



**UPL Limited**

(Formerly, United Phosphorus Ltd) CIN No. L24219GJ1982PLC025132  
3405 / 3406 / 3460-A, GIDC, Ankleshwar - 393 002, Gujarat (India)  
Ph. (02646) 250575, Email - pup@uniphos.com



Ref: U2/14  
July 10, 2014

Unit # 02  
Plot # 3405 / 3406/3460A, GIDC, Ankleshwar - 393 002

Dr. A Mehrotra, Director (S)  
Ministry of Environment and Forests  
Western Region Office  
Kendriya Paryavaran Bhavan  
Link Road # 3, E - 5, Ravi Shankar Nagar  
Bhopal - 462 016 (M.P)

*Ack. COBE*

Dear Sir;

Sub: - Half yearly Compliance Report to conditions of Environmental Clearance (Jan to June 2014)

Ref: - (1) Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003  
(2) Environmental Clearance # J-11011/1281/2007-IA(II) dated 15.04.2008  
(3) Consent to Establish (NOC) # 47139 dated 25.07.2012 from GPCB

Kindly refer above Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003 issued to our Unit#2 located at Plot no 3405/3406/3460A, GIDC Estate, Ankleshwar-393 002, Dist - Bharuch, Gujarat.

We are sending herewith the compliance report along with various other required details with respect to our unit #2 for your kind reference and records. The details given are for the period Jan to June 2014.

Please refer above GPCB Consent To Establish (NOC) # 47139 dated 25.07.2012 against the Environmental Clearance # J-11011/1281/2007-IA(II) dated 15.04.2008. We would like to bring to your kind attention that all Environmental Management Systems proposed in Environment Clearance / Consent to Establish (NOC) have been implented. We have applied for CC&A amendment for the above mentioned EC / NOC.

We also would like to bring to your kind attention the following initiatives taken by us;

- Constructed Hazardous Incinerable Waste Storage as per CPCB Guideline
- Procured Shimadzu make TOC / TKN meter which is already installed at ETP

RECEIVED  
Gujarat Pollution Control Board  
RO, Ankleshwar

21/7/14



## UPL Limited

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3405 / 3406 / 3460-A, GIDC, Ankleshwar - 393 002, Gujarat (India)  
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- The ETP has been expanded from 300 KLD capacity to 550 KLD capacity. In the new ETP System, we have utilized Membrane Bio Reactor (MBR), an advanced technology. However, our present effluent quantity is less than 200 KLD and hence one ETP is stand-by
- Zero discharge unit - We have installed the effluent recycling system consisting of RO Plant and Evaporation; System and plant is commissioned

We also annex Certificate of Incorporation No. L24219GJ1985PLC025132 dated 11 OCT 2013 issued by Registrar of Companies, Gujarat, Dadara and Nagar Havelli, whereby company's name has been changed from "United Phosphorus Limited" to "UPL Limited". This is for your kind information.

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 LTD

*DR P N Parameswaran*

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DR P N PARAMESWARAN  
VICE PRESIDENT - ENVIRONMENT

Encl : a/a

Copy to: The Zonal Officer  
Central Pollution Control Board  
Parivesh Bhavan  
Opp VMC ward Office-10  
Subhanpura  
Baroda-390023

: The Regional Officer  
Gujarat Pollution Control Board  
Plot No1501, GIDC  
Ankleshwar -393002

GPCB XGN ID # 15832

Ref: U2/14  
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Unit # 02  
Plot # 3405 / 3406/3460A, GIDC, Ankleshwar – 393 002

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Plot No1501, GIDC  
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GPCB XGN ID # 15832

**Period January to June 2014**  
**Compliance Report for the conditions in the**  
**Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003**  
**Issued by Ministry of Environment and Forests, New Delhi**  
**for UPL Ltd., Unit # 02, Ankleshwar, Gujarat**

Condition		Status of Compliance Period: January to June 2014
No	Description	
<p>The Ex Post Facto Environmental Clearance is granted for the following products;</p> <p>⇒ Phorate / Turbuphos @ 3600 MT/ Year; and (6000 MT /Yr after EC/NOC &amp; applied for CC&amp;A amendment) Complied.</p> <p>⇒ Acephate @ 960 MT / Year (12000 MT/year after EC/NOC &amp; applied for CC&amp;A amendment) –Complied.</p> <p>Land of project area is 65,625 m<sup>2</sup>. Project does not involve forest land and displacement of people. Water requirement is 340.1 m<sup>3</sup> / day. Solid waste in form of ETP Sludge (7.5 MT / Month), incinerator ash (9.0 MT/Month) and Inorganic Salts from Evaporation System (30 MT / Month) will be disposed off in BEIL landfill. Public Hearing was done on 16.01.2002. GPCB has granted NOC for 300 MT / Month of Phorate / Turbuphos on 17.11.1995; and 80 MT / Month of Acephate on 02.04.1996. Cost of the project is Rs 16.50 Crores.</p> <p>MOEF accords Environmental Clearance to the project under provisions of EIA Notification dated 27.01.1994 as amended subsequently subject to compliance of various special and general conditions;</p>		

**A → SPECIFIC CONDITIONS**

1	<p>Gaseous emissions (SO<sub>2</sub>, NO<sub>x</sub>, HCl, HC, NH<sub>3</sub>, H<sub>2</sub>S, Cl<sub>2</sub>) and PM from various process units to be conform to standards. At no time, emissions to go beyond standards. In case of failure of pollution control systems, unit should not be restarted until the systems are rectified to achieve desired efficiency</p>	<p><b>Complied</b></p> <p>For all parameters monitoring is done through internally by our lab and externally through M/s ENPRO Enviro Tech &amp; Engineers PVT Ltd &amp; M/s Siddhi, Monitoring reports are attached for the period <b>January to June 2014</b></p> <p><b>Process stack emission</b></p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>HCl</td> <td>9.8 – 15 mg/nm<sup>3</sup></td> </tr> <tr> <td>H<sub>2</sub>S</td> <td>2.3 – 4.3 mg/nm<sup>3</sup></td> </tr> <tr> <td>NH<sub>3</sub></td> <td>15.6 – 20.1 mg/nm<sup>3</sup></td> </tr> <tr> <td>SPM --</td> <td>BDL</td> </tr> <tr> <td>Nox -</td> <td>8.9 – 19.2 mg/nm<sup>3</sup></td> </tr> <tr> <td>SO<sub>2</sub></td> <td>BDL – 11.8 mg/nm<sup>3</sup></td> </tr> </tbody> </table> <p><b>Ambient Air monitoring emission</b></p> <table border="1"> <tbody> <tr> <td>PM 2.5</td> <td>34.5 - 46.7 micro g/nm<sup>3</sup></td> </tr> <tr> <td>PM 10</td> <td>79 – 90 micro g/nm<sup>3</sup></td> </tr> <tr> <td>Sox</td> <td>22.8 – 34.6 micro g/nm<sup>3</sup></td> </tr> <tr> <td>Nox</td> <td>26.7 – 38.8 micro g/nm<sup>3</sup></td> </tr> <tr> <td>HCL</td> <td>40 – 54.3 micro