 2.91 | 9.35 | 84.15 | 0.91 | 2.88 | 8.45 |
| INC2908 | UPL LTR#2 | 17-09-2019 10:27 | G106Z-4878 | 6.88 | 6219200534 | DRUMS | OLW | 3329 | 2.37 | 7.52 | 84.11 | 0.89 | 2.88 | 5.72 |
| INC2907 | UPL LTR#2 | 17-09-2019 15:55 | G107T-6378 | 5.32 | 6219200534 | DRUMS | OLW | 3454 | 2.44 | 6.51 | 83.17 | 0.81 | 3.31 | 3.8 |
| INC2909 | UPL LTR#2 | 18-09-2019 13:04 | G116Z-1824 | 18.86 | 6219200534 | TANKER | OLW | 3353 | 1.56 | 8.19 | 84.7 | 0.87 | 2.46 | 5.59 |
| INC2911 | UPL LTR#2 | 18-09-2019 16:07 | G102Y-4046 | 13.56 | 6219200534 | TANKER | AQUEOUS | 562 | 1.48 | 8.99 | 54.15 | 6.92 | 3.07 | 34.89 |
| INC2910 | UPL LTR#2 | 18-09-2019 10:43 | G116Z-7746 | 7.68 | 6219200534 | DRUMS | AQUEOUS | 467 | 1.46 | 7.88 | 54.62 | 7.09 | 3.26 | 36.55 |
| INC2912 | UPL LTR#2 | 18-09-2019 17:07 | G119U-1341 | 5.5 | 6219200534 | DRUMS | AQUEOUS | 633 | 1.64 | 4.79 | 54.53 | 7.02 | 3.37 | 31.41 |
| INC2916 | UPL LTR#2 | 19-09-2019 11:24 | G106X-7995 | 16.88 | 6219200534 | TANKER | OLW | 3865 | 1.82 | 8.79 | 83.17 | 0.87 | 2.35 | 2.97 |
| INC2913 | UPL LTR#2 | 19-09-2019 10:55 | G107T-6378 | 10.03 | 6219200534 | DRUMS | OLW | 3864 | 1.66 | 8.81 | 84.64 | 0.89 | 2.42 | 3.86 |
| INC2915 | UPL LTR#2 | 19-09-2019 11:25 | G116Z-7746 | 3.55 | 6219200534 | DRUMS | SOLID | 3087 | 3.06 | 11.1 | 84.6 | 3.42 | 5 | |
| INC2918 | UPL LTR#2 | 19-09-2019 17:15 | G119U-1341 | 4.36 | 6219200534 | DRUMS | AQUEOUS | 370 | 2.28 | 1.1 | 92.77 | 1.02 | 5.82 | 83.88 |
| INC2914 | UPL LTR#2 | 20-09-2019 17:30 | G116Z-0976 | 18.71 | 6219200534 | TANKER | OLW | 3839 | 2.78 | 8.63 | 84.59 | 1.02 | 2.24 | 4.63 |
| INC2920 | UPL LTR#2 | 20-09-2019 13:47 | G116Z-7746 | 2.34 | 6219200534 | DRUMS | SOLID | 528 | 3.55 | 0.003 | 18.18 | 36.19 | 4 | |
| INC2917 | UPL LTR#2 | 21-09-2019 11:40 | G102X-3942 | 17.17 | 6219200534 | TANKER | AQUEOUS | 591 | 1.9 | 8.38 | 58.75 | 6.24 | 2.24 | 33.11 |
| INC2924 | UPL LTR#2 | 21-09-2019 16:45 | G107T-6378 | 2.03 | 6219200534 | DRUMS | OLW | 2985 | 3.62 | 4.66 | 81.48 | 0.89 | 1.04 | 8.57 |
| INC2921 | UPL LTR#2 | 22-09-2019 12:02 | G116Z-1824 | 18.98 | 6219200534 | TANKER | OLW | 3014 | 2.48 | 7.67 | 78.09 | 2.11 | 2.41 | 2.61 |
| INC2921 | UPL LTR#2 | 22-09-2019 12:27 | G102Y-4046 | 14.07 | 6219200534 | TANKER | AQUEOUS | 596 | 1.86 | 8.96 | 59.08 | 6.73 | 2.16 | 36.13 |
| INC2922 | UPL LTR#2 | 22-09-2019 18:15 | G101AY-8515 | 12.51 | 6219200534 | TANKER | AQUEOUS | 498 | 3.1 | 8.89 | 59.07 | 7 | 3.08 | 27.04 |
| INC2926 | UPL LTR#2 | 23-09-2019 16:55 | G107T-6378 | 1.82 | 6219200534 | DRUMS | AQUEOUS | 833 | 3.5 | 4.08 | 83.69 | 1.95 | 3.55 | 72.5 |
| INC2923 | UPL LTR#2 | 24-09-2019 08:01 | G106X-7995 | 17.45 | 6219200534 | TANKER | OLW | 3050 | 2.66 | 9.4 | 83.26 | 1.25 | 2.2 | 7.28 |
| INC2927 | UPL LTR#2 | 24-09-2019 12:38 | G102X-3942 | 15.77 | 6219200534 | TANKER | AQUEOUS | 571 | 2.08 | 8.48 | 61.33 | 6.95 | 3.07 | 43.56 |
| INC2929 | UPL LTR#2 | 24-09-2019 17:28 | G112X-1193 | 17.8 | 6219200534 | TANKER | AQUEOUS | 558 | 1.99 | 8.16 | 52.15 | 6.93 | 2.2 | 37.15 |
| INC2930 | UPL LTR#2 | 25-09-2019 17:13 | G101AY-8515 | 14.78 | 6219200534 | TANKER | AQUEOUS | 404 | 1.34 | 8.69 | 58.69 | 6.02 | 3.18 | 32.65 |
| INC2925 | UPL LTR#2 | 26-09-2019 18:04 | G116Z-0976 | 19.25 | 6219200534 | TANKER | OLW | 3721 | 2.39 | 9.39 | 82.62 | 1.93 | 2.42 | 2.85 |
| INC2933 | UPL LTR#2 | 26-09-2019 17:59 | G107T-6378 | 1.85 | 6219200534 | DRUMS | SOLID | 4375 | 1.3 | 11.3 | 17.2 | 1.9 | 4 | |
| INC2932 | UPL LTR#2 | 27-09-2019 09:26 | G106X-7995 | 13.44 | 6219200534 | TANKER | AQUEOUS | 661 | 2.37 | 3.8 | 80.75 | 1.33 | 5.41 | 67.73 |

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|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|-------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPHPUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC2928 | UPL LTR#2 | 28-09-2019 12:07 | G116Z-1824 | 19.3 | 6219200554 | TANKER | OLW | 3028 | 3.25 | 8.55 | 82.63 | 1.69 | 2.25 | 5.58 |
| INC2937 | UPL LTR#2 | 28-09-2019 13:17 | G112X-1193 | 15.72 | 6219200554 | TANKER | AQUEOUS | 666 | 1.74 | 7.51 | 58.72 | 6.76 | 2.43 | 30.15 |
| INC2939 | UPL LTR#2 | 28-09-2019 17:13 | G119U-1341 | 4.16 | 6219200554 | DRUMS | AQUEOUS | 820 | 3.73 | 0.16 | 85.36 | 4.02 | 10.52 | 67.46 |
| INC2938 | UPL LTR#2 | 29-09-2019 11:39 | G102X-3942 | 16.39 | 6219200554 | TANKER | AQUEOUS | 685 | 2.08 | 8.1 | 60.09 | 7.02 | 2.3 | 33.98 |
| INC2940 | UPL LTR#2 | 29-09-2019 11:04 | G107T16378 | 11.37 | 6219200554 | DRUMS | AQUEOUS | 677 | 1.61 | 8.2 | 59.61 | 6.82 | 2.2 | 35.34 |
| INC2941 | UPL LTR#2 | 29-09-2019 17:17 | G101AY-8515 | 14.65 | 6219200554 | TANKER | AQUEOUS | 557 | 1.73 | 8.9 | 59.63 | 6.19 | 2.2 | 32.62 |
| INC2935 | UPL LTR#2 | 30-09-2019 17:47 | G107Z-8586 | 19.16 | 6219200554 | TANKER | OLW | 3400 | 1.55 | 8.12 | 81.09 | 2.13 | 2.38 | 3.83 |
| INC2936 | UPL LTR#2 | 30-09-2019 19:21 | G116Z-0976 | 18.09 | 6219200554 | TANKER | OLW | 3218 | 1.97 | 8.96 | 79.15 | 2.12 | 2.14 | 1.82 |
| INC3101 | UPL LTR#2 | 30-09-2019 11:04 | G106X-7995 | 16.82 | 6219200554 | TANKER | OLW | 3406 | 3.77 | 7.8 | 79.09 | 3.22 | 2.45 | 2.51 |
| INC3103 | UPL LTR#2 | 30-09-2019 17:33 | G107T-6378 | 2.24 | 6219200554 | DRUMS | OLW | 2893 | 4.81 | 4.24 | 85.09 | 1.73 | 1.47 | 2 |
| INC3104 | UPL LTR#2 | 01-10-2019 11:27 | G102Y-4046 | 11.32 | 6219200579 | TANKER | AQUEOUS | 779 | 1.8 | 7.42 | 58.19 | 6.33 | 2.26 | 32.63 |
| INC3106 | UPL LTR#2 | 01-10-2019 18:13 | G106X-7995 | 15.89 | 6219200579 | TANKER | OLW | 3326 | 2.5 | 7.61 | 82.17 | 0.63 | 2.29 | 2.66 |
| INC3105 | UPL LTR#2 | 01-10-2019 16:21 | G112X-1193 | 15.16 | 6219200579 | TANKER | AQUEOUS | 625 | 2.38 | 7.73 | 57.63 | 6.82 | 2.79 | 33.92 |
| INC3102 | UPL LTR#2 | 02-10-2019 17:13 | G116Z-1824 | 18.64 | 6219200579 | TANKER | OLW | 3130 | 3.27 | 8.24 | 81.09 | 3.03 | 2.15 | 5.48 |
| INC3108 | UPL LTR#2 | 03-10-2019 14:29 | G102X-3942 | 16.18 | 6219200579 | TANKER | AQUEOUS | 724 | 1.95 | 8.56 | 56.16 | 6.09 | 2.46 | 29.43 |
| INC3111 | UPL LTR#2 | 03-10-2019 17:00 | G107T-6378 | 8.24 | 6219200579 | DRUMS | AQUEOUS | 790 | 2.67 | 0.91 | 96.34 | 1.09 | 11.71 | 88.87 |
| INC3107 | UPL LTR#2 | 04-10-2019 17:13 | G107Z-8586 | 16.44 | 6219200579 | TANKER | OLW | 3479 | 2.61 | 11.2 | 81.03 | 1.03 | 2.34 | 1.79 |
| INC3109 | UPL LTR#2 | 05-10-2019 17:55 | G107T-6378 | 8.94 | 6219200579 | DRUMS | AQUEOUS | 860 | 2.64 | 1.2 | 91.71 | 3.02 | 10.77 | 65.59 |
| INC3114 | UPL LTR#2 | 05-10-2019 17:13 | G116Z-0976 | 15.5 | 6219200579 | TANKER | OLW | 3740 | 2.68 | 9.07 | 78.03 | 3.02 | 2.46 | 5.59 |
| INC3110 | UPL LTR#2 | 05-10-2019 16:30 | G101AY-8515 | 14.01 | 6219200579 | TANKER | AQUEOUS | 735 | 1.93 | 8.96 | 58.79 | 6.29 | 2.26 | 31.3 |
| INC3117 | UPL LTR#2 | 06-10-2019 16:54 | G107T-6378 | 9.88 | 6219200579 | DRUMS | AQUEOUS | 521 | 1.25 | 8.95 | 54.14 | 6.93 | 3.56 | 34.8 |
| INC3121 | UPL LTR#2 | 07-10-2019 17:53 | G101AY-8515 | 10.46 | 6219200579 | TANKER | AQUEOUS | 667 | 1.91 | 9.52 | 54.15 | 6.92 | 2.36 | 35.88 |
| INC3120 | UPL LTR#2 | 07-10-2019 17:23 | G107T-6378 | 6.97 | 6219200579 | DRUMS | AQUEOUS | 598 | 2.03 | 4.48 | 72.16 | 1.92 | 3.68 | 50.7 |
| INC3112 | UPL LTR#2 | 08-10-2019 18:27 | G106X-7995 | 16.59 | 6219200579 | TANKER | OLW | 3347 | 2.53 | 9.46 | 84.12 | 0.9 | 2.24 | 4.66 |
| INC3115 | UPL LTR#2 | 09-10-2019 15:11 | G116Z-1824 | 19.12 | 6219200579 | TANKER | OLW | 3120 | 2.85 | 9.87 | 85.72 | 0.82 | 2.13 | 4.98 |
| INC3119 | UPL LTR#2 | 09-10-2019 18:21 | G116Z-0976 | 16.18 | 6219200579 | TANKER | OLW | 3006 | 2.16 | 8.2 | 84.2 | 0.89 | 2.2 | 2.1 |
| INC3122 | UPL LTR#2 | 09-10-2019 12:14 | G112X-1193 | 12.48 | 6219200579 | TANKER | AQUEOUS | 593 | 1.73 | 7.87 | 54.19 | 7.02 | 3.43 | 36.66 |
| INC3123 | UPL LTR#2 | 10-10-2019 11:50 | G101AY-8515 | 10.05 | 6219200579 | TANKER | AQUEOUS | 415 | 1.65 | 7.97 | 54.56 | 6.92 | 2.46 | 35.88 |
| INC3124 | UPL LTR#2 | 10-10-2019 11:11 | G107T-6378 | 10.88 | 6219200579 | DRUMS | AQUEOUS | 410 | 2.13 | 7.05 | 54.65 | 7.11 | 3.16 | 31.33 |
| INC3125 | UPL LTR#2 | 10-10-2019 19:04 | G106X-7995 | 16 | 6219200579 | TANKER | OLW | 3836 | 2.49 | 10.4 | 85.27 | 0.85 | 2.29 | 2.5 |
| INC3129 | UPL LTR#2 | 11-10-2019 11:43 | G112X-1193 | 15.41 | 6219200610 | TANKER | AQUEOUS | 573 | 2.08 | 8.88 | 54.17 | 7.02 | 3.42 | 37.4 |
| INC3128 | UPL LTR#2 | 11-10-2019 16:54 | G116Z-7746 | 6.68 | 6219200610 | DRUMS | OLW | 3200 | 3.16 | 8.96 | 84.12 | 0.79 | 2.48 | 3.15 |
| INC3127 | UPL LTR#2 | 12-10-2019 10:53 | G107T-6378 | 9.62 | 6219200610 | DRUMS | OLW | 3229 | 2.96 | 10.3 | 82.15 | 0.86 | 2.31 | 2.83 |
| INC3132 | UPL LTR#2 | 12-10-2019 12:10 | G102Y-4046 | 11.18 | 6219200610 | TANKER | OLW | 3321 | 3.03 | 8.06 | 83.37 | 0.82 | 2.4 | 7.44 |
| INC3130 | UPL LTR#2 | 12-10-2019 17:44 | G102Z-5664 | 22.58 | 6219200610 | TANKER | AQUEOUS | 728 | 1.73 | 7.87 | 56.07 | 5.88 | 4.14 | 30.68 |
| INC3131 | UPL LTR#2 | 13-10-2019 12:40 | G116Z-0976 | 14.48 | 6219200610 | TANKER | OLW | 3283 | 2.7 | 8.68 | 83.92 | 0.87 | 2.2 | 3.18 |
| INC3133 | UPL LTR#2 | 13-10-2019 12:53 | G101AY-8515 | 10.46 | 6219200610 | TANKER | AQUEOUS | 682 | 2.13 | 7.21 | 58.19 | 6.03 | 2.4 | 33.46 |
| INC3134 | UPL LTR#2 | 13-10-2019 10:36 | G116Z-7746 | 6.48 | 6219200610 | DRUMS | OLW | 3299 | 3.73 | 9.04 | 81.11 | 3.25 | 2.42 | 3.63 |
| INC3135 | UPL LTR#2 | 13-10-2019 10:56 | G107T-6378 | 8.54 | 6219200610 | DRUMS | AQUEOUS | 763 | 3.86 | 0.475 | 80.5 | 3.09 | 10.52 | 73.69 |
| INC3118 | UPL LTR#2 | 14-10-2019 11:59 | G107Z-8586 | 18.66 | 6219200610 | TANKER | OLW | 3995 | 2.92 | 8.9 | 84.75 | 0.95 | 2.35 | 6.33 |
| INC3137 | UPL LTR#2 | 14-10-2019 16:23 | G116Z-7746 | 1.9 | 6219200610 | DRUMS | OLW | 4575 | 1.76 | 0.833 | 84.09 | 1.38 | 1.09 | 2.59 |
| INC3139 | UPL LTR#2 | 14-10-2019 16:46 | G112X-1193 | 11.47 | 6219200610 | TANKER | AQUEOUS | 478 | 1.92 | 8.15 | 55.07 | 5.79 | 3.96 | 27.17 |
| INC3140 | UPL LTR#2 | 14-10-2019 18:06 | G102Z-5664 | 18.6 | 6219200610 | TANKER | AQUEOUS | 626 | 2.04 | 3.25 | 60.2 | 6.13 | 2.22 | 32.77 |
| INC3141 | UPL LTR#2 | 14-10-2019 18:17 | G107T-6378 | 3.75 | 6219200610 | DRUMS | OLW | 3399 | 3.64 | 10.56 | 80.11 | 1.73 | 4.06 | 1.98 |
| INC3138 | UPL LTR#2 | 16-10-2019 12:19 | G102Y-4046 | 9.97 | 6219200610 | TANKER | OLW | 3088 | 3.48 | 8.14 | 78.17 | 3.09 | 2.29 | 5.95 |
| INC3136 | UPL LTR#2 | 17-10-2019 12:24 | G116Z-1824 | 18.53 | 6219200610 | TANKER | OLW | 3173 | 3.91 | 8.96 | 84.17 | 0.89 | 2.2 | 3.18 |
| INC3132 | UPL LTR#2 | 17-10-2019 08:17 | G106X-7995 | 15.24 | 6219200610 | TANKER | OLW | 3198 | 3.79 | 11.7 | 79.07 | 2.97 | 2.16 | 5.19 |
| INC3145 | UPL LTR#2 | 17-10-2019 12:39 | G102Z-5664 | 16.97 | 6219200610 | TANKER | AQUEOUS | 572 | 2.3 | 7.3 | 55.1 | 5.4 | 2.81 | 32.89 |
| INC3144 | UPL LTR#2 | 17-10-2019 11:00 | G116Z-7746 | 6.98 | 6219200610 | DRUMS | OLW | 3977 | 2.48 | 9.29 | 80.44 | 2.03 | 2.89 | 3.51 |
| INC3146 | UPL LTR#2 | 18-10-2019 09:35 | G102Y-4046 | 10.04 | 6219200610 | TANKER | OLW | 3471 | 2.13 | 9.68 | 78.29 | 3.08 | 2.39 | 4.07 |
| INC3148 | UPL LTR#2 | 18-10-2019 11:21 | G116Z-7746 | 7.15 | 6219200610 | DRUMS | OLW | 3416 | 2.82 | 9.6 | 79.18 | 2.05 | 2.45 | 2.54 |
| INC3142 | UPL LTR#2 | 19-10-2019 18:48 | G116Z-0976 | 16.05 | 6219200610 | TANKER | OLW | 3558 | 2.11 | 9.27 | 81.09 | 2.13 | 2.36 | 1.55 |
| INC3149 | UPL LTR#2 | 19-10-2019 08:48 | G112X-1193 | 11.13 | 6219200610 | TANKER | AQUEOUS | 477 | 1.96 | 7.21 | 57.12 | 5.93 | 2.9 | 32.89 |
| INC3150 | UPL LTR#2 | 19-10-2019 11:28 | G101AY-8515 | 8.41 | 6219200610 | TANKER | AQUEOUS | 601 | 1.81 | 7.86 | 60.62 | 6.16 | 2.39 | 34.89 |
| INC3402 | UPL LTR#2 | 19-10-2019 10:59 | G107T-6378 | 9.79 | 6219200610 | DRUMS | OLW | 3560 | 1.81 | 8.8 | 80.75 | 2.35 | 2.29 | 5.14 |
| INC3404 | UPL LTR#2 | 19-10-2019 12:07 | G116Z-7746 | 6.98 | 6219200610 | DRUMS | OLW | 3460 | 1.89 | 9.12 | 81.85 | 2.11 | 2.19 | 4.57 |
| INC3401 | UPL LTR#2 | 20-10-2019 16:30 | G102Z-5664 | 16.71 | 6219200610 | TANKER | AQUEOUS | 479 | 1.82 | 6.56 | 58.97 | 6.58 | 2.85 | 31.76 |
| INC3403 | UPL LTR#2 | 20-10-2019 11:34 | G106X-7995 | 16.13 | 6219200610 | TANKER | OLW | 3725 | 2.16 | 10.7 | 84.35 | 3.09 | 2.24 | 5.09 |
| INC3407 | UPL LTR#2 | 20-10-2019 16:53 | G107T-6378 | 4.38 | 6219200610 | DRUMS | OLW | 3168 | 2.55 | 9.96 | 81.06 | 2.79 | 2.9 | 4.24 |
| INC3147 | UPL LTR#2 | 21-10-2019 12:06 | G107Z-8586 | 13.69 | 6219200635 | TANKER | OLW | 3746 | 1.92 | 9.08 | 80.08 | 2.44 | 2.44 | 4.83 |
| INC3410 | UPL LTR#2 | 22-10-2019 10:48 | G116Z-7746 | 3.42 | 6219200635 | DRUMS | SOLID | 698 | 2.04 | 0.724 | 51.03 | 18.3 | 5.04 | |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|-------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC3406 | UPL LTR#2 | 23-10-2019 10:35 | GJ16Z-1824 | 16.11 | 6219200635 | TANKER | OLW | 3347 | 2.16 | 10.8 | 82.29 | 2.55 | 2.12 | 4.52 |
| INC3408 | UPL LTR#2 | 23-10-2019 11:19 | GJ1AY 8515 | 11.37 | 6219200635 | TANKER | AQUEOUS | 446 | 3.26 | 4.18 | 52.18 | 6.04 | 3.15 | 23.52 |
| INC3414 | UPL LTR#2 | 23-10-2019 16:55 | GJ07T-6378 | 3.57 | 6219200635 | DRUMS | AQUEOUS | 443 | 1.72 | 7.8 | 60.62 | 5.79 | 2.46 | 37.71 |
| INC3411 | UPL LTR#2 | 24-10-2019 15:21 | GJ16W 2637 | 29.69 | 6219200635 | TANKER | AQUEOUS | 549 | 2.08 | 8.56 | 57.12 | 6.12 | 2.36 | 30.87 |
| INC3409 | UPL LTR#2 | 24-10-2019 12:59 | GJ16Z-0976 | 15.85 | 6219200635 | TANKER | OLW | 3989 | 2.59 | 13.2 | 83.12 | 0.92 | 2.41 | 3.53 |
| INC3413 | UPL LTR#2 | 24-10-2019 13:17 | GJ02Z-5664 | 15.12 | 6219200635 | TANKER | AQUEOUS | 515 | 2.05 | 7.05 | 56.17 | 6.22 | 3.32 | 32.89 |
| INC3412 | UPL LTR#2 | 25-10-2019 11:12 | GJ07Z-8586 | 15.78 | 6219200635 | TANKER | OLW | 3225 | 2.45 | 10.2 | 80.02 | 2.33 | 2.42 | 4.23 |
| INC3415 | UPL LTR#2 | 25-10-2019 13:05 | GJ06X-7995 | 15.7 | 6219200635 | TANKER | OLW | 3455 | 2.15 | 9.7 | 81.03 | 2.69 | 2.17 | 2.91 |
| INC3405 | UPL LTR#2 | 26-10-2019 12:30 | GJ02Y-4046 | 10.32 | 6219200635 | TANKER | OLW | 3482 | 1.72 | 9.84 | 78.13 | 2.35 | 2.31 | 2.72 |
| INC3417 | UPL LTR#2 | 26-10-2019 18:45 | GJ16Z-1824 | 14.2 | 6219200635 | TANKER | OLW | 3135 | 2 | 9.51 | 81.39 | 2.73 | 2.34 | 4.39 |
| INC3419 | UPL LTR#2 | 26-10-2019 17:46 | GJ07T 6378 | 10.25 | 6219200635 | DRUMS | AQUEOUS | 530 | 1.64 | 8.84 | 91.15 | 1.02 | 3.38 | 35.62 |
| INC3416 | UPL LTR#2 | 27-10-2019 14:51 | GJ01AY-8515 | 11.03 | 6219200635 | TANKER | AQUEOUS | 589 | 1.42 | 8.46 | 58.18 | 6.02 | 2.42 | 36.51 |
| INC3418 | UPL LTR#2 | 27-10-2019 11:21 | GJ16Z-0976 | 15.59 | 6219200635 | TANKER | OLW | 3425 | 2.21 | 9.25 | 80.08 | 2.21 | 2.27 | 4.72 |
| INC3420 | UPL LTR#2 | 28-10-2019 10:12 | GJ06X-7995 | 16.07 | 6219200635 | TANKER | OLW | 3314 | 2.37 | 10.4 | 80.08 | 2.09 | 2.76 | 4.89 |
| INC3421 | UPL LTR#2 | 28-10-2019 16:37 | GJ16X 6393 | 17.04 | 6219200635 | TANKER | AQUEOUS | 538 | 1.51 | 8.61 | 58.61 | 6.37 | 3.77 | 28.52 |
| INC3422 | UPL LTR#2 | 28-10-2019 16:47 | GJ07Z-8586 | 17.36 | 6219200635 | TANKER | OLW | 3223 | 2.42 | 9.44 | 80.19 | 2.66 | 2.16 | 5.05 |
| INC3423 | UPL LTR#2 | 29-10-2019 10:55 | GJ02Z 5664 | 11.93 | 6219200635 | TANKER | AQUEOUS | 530 | 1.52 | 8.44 | 62.3 | 7.16 | 2.88 | 33.08 |
| INC3424 | UPL LTR#2 | 29-10-2019 10:59 | GJ16Z 1824 | 16.4 | 6219200635 | TANKER | OLW | 3282 | 2.5 | 9.86 | 82.1 | 1.3 | 2.24 | 6.98 |
| INC3425 | UPL LTR#2 | 30-10-2019 11:22 | GJ16Z-0976 | 15.57 | 6219200635 | TANKER | OLW | 3231 | 1.62 | 9.18 | 84.37 | 3.41 | 2.29 | 3.96 |
| INC3426 | UPL LTR#2 | 30-10-2019 15:53 | GJ02Y-4046 | 13.98 | 6219200635 | TANKER | AQUEOUS | 571 | 1.5 | 8.7 | 54.61 | 8.41 | 3.45 | 32.76 |
| INC3428 | UPL LTR#2 | 31-10-2019 11:41 | GJ06X 7995 | 15.74 | 6219200635 | TANKER | AQUEOUS | 3162 | 2.5 | 9.98 | 83.85 | 3.45 | 2.4 | 5.04 |
| INC3427 | UPL LTR#2 | 31-10-2019 11:08 | GJ16X 6393 | 15.98 | 6219200635 | TANKER | AQUEOUS | 515 | 1.51 | 8.91 | 58.47 | 8.47 | 5.46 | 33.08 |
| INC3379 | UPL LTR#2 | 01-11-2019 11:45 | GJ07Z 8586 | 15.61 | 6219200661 | TANKER | OLW | 3432 | 2.31 | 10.7 | 82.48 | 0.53 | 2.24 | 5.6 |
| INC3383 | UPL LTR#2 | 02-11-2019 11:11 | GJ07T-6378 | 2.89 | 6219200661 | DRUMS | OLW | 3175 | 3.92 | 1.81 | 82.2 | 0.76 | 1.06 | 5.15 |
| INC3380 | UPL LTR#2 | 02-11-2019 12:03 | GJ02Z 5664 | 19.68 | 6219200661 | TANKER | AQUEOUS | 635 | 1.61 | 7.27 | 61.38 | 7.48 | 2.24 | 32.38 |
| INC3381 | UPL LTR#2 | 02-11-2019 11:04 | GJ16Z 1824 | 14.57 | 6219200661 | TANKER | OLW | 3426 | 2.63 | 10.3 | 82.19 | 0.83 | 2.33 | 4.81 |
| INC3384 | UPL LTR#2 | 02-11-2019 16:57 | GJ16Z-0976 | 15.21 | 6219200661 | TANKER | OLW | 3855 | 2.74 | 10.4 | 83.17 | 0.83 | 2.35 | 4.44 |
| INC3386 | UPL LTR#2 | 03-11-2019 11:30 | GJ06X-7995 | 14.51 | 6219200661 | TANKER | OLW | 3665 | 2.58 | 10.2 | 80.19 | 0.83 | 2.3 | 3.7 |
| INC3388 | UPL LTR#2 | 03-11-2019 17:23 | GJ07Z 8586 | 15.56 | 6219200661 | TANKER | OLW | 3240 | 2.22 | 9.77 | 81.13 | 2.92 | 2.28 | 3.83 |
| INC3382 | UPL LTR#2 | 04-11-2019 12:20 | GJ01AY-8515 | 10.76 | 6219200661 | TANKER | AQUEOUS | 574 | 1.59 | 9.53 | 62.3 | 7.21 | 2.42 | 31.81 |
| INC3385 | UPL LTR#2 | 04-11-2019 15:13 | GJ02Y-4046 | 14.48 | 6219200661 | TANKER | AQUEOUS | 625 | 1.78 | 6.9 | 62.82 | 7.99 | 2.24 | 30.07 |
| INC3387 | UPL LTR#2 | 04-11-2019 16:47 | GJ16X-6393 | 13.65 | 6219200661 | TANKER | AQUEOUS | 576 | 1.86 | 6.31 | 58.19 | 7.13 | 2.2 | 30.4 |
| INC3390 | UPL LTR#2 | 04-11-2019 15:30 | GJ16Z-1824 | 14.28 | 6219200661 | TANKER | OLW | 3134 | 3.1 | 9.48 | 80.08 | 2.44 | 2.32 | 15.39 |
| INC3392 | UPL LTR#2 | 04-11-2019 17:16 | GJ07T-6378 | 3.76 | 6219200661 | DRUMS | AQUEOUS | 460 | 2.06 | 6.92 | 58.08 | 5.88 | 3.86 | 28.51 |
| INC3389 | UPL LTR#2 | 05-11-2019 15:34 | GJ02Z-5664 | 16.47 | 6219200661 | TANKER | AQUEOUS | 527 | 1.89 | 6.13 | 51.29 | 6.53 | 3.04 | 30.56 |
| INC3391 | UPL LTR#2 | 05-11-2019 17:25 | GJ16Z-0976 | 15.6 | 6219200661 | TANKER | OLW | 3397 | 1.86 | 9.03 | 79.07 | 2.97 | 2.42 | 4.58 |
| INC3393 | UPL LTR#2 | 06-11-2019 17:36 | GJ06X-7995 | 15.21 | 6219200661 | TANKER | OLW | 3364 | 2.62 | 7.85 | 79.07 | 2.97 | 2.23 | 3.17 |
| INC3395 | UPL LTR#2 | 06-11-2019 16:03 | GJ07T 6378 | 9.39 | 6219200661 | DRUMS | AQUEOUS | 722 | 2.59 | 0.256 | 90.25 | 1.47 | 11.16 | 79.93 |
| INC3396 | UPL LTR#2 | 07-11-2019 11:55 | GJ02Y-4046 | 11.45 | 6219200661 | TANKER | AQUEOUS | 594 | 2.11 | 5.71 | 59.94 | 7.48 | 2.75 | 32.77 |
| INC3397 | UPL LTR#2 | 07-11-2019 15:03 | GJ07Z-8586 | 15.26 | 6219200661 | TANKER | OLW | 3293 | 2.15 | 8.82 | 79.08 | 1.07 | 2.26 | 2.19 |
| INC3394 | UPL LTR#2 | 08-11-2019 16:59 | GJ01AY-8515 | 8.72 | 6219200661 | TANKER | AQUEOUS | 591 | 1.88 | 5.63 | 55.07 | 5.79 | 2.34 | 32.6 |
| INC3399 | UPL LTR#2 | 08-11-2019 18:28 | GJ16Z-1824 | 14.03 | 6219200661 | TANKER | OLW | 3434 | 2.19 | 8.8 | 81.09 | 1.43 | 2.24 | 3.85 |
| INC3398 | UPL LTR#2 | 08-11-2019 14:38 | GJ07T-6378 | 3.78 | 6219200661 | DRUMS | OLW | 3067 | 2.7 | 1.1 | 81.09 | 2.02 | 9.08 | 6.58 |
| INC3551 | UPL LTR#2 | 09-11-2019 16:16 | GJ16Z-0976 | 15.36 | 6219200661 | TANKER | OLW | 3182 | 2.6 | 7.61 | 79.12 | 1.83 | 2.2 | 3.81 |
| INC3545 | UPL LTR#2 | 09-11-2019 17:45 | GJ07T-6378 | 1.69 | 6219200661 | DRUMS | OLW | 3117 | 3.37 | 1.9 | 80.12 | 1.47 | 1.1 | 4 |
| INC3400 | UPL LTR#2 | 10-11-2019 12:07 | GJ16X-6393 | 13.32 | 6219200661 | TANKER | AQUEOUS | 567 | 2.23 | 5.94 | 57.12 | 7.12 | 2.42 | 31.25 |
| INC3552 | UPL LTR#2 | 10-11-2019 18:00 | GJ06X-7995 | 16.03 | 6219200661 | TANKER | OLW | 3610 | 2.39 | 9.96 | 79.17 | 1.22 | 2.1 | 7.84 |
| INC3546 | UPL LTR#2 | 11-11-2019 11:03 | GJ02X-3258 | 18.72 | 6219200702 | TANKER | AQUEOUS | 628 | 2.24 | 6.7 | 57.41 | 7.12 | 2.74 | 32.6 |
| INC3553 | UPL LTR#2 | 11-11-2019 18:17 | GJ02Y-4046 | 13.72 | 6219200702 | TANKER | AQUEOUS | 476 | 1.87 | 8.45 | 59.92 | 7.47 | 2.24 | 30.15 |
| INC3547 | UPL LTR#2 | 11-11-2019 18:41 | GJ07Z-8586 | 15.82 | 6219200702 | TANKER | OLW | 3017 | 2.02 | 9.87 | 79.12 | 1.83 | 2.26 | 1.74 |
| INC3548 | UPL LTR#2 | 12-11-2019 11:34 | GJ01AY-8515 | 10.6 | 6219200702 | TANKER | AQUEOUS | 494 | 2.2 | 7.35 | 57.11 | 7.11 | 3.28 | 28.4 |
| INC3549 | UPL LTR#2 | 12-11-2019 18:53 | GJ16Z-1824 | 13.25 | 6219200702 | TANKER | OLW | 3305 | 2.51 | 8.91 | 80.12 | 1.45 | 2.34 | 3.97 |
| INC3550 | UPL LTR#2 | 12-11-2019 18:56 | GJ02X-3942 | 11.07 | 6219200702 | TANKER | AQUEOUS | 639 | 2.4 | 8.52 | 84.37 | 2.91 | 4.08 | 65.52 |
| INC3554 | UPL LTR#2 | 13-11-2019 13:15 | GJ16X-6393 | 13.39 | 6219200702 | TANKER | AQUEOUS | 536 | 1.76 | 8.26 | 57.11 | 7.11 | 2.24 | 31.24 |
| INC3556 | UPL LTR#2 | 13-11-2019 17:33 | GJ16Z-0976 | 14.68 | 6219200702 | TANKER | OLW | 4047 | 3.17 | 9.96 | 79.17 | 1.42 | 2.27 | 7.1 |
| INC3555 | UPL LTR#2 | 14-11-2019 10:39 | GJ07T-6378 | 9.9 | 6219200702 | DRUMS | AQUEOUS | 824 | 4.96 | 0.731 | 75.3 | 3.6 | 10.52 | 65.18 |
| INC3557 | UPL LTR#2 | 14-11-2019 18:20 | GJ02X-3258 | 16.4 | 6219200702 | TANKER | AQUEOUS | 560 | 1.76 | 8.24 | 59.92 | 7.47 | 2.2 | 32.4 |
| INC3558 | UPL LTR#2 | 14-11-2019 15:50 | GJ06X-7995 | 14.96 | 6219200702 | TANKER | OLW | 3349 | 2.36 | 8.84 | 79.08 | 1.04 | 2.23 | 3.86 |
| INC3560 | UPL LTR#2 | 15-11-2019 18:33 | GJ07Z-8586 | 15.73 | 6219200702 | TANKER | OLW | 3242 | 2.81 | 9.57 | 79.08 | 1.04 | 2.16 | 3.89 |
| INC3562 | UPL LTR#2 | 16-11-2019 16:25 | GJ16Z-1824 | 15.3 | 6219200702 | TANKER | OLW | 3227 | 2.6 | 9.6 | 80.12 | 2.09 | 2.1 | 4.89 |
| INC3563 | UPL LTR#2 | 16-11-2019 18:11 | GJ16Z-0976 | 15.16 | 6219200702 | TANKER | OLW | 3271 | 2.94 | 9.53 | 83.17 | 0.83 | 2.2 | 3.63 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|-------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPLR# | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC3559 | UPL LTR#2 | 17-11-2019 12:11 | G102Y-4046 | 15.32 | 6219200702 | TANKER | AQUEOUS | 530 | 1.85 | 8.37 | 59.92 | 7.47 | 2.2 | 32.89 |
| INC3561 | UPL LTR#2 | 17-11-2019 14:53 | G101AY-8515 | 11.84 | 6219200702 | TANKER | AQUEOUS | 596 | 1.87 | 8.77 | 58.61 | 6.37 | 2.38 | 33.41 |
| INC3564 | UPL LTR#2 | 17-11-2019 17:22 | G106X-7995 | 14.92 | 6219200702 | TANKER | OLW | 3050 | 3.6 | 8.93 | 78.12 | 1.14 | 2.2 | 13.63 |
| INC3565 | UPL LTR#2 | 18-11-2019 11:17 | G102X-3942 | 14.41 | 6219200702 | TANKER | AQUEOUS | 525 | 1.92 | 8.86 | 56.68 | 6.09 | 2.4 | 30.38 |
| INC3567 | UPL LTR#2 | 19-11-2019 10:23 | G107T-6378 | 9.75 | 6219200702 | DRUMS | AQUEOUS | 645 | 2.95 | 1.61 | 84.37 | 2.91 | 10.19 | 61.16 |
| INC3568 | UPL LTR#2 | 19-11-2019 11:48 | G107Z-8586 | 15.11 | 6219200702 | TANKER | OLW | 3482 | 2.74 | 10.6 | 80.12 | 1.45 | 2.17 | 5.16 |
| INC3570 | UPL LTR#2 | 19-11-2019 16:38 | G116Z-1824 | 15.38 | 6219200702 | TANKER | OLW | 4049 | 2.31 | 9.32 | 82.08 | 3.02 | 2.12 | 6.09 |
| INC3566 | UPL LTR#2 | 20-11-2019 09:23 | G116X-6393 | 11.86 | 6219200702 | TANKER | AQUEOUS | 647 | 2.01 | 8.37 | 57.11 | 7.11 | 2.2 | 32.07 |
| INC3569 | UPL LTR#2 | 20-11-2019 16:40 | G102X-3258 | 15.7 | 6219200702 | TANKER | AQUEOUS | 650 | 2.11 | 7.2 | 56.64 | 7.13 | 2.16 | 31.35 |
| INC3571 | UPL LTR#2 | 20-11-2019 16:42 | G116Z-0976 | 15.29 | 6219200702 | TANKER | OLW | 4522 | 2.86 | 9.54 | 78.82 | 2.82 | 2.56 | 6.54 |
| INC3572 | UPL LTR#2 | 21-11-2019 11:45 | G102Y-4046 | 13.31 | 6219200756 | TANKER | AQUEOUS | 428 | 1.4 | 7.42 | 55.18 | 6.53 | 3.1 | 31.06 |
| INC3573 | UPL LTR#2 | 21-11-2019 13:50 | G101AY-8515 | 9.71 | 6219200756 | TANKER | AQUEOUS | 417 | 1.61 | 6.91 | 58.89 | 6.22 | 3.29 | 33.65 |
| INC3574 | UPL LTR#2 | 21-11-2019 18:19 | G106X-7995 | 15.36 | 6219200756 | TANKER | OLW | 4569 | 3.08 | 10.1 | 79.09 | 2.33 | 2.46 | 6.89 |
| INC3576 | UPL LTR#2 | 22-11-2019 16:59 | G107Z-8586 | 15.1 | 6219200756 | TANKER | OLW | 3862 | 3.89 | 10.2 | 82.17 | 1.45 | 2.2 | 3.11 |
| INC3575 | UPL LTR#2 | 23-11-2019 11:41 | G102X-3942 | 12.65 | 6219200756 | TANKER | AQUEOUS | 903 | 2.97 | 8.31 | 58.19 | 6.07 | 2.67 | 32.89 |
| INC3577 | UPL LTR#2 | 23-11-2019 19:07 | G116Z-1824 | 16.48 | 6219200756 | TANKER | OLW | 4621 | 2.06 | 8.38 | 84.09 | 1.38 | 2.46 | 7.19 |
| INC3579 | UPL LTR#2 | 24-11-2019 10:57 | G107T-6378 | 2.4 | 6219200756 | DRUMS | OLW | 4452 | 5.2 | 1.18 | 84.09 | 1.37 | 5.98 | 4.32 |
| INC3580 | UPL LTR#2 | 24-11-2019 17:12 | G116X-6393 | 8.99 | 6219200756 | TANKER | AQUEOUS | 766 | 2.47 | 8.18 | 58.09 | 6.71 | 2.16 | 32.89 |
| INC3582 | UPL LTR#2 | 25-11-2019 12:22 | G102X-3258 | 15.88 | 6219200756 | TANKER | AQUEOUS | 758 | 2.3 | 7.76 | 57.89 | 6.02 | 2.16 | 31.72 |
| INC3581 | UPL LTR#2 | 25-11-2019 18:02 | G106X-7995 | 16.52 | 6219200756 | TANKER | OLW | 3912 | 2.03 | 9.33 | 79.07 | 1.08 | 2.38 | 2.8 |
| INC3582 | UPL LTR#2 | 26-11-2019 11:21 | G102Y-4046 | 11.74 | 6219200756 | TANKER | AQUEOUS | 598 | 1.85 | 8.67 | 59.92 | 7.47 | 2.8 | 33.81 |
| INC3584 | UPL LTR#2 | 26-11-2019 13:48 | G116Z-0976 | 16.03 | 6219200756 | TANKER | OLW | 4236 | 3.24 | 8.54 | 79.08 | 1.07 | 2.48 | 5.29 |
| INC3583 | UPL LTR#2 | 27-11-2019 11:16 | G101AY-8515 | 8.5 | 6219200756 | TANKER | AQUEOUS | 690 | 1.98 | 8.55 | 59.94 | 7.48 | 2.83 | 32.96 |
| INC3586 | UPL LTR#2 | 27-11-2019 17:40 | G107Z-8586 | 16 | 6219200756 | TANKER | OLW | 4035 | 2.95 | 9.8 | 81.09 | 2.02 | 2.47 | 5.46 |
| INC3585 | UPL LTR#2 | 28-11-2019 13:27 | G102X-3942 | 15.28 | 6219200756 | TANKER | AQUEOUS | 877 | 1.58 | 8.54 | 62.3 | 7.21 | 2.46 | 28.03 |
| INC3588 | UPL LTR#2 | 28-11-2019 18:06 | G116Z-1824 | 14.91 | 6219200756 | TANKER | OLW | 4090 | 3.47 | 8.31 | 82.2 | 0.76 | 2.16 | 2.9 |
| INC3587 | UPL LTR#2 | 29-11-2019 17:18 | G116X-6393 | 12.64 | 6219200756 | TANKER | AQUEOUS | 808 | 1.54 | 8.71 | 58.19 | 7.13 | 2.46 | 31.64 |
| INC3590 | UPL LTR#2 | 29-11-2019 11:47 | G106X-7995 | 15.73 | 6219200756 | TANKER | OLW | 4071 | 2.48 | 8.94 | 79.09 | 1.07 | 2.12 | 4.57 |
| INC3589 | UPL LTR#2 | 30-11-2019 18:19 | G102X-3258 | 16.75 | 6219200756 | TANKER | AQUEOUS | 724 | 2.18 | 8.41 | 59.92 | 7.47 | 2.04 | 31.68 |
| INC3592 | UPL LTR#2 | 30-11-2019 11:11 | G116Z-0976 | 16.24 | 6219200756 | TANKER | OLW | 3021 | 2.18 | 8.59 | 78.82 | 2.82 | 2.07 | 10.49 |
| INC3591 | UPL LTR#2 | 01-12-2019 11:26 | G102Y-4046 | 13.09 | 6219200796 | TANKER | AQUEOUS | 724 | 2.23 | 8.2 | 56.64 | 7.13 | 2.67 | 34.97 |
| INC3593 | UPL LTR#2 | 01-12-2019 12:47 | G107Z-8586 | 15.29 | 6219200796 | TANKER | OLW | 4226 | 2.55 | 10.5 | 81.35 | 1.51 | 2.12 | 3.53 |
| INC3801 | UPL LTR#2 | 01-12-2019 17:22 | G106X-7995 | 15.99 | 6219200796 | TANKER | OLW | 3792 | 3.32 | 9.54 | 80.59 | 2.09 | 2.12 | 4.51 |
| INC3803 | UPL LTR#2 | 02-12-2019 17:00 | G116Z-0976 | 15.24 | 6219200796 | TANKER | OLW | 3835 | 3.16 | 10.6 | 81.09 | 1.43 | 2.22 | 4.08 |
| INC3804 | UPL LTR#2 | 03-12-2019 19:00 | G107Z-8586 | 15.33 | 6219200796 | TANKER | OLW | 3673 | 3.66 | 8.22 | 80.04 | 2.25 | 2.16 | 2.99 |
| INC3594 | UPL LTR#2 | 04-12-2019 12:25 | G102X-3942 | 15.04 | 6219200796 | TANKER | AQUEOUS | 706 | 2.21 | 9.39 | 58.09 | 6.22 | 2.2 | 32.9 |
| INC3806 | UPL LTR#2 | 04-12-2019 18:14 | G116Z-1824 | 16.68 | 6219200796 | TANKER | OLW | 4519 | 2.83 | 9.17 | 79.07 | 1.08 | 2.77 | 6.9 |
| INC3802 | UPL LTR#2 | 05-12-2019 11:39 | G101AY-8515 | 9.13 | 6219200796 | TANKER | AQUEOUS | 803 | 1.96 | 8.96 | 51.29 | 6.53 | 2.1 | 33.17 |
| INC3805 | UPL LTR#2 | 05-12-2019 18:17 | G116X-6393 | 13.98 | 6219200796 | TANKER | AQUEOUS | 553 | 2.18 | 7.88 | 65.32 | 4.33 | 3.18 | 32.89 |
| INC3808 | UPL LTR#2 | 05-12-2019 17:50 | G107T-6378 | 2.48 | 6219200796 | DRUMS | OLW | 3754 | 5.74 | 0.803 | 85.08 | 1.1 | 1.88 | 5.4 |
| INC3807 | UPL LTR#2 | 06-12-2019 15:00 | G102X-3258 | 14.62 | 6219200796 | TANKER | AQUEOUS | 534 | 2.79 | 8.45 | 57.12 | 7.12 | 3.19 | 32.87 |
| INC3810 | UPL LTR#2 | 06-12-2019 10:35 | G106X-7995 | 15.33 | 6219200796 | TANKER | OLW | 4418 | 1.91 | 8.61 | 86.08 | 1.12 | 2.32 | 6.29 |
| INC3811 | UPL LTR#2 | 06-12-2019 12:03 | G116Z-0976 | 15.16 | 6219200796 | TANKER | OLW | 3386 | 1.15 | 8.69 | 80.18 | 2.16 | 2.25 | 2.38 |
| INC3809 | UPL LTR#2 | 07-12-2019 11:03 | G102Y-4046 | 13.95 | 6219200796 | TANKER | AQUEOUS | 531 | 2 | 8.47 | 56.67 | 7.12 | 2.6 | 32.96 |
| INC3812 | UPL LTR#2 | 07-12-2019 17:55 | G102X-3942 | 14.67 | 6219200796 | TANKER | AQUEOUS | 552 | 2.72 | 8.23 | 56.79 | 8.22 | 2.06 | 31.25 |
| INC3813 | UPL LTR#2 | 07-12-2019 10:49 | G116Z-1824 | 15.07 | 6219200796 | TANKER | OLW | 3570 | 1.17 | 8.6 | 80.08 | 3.24 | 2.11 | 3.43 |
| INC3814 | UPL LTR#2 | 07-12-2019 17:58 | G116Z-0976 | 15.09 | 6219200796 | TANKER | OLW | 3890 | 3.37 | 11.9 | 81.35 | 1.09 | 2.2 | 4.65 |
| INC3815 | UPL LTR#2 | 08-12-2019 18:21 | G107Z-8586 | 21.5 | 6219200796 | TANKER | AQUEOUS | 629 | 2.37 | 8.94 | 48.63 | 6.73 | 2.1 | 32.13 |
| INC3817 | UPL LTR#2 | 08-12-2019 18:25 | G106X-7995 | 14.16 | 6219200796 | TANKER | OLW | 3582 | 3.33 | 11.4 | 76.13 | 3.04 | 2.31 | 3.8 |
| INC3816 | UPL LTR#2 | 09-12-2019 11:39 | G116X-6393 | 13.2 | 6219200796 | TANKER | AQUEOUS | 654 | 2.1 | 9.34 | 64.31 | 3.02 | 2.12 | 34.18 |
| INC3818 | UPL LTR#2 | 09-12-2019 14:57 | G116Z-1824 | 16.25 | 6219200796 | TANKER | OLW | 3648 | 3.1 | 10.4 | 78.82 | 2.12 | 2.06 | 3.88 |
| INC3819 | UPL LTR#2 | 10-12-2019 15:22 | G102Y-4046 | 11.3 | 6219200796 | TANKER | AQUEOUS | 497 | 2.1 | 8.13 | 56.78 | 6.79 | 2.06 | 31.41 |
| INC3770 | UPL LTR#2 | 11-12-2019 14:12 | G116Z-0976 | 14.82 | 6219200838 | TANKER | OLW | 3276 | 3.52 | 10.5 | 81.09 | 3.01 | 2.46 | 5.04 |
| INC3772 | UPL LTR#2 | 11-12-2019 11:53 | G102X-3942 | 14.46 | 6219200838 | TANKER | AQUEOUS | 435 | 2.64 | 8.28 | 58.09 | 6.71 | 2.22 | 32.11 |
| INC3773 | UPL LTR#2 | 12-12-2019 10:10 | G101AY-8515 | 11.22 | 6219200838 | TANKER | OLW | 3496 | 3.11 | 14.5 | 81.08 | 1.42 | 2.07 | 3.72 |
| INC3775 | UPL LTR#2 | 12-12-2019 11:24 | G107Z-8586 | 18.22 | 6219200838 | TANKER | AQUEOUS | 455 | 1.84 | 10.2 | 57.1 | 6.27 | 2.12 | 30.28 |
| INC3774 | UPL LTR#2 | 13-12-2019 18:01 | G116Z-1824 | 16.59 | 6219200838 | TANKER | OLW | 4437 | 2.87 | 10.4 | 84.09 | 1.37 | 2.76 | 3.55 |
| INC3777 | UPL LTR#2 | 13-12-2019 18:51 | G106X-7995 | 15.78 | 6219200838 | TANKER | OLW | 4430 | 2.51 | 12.1 | 81.02 | 1.77 | 2.19 | 3.08 |
| INC3776 | UPL LTR#2 | 14-12-2019 11:05 | G116Z-0976 | 15.56 | 6219200838 | TANKER | OLW | 4400 | 2.44 | 12.6 | 81.08 | 1.42 | 2.29 | 2.84 |
| INC3778 | UPL LTR#2 | 14-12-2019 09:30 | G116X-6393 | 13.26 | 6219200838 | TANKER | AQUEOUS | 447 | 2.01 | 6.98 | 57.12 | 7.12 | 2.98 | 37.08 |
| INC3779 | UPL LTR#2 | 14-12-2019 16:44 | G102Y-4046 | 14.47 | 6219200838 | TANKER | AQUEOUS | 529 | 2.72 | 7.05 | 57.09 | 6.27 | 2.89 | 32.89 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|------|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC3781 | UPL LTR#2 | 14-12-2019 18:56 | G116Z-1824 | 18.6 | 6219200838 | TANKER | OLW | 4427 | 2.56 | 8.68 | 84.09 | 1.38 | 2.39 | 3.55 |
| INC3782 | UPL LTR#2 | 15-12-2019 18:02 | G106X-7995 | 15.61 | 6219200838 | TANKER | OLW | 3641 | 2.56 | 4.76 | 79.07 | 1.08 | 2.04 | 2.52 |
| INC3780 | UPL LTR#2 | 16-12-2019 18:04 | G101AY-8515 | 9.49 | 6219200838 | TANKER | OLW | 4428 | 2.25 | 9.08 | 81.09 | 2.02 | 3.02 | 4.43 |
| INC3783 | UPL LTR#2 | 17-12-2019 14:05 | G116Z-0976 | 15.73 | 6219200838 | TANKER | OLW | 3814 | 3.03 | 10.4 | 78.84 | 2.13 | 2.1 | 3.54 |
| INC3784 | UPL LTR#2 | 17-12-2019 18:38 | G107Z-8586 | 17.69 | 6219200838 | TANKER | AQUEOUS | 548 | 2.12 | 7.1 | 54.15 | 7.21 | 2.61 | 33.16 |
| INC3786 | UPL LTR#2 | 17-12-2019 12:08 | G107T-6378 | 11.66 | 6219200838 | DRUMS | AQUEOUS | 656 | 2.95 | 8.09 | 56.11 | 6.89 | 2.98 | 29.9 |
| INC3787 | UPL LTR#2 | 17-12-2019 18:35 | G102X-3942 | 15.7 | 6219200838 | TANKER | AQUEOUS | 603 | 2.98 | 7.52 | 58.21 | 5.7 | 2.74 | 27.69 |
| INC3785 | UPL LTR#2 | 18-12-2019 08:36 | G116Z-1824 | 14.29 | 6219200838 | TANKER | OLW | 4154 | 3.18 | 8.2 | 74.48 | 2.13 | 2.96 | 6.89 |
| INC3788 | UPL LTR#2 | 19-12-2019 12:02 | G106X-7995 | 15.76 | 6219200838 | TANKER | OLW | 4192 | 2.82 | 8.33 | 77.07 | 2.08 | 2.23 | 6.98 |
| INC3789 | UPL LTR#2 | 19-12-2019 17:28 | G101AY-8515 | 11.3 | 6219200838 | TANKER | OLW | 4369 | 2.44 | 7.89 | 78.81 | 1.9 | 2.55 | 8.24 |
| INC3790 | UPL LTR#2 | 19-12-2019 10:25 | G107T-6378 | 2.63 | 6219200838 | DRUMS | OLW | 5836 | 3.4 | 1.37 | 81.08 | 1.02 | 0.26 | 4.29 |
| INC3791 | UPL LTR#2 | 19-12-2019 12:25 | G102X-3258 | 14.23 | 6219200838 | TANKER | AQUEOUS | 623 | 2.9 | 6.33 | 56.24 | 6.17 | 2.96 | 30.29 |
| INC3793 | UPL LTR#2 | 19-12-2019 17:41 | G116X-6393 | 15.15 | 6219200838 | TANKER | AQUEOUS | 417 | 2.2 | 7.45 | 56.08 | 6.79 | 2.6 | 31.74 |
| INC3794 | UPL LTR#2 | 20-12-2019 14:55 | G116Z-0976 | 15.9 | 6219200838 | TANKER | OLW | 4428 | 2.89 | 8.47 | 77.37 | 2.13 | 2.2 | 6.89 |
| INC3792 | UPL LTR#2 | 20-12-2019 13:13 | G102Y-4046 | 8.97 | 6219200838 | TANKER | AQUEOUS | 434 | 2.36 | 7.3 | 78.08 | 2.08 | 3.88 | 57.51 |
| INC3796 | UPL LTR#2 | 21-12-2019 11:56 | G107Z-8586 | 17.63 | 6219200885 | TANKER | AQUEOUS | 400 | 2.4 | 7.8 | 62.3 | 7.16 | 2.16 | 32.54 |
| INC3795 | UPL LTR#2 | 22-12-2019 18:03 | G116Z-1824 | 17.29 | 6219200885 | TANKER | OLW | 3860 | 3.15 | 9.65 | 80.08 | 2.79 | 2.16 | 4.66 |
| INC3797 | UPL LTR#2 | 22-12-2019 11:50 | G102X-3942 | 15.86 | 6219200885 | TANKER | AQUEOUS | 382 | 2.26 | 8.25 | 56.12 | 7.17 | 2.16 | 29.64 |
| INC3798 | UPL LTR#2 | 24-12-2019 11:38 | G102X-3258 | 17.57 | 6219200885 | TANKER | AQUEOUS | 412 | 2.37 | 8.3 | 54.08 | 7.03 | 2.1 | 30.45 |
| INC3799 | UPL LTR#2 | 25-12-2019 13:05 | G116X-6393 | 16.62 | 6219200885 | TANKER | AQUEOUS | 462 | 2.17 | 7.59 | 56.08 | 7.14 | 2.06 | 30.72 |
| INC3800 | UPL LTR#2 | 26-12-2019 13:25 | G102Y-4046 | 16.37 | 6219200885 | TANKER | AQUEOUS | 749 | 1.97 | 7.05 | 56.14 | 6.13 | 2.54 | 25.94 |
| INC4251 | UPL LTR#2 | 27-12-2019 17:52 | G107Z-8586 | 18.76 | 6219200885 | TANKER | AQUEOUS | 611 | 2.96 | 7.53 | 55.12 | 6.12 | 1.85 | 25.9 |
| INC4252 | UPL LTR#2 | 28-12-2019 12:55 | G102X-3258 | 17.41 | 6219200885 | TANKER | AQUEOUS | 472 | 2.38 | 7.13 | 55.12 | 6.73 | 2.06 | 30.1 |
| INC4253 | UPL LTR#2 | 29-12-2019 11:31 | G102X-3942 | 15.96 | 6219200885 | TANKER | AQUEOUS | 410 | 2.65 | 7.35 | 58.2 | 6.77 | 2.16 | 37.85 |
| INC4254 | UPL LTR#2 | 29-12-2019 15:04 | G116X-6393 | 16.05 | 6219200885 | TANKER | AQUEOUS | 483 | 2.46 | 7.37 | 47.22 | 7.53 | 2.14 | 31.46 |
| INC4255 | UPL LTR#2 | 30-12-2019 14:40 | G102Y-4046 | 15.7 | 6219200885 | TANKER | AQUEOUS | 421 | 2.13 | 8.17 | 55.12 | 6.12 | 2.94 | 26.29 |
| INC4256 | UPL LTR#2 | 30-12-2019 17:05 | G107Z-8586 | 17.74 | 6219200885 | TANKER | AQUEOUS | 454 | 1.96 | 7.95 | 56.24 | 7.11 | 2.16 | 30.28 |
| INC4257 | UPL LTR#2 | 01-01-2020 11:26 | G102X-3258 | 17.04 | 6219200930 | TANKER | AQUEOUS | 519 | 1.84 | 7.73 | 58.67 | 7.16 | 2.16 | 29.81 |
| INC4259 | UPL LTR#2 | 02-01-2020 17:05 | G116X-6393 | 16.17 | 6219200930 | TANKER | AQUEOUS | 660 | 2.21 | 7.6 | 58.61 | 6.79 | 3.82 | 30.48 |
| INC4260 | UPL LTR#2 | 03-01-2020 18:05 | G102Y-4046 | 12.89 | 6219200930 | TANKER | AQUEOUS | 447 | 1.5 | 8.09 | 71.08 | 3.89 | 2.3 | 32.46 |
| INC4261 | UPL LTR#2 | 04-01-2020 17:53 | G107Z-8586 | 14.13 | 6219200930 | TANKER | AQUEOUS | 560 | 1.76 | 9.31 | 47.22 | 7.53 | 3.94 | 30 |
| INC4262 | UPL LTR#2 | 05-01-2020 19:07 | G102X-3258 | 16.56 | 6219200930 | TANKER | AQUEOUS | 481 | 2.84 | 6.02 | 59.19 | 6.98 | 2.2 | 28.28 |
| INC4263 | UPL LTR#2 | 06-01-2020 16:18 | G116X-6393 | 15.19 | 6219200930 | TANKER | AQUEOUS | 483 | 3.25 | 7.37 | 59.92 | 7.47 | 2.86 | 28.5 |
| INC4265 | UPL LTR#2 | 07-01-2020 17:03 | G107T-6378 | 11.23 | 6219200930 | DRUMS | AQUEOUS | 507 | 2.44 | 8.39 | 58.17 | 6.93 | 3.8 | 35.2 |
| INC4266 | UPL LTR#2 | 07-01-2020 17:15 | G102Y-4046 | 12.76 | 6219200930 | TANKER | AQUEOUS | 439 | 2.52 | 7.08 | 54.08 | 6.33 | 2.84 | 28.46 |
| INC4268 | UPL LTR#2 | 08-01-2020 18:31 | G107T-6378 | 4.23 | 6219200930 | DRUMS | AQUEOUS | 711 | 1.35 | 7.62 | 45.34 | 5.92 | 3.5 | 27.56 |
| INC4269 | UPL LTR#2 | 09-01-2020 11:55 | G102X-3258 | 14.3 | 6219200930 | TANKER | AQUEOUS | 529 | 1.11 | 6.41 | 51.27 | 6.26 | 3.68 | 31.46 |
| INC4270 | UPL LTR#2 | 10-01-2020 16:05 | G102X-3942 | 15.97 | 6219200930 | TANKER | AQUEOUS | 557 | 1.56 | 7.72 | 55.08 | 7.62 | 2.71 | 24.72 |
| INC4271 | UPL LTR#2 | 12-01-2020 10:46 | G102Y-4046 | 12.86 | 6219200967 | TANKER | AQUEOUS | 805 | 1.67 | 7.8 | 58.12 | 7.17 | 3.16 | 30.02 |
| INC4272 | UPL LTR#2 | 12-01-2020 16:28 | G107Z-8586 | 16.08 | 6219200967 | TANKER | AQUEOUS | 678 | 2.5 | 8.9 | 58.67 | 6.72 | 2.86 | 28.32 |
| INC4273 | UPL LTR#2 | 14-01-2020 08:42 | G102X-3258 | 17.57 | 6219200967 | TANKER | AQUEOUS | 637 | 2.52 | 7.32 | 57.21 | 7.43 | 5.4 | 28.63 |
| INC4274 | UPL LTR#2 | 14-01-2020 15:15 | G116X-6393 | 17.14 | 6219200967 | TANKER | AQUEOUS | 530 | 2.26 | 7.01 | 56.21 | 6.43 | 2.84 | 31.46 |
| INC4275 | UPL LTR#2 | 15-01-2020 18:24 | G102X-3942 | 16.3 | 6219200967 | TANKER | AQUEOUS | 477 | 1.76 | 8.24 | 55.12 | 6.73 | 2.02 | 23.04 |
| INC4276 | UPL LTR#2 | 16-01-2020 15:03 | G102Y-4046 | 12.22 | 6219200967 | TANKER | AQUEOUS | 874 | 2.38 | 7.73 | 44.39 | 6.25 | 2.86 | 29.1 |
| INC4277 | UPL LTR#2 | 17-01-2020 17:17 | G107Z-8586 | 17.36 | 6219200967 | TANKER | AQUEOUS | 762 | 1.14 | 8.01 | 58.08 | 6.01 | 2.46 | 28.31 |
| INC4279 | UPL LTR#2 | 19-01-2020 14:51 | G116X-6393 | 16.67 | 6219200967 | TANKER | AQUEOUS | 662 | 1.83 | 8.4 | 59.24 | 6.86 | 1.9 | 29.14 |
| INC4278 | UPL LTR#2 | 19-01-2020 17:19 | G102X-3258 | 16.69 | 6219200967 | TANKER | AQUEOUS | 641 | 1.84 | 7.96 | 58.21 | 6.44 | 2.08 | 29.21 |
| INC4280 | UPL LTR#2 | 20-01-2020 16:46 | G102X-3942 | 15.42 | 6219200967 | TANKER | AQUEOUS | 824 | 2.7 | 7.21 | 58.61 | 7.01 | 2.19 | 30.9 |
| INC4281 | UPL LTR#2 | 22-01-2020 14:59 | G102Y-4046 | 12.56 | 6219201010 | TANKER | AQUEOUS | 875 | 1.42 | 5.4 | 58.18 | 7.12 | 3 | 32.96 |
| INC4282 | UPL LTR#2 | 22-01-2020 18:12 | G102X-3258 | 10.38 | 6219201010 | TANKER | AQUEOUS | 525 | 2.12 | 1.46 | 78.11 | 2.12 | 2.5 | 6.94 |
| INC4283 | UPL LTR#2 | 24-01-2020 16:27 | G107Z-8586 | 15.03 | 6219201010 | TANKER | AQUEOUS | 366 | 1.13 | 7.38 | 58.18 | 7.12 | 2.77 | 30.84 |
| INC4284 | UPL LTR#2 | 27-01-2020 11:36 | G116X-6393 | 14.25 | 6219201010 | TANKER | AQUEOUS | 757 | 2.15 | 6.73 | 58.67 | 7.16 | 2.81 | 32.9 |
| INC4290 | UPL LTR#2 | 27-01-2020 18:31 | G102X-3942 | 10.89 | 6219201010 | TANKER | AQUEOUS | 551 | 1.74 | 8.56 | 56.08 | 7.13 | 2.2 | 32.28 |
| INC4292 | UPL LTR#2 | 29-01-2020 10:59 | G102X-3258 | 15.09 | 6219201010 | TANKER | AQUEOUS | 831 | 2.29 | 6.17 | 58.08 | 7.12 | 2.75 | 30.18 |
| INC4285 | UPL LTR#2 | 30-01-2020 17:45 | G107Z-8586 | 16.71 | 6219201010 | TANKER | AQUEOUS | 606 | 1.3 | 7.42 | 59.08 | 7.12 | 2.46 | 33.81 |
| INC4291 | UPL LTR#2 | 31-01-2020 11:46 | G102Y-4046 | 10.77 | 6219201010 | TANKER | AQUEOUS | 437 | 1.72 | 6.84 | 58.11 | 7.12 | 2.2 | 28.16 |
| INC4286 | UPL LTR#2 | 01-02-2020 11:52 | G116X-6393 | 15.15 | 6219201056 | TANKER | AQUEOUS | 463 | 3.3 | 7.68 | 59.61 | 6.98 | 2.2 | 75.5 |
| INC4287 | UPL LTR#2 | 02-02-2020 17:40 | G102X-3942 | 15.08 | 6219201056 | TANKER | AQUEOUS | 788 | 2.06 | 5.03 | 60.12 | 7.14 | 3.08 | 28.96 |
| INC4289 | UPL LTR#2 | 03-02-2020 18:27 | G107Z-8586 | 17.31 | 6219201056 | TANKER | AQUEOUS | 495 | 2.38 | 1.6 | 48.55 | 5.37 | 2.42 | 29.23 |
| INC4288 | UPL LTR#2 | 04-02-2020 11:13 | G102X-3258 | 15.04 | 6219201056 | TANKER | AQUEOUS | 717 | 2.8 | 3.99 | 51.35 | 6.22 | 2.56 | 38.83 |
| INC4294 | UPL LTR#2 | 04-02-2020 18:25 | G116X-6393 | 15.18 | 6219201056 | TANKER | AQUEOUS | 423 | 2.09 | 5.87 | 48.66 | 6.25 | 2.24 | 28.82 |

| BEIL - FINGER PRINT ANALYSIS REPORT - UPL2 - INCINERABLE WASTE - APRIL 2019 TO MARCH 2020 | | | | | | | | | | | | | | |
|---|-----------|------------------|----------------|-------------|-----------------|--------------|-------------|-----|---------|---------|-------|-------------|------|------------------|
| MF_REFNO | CUST_NAME | OUTWARD_DATE | VEHICLE_NUMBER | RECEIPT_QTY | CUST_INVOICE_ID | PACKAGE_TYPE | WASTE_STATE | CV | HALOGEN | SUPPHUR | LOD | ASH_CONTENT | PH | MOISTURE_CONTENT |
| INC4293 | UPL LTR#2 | 05-02-2020 16:49 | G102Y-4046 | 10.6 | 6219201056 | TANKER | AQUEOUS | 547 | 2.17 | 4.33 | 58.18 | 7.12 | 2.41 | 32.21 |
| INC4295 | UPL LTR#2 | 05-02-2020 18:34 | G102X-3942 | 13.99 | 6219201056 | TANKER | AQUEOUS | 531 | 3.51 | 3.02 | 56.12 | 7.12 | 2.2 | 30.1 |
| INC4297 | UPL LTR#2 | 07-02-2020 16:42 | G102X-3258 | 14.6 | 6219201056 | TANKER | AQUEOUS | 705 | 2.4 | 4.02 | 57.12 | 6.82 | 2.89 | 30.29 |
| INC4298 | UPL LTR#2 | 08-02-2020 17:44 | G107Z-8586 | 17.68 | 6219201056 | TANKER | AQUEOUS | 435 | 4.26 | 4.06 | 73.12 | 2.12 | 2.23 | 45.02 |
| INC4296 | UPL LTR#2 | 09-02-2020 11:37 | G106X-7995 | 10.53 | 6219201056 | TANKER | AQUEOUS | 571 | 2.73 | 4.5 | 72.12 | 2.12 | 4.52 | 65.68 |
| INC4299 | UPL LTR#2 | 09-02-2020 16:40 | G116X-6393 | 14.29 | 6219201056 | TANKER | AQUEOUS | 457 | 2.56 | 6.19 | 72.13 | 6.12 | 2.77 | 27.76 |
| INC4300 | UPL LTR#2 | 10-02-2020 18:27 | G102Y-4046 | 8.6 | 6219201056 | TANKER | AQUEOUS | 434 | 3.13 | 3.21 | 56.11 | 7.01 | 2.74 | 10.95 |
| INC4389 | UPL LTR#2 | 12-02-2020 11:17 | G102X-3942 | 15.95 | 6219201117 | TANKER | AQUEOUS | 434 | 2.6 | 4.27 | 54.18 | 7.12 | 3.1 | 28.3 |
| INC4391 | UPL LTR#2 | 12-02-2020 16:48 | G116X-6393 | 13.93 | 6219201117 | TANKER | AQUEOUS | 664 | 2.64 | 4.68 | 59.18 | 6.57 | 3.15 | 32.9 |
| INC4390 | UPL LTR#2 | 13-02-2020 12:10 | G102X-3258 | 14.74 | 6219201117 | TANKER | AQUEOUS | 592 | 1.91 | 4.34 | 58.67 | 6.98 | 3.04 | 30.67 |
| INC4392 | UPL LTR#2 | 13-02-2020 17:28 | G107Z-8586 | 17.98 | 6219201117 | TANKER | AQUEOUS | 450 | 2.47 | 10.2 | 54.08 | 6.79 | 3.16 | 33.12 |
| INC4393 | UPL LTR#2 | 14-02-2020 17:17 | G106X-7995 | 12.06 | 6219201117 | TANKER | AQUEOUS | 673 | 3.4 | 13.2 | 72.12 | 4.14 | 8.47 | 48.35 |
| INC4394 | UPL LTR#2 | 15-02-2020 16:19 | G102Y-4046 | 10.28 | 6219201117 | TANKER | AQUEOUS | 448 | 1.59 | 8.89 | 57.12 | 6.82 | 2.9 | 31.63 |
| INC4395 | UPL LTR#2 | 16-02-2020 16:04 | G116X-6393 | 15.38 | 6219201117 | TANKER | AQUEOUS | 452 | 2.09 | 3.74 | 57.12 | 6.22 | 3 | 30.78 |
| INC4396 | UPL LTR#2 | 17-02-2020 17:58 | G102X-3258 | 13.55 | 6219201117 | TANKER | AQUEOUS | 430 | 1.47 | 4.87 | 58.18 | 7.12 | 2.42 | 27.3 |
| INC4398 | UPL LTR#2 | 18-02-2020 17:37 | G107Z-8586 | 13.13 | 6219201117 | TANKER | AQUEOUS | 425 | 1.93 | 4.67 | 58.18 | 6.78 | 3.21 | 25 |
| INC4397 | UPL LTR#2 | 18-02-2020 18:33 | G102X-3942 | 12.97 | 6219201117 | TANKER | AQUEOUS | 410 | 2.14 | 7.2 | 55.12 | 5.14 | 3 | 29.83 |
| INC4399 | UPL LTR#2 | 19-02-2020 15:13 | G102Y-4046 | 11.61 | 6219201117 | TANKER | AQUEOUS | 467 | 1.73 | 9.34 | 74.12 | 1.79 | 3.28 | 37.77 |
| INC4400 | UPL LTR#2 | 20-02-2020 16:11 | G116X-6393 | 13.47 | 6219201117 | TANKER | AQUEOUS | 512 | 1.77 | 8.38 | 47.22 | 7.53 | 3.19 | 34.49 |
| INC4401 | UPL LTR#2 | 22-02-2020 11:28 | G102X-3258 | 11.6 | 6219201175 | TANKER | AQUEOUS | 506 | 2.38 | 5.52 | 58.67 | 7.16 | 2.7 | 33.55 |
| INC4402 | UPL LTR#2 | 22-02-2020 16:23 | G107Z-8586 | 14.52 | 6219201175 | TANKER | AQUEOUS | 398 | 1.68 | 8.7 | 58.18 | 6.78 | 2.99 | 39.31 |
| INC4403 | UPL LTR#2 | 23-02-2020 11:39 | G106X-7995 | 13.38 | 6219201175 | TANKER | AQUEOUS | 494 | 3.64 | 3.69 | 87.81 | 1.58 | 6.18 | 76.42 |
| INC4404 | UPL LTR#2 | 23-02-2020 16:43 | G102X-3942 | 14.78 | 6219201175 | TANKER | AQUEOUS | 622 | 2.86 | 6.26 | 55.12 | 6.12 | 2.44 | 31.69 |
| INC4405 | UPL LTR#2 | 24-02-2020 14:58 | G102Y-4046 | 11.82 | 6219201175 | TANKER | AQUEOUS | 799 | 2.03 | 9.15 | 48.54 | 6.67 | 2.31 | 29.6 |
| INC4406 | UPL LTR#2 | 25-02-2020 15:09 | G116X-6393 | 11.82 | 6219201175 | TANKER | AQUEOUS | 463 | 2.61 | 9.35 | 48.24 | 6.22 | 2.2 | 32.28 |
| INC4407 | UPL LTR#2 | 26-02-2020 15:51 | G107Z-8586 | 15.94 | 6219201175 | TANKER | AQUEOUS | 673 | 1.98 | 6.78 | 46.25 | 6.57 | 2.56 | 28.9 |
| INC4408 | UPL LTR#2 | 28-02-2020 14:01 | G102X-3942 | 11.85 | 6219201175 | TANKER | AQUEOUS | 492 | 2.27 | 8.21 | 66.35 | 6.87 | 2.86 | 57.58 |
| INC4409 | UPL LTR#2 | 28-02-2020 17:34 | G102X-3258 | 12.1 | 6219201175 | TANKER | AQUEOUS | 401 | 2.29 | 8.33 | 56.12 | 6.42 | 2.69 | 27.56 |
| INC4410 | UPL LTR#2 | 29-02-2020 15:47 | G102Y-4046 | 12.83 | 6219201175 | TANKER | AQUEOUS | 655 | 2.33 | 8.88 | 54.11 | 7.12 | 2.84 | 29.5 |
| INC4411 | UPL LTR#2 | 01-03-2020 15:52 | G116X-6393 | 12.95 | 6219201229 | TANKER | AQUEOUS | 614 | 2.29 | 8.88 | 56.24 | 7.11 | 2 | 25.33 |
| INC4412 | UPL LTR#2 | 02-03-2020 16:01 | G107Z-8586 | 16.17 | 6219201229 | TANKER | AQUEOUS | 328 | 2.21 | 7.73 | 56.14 | 7.71 | 2.21 | 26.82 |
| INC4413 | UPL LTR#2 | 03-03-2020 17:56 | G102X-3942 | 13.14 | 6219201229 | TANKER | AQUEOUS | 405 | 3.03 | 8.81 | 56.81 | 4.21 | 2.55 | 27.1 |
| INC4414 | UPL LTR#2 | 04-03-2020 17:04 | G102X-3258 | 13.31 | 6219201229 | TANKER | AQUEOUS | 420 | 3.15 | 8.19 | 57.36 | 5.41 | 2.2 | 32.9 |
| INC4415 | UPL LTR#2 | 05-03-2020 15:31 | G102Y-4046 | 9.82 | 6219201229 | TANKER | AQUEOUS | 625 | 2.3 | 8.5 | 55.15 | 5.42 | 2.69 | 32.88 |
| INC4416 | UPL LTR#2 | 05-03-2020 17:50 | G106X-7995 | 13.63 | 6219201229 | TANKER | AQUEOUS | 651 | 4.12 | 8.12 | 75.15 | 3.11 | 9.89 | 62.56 |
| INC4417 | UPL LTR#2 | 07-03-2020 09:24 | G116X-6393 | 11.7 | 6219201229 | TANKER | AQUEOUS | 434 | 2.99 | 7.49 | 56.71 | 4.61 | 2.2 | 28.43 |
| INC4418 | UPL LTR#2 | 07-03-2020 17:37 | G107Z-8586 | 16 | 6219201229 | TANKER | AQUEOUS | 720 | 2.9 | 6.31 | 56.72 | 5.41 | 2.51 | 32.96 |
| INC4419 | UPL LTR#2 | 08-03-2020 17:10 | G102X-3258 | 13.29 | 6219201229 | TANKER | AQUEOUS | 421 | 2.07 | 7.92 | 56.28 | 7.11 | 2.6 | 27.6 |
| INC4420 | UPL LTR#2 | 09-03-2020 15:37 | G102Y-4046 | 11.32 | 6219201229 | TANKER | AQUEOUS | 438 | 2.88 | 1.81 | 75.21 | 6.71 | 2.4 | 41.5 |
| INC4421 | UPL LTR#2 | 10-03-2020 11:33 | G102X-3942 | 11.34 | 6219201229 | TANKER | AQUEOUS | 469 | 3.26 | 3.92 | 72.42 | 3.42 | 2.81 | 60.01 |
| INC5502 | UPL LTR#2 | 10-03-2020 14:54 | G116X-6393 | 12.94 | 6219201229 | TANKER | AQUEOUS | 700 | 1.92 | 7.3 | 56.77 | 6.32 | 2.7 | 39.48 |
| INC5503 | UPL LTR#2 | 11-03-2020 18:45 | G107Z-8586 | 17.75 | 6219201278 | TANKER | AQUEOUS | 460 | 1.48 | 7.32 | 56.72 | 4.53 | 3 | 29.23 |
| INC5504 | UPL LTR#2 | 12-03-2020 16:11 | G116X-6393 | 11.95 | 6219201278 | TANKER | AQUEOUS | 453 | 2.5 | 8.81 | 59.92 | 7.47 | 2.2 | 34.63 |
| INC5505 | UPL LTR#2 | 14-03-2020 16:28 | G102X-3258 | 11.87 | 6219201278 | TANKER | AQUEOUS | 479 | 2.48 | 8.96 | 65.04 | 2.02 | 3.38 | 34.13 |
| INC5506 | UPL LTR#2 | 15-03-2020 15:56 | G102Y-4046 | 12.28 | 6219201278 | TANKER | AQUEOUS | 877 | 1.43 | 7.71 | 48.5 | 5.21 | 2.85 | 28.56 |
| INC5507 | UPL LTR#2 | 15-03-2020 16:45 | G116X-6393 | 11.71 | 6219201278 | TANKER | AQUEOUS | 732 | 0.99 | 7.32 | 52.29 | 5.37 | 2.8 | 29.5 |
| INC5508 | UPL LTR#2 | 16-03-2020 18:03 | G107Z-8586 | 16.55 | 6219201278 | TANKER | AQUEOUS | 799 | 2.65 | 7.48 | 49.53 | 2.98 | 2.49 | 28.98 |
| INC5509 | UPL LTR#2 | 17-03-2020 16:41 | G116X-6393 | 11.13 | 6219201278 | TANKER | AQUEOUS | 836 | 1.31 | 6.88 | 56.72 | 4.02 | 2.15 | 29.12 |
| INC5510 | UPL LTR#2 | 18-03-2020 18:23 | G102X-3258 | 13.13 | 6219201278 | TANKER | AQUEOUS | 773 | 3.02 | 7.95 | 56.15 | 3.12 | 2.16 | 27.38 |
| INC5511 | UPL LTR#2 | 19-03-2020 17:31 | G102Y-4046 | 12.3 | 6219201278 | TANKER | AQUEOUS | 498 | 2.38 | 8.44 | 56.42 | 4.52 | 3.6 | 25.63 |
| INC5492 | UPL LTR#2 | 20-03-2020 16:36 | G102X-3942 | 12.87 | 6219201278 | TANKER | AQUEOUS | 689 | 1.48 | 7.3 | 57.25 | 4.12 | 2.9 | 29.56 |



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Environment,
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Project Consultant

Work Order No : f/15

Dated: 28 / 04 / 19

TEST REPORT

Test Report No: EP/UPL-2/2020/1165-1

Issue Date: 08 / 02 / 20

Customer's Name &Address: UPL Ltd. (Unit-2)

Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|-----------------------------|---|------------------------|---------------------------|
| Description of Sample | Stack attached to NH ₃ Scrubber (Acephate Plant) | Quantity/No. of Sample | 1 / 1 No |
| Sampling By | ENPRO Team | Packing/Seal | Sealed |
| Date of Sampling | 03 / 02 / 20 | | |
| Sample Received Date | 04 / 02 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 04 / 02 / 20 | Date of Completion | 07 / 02 / 20 |
| Sampling Method | IS : 11255 | Sample ID | EP/ST/0220/1 |
| Duration of sampling (min.) | 15 min. | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|----------------------------|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 36 | - | - |
| 3. | Avg. Velocity | m/s | 11.2 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 4854 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.4 | - | - |
| 6. | Ammonia (NH ₃) | mg/Nm ³ | BDL | 30 | IS : 11255 (Part 6) - 1999 |

Note: BDL: - Below Detectable Limit

ANALYSED BY

C. A. D. D.
AUTHORIZED SIGNATORY

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Work Order No : f /15

Dated: 28 / 04 / 19

TEST REPORT

Test Report No : EP/UPL-2/2020/1165-2

Issue Date: 08 / 02 / 20

Customer's Name &Address: **UPL Ltd. (Unit-2)**
Plot No -3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|-----------------------------|--------------------------------------|------------------------|-----------------------------|
| Description of Sample | : Stack attached to Fume Incinerator | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 03 / 02 / 20 | | |
| Sample Received Date | : 04 / 02 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 04 / 02 / 20 | Date of Completion | : 07 / 02 / 20 |
| Sampling Method | : As per IS:11255 | Sample ID | : EP/ST/0220/2 |
| Duration of sampling (min.) | : 60 min | Fuel | : Natural Gas |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|---------------------|---------|------------|----------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 169 | - | - |
| 3. | Avg. Velocity | m/s | 9.3 | - | IS : 11255 (Part 3) - 2008 |
| 4. | Avg. flow rate | m ³ /hr. | 6379 | - | IS : 11255 (Part 3) - 2008 |
| 5. | Stack Dia. | m | 0.6 | - | - |
| 6. | Particulate Matter (PM) | mg/Nm ³ | 5.4 | 150 | IS : 11255 (Part 1) - 1985 |
| 7. | Sulphur Dioxide (SO ₂) | mg/Nm ³ | 23.8 | 40 | IS : 11255 (Part 2) - 1985 |
| 8. | Oxides of Nitrogen (as NO ₂) | mg/Nm ³ | 15.3 | 25 | IS : 11255 (Part 7) -2005 |
| 9. | Hydrochloride (HCl) | mg/Nm ³ | BDL | 20 | USEPA Part-0050 |
| 10. | Chlorine (Cl ₂) | mg/Nm ³ | BDL | 5.0 | IS : 5182 (Part 19) - 1982 |
| 11. | HCN | mg/Nm ³ | BDL | 30 | As per Standard method |
| 12. | Ammonia (NH ₃) | mg/Nm ³ | BDL | 30 | IS : 11255 (Part 6) - 1999 |
| 13. | Hydrocarbon (H.C.) | mg/Nm ³ | BDL | 15 | Gas Chromatography |

Note: BDL : - Below Detectable Limit

[Signature]
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[Signature]
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192003 **240**



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Work Order No : f/15

Dated: 28 / 04 / 19

TEST REPORT

Test Report No.: EP/UPL-2/2020/1165-3

Issue Date: 08 / 02 / 20

Customer's Name & Address: **UPL Ltd. (Unit-2)**
Plot No. -3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|-----------------------------|------------------------------|------------------------|-----------------------------|
| Description of Sample | : Stack attached to D.G. - 2 | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | : ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | : 03 / 02 / 20 | | |
| Sample Received Date | : 04 / 02 / 20 | Protocol (purpose) | : Stack Emission Monitoring |
| Date of Starting of Test | : 04 / 02 / 20 | Date of Completion | : 07 / 02 / 20 |
| Sampling Method | : As per IS:11255 | Sample ID | : EP/ST/0220/03 |
| Duration of sampling (min.) | : 60 min | Fuel | : Diesel |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--|--------------------|---------|------------|----------------------------|
| 1. | Particulate Matter (PM) | mg/Nm ³ | 85.3 | 150 | IS : 11255 (Part 1) - 1985 |
| 2. | Sulphur Dioxide (SO ₂) | ppm | 37.4 | 100 | IS : 11255 (Part 2) - 1985 |
| 3. | Oxides of Nitrogen (as NO ₂) | ppm | 30.7 | 50 | IS: 11255 (Part 7) -2005 |


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Work Order No : f/15

Dated: 28 / 04 / 19

TEST REPORT

Test Report No.: EP/UPL-2/2020/1165-4


Issue Date: 08 / 02 / 20

Customer's Name & Address: **UPL Ltd. (Unit-2)**
Plot No.-3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|-----------------------------|---|------------------------|---------------------------|
| Description of Sample | Stack attached to H ₂ S Generating Plant (pH 5000) | Quantity/No. of Sample | 1 / 1 No |
| Sampling By | ENPRO Team | Packing/Seal | Sealed |
| Date of Sampling | 03 / 02 / 20 | | |
| Sample Received Date | 04 / 02 / 20 | Protocol (purpose) | Stack Emission Monitoring |
| Date of Starting of Test | 04 / 02 / 20 | Date of Completion | 07 / 02 / 20 |
| Sampling Method | IS 11255 | Sample ID | EP/ST/0220/04 |
| Duration of sampling (min.) | 20 min. | | |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|--------------------------------------|--------------------|---------|------------|--------------------------|
| 1. | Stack Height | m | 30 | - | - |
| 2. | Flue Gas Temp. | °C | 38 | - | - |
| 3. | Stack Dia. | m | 0.15 | - | - |
| 4. | Hydrogen Sulphide (H ₂ S) | mg/Nm ³ | 2.2 | 5.0 | IS : 11255 (Part-4)-2006 |


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Work Order No : f/15

Dated: 28 / 04 / 19

TEST REPORT

Test Report No. : EP/UPL-2/2020/1165-5

Issue Date: 08 / 02 / 20

Customer's Name & Address: **UPL Ltd. (Unit-2)**
Plot No -3405/3406, G.I.D.C., Ankleshwar - 393002, Gujarat.

| | | | |
|--------------------------|---|---------------------------|---------------------------------|
| Description of Sample | Scrap yard area | Quantity/No. of Sample | : 1 / 1 No |
| Sampling By | ENPRO Team | Packing/Seal | : Sealed |
| Date of Sampling | 03 / 02 / 20 | Duration of Sampling (Hr) | : 24 Hrs |
| Sample Received Date | 04 / 02 / 20 | Protocol (purpose) | : Ambient Air Monitoring |
| Date of Starting of Test | 04 / 02 / 20 | Date of Completion | : 07 / 02 / 20 |
| Sampling Method | IS 5182 & As per Instrument Instruction Manual | Sample ID | : EP/AA/0220/5 |

Atmospheric Condition

| Wind Direction | Weather Condition | Temperature (°C) | |
|----------------|-------------------|------------------|------|
| | | Max. | Min. |
| SW-NE | Sunny | 34 | 20 |

RESULT TABLE

| SR. NO. | TEST PARAMETER | UNIT | RESULTS | GPCB LIMIT | METHOD OF MEASUREMENT |
|---------|---|-------------------|---------|------------|----------------------------|
| 1. | Respirable Suspended Particulate Matter (PM ₁₀) | µg/m ³ | 77.1 | 100 | IS : 5182 (Part 23) - 2006 |
| 2. | Particulate Matter (PM _{2.5}) | µg/m ³ | 45.6 | 60 | SOP No. - W/AA/01 |
| 3. | Sulphur Dioxide (SO ₂) | µg/m ³ | 27.2 | 80 | IS : 5182 (Part 2) - 2001 |
| 4. | Nitrogen Dioxide (NO ₂) | µg/m ³ | 36.8 | 80 | IS : 5182 (Part 6) - 2006 |
| 5. | Hydro Chloride Vapour (HCl) | µg/m ³ | 43.7 | 200 | USEPA Part-0050 |
| 6. | Chlorine (Cl ₂) | µg/m ³ | BDL | 100 | IS: 5182 (Part 19) - 1982 |
| 7. | Ammonia (NH ₃) | µg/m ³ | 28.4 | 400 | CPCB Method Vol. I |
| 8. | Hydrogen Fluoride (HF) | µg/m ³ | BDL | 60 | IS : 5182 (Part 13) - 1991 |
| 9. | Hydrogen Sulphide (H ₂ S) | µg/m ³ | BDL | 500 | IS : 5182 (Part-07) - 1973 |
| 10. | Hydrocarbon (HC) | ppm | BDL | 160 | IS : 5182 (Part 17) - 1979 |

Note: BDL: - Below Detectable Limit

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REPORTABLE

IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION

Civil Appeal No. 1526 of 2016

Alembic Pharmaceuticals Ltd.

...Appellant

Versus

Rohit Prajapati & Ors.

...Respondents

With

Civil Appeal No 3175 of 2016



With

Civil Appeal Nos 6604-6605 of 2016

And With

Civil Appeal No 1555 of 2017

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J U D G M E N T

Dr Dhananjaya Y Chandrachud, J

1. By a judgment dated 8 January 2016, the Bench of the National Green Tribunal¹ for the Western Zone held that a circular issued by the Union Ministry of Environment and Forests² on 14 May 2002 is contrary to law. The circular envisaged the grant of *ex post facto* environmental clearances. The NGT issued a slew of directions including the revocation of environmental clearances and for closing down industrial units operating without valid consents. On 17 May 2016, the NGT dismissed an application for review filed by one of the affected industrial units. The industrial units and MoEF are in appeal³.

2. The Environmental Impact Assessment⁴ notification of 27 January 1994 mandated prior Environmental Clearances⁵ for setting up and expansion of industrial projects falling within thirty categories. The deadline for obtaining an EC under the EIA notification of 1994 was extended by various circulars to 31 March 1999 and thereafter to 30 June 2001. By the circular of 14 May 2002, which was quashed by the NGT, MoEF extended the period till 31 March 2003 for those industrial units which had gone into production without obtaining an EC under the EIA notification of 1994 to apply for and obtain an *ex post facto* EC. The circular indicated that it had been decided:

1 "NGT"

2 "MoEF"

3 Civil Appeal no 1526 of 2016 (Alembic Pharmaceuticals Limited); Civil Appeal no 3175 of 2016 (United Phosphorus Limited); Civil Appeal nos 6604-6605 of 2016 (Unique Chemicals); and Civil Appeal no 42756 of 2016 (Union of India)

4 "EIA"

5 "EC"

“... to extend the deadline upto 31 March 2003 so that defaulting units could avail of this last and final opportunity to obtain ex-post-facto environmental clearance...”

3. The circular of 14 May 2002, allowed for *ex post facto* ECs, subject to a graded contribution into an earmarked fund based on the investment cost of the project. The first and the second respondents challenged the circular of 14 May 2002 before the High Court of Gujarat. The proceedings were subsequently transferred to the NGT. The NGT by its decision dated 8 January 2016 held that the law did not permit the grant of an *ex post facto* clearances and that the circular of 14 May 2002 was an internal communication and did not override the provisions of the EIA notification dated 27 January 1994 which had been issued in exercise of statutory powers conferred by Section 3 of the Environment (Protection) Act 1986⁶.

4. Having held that the concept of an “*ex post facto* environmental clearance” was not sustainable with reference to any provision of law, the NGT issued the following directions:

- (i) The authorities of the Union of India, including the MoEF, State of Gujarat, Gujarat Pollution Control Board⁷ and District Collectors shall not grant consent for an industrial activity covered by the EIA notification of 1994 without the steps mandated by the notification such as screening, scoping, public hearing and decision being fulfilled;
- (ii) The ECs granted to the industrial units of the sixth to ninth respondents shall be revoked;
- (iii) All the industrial activities which were being operated without a valid EC and consent to operate shall be closed down within one month;

⁶ “Environment Protection Act 1986”

⁷ “GPCB”

- (iv) Each of the units shall deposit a compensation of ₹ 10 lakhs for having caused environmental degradation; and
- (v) The amount deposited shall be used for the restoration of the environment in and around the industrial area of Ankleshwar in the State of Gujarat.

5. The private respondents before the NGT who were affected by the above directions are:

- (i) United Phosphorous Ltd - the sixth respondent;
- (ii) Unique Chemicals - the seventh respondent;
- (iii) Darshak Private Limited - the eight respondent; and
- (iv) Nirayu Private Limited - the ninth respondent.

The private respondents are engaged in the manufacture of pharmaceuticals and bulk drugs at the industrial area of Ankleshwar in the State of Gujarat. Alembic Pharmaceuticals Limited is the appellant in the lead appeal before this Court. Darshak Private Limited merged with the appellant in 2002 pursuant to a scheme of amalgamation sanctioned by the High Court of Gujarat. Nirayu Private Limited was acquired by the appellant under a slump sale on 1 January 2008. Following this exercise, the manufacturing units of erstwhile Darshak Private Limited and Nirayu Private Limited have come to be known as API – I and API – II, respectively.

EIA Notification of 1994

6. The EIA notification was issued by the MoEF on 27 January 1994, in exercise of its powers under Section 3(1) and clause (v) of Section 3(2) of the Environment Protection Act 1986 read with Rule 5(3)(d) of the Environment (Protection) Rules 1986⁸. The EIA notification stipulated that:

“...on and from the date of publication of this notification in the Official Gazette, expansion or modernization of any activity (if pollution load is to exceed the existing one) or new project listed in Schedule I to this notification, shall not be undertaken in any part of India unless it has been accorded environmental clearance by the Central Government in accordance with the procedure hereinafter specified in this notification.”

7. The EIA notification stipulated that any person who desired to undertake a new project, or the expansion or modernisation of an existing industry, listed in Schedule-I shall submit an application to the Secretary, MoEF. Entry 8 of Schedule - I includes industries engaged in manufacturing bulk drugs and pharmaceuticals. The application had to be accompanied by a project report including, *inter alia*, an EIA report and an environmental management plan prepared in accordance with the guidelines issued by the Union Government through the MoEF from time to time. The notification spelt out the procedure to be followed upon the submission of the application including an evaluation and assessment by a stipulated agency. Clause 3(a)⁹ provided that:

“...no construction work primarily or otherwise relating to the setting up of the project may be undertaken till the environmental and site clearances is obtained.”

8. On 10 April 1997, the EIA notification of 1994 was amended by making a public hearing mandatory for thirty categories of activities which required an EC. On 5 November 1998, the MoEF issued a circular recording that though the EIA

⁸ “Environment Protection Rules”

⁹ Which was (substituted on 4 May 1994)

notification of 1994 was in effect since 27 January 1994, units covered by the notification had been set up without obtaining prior ECs. The GPCB had despite the advice of the MoEF allowed units to operate without valid ECs. In this backdrop, the circular of 5 November 1998 provided that:

“Since number of such proposals are large in number and many of the units have not applied for environmental clearance genuinely out of ignorance it has been decided to consider their case for environmental clearance on merits. This will apply only to those proposals which are received in the Ministry till 31st March 1999. Simultaneously State Pollution Control Boards have also been advised to issue requisite notices to the units to apply for environmental clearance. In case of those units which have already started production, we may consider the proposals on merits and if necessary suggest additional mitigative measures. A formal environmental clearance will be issued in these cases after approval by the competent authority.”

9. By a circular dated 27 December 2000, the MoEF directed all state pollution control boards to issue fresh notices to all defaulting units and extended the deadline to obtain ECs from 31 March 1999 to 30 June 2001. In spite of this, there were delinquent units which had either failed to apply for an EC or had failed to complete the requirement of a public hearing before the extended date. By the circular of 14 May 2002, the deadline was extended to 31 March 2003.

The circular stated that:

“Keeping the foregoing in view, it has been decided to extend the deadline upto 31 March 2003 so that defaulting units could avail of this last and final opportunity to obtain ex-post-facto environmental clearance. This would apply to all such units, which had commenced construction activities/operations without obtaining prior environmental clearance in violation of the EIA Notification of 27 January 1994.”

10. In terms of the circular, those defaulting units seeking an expansion were to earmark a separate fund for “eco-development measures including community development measures in Indian projects areas” on a graded scale linked to the investment in the project. This was indicated in a tabulated form which read thus:

| | | |
|---|--|--|
| A | Projects with investment upto ₹ 100 crores | 1 % of the project cost with a minimum of ₹ 50,000 |
| B | Projects with investment beyond ₹ 100 crores and upto ₹ 1,000 crores | 0.5% of the project cost subject to a minimum of ₹ 1 crore and a maximum of ₹ 2.5 crores |
| C | Projects with investment exceeding ₹ 1000 crores | 0.25 % of the project cost subject to a maximum of ₹ 5 crores |

Units which failed to comply with the extended deadline were to be proceeded against.

The challenge to the *ex post facto* circular dated 14 May 2002

11. A petition was instituted under Article 226 of the Constitution by the first and second respondents in the present lead appeal before the High Court of Gujarat challenging the circular dated 14 May 2002 and seeking the revocation of the clearances which were granted to the industrial units in question. The case was transferred to the Western Zonal Bench of the NGT by the High Court of Gujarat on 21 April 2015. The NGT by its judgment dated 8 January 2016 set aside the circular dated 14 May 2002 and issued consequential directions which have been noted in the earlier part of this judgment. Unique Chemicals Limited, the seventh respondent before the NGT, preferred a review petition against the

judgment of the NGT which was dismissed. The affected industrial units and the MoEF are in appeal before this Court.

12. The issue to be adjudicated is whether in view of the requirement of a prior EC under the EIA notification of 1994, a provision for an *ex post facto* EC to industrial units could be validly made by means of the circular dated 14 May 2002.

13. During the course of the submissions, Mr Kapil Sibal, learned Senior Counsel appearing on behalf of Alembic Pharmaceuticals Limited has urged the following submissions:

- (i) The issue is academic as both the units of the appellant have been granted an EC for subsequent expansion to a much higher capacity after conducting a public hearing and upon consideration of all material factors. The relevant details in support of the submission are thus:

Darshak Private Limited (API - I)

- (a) An EC was granted on 14 May 2003 for a capacity of 15 MT per month;
- (b) An EC was granted on 16 April 2008 for expansion of capacity from 15 MT per month to 25 MT per month; and
- (c) An EC was granted on 31 January 2017 for a further expansion of capacity from 25 to 75 MT per month.

Nirayu Private Limited (API – II)

- (a) An EC was granted on 14 May 2003 for a capacity of 47 MT per month; and

- (b) An EC was granted on 20 December 2016 for an expanded capacity of 300 MT per month.
- (ii) The EIA notification of 1994 omits the expression “prior”. This is contrasted with the EIA notification dated 14 September 2006 which stipulates the requirement of a “prior” EC. While a prior EC is mandatory under the notification dated 14 September 2006, it was not under the earlier notification dated 27 January 1994;
- (iii) Once an EC has been granted for a much larger capacity after conducting a prior public hearing, the question as to whether the first EC for a lesser capacity was valid, is of no significance. Since both the units have an EC for a larger capacity, the satisfaction for granting an EC for a lesser capacity would be subsumed;
- (iv) The EIA notification of 1994 did not apply to the two units of the appellant (API – I and API – II). Clause 8 of the explanatory note to the EIA notification of 1994 provides that where a no objection certificate¹⁰ from GPCB has been obtained before 27 January 1994, an EC is not required.

In this context it has been submitted that:

- (a) On 17 July 1992, GPCB granted an NOC to establish and manufacture to the manufacturing unit of API - I;
- (b) On 29 May 1997 and 27 July 1998, GPCB granted an authorisation to operate under the Air (Prevention and Control of Pollution) Act 1981¹¹ to API - I;
- (c) On 11 October 1999, GPCB granted API – I an authorisation to operate under the Water (Prevention & Control of Pollution) Act 1974¹²;
- (d) On 24 May 1985, GPCB granted API - II a consent order under the Water Act;

10 “NOC”

11 “Air Act”

12 “Water Act”

- (e) On 9 October 1991, GPCB granted a site clearance certificate to API – II;
 - (f) On 12 May 1993, GPCB granted an NOC to API - II to establish and for the manufacture drugs;
 - (g) On 23 September 1993 and 13 November 1999, GPCB granted a consent under the Water Act to API - II;
 - (h) On 14 December 2001, GPCB granted an authorisation to API - II to operate under the Hazardous Waste (Management and Handling) Rules 1989¹³; and
 - (i) On 1 September 1999, 14 December 2001 and 7 March 2008, GPCB granted a consolidated consent and authorisation to API - II.
- (v) A public hearing was not mandatory under the EIA notification of 1994. Clause 4 of the explanatory note confers a discretion to call for a hearing in case of projects that may cause large scale displacement or with severe environmental ramifications;
- (vi) If the order of the NGT prevails, the appellant would be prejudiced and suffer an irreparable loss. The appellant has made an investment of over ₹ 293 crores and employed a labour force of over 1000 workers; and
- (vii) The first respondent who was the petitioner before the NGT chose to target only the appellant and two others out of over ninety different entities which were granted similar clearances. This cherry picking of certain select units demonstrates the *mala fide* nature of the proceedings.

14. During the course of his submissions, Mr C U Singh, learned Senior Counsel appearing on behalf of United Phosphorus Limited has urged the following submissions:

- (i) The circular dated 5 November 1998, by which the deadline for obtaining ECs under the EIA notification of 1994 was extended to 30 June 2001 was

¹³ "Hazardous Waste Rules"

- not challenged. The circular dated 5 November 1998 specifically noted that the State Pollution Control Board had despite the advice of the MoEF allowed units to operate without valid ECs;
- (ii) United Phosphorus Limited had all requisite ECs that were granted by GPCB for the existing and expanded capacity. In this context it has been submitted:
- (a) An EC was granted on 17 July 2003 for manufacturing Phorate and Terbufphose (300 MT per month combined) and Acephate (80 MT per month);
- (b) An EC was granted on 15 April 2008 for the expansion of capacity for manufacturing pesticides and intermediate products. Production of Phorate and Terbufphose was increased from 300 MT per month to 500 MT per month, and production of Acephate was increased to 1000 MT per month;
- (c) An EC was granted on 10 January 2020 for an enhanced capacity of 9546 MT per month;
- (iii) The complainant, the first respondent in the lead appeal, attended the public hearing held on 16 January 2002 prior to the grant of an EC on 17 July 2003 and raised no objections;
- (iv) If the order of the NGT prevails, the appellant would be prejudiced and suffer an irreparable loss. The appellant has employed approximately 400 permanent and contract workers at its manufacturing unit; and
- (v) The challenge by the first and second respondents was to the EIA notification 1994 which did not apply to the manufacturing unit of the appellant. At the relevant time, the appellant was exempted from obtaining an EC since it had all requisite permissions. In this context it has been submitted:

- (a) On 3 October 1992, GPCB granted an NOC to the appellant for setting up a manufacturing unit;
- (b) On 17 November 1995 and 2 April 1996, GPCB granted NOCs for expansion and manufacturing additional products;
- (c) On 27 August 2009, GPCB granted a consolidated consent and authorisation to the appellant's manufacturing unit;
- (d) On 25 July 2012, GPCB issued an NOC for the expansion of the appellant's manufacturing unit; and
- (e) On 11 May 2015 and 27 May 2017, GPCB granted a consolidated consent and authorisation for expanded operations.

15. Appearing for Unique Chemicals Limited, Dr Abhishek Singhvi, learned Senior Counsel urged the following submissions:

- (i) The NGT did not have the jurisdiction to entertain the petition filed by the first and second respondents in view of the decision of this Court in **Techi Tagi Tara v Rajendra Singh Bhandari & Ors**¹⁴;
- (ii) The EC granted in 2007 superseded the earlier EC granted in 2002. Therefore, the question of validity of the earlier EC does not arise. In this context it has been submitted:
 - (a) An EC was granted on 23 December 2002 for a capacity of 78.02 MT per month for manufacturing bulk drugs and intermediates;
 - (b) An EC was granted on 8 August 2007 for an increase in manufacturing capacity from 78.02 MT per month to 116.12 MT per month; and
 - (c) An EC was granted on 30 June 2018 for an increase in the manufacturing capacity to 290 MT per month. On 10 April 2019, the

14 2018 (11) SCC 734

above EC was amended allowing an increase in the number of products permitted to be manufactured by the appellant.

- (iii) The *ex post facto* clearance granted to the appellant cannot be set aside by the order of the NGT in terms of the decision of this Court in **Goa Foundation v Union of India**¹⁵, where 95 industrial projects were accorded *ex post facto* clearances in terms of the circular dated 14 May 2002. Accordingly, no question of closing down the manufacturing units of the appellants can arise;
- (iv) The requirement of an *ex post facto* public hearing was introduced by an amendment in 1997 to the EIA notification of 1994. The legality of an *ex post facto* public hearing has been upheld by this Court in **Lafarge Umiam Mining Pvt Ltd v Union of India**¹⁶;
- (v) In various cases where there has been a violation of law, this court has not ordered the closure considering the significant investment and expansion undertaken by the industry. In **Electrotherm Ltd v Patel**¹⁷, this Court did not order closure of the plant since a significant expansion had already taken place and the industry was functioning;
- (vi) If the order of the NGT prevails, the appellant would be prejudiced and suffer an irreparable loss. The appellant has employed approximately 400 employees at its manufacturing unit;

15 (2005) 11 SCC 559

16 (2011) 7 SCC 338

17 (2016) 9 SCC 300

(vii) The EIA notification 1994 did not apply to the manufacturing unit of the appellant. The manufacturing unit of the appellant was exempt from obtaining an EC as it had all the requisite permissions. In this context it has been submitted:

(a) On 30 September 1995, GPCB issued an 'air consent order' under the

Air Act;

(b) On 9 January 1996 GPCB issued an authorisation under the Hazardous

Waste Rules;

(c) On 16 April 1996 GPCB issued a 'water consent order' under the Water

Act;

(d) On 15 April 2009 GPCB granted a consolidated consent and

authorisation to the manufacturing unit of the appellant;

(e) On 11 June 2010 and 26 June 2012, GPCB amended the consolidated

consent and authorisation granted to the appellant on 13 April 2009;

(f) On 30 May 2011, GPCB granted consent to set up a gas-based power

generation plant having a capacity of 400 KW at the manufacturing unit

of the appellant;

(g) On 2 November 2013, GPCB granted a fresh consolidated consent and

authorisation to the manufacturing unit of the appellant; and

(h) On 25 January 2019 and 25 October 2019, GPCB granted a fresh and

revised consolidated consent and authorisation, respectively for an

increase in the number of products permitted to be manufactured at the

manufacturing unit of the appellant.

16. Appearing for the first and second respondents, Mr Siddharth Seem, learned counsel has urged the following submissions before this Court:

(i) The circular dated 14 May 2002 is illegal because environmental jurisprudence does not recognise any concept of *ex post facto* clearances.

Any *ex post facto* approval is void and the benefit of the circular cannot be

- given to such an industry. In this regard, reliance was placed upon the decision of this Court in **Common Cause v Union of India**¹⁸;
- (ii) The circular dated 14 May 2002 does not mention its source or authority of law. The source of the circular is not traceable to Section 3 of the Environment Protection Act 1986 because the circular does not protect or improve the quality of the environment. The circular allows defaulters to get *ex post facto* clearances and does not encourage compliance with the law;
- (iii) The Comprehensive Environmental Pollution Index report by the Central Pollution Control Board indicates that the air, water and soil parameters in and around the industrial area of Ankleshwar in the State of Gujarat, where the three industrial units are located, are among the most critical in India:
- and
- (iv) Even if this court were to hold that the closure of the industries should not be ordered, compensation should be directed to be paid by them for restoration of the environment. These industries have brazenly operated for years without environmental clearances.

17. The rival submissions fall for our consideration.

18. We first address the challenge to the jurisdiction of the NGT to strike down rules or regulations made under the Environment Protection Act 1986. In **Tamil Nadu Pollution Control Board v Sterlite Industries (I) Ltd**¹⁹ (“Sterlite”) this Court analysed the adjudicatory functions which have been entrusted to the NGT under the National Green Tribunal Act 2010²⁰. Justice R F Nariman, speaking for a two judge Bench held that while exercising its jurisdiction under Section 16, the NGT cannot strike down rules or regulations made under the Environment

18 (2017) 9 SCC 499

19 2019 SCC Online SC 221 / Civil Appeal nos 4763-4764 of 2013

20 “NGT Act”

Protection Act 1986. In coming to this conclusion, the Court relied on the decision in **Bharat Sanchar Nigam Limited v Telecom Regulatory Authority of India**²¹, where the appellate power contained in Section 14 of the Telecom Regulatory Authority of India Act²² 1997 was interpreted. After advertent to this decision, Justice R F Nariman concluded that:

“53...the NGT has no general power of judicial review akin to that vested under Article 226 of the Constitution of India possessed by the High Courts of this country.”

19. While placing reliance on the above decision, Mr ANS Nadkarni, learned Additional Solicitor General made an attempt to demonstrate that the power to issue the circular dated 14 May 2002 that extended the deadline for defaulting units to avail of an *ex post facto* clearance until 30 March 2003 could well be traceable to Section 3 of the Environment Protection Act 1986. Section 3, to the extent relevant, provides thus:

“Section 3. Power of central government to take measures to protect and improve environment.- (1) Subject to the provisions of this Act, the Central Government, shall have the power to take all such measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing controlling and abating environmental pollution.”

20. Section 3(1) is an enabling provision for the Central Government to undertake all such measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment and preventing, controlling and abating environmental pollution. This limb of the submission of the

21 (2014) 3 SCC 222

22 “TRAI Act”

Additional Solicitor General is crucial to the issue as to whether the NGT has exceeded its jurisdiction since the decision in **Sterlite** holds that the NGT, while exercising its appellate jurisdiction, “cannot strike down rules or regulations made **under this Act**”. In the present case, to demonstrate that the NGT did not have the jurisdiction to strike down the circular dated 14 May 2002, it was urged that the circular was issued by the MoEF pursuant to its powers under Section 3 of the Environment Protection Act 1986. There is an inherent difficulty in accepting the submission. Before this Court, the Union of India has not pleaded the case that the circular dated 14 May 2002 is a measure which is traceable to the provisions of Section 3. On the contrary, in its pleadings the Union of India construed it as a “purely administrative decision”. Ground (iii) in paragraph 3 of the memo of appeal states the position of the Union government:

“Because the Hon’ble Tribunal failed to appreciate that after the EIA, Notification 1994 the opportunity to seek ex-post facto environmental clearance was given to industries in background of far reaching impact in terms of direct loss of livelihood in the employees working in the units which also supply inputs to other units and their indirect employment. **It was submitted to the Hon’ble High Court of Gujarat that issuance of circular dated 14/05/2002, based on which environmental clearance was given, was purely an administrative decision before taking stringent action.**”

(Emphasis supplied)

21. The omission in the appeal to make any attempt to sustain the circular dated 14 May 2002 with reference to the provisions of Section 3 of the Environment Protection Act 1986 is significant. For an action of the Central government to be treated as a measure referable to Section 3 it must satisfy the statutory requirement of being necessary or expedient “for the purpose of protecting and improving the quality of the environment and preventing,

controlling and abating environment pollution”. The circular dated 14 May 2002 in fact does quite the contrary. It purported to allow an extension of time for industrial units to comply with the requirement of an EC. The EIA notification dated 27 January 1994 mandated that an EC has to be obtained before embarking on a new project or expanding or modernising an existing one. The EIA notification of 1994 has been issued under the provisions of the Environment Protection Act 1986 and the Environment Protection Rules 1986, with the object of imposing restrictions and prohibitions on setting up of new projects or expansion or modernisation of existing project. The measures are based on the precautionary principle and aim to protect the interests of the environment. The circular dated 14 May 2002 allowed defaulting industrial units who had commenced activities without an EC to cure the default by an *ex post facto* clearance. Being an administrative decision, it is beyond the scope of Section 3 and cannot be said to be a measure for the purpose of protecting and improving the quality of the environment. The circular notes that there were defaulting units which had failed to comply with the requirement of obtaining an EC as mandated. The circular provided for an extension of time and inexplicably introduced the notion of an *ex post facto* clearance. In effect, it impacted the obligation of the industrial units to be in compliance with the law. The concept of *ex post facto* clearance is fundamentally at odds with the EIA notification dated 27 January 1994. The EIA notification of 1994 contained a stipulation that any expansion or modernisation of an activity or setting up of a new project listed in Schedule – I “shall not be undertaken in any part of India unless it has been accorded environmental clearance”. The language of the notification is as clear as it can be

to indicate that the requirement is of a prior EC. A mandatory provision requires complete compliance. The words “shall not be undertaken” read in conjunction with the expression “unless” can only have one meaning : before undertaking a new project or expanding or modernising an existing one, an EC must be obtained. When the EIA notification of 1994 mandates a prior EC, it proscribes a post activity approval or an *ex post facto* permission. What is sought to be achieved by the administrative circular dated 14 May 2002 is contrary to the statutory notification dated 27 January 1994. The circular dated 14 May 2002 does not stipulate how the detrimental effects on the environment would be taken care of if the project proponent is granted an *ex post facto* EC. The EIA notification of 1994 mandates a prior environmental clearance. The circular substantially amends or alters the application of the EIA notification of 1994. The mandate of not commencing a new project or expanding or modernising an existing one unless an environmental clearance has been obtained stands diluted and is rendered ineffective by the issuance of the administrative circular dated 14 May 2002. This discussion leads us to the conclusion that the administrative circular is not a measure protected by Section 3. Hence there was no jurisdictional bar on the NGT to enquire into its legitimacy or vires. Moreover, the administrative circular is contrary to the EIA Notification 1994 which has a statutory character. The circular is unsustainable in law.

22. Mr Kapil Sibal, learned Senior Counsel appearing on behalf of Alembic Pharmaceuticals Limited sought to urge that the EIA notification dated 27 January 1994 contains an omission of the expression “prior” and contrasted this with the EIA notification dated 14 September 2006 which stipulates the requirement of a

“prior” EC. This, in his submission is an indicator that a prior EC is mandatory under the notification dated 14 September 2006 but was not so under the earlier notification dated 27 January 1994. This interpretation was not supported by Mr ANS Nadkarni, learned Additional Solicitor General who categorically submitted that the requirement under the notification dated 27 January 1994 was of a prior EC. We are unable to accept the submission of Mr Kapil Sibal. The terms of the EIA notification dated 27 January 1994 leave no manner of doubt that a prior EC was mandated before a new project was commenced or before undertaking any expansion or modernisation of an existing project. The absence of the expression “prior” in the EIA notification dated 27 January 1994 makes no difference since the words “shall not be undertaken...unless” postulate the requirement of a prior EC. Speaking for a two judge Bench of this Court in **Common Cause v Union of India**²³ (“**Common Cause**”), Justice Madan B Lokur rejected the submission which was urged on behalf of mining leaseholders that:

“108... the possibility of getting an ex post facto EC was a signal to the mining leaseholders that obtaining an EC was not mandatory or that if it was not obtained, the default was retrospectively condonable.”

Disagreeing with the submission, the Court held:

“125. We are not in agreement with the learned counsel for the mining leaseholders. **There is no doubt that the grant of an EC cannot be taken as a mechanical exercise. It can only be granted after due diligence and reasonable care since damage to the environment can have a long-term impact. EIA 1994 is therefore very clear that if expansion or modernisation of any mining activity exceeds the existing pollution load, a prior EC is necessary and as already held by this Court in *M.C. Mehta [M.C. Mehta v. Union of India, (2004) 12 SCC 118]* even for the**

23 (2017) 9 SCC 499

renewal of a mining lease where there is no expansion or modernisation of any activity, a prior EC is necessary. Such importance having been given to an EC, the grant of an *ex post facto* environmental clearance would be detrimental to the environment and could lead to irreparable degradation of the environment. The concept of an *ex post facto* or a retrospective EC is completely alien to environmental jurisprudence including EIA 1994 and EIA 2006. We make it clear that an EC will come into force not earlier than the date of its grant.”

(Emphasis supplied)

23. The concept of an *ex post facto* EC is in derogation of the fundamental principles of environmental jurisprudence and is an anathema to the EIA notification dated 27 January 1994. It is, as the judgment in **Common Cause** holds, detrimental to the environment and could lead to irreparable degradation. The reason why a retrospective EC or an *ex post facto* clearance is alien to environmental jurisprudence is that before the issuance of an EC, the statutory notification warrants a careful application of mind, besides a study into the likely consequences of a proposed activity on the environment. An EC can be issued only after various stages of the decision-making process have been completed. Requirements such as conducting a public hearing, screening, scoping and appraisal are components of the decision-making process which ensure that the likely impacts of the industrial activity or the expansion of an existing industrial activity are considered in the decision-making calculus. Allowing for an *ex post facto* clearance would essentially condone the operation of industrial activities without the grant of an EC. In the absence of an EC, there would be no conditions that would safeguard the environment. Moreover, if the EC was to be ultimately refused, irreparable harm would have been caused to the environment. In either view of the matter, environment law cannot countenance the notion of an

ex post facto clearance. This would be contrary to both the precautionary principle as well as the need for sustainable development.

24. In order to enable the Court to assess the status of compliance, the material which has been produced on the record by (i) Alembic Pharmaceuticals Limited; (ii) United Phosphorous Limited; and (iii) Unique Chemicals Limited has been compiled in a tabulated form for each of the three industries. For Alembic Pharmaceuticals Limited, the data for its two industrial units - Darshak Private Limited (API – I) and Nirayu Private Limited (API – II) - has been analysed separately. For each of the three industries, Table A below consists of the list of permissions, consents and authorisations obtained by the industry from various authorities. Table B contains a list of ECs which were granted from time to time to each industrial unit. The position as tabulated below is based on the material which has been disclosed on the record of these proceedings :

| Table A: List of permissions, consents and authorisations granted to Alembic Pharmaceuticals Limited | |
|---|--|
| Darshak (API-I) | |
| Date | Permission/Consent/Authorisation Granted |
| 17 July 1992 | GPCB issued a no objection certificate to establish an industrial unit for the manufacture of the following items at API-I: (i) Ciprofloxacin (1.25 MT pm); and (ii) Norfloxacin (2.5 MT pm) |
| 11 June 1997 | GPCB granted no objection certificate for manufacturing additional items at API-I |
| 29 May 1997 | GPCB issued air consent order authorising to operate API-I |
| 11 July 1997, 12 July 1997 and 27 July 1998 | GPCB granted no objection certificate for manufacturing of additional items at API-I |
| 31 March 1999 | GPCB issued air consent order authorising to operate API-I |
| 11 October 1999 | GPCB issued water consent order authorising to operate AP-I |

| Between 27 September 2002 – 23 December 2011 | GPCB issued various consents under the Air Act, Water Act and Hazardous Waste Rules. |
|--|---|
| Nirayu Private Limited (API-II) | |
| Date | Permission/Consent/Authorisation Granted |
| 12 July 1984 | Factory license was issued in favour of Nirayu Private Limited |
| 24 May 1985 | GPCB issued water consent order authorising to operate API-II |
| 9 October 1991 | GPCB issued a site clearance certificate to establish an industrial unit and manufacture the following items at API-II: (i) CIMC chloride (2000 kgs pm); and (ii) Cloxacillin sodium (500 kgs pm) |
| 12 May 1993 | GPCB granted a no objection certificate to establish an industrial unit and manufacture the following items: (i) Acetone thiosemicarbazone (2 MT pm); (ii) 2 Mercapta (5 MT pm); (iii) Methoxy orthoxymethyl chloride (0.3 MT pm); and (iv) Solvent ether (7 MT pm) |
| 1 September 1993 | GPCB issued authorisation to operate API-II under the Hazardous Waste Rules |
| 23 September 1993 | GPCB issued water consent order authorising to operate API-II |
| 4 December 1995 | GPCB granted no objection certificate for manufacturing additional items at API-II |
| 4 October 1996 and 17 April 1998 | GPCB issued air consent order to operate API-II |
| 1 September 1999 | GPCB granted consolidated consent and authorisation to operate API-II |
| 12 November 1999 | GPCB issued water consent order to operate API-II |
| 14 December 2001 | GPCB issued authorisation to operate API-II under the Hazardous Waste Rules |
| Between 27 September 2002 – 6 January 2015 | GPCB issued various consents under the Air Act, Water Act and Hazardous Waste Rules. |

| Table B: List of environmental clearances granted to Alembic Pharmaceuticals Limited | | | |
|---|-------------------------------|--|---------------------------------|
| Darshak (API-I) | | | |
| Date of Application | Date of Public Hearing | EC for Expansion (Quantity) | Date EC Granted |
| 21 July 2001 | 30 January 2002 | Manufacturing of various bulk drugs and intermediate | 14 May 2003 as per the 1994 EIA |

| | | | |
|--|-------------------------------|---|---|
| | | products with a total capacity of 15 MT pm | notification |
| 8 December 2006 | 9 October 2007 | Expansion of total capacity of bulk drugs from 15 to 25 MT pm | 16 April 2008 as per the 2006 EIA notification |
| 16 September 2015 | 12 June 2015 | Expansion of total capacity of active pharmaceutical ingredients from 25 to 75 MT pm | 31 January 2017 as per the 2006 EIA notification |
| Nirayu Private Limited (API-II) | | | |
| Date of Application | Date of Public Hearing | EC for Expansion (Quantity) | Date EC Granted |
| 20 July 2001 | 30 January 2002 | Manufacturing of various bulk drugs and intermediate products with a total capacity of 47 MT pm | 14 May 2003 as per the 1994 EIA notification |
| 28 March 2016 | 12 June 2015 | Expansion of total capacity of active pharmaceutical ingredients and intermediates from 47 to 300 MT pm | 20 December 2016 as per the 2006 EIA notification |

| Table A: List of permissions, consents and authorisations granted to United Phosphorus Limited | |
|---|---|
| Unit no 2 - Plot no 3405 and 3406 | |
| Date | Permission/Consent/Authorisation Granted |
| 31 January 1992 | Gujarat Industrial Development Corporation granted land to the appellant to establish and run unit no 2 |
| 9 March 1992 | GPCB issued no objection certificate for operation of unit no 2 in relation to manufacturing of various products |
| 3 October 1992 | GPCB issued no objection certificate to set up a unit to manufacture the following items at unit no 2: (i) Carbendazim; (ii) Quinalphos; and (iii) Paraquat |
| 1993 | Unit no 2 commenced manufacturing activities |
| 17 November 1995 | GPCB granted no objection certificate for expansion of unit no 2 for manufacturing of two additional products – Phorate and Terbutophose (300 MT pm combined) |
| 2 April 1996 | GPCB granted no objection certificate for expansion of unit no 2 for the manufacture of Acephate (80 MT per month) |
| 27 August 2009 | GPCB granted a consolidated consent and authorisation to unit no 2 |
| 25 July 2012 | GPCB issued consent to establish (NOC) for expansion of unit no 2 |

| | |
|-------------------------------|---|
| 11 May 2015 and 27 April 2017 | GPCB granted a consolidated consent and authorisation for the expanded operations |
|-------------------------------|---|

| Table B: List of environmental clearances granted to United Phosphorus Limited | | | |
|---|-------------------------------|--|---|
| Unit no 2 - Plot no 3405 and 3406 | | | |
| Date of Application | Date of Public Hearing | EC for Expansion (Quantity) | Date EC Granted |
| 21 August 2002 | 16 January 2002 | Manufacturing of Phorate and Terbuphose (300 MT pm combined) and Acephate (80 MT per month) | 17 July 2003 as per EIA notification of 1994 |
| 20 October 2007 | - | Expansion of pesticides and intermediate products. - Production of Phorate and Terbuphose to be increased to 500 MT pm combined - Production of Acephate to be increased to 1000 MT pm | April 15 2008 as per EIA notification of 2006 |
| - | - | Enhanced capacity of 9546 MT per month (as per written submissions) | 10 January 2020 as per EIA notification of 2006 |

| Table A: List of permissions, consents and authorisations granted to Unique Chemicals Limited | |
|--|--|
| Unit at plot no 5 | |
| Date | Permission/Consent/Authorisation Granted |
| 14 August 1995 | GPCB issued a no objection certificate to establish and run a unit (site clearance) at plot no 5 |
| 30 September 1995 | GPCB issued air consent order authorising to operate unit at plot no 5 |
| 25 December 1995 | GPCB issued a no objection certificate to set up and manufacture the following items at the unit at plot no 5: (i) Dichlotofenace sodium (6 MT pm); (ii) Nifedipine (2 MT pm); (iii) Indolinone (6.9 MT pm); and (iv) Pefloxacin (3 MT pm) |
| 9 January 1996 | GPCB issued authorisation under the Hazardous Waste Rules |
| 16 April 1996 | GPCB issued water consent order authorising to operate unit at plot no 5 |
| 24 April 1996 | Unit at plot no 5 commenced manufacturing activities |
| 15 April 2009 | GPCB granted a consolidated consent and authorisation to the unit at plot no 5 |
| 11 June 2010 and 26 June 2012 | GPCB amended the consolidated consent and authorisation to the unit at plot no 5 granted on 15 April 2009 |
| 30 May 2011 | GPCB granted no objection certificate to set up a gas-based power |

| | |
|-----------------|---|
| | generation plant of a capacity of 400 KW at the unit at plot no 5 |
| 2 November 2013 | GPCB granted a fresh consolidated consent and authorisation to the unit at plot no 5 for manufacturing of bulk drugs and intermediates |
| 1 July 2016 | The appellant was certified as a zero liquid discharge unit |
| 25 January 2019 | GPCB granted a new consolidated consent and authorisation to the unit at plot no 5 |
| 25 October 2019 | GPCB issued a revised consolidated consent and authorisation for increase in the number of products that were permitted to be manufactured at the unit at plot no 5 |

| Table B: List of environmental clearances granted to Unique Chemicals Limited | | | |
|--|---|--|---|
| Unit at plot no 5 | | | |
| Date of Application | Date of Public Hearing | EC for Expansion (Quantity) | Date EC Granted |
| 30 June 2001 | 25 January 2002 | Total capacity 78.02 MT pm of bulk drugs and intermediates. Manufacturing of (i) Diclofenac sodium intermediates and derivatives (40 MT pm); (ii) Nifedipine and its intermediates (2 MT pm); (iii) Indelinone (7 MT pm); (iv) Pefloxacin and its intermediates (3 MT pm); (v) 2 methyl imldazole (15 MT pm); (vi) Phentolamine HCL (10 MT pm); (vii) Diltazem HCL (1 MT pm); and (viii) other co-products | 23 December 2002 as per EIA notification 1994 |
| 12 January 2007 | Exempt – proposed project located in notified industrial area | For an increase in manufacturing of bulk drugs and intermediates from a total capacity from 78.02 MT pm to 116.12 MT pm For an increase in manufacturing of co-products from a total capacity of 103 MT pm to 297 MT pm For setting up a captive power plant with 1.3 MW capacity | 8 August 2007 as per EIA notification 2006 |
| 16 March 2018 | Exempt – proposed project located in notified industrial area | For an increase in manufacturing of bulk drugs and intermediates from a total capacity from 78.02 MT pm to 290 MT pm by setting up of synthetic organic chemicals manufacturing plant | 30 June 2018 as per EIA notification 2006 |
| | | Amendment to the EC dated 30 | 10 April 2019 |

| | | |
|--|--|----------------------------------|
| | June 2018 increasing the number of products permitted to be manufactured by the appellant at the unit at plot no 5 | as per the 2006 EIA notification |
|--|--|----------------------------------|

25. The position that emerges from the record is that in the case of all the three industries, ECs were applied for nearly a decade after the introduction of the EIA notification 1994. In the meantime, the industries had been set up and had commenced production. GPCB issued a notice to United Phosphorus Limited on 30 April 2001 directing them to apply for an EC. On 9 December 2000, GPCB issued a notice to Darshak Private Limited (API – I) and Nirayu Private Limited (API – II) directing them to apply for and obtain an EC in accordance with the EIA notification of 1994. Darshak Private Limited (API – I) of Alembic Pharmaceuticals Limited, applied for an EC on 21 July 2001 which it was granted on 14 May 2003. Subsequent applications for expansion of capacity were submitted on 8 December 2006 and 16 September 2015 for which ECs were granted on 16 April 2008 and 31 January 2017, respectively. Nirayu Private Limited (API – II), initially applied for an EC on 20 July 2001 and the EC was granted on 14 May 2003. The application for the grant of an EC for an extended capacity was submitted on 28 March 2016 and the EC was granted on 20 December 2016. In the case of United Phosphorous Limited, the initial EC was sought on 21 August 2002 and it was granted on 17 July 2003. An application for expansion of capacity was submitted on 20 October 2007 and it was granted on 15 April 2008. An EC for the further expansion of capacity was granted on 10 January 2020. In the case of Unique Chemicals Limited, the initial application for an EC was submitted on 30 June 2001 and it was granted on 23 December 2002. Subsequent applications for expansion in capacity were submitted on 12 January 2007 and 16 March 2018

for which ECs were granted on 8 August 2017 and 30 June 2018, respectively. An amendment to the EC dated 30 June 2018 was granted on 10 April 2019. The documents disclosed by the three industries demonstrate that no ECs as mandated by the EIA notification of 1994 were sought before the commencement or expansion of operations. The terms of the EIA notification of 1994 envisage that expansion or modernisation of any activity (if the pollution load is to exceed the existing one) or a new project listed in Schedule – I shall not be undertaken unless it has been granted an EC. In the present case, all the three industries continued to operate in the teeth of the EIA notification 1994.

26. Learned counsel appearing for the three industries have relied on a range of additional measures adopted, such as the installation of latest pollution capturing technologies, recent consents from GPCB and certification of “zero discharge” units. These measures adopted subsequently will not cure the failure to obtain ECs before the projects commenced operation. These measures are simply to ensure compliance with the pollution standards and requirements of law that exist as of date. These submissions have no bearing on determining whether the industrial units were in the past operating in compliance with the requisite environmental standards. These measures cannot act as correctives for historical wrongs and cannot compensate for the damage already caused to the environment as a result of manufacturing activities which were carried on without ECs.

27. Learned counsel for the three industries urged that the EIA notification of 1994 did not apply to their manufacturing units as they were covered by the exemption in terms of Clause 8 of the explanatory note. The issue which needs to be considered is whether the industries were covered by the exemption and were

not required to obtain ECs. Clause 8 to the explanatory note to the EIA notification of 1994 states thus:

“8. Exemption for projects already initiated

For projects listed in Schedule – I to the notification in respect of which the required land has been acquired and all relevant clearances of the State Government including NOC from the respective State Pollution Control Board have been obtained before 27th January 1994, a project proponent will not be required to seek environmental clearance from the IAA. However, those units who have not as yet commenced production will inform the IAA”

28. Before the exemption contained in Clause 8 applies, it was necessary for projects listed in Schedule - I to obtain all relevant clearances from the State government including an NOC from the State Pollution Control Board. It was in other words not sufficient to merely obtain an NOC from the State Pollution Control Board. The exemption which was carved out in the explanatory note was to ensure that activities which had received all required clearances at the state level, following the acquisition of land should be protected. In fact, many of them would also involve the commencement of production prior to 27 January 1994. The explanatory note stated that where production had not yet commenced, the IAA would have to be intimated. In order to be covered within the scope of the exemption, the burden is on the industry to demonstrate before this Court that they fulfilled conditions spelt out in Clause 8 of the explanatory note. The EIA notification 1994 is a significant instrument in effectuating the implementation of the precautionary principle. The burden lies on the project proponent who seeks to alter the state of the environment or to impact on the environment to demonstrate that the terms on which an exemption has been granted have been fulfilled. An exemption must be construed in its strict sense according to its plain

terms. None of the three industries before the Court have furnished an exhaustive catalogue of what were the “relevant clearances from the State government” that had to be obtained under the provisions of the law as it then stood.

29. With this background, we will now assess individually whether the industries in question qualified for the exemption provided by Clause 8 to the explanatory note.

30. **Alembic Pharmaceuticals Limited**

(i) Darshak Private Limited (API - I)

The material produced on the record indicates that on 17 July 1992, GPCB had issued an NOC to establish an industrial unit and manufacture two pharmaceuticals products. However, the NOC for manufacturing additional items was issued only on 11 June 1997 subsequent to the EIA notification dated 27 January 1994. The NOC dated 17 July 1992 issued by GPCB clearly states:

“We would like to inform you that the proposed location for this industrial plant is acceptable to us **provided that you will implement the following measure for the prevention and control of environmental pollution:-**

(A)

(B)

(C)

(D) Adequate arrangement for the management and handling of hazardous waste shall be made:

IMPORTANT NOTE

(1)

(2)

(3) The applicant/entrepreneur **shall be required to obtain the following from the Board prior to commencement of production:**

(a) Consent under the Water (Prevention and Control of Pollution) Act 1974.

(b) Consent under the Air (Prevention and Control of Pollution) Act 1981.

(c) Authorisation under the Hazardous Waste (Management and Handling) Rules 1989 under the Environment (Protection) Act 1986.”

(Emphasis supplied)

GPCB while granting the NOC to establish an industrial unit required the project proponent to undertake certain measures for the prevention and control of environmental pollution including installation of treatment plants, discharge of effluents within prescribed limits and the creation of a green belt around the industrial unit. One of the points under the “Important Note” states that the project proponent “shall be required to obtain” from the board “prior to commencement of production” requisite consents and authorisations under the Air Act, Water Act and Hazardous Waste Rules. The language used in the NOC makes it clear that obtaining consents and authorisations under various environment related legislations was a mandatory pre-condition and not merely directory. In the present case, the authorisation under the Air Act was issued only on 29 May 1997 and 31 March 1999. The authorisation under the Water Act was issued on 11 October 1999. Clause 8 of the explanatory note states that for the exemption to apply, it was necessary for projects listed in Schedule - I to have obtained all relevant clearances from the State government including an NOC from the State Pollution Control Board. The evidence produced on the record by Darshak Private Limited indicates that it did not have the requisite consents and

authorisations under the Air Act, Water Act and Hazardous Waste Rules prior to the EIA notification 1994. Many of the consents and permissions were obtained subsequently and not prior to the EIA notification of 1994. Accordingly, the manufacturing unit of Darshak Private Limited (API – I) is not covered under the exemption under Clause 8 to the explanatory note of the EIA notification of 1994.

(ii) Nirayu Private Limited (API – II)

A factory license was issued on 12 July 1984 to API – II. On 24 May 1985, GPCB issued a water consent order under the Water Act. This was valid only for the manufacture of anaesthetic Ether. GPCB issued a site clearance certificate on 9 October 1991 for the manufacture of CIMC Chloride and Cloxacillin Sodium. An NOC to establish an industrial unit and to manufacture products was issued on 12 May 1993 and one for expansion on 4 December 1995. It is relevant to note that the NOC dated 12 May 1993 issued by GPCB to Nirayu Private Limited (API – II) is worded in exactly the same manner as the NOC dated 17 July 1992 issued to Darshak Private Limited (API – I). The NOC dated 12 May 1993 issued to Nirayu Private Limited (API – II) also mandates that the project proponent “shall be required to obtain” from the board “prior to commencement of production” requisite consents and authorisations under the Air Act, Water Act and Hazardous Waste Rules from GPCB. In the case of Nirayu Private Limited (API – II), authorisation under the Hazardous Waste Rules was issued on 1 September 1993. Consent to operate API – II under the Water Act was issued on

12 November 1999. GPCB issued consolidated consent and authorisation to operate API – II on 14 December 2010. From the above narration which is based on the disclosures made by Nirayu Private Limited, it is evident that all consents and permissions had not been obtained prior to the EIA notification of 1994. Accordingly, the manufacturing unit of Nirayu Private Limited (API – II) is not covered under the exemption under Clause 8 to the explanatory note of the EIA notification of 1994.

31. United Phosphorous Limited

On 31 January 1992, Gujarat Industrial Development Corporation granted land to the appellant to establish and run its unit. On 9 March 1992 and 3 October 1992, GPCB issued an NOC for the operation of the unit. The unit commenced manufacturing in 1993. It is relevant to note that the NOC dated 3 October 1993 also mandates that the project proponent “shall be required to obtain” from the GPCB “prior to commencement of production” requisite consents and authorisations under the Air Act, Water Act and Hazardous Waste Rules. United Phosphorous Limited has not disclosed the dates on which it received authorisations under the relevant environmental legislation. It has placed on record a consolidated consent and authorisation that was issued much later on 27 August 2009 under the Air Act, Water Act and Hazardous Waste (Management, Handling and Trans boundary Movement) Rules 2008. The disclosures which have been made are patently incomplete. No material has been produced to indicate that all relevant clearances from the State government

including the NOC from GPCB had been obtained prior to the EIA notification 1994. Accordingly, they cannot be granted the benefit of the exemption under Clause 8 to the explanatory note of the EIA notification of 1994.

32. Unique Chemicals Limited

The material produced on the record indicates that GPCB issued an NOC to establish and run the manufacturing unit on 14 August 1995. It is evident from the table enlisting the list of relevant permissions, consents and authorisations that all permissions were received after the EIA notification 1994 was issued. Clearly, Unique Chemicals Limited is not entitled to the benefit of the exemption contained in Clause 8 of the explanatory note to the EIA notification 1994.

33. From the material placed on the record by the industries, it becomes evident that there has been a gross abdication of responsibility by all the three industries in terms of obtaining timely consents and authorisations from the GPCB. There exists a distinction between obtaining relevant clearances and consents from the State Pollution Control Board and obtaining an environmental clearance in accordance with the procedure laid down under the EIA notification of 1994. A consent order issued by the State Pollution Control Board allows an industry to operate within the prescribed emission norms. However, the consent orders do not account for the social cost and impact of undertaking an industrial activity on the environment and its surroundings. A holistic analysis of the environmental impact of an industrial activity is only accounted for once all the steps listed out in EIA notification of 1994 are followed. The purpose of setting in place specific requirements such as public hearing, screening, scoping and

appraisal is to foster deliberative decisions and protect environmental concerns. The detailed process listed out in the EIA notification of 1994 for obtaining an EC allows for minimising the adverse environmental impact of any industrial activity and improving the quality of the environment. One must adopt an ecologically rational outlook towards development. Given the social and environmental impacts of an industrial activity, environment compliance must not be seen as an obstacle to development but as a measure towards achieving sustainable development and inter-generational equity.

34. We have therefore come to the conclusion that none of the three industries were entitled to the benefit of the exemption contained in Clause 8 of the explanatory note to the EIA notification of 1994.

35. The issue which must now concern the Court is the consequence which will emanate from the failure of the three industries to obtain their ECs until 14 May 2003 in the case of Alembic Pharmaceuticals Limited, 17 July 2003 in the case of United Phosphorous Limited, and 23 December 2002 in the case of Unique Chemicals Limited. The functioning of the factories of all three industries without a valid EC would have had an adverse impact on the environment, ecology and biodiversity in the area where they are located. The Comprehensive Environmental Pollution Index²⁴ report issued by the Central Pollution Control Board for 2009-2010 describes the environmental quality at 88 locations across the country. Ankleshwar in the State of Gujarat, where the three industries are located showed critical levels of pollution²⁵. In the Interim Assessment of CEPI for 2011, the report indicates similar critical figures²⁶ of pollution in the Ankleshwar

24 "CEPI"

25 CEPI score - 88.50

26 CEPI score - 85.75

area. The CEPI scores for 2013²⁷ and 2018²⁸ were also significantly high. This is an indication that industrial units have been operating in an unregulated manner and in defiance of the law. Some of the environmental damage caused by the operation of the industrial units would be irreversible. However, to the extent possible some of the damage can be corrected by undertaking measures to protect and conserve the environment.

36. Even though it is not possible to individually determine the exact extent of the damage caused to the environment by the three industries, several circumstances must weigh with the Court in determining the appropriate measure of restitution. First, it is not in dispute that all the three industries did obtain ECs, though this was several years after the EIA notification of 1994 and the commencement of production. Second, subsequent to the grant of the ECs, the manufacturing units of all the three industries have also obtained ECs for an expansion of capacity from time to time. Third, the MoEF had issued a circular on 5 November 1998 permitting applications for ECs to be filed by 31 March 1999, which was extended subsequently to 30 June 2001. On 14 May 2002, the deadline was extended until 31 March 2003 subject to a deposit commensurate to the investment made. The circulars issued by the MoEF extending time for obtaining ECs came to the notice of this Court in **Goa Foundation (I) v Union of India**²⁹. Fourth, though in the context of the facts of the case, this Court in **Lafarge Umiam Mining Private Limited v Union of India**³⁰ (“Lafarge”) has upheld the decision to grant *ex post facto* clearances with respect to limestone

27 CEPI score - 80.93

28 CEPI score - 80.21

29 (2005) 11 SCC 559

30 (2011) 7 SCC 338

mining projects in the State of Meghalaya. In **Lafarge**, the Court dealt with the question of whether *ex post facto* clearances stood vitiated by alleged suppression of the nature of the land by the project proponent and whether there was non-application of mind by the MoEF while granting the clearances. While upholding the *ex post facto* clearances, the Court held that the native tribals were involved in the decision-making process and that the MoEF had adopted a due diligence approach in reassuring itself through reports regarding the environmental impact of the project. Chief Justice SH Kapadia speaking for the three judge Bench observed:

“119. The time has come for us to apply the constitutional “doctrine of proportionality” to the matters concerning environment as a part of the process of judicial review in contradistinction to merit review. It cannot be gainsaid that utilization of the environment and its natural resources has to be in a way that is consistent with principles of sustainable development and intergenerational equity, but balancing of these equities may entail policy choices. In the circumstances, barring exceptions, decisions relating to utilization of natural resources have to be tested on the anvil of the well-recognized principles of judicial review. Have all the relevant factors been taken into account? Have any extraneous factors influenced the decision? Is the decision strictly in accordance with the legislative policy underlying the law (if any) that governs the field? Is the decision consistent with the principles of sustainable development in the sense that has the decision-maker taken into account the said principle and, on the basis of relevant considerations, arrived at a balanced decision? Thus, the Court should review the decision-making process to ensure that the decision of MoEF is fair and fully informed, based on the correct principles, and free from any bias or restraint. Once this is ensured, then the doctrine of “margin of appreciation” in favour of the decision-maker would come into play.”

(Emphasis supplied)

37. After advertent to the decision in **Lafarge**, another Bench of three learned judges of this Court in **Electrotherm (India) Limited v Patel Vipulkumar Ramjibhai**³¹, dealt with the issue of whether an EC granted for expansion to the appellant without holding a public hearing was valid in law. Justice Uday Umesh Lalit speaking for the Bench held thus:

“19...the decision-making process in doing away with or in granting exemption from public consultation/public hearing, was not based on correct principles and as such the decision was invalid and improper.”

The Court while deciding the consequence of granting an EC without public hearing did not direct closure of the appellant's unit and instead held thus:

“20. At the same time, we cannot lose sight of the fact that in pursuance of environmental clearance dated 27-1-2010, the expansion of the project has been undertaken and as reported by CPCB in its affidavit filed on 7-7-2014, most of the recommendations made by CPCB are complied with. In our considered view, the interest of justice would be subserved if that part of the decision exempting public consultation/public hearing is set aside and the matter is relegated back to the authorities concerned to effectuate public consultation/public hearing. **However, since the expansion has been undertaken and the industry has been functioning, we do not deem it appropriate to order closure of the entire plant as directed by the High Court.** If the public consultation/public hearing results in a negative mandate against the expansion of the project, the authorities would do well to direct and ensure scaling down of the activities to the level that was permitted by environmental clearance dated 20-2-2008. If public consultation/public hearing reflects in favour of the expansion of the project, environmental clearance dated 27-1-2010 would hold good and be fully operative. **In other words, at this length of time when the expansion has already been undertaken, in the peculiar facts of this case and in order to meet ends of justice, we deem it appropriate to change the nature of requirement of public consultation/public hearing from pre-decisional to post-decisional. The public**

31 (2016) 9 SCC 300

consultation/public hearing shall be organised by the authorities concerned in three months from today.”

(Emphasis supplied)

38. Guided by the precepts that emerge from the above decisions, this Court has taken note of the fact that though the three industries operated without an EC for several years after the EIA notification of 1994, each of them had subsequently received ECs including amended ECs for expansion of existing capacities. These ECs have been operational since 14 May 2003 (in the case of Alembic Pharmaceuticals Limited), 17 July 2003 (in the case of United Phosphorous Limited), and 23 December 2002 (in the case of Unique Chemicals Limited). In addition, all the three units have made infrastructural investments and employed significant numbers of workers in their industrial units.

39. In this backdrop, this Court must take a balanced approach which holds the industries to account for having operated without environmental clearances in the past without ordering a closure of operations. The directions of the NGT for the revocation of the ECs and for closure of the units do not accord with the principle of proportionality. At the same time, the Court cannot be oblivious to the environmental degradation caused by all three industries units that operated without valid ECs. The three industries have evaded the legally binding regime of obtaining ECs. They cannot escape the liability incurred on account of such non-compliance. Penalties must be imposed for the disobedience with a binding legal regime. The breach by the industries cannot be left unattended by legal consequences. The amount should be used for the purpose of restitution and restoration of the environment. Instead and in place of the directions issued by

the NGT, we are of the view that it would be in the interests of justice to direct the three industries to deposit compensation quantified at ₹ 10 crores each. The amount shall be deposited with GPCB and it shall be duly utilised for restoration and remedial measures to improve the quality of the environment in the industrial area in which the industries operate. Though we have come to the conclusion, for the reasons indicated, that the direction for the revocation of the ECs and the closure of the industries was not warranted, we have issued the order for payment of compensation as a facet of preserving the environment in accordance with the precautionary principle. These directions are issued under Article 142 of the Constitution. Alembic Pharmaceuticals Limited, United Phosphorous Limited and Unique Chemicals Limited shall deposit the amount of compensation with GPCB within a period of four months from the date of receipt of the certified copy of this judgment. This deposit shall be in addition to the amount directed by the NGT. Subject to the deposit of the aforesaid amount and for the reasons indicated, we allow the appeals and set aside the impugned judgment of the NGT dated 8 January 2016 in so far as it directed the revocation of the ECs and closure of the industries as well as the order in review dated 17 May 2016.

Pending application(s), if any, shall stand disposed of.

.....J.
[Dr Dhananjaya Y Chandrachud]

.....J.
[Ajay Rastogi]

New Delhi;
April 01, 2020.



UPL Limited, Unit -2
Plot No. 3405/6, G.I.D.C.
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India.

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t: +91 2646 250578 / 250575

GPCB XGN ID : 15832

Date: 4th August'2020

To,

The Gujarat Pollution Control Board
'Paryavaran Bhavan'
Sector 10-A
Gandhinagar
Gujarat -382043

| | |
|---|------------------------|
| GUJARAT POLLUTION CONTROL BOARD GANDHINAGAR. | |
| GEN CASH & CHQ/D. P./P.O./M.O. | |
| Account No. | 10,00,000000 |
| Account No. | 001847 |
| & Date | 5/8/20 |
| Signature | KRISHNA - Ten लाख काशी |

IN THE SUPREME COURT OF INDIA
CIVIL APPELLATE JURISDICTION
Civil Appeal No. 1526 of 2016
Alembic Pharmaceuticals Ltd. ...Appellant
Versus
Rohit Prajapati & Ors. ...Respondents
With
Civil Appeal No 3175 of 2016
With
Civil Appeal Nos 6604-6605 of 2016
And With
Civil Appeal No 1555 of 2017

Dear Sir,

Sub: Payment of Rs.10 crores as per SC order dated 1st April 2020 in Civil Appeal 3175 of 2016

Ref: SC order dated 1st April 2020

This has reference to the Hon'ble Supreme Court order dated 1st April 2020 (certified copy of the order received by us on 21st April 2020) in Civil Appeal no.3175 of 2017 (copy of the order is annexed for reference), hereinafter the said "Order". In compliance of the said


05/08/2020
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010



UPL Limited, Unit -2
Plot No. 3405/6, G.I.D.C.
Dist. Bharuch, Ankleshwar 393 002
Gujarat, India.

w: upl-ltd.com
t: +91 2646 250578 / 250575

Order, please find enclosed a Demand Draft for Rs.10,00,00,000/- (Rupees Ten Crores only) for and on behalf of 'UPL Limited' (formerly known as 'United Phosphorus Limited'), in favor of 'Gujarat Pollution Control Board' payable at par bearing no. 053533 dated 4th August'2020 drawn by Axis Bank.

You are requested to take this on record and acknowledge the receipt.

Thanking You,

Yours Faithfully,
For **UPL Limited**

A handwritten signature in blue ink, appearing to read 'V.V. Reddy', written over a horizontal line.

V.V. Reddy
Unit Head

Encl: as above



GUJARAT POLLUTION CONTROL BOARD

Sector-10-A, Gandhinagar 382010

FORM No. 3A

Book No. GEN/019

RECEIPT

Receipt No. GR/001847

Received with thanks from Shri/Smt./Kum UPL Limited - Unit-2

M/s Plot No. 3405/6, GIDC

Amkleshwar

Dist. Bhavnagar

Rs. ~~10,00,00,000~~ Rupees Ten Crore Only

by Cash/Cheque/D.D./Postal Order No. 053533 - 04/08/2020 Axis Bank

Date 5/8/2020 towards -

"053533" 393211051-4/8/20

For, Gujarat Pollution Control Board

SC order dated- 1st April-

2020 in Civil Appeal-3175 of
2016



Clerk / Sr.Clerk / Jr.Officer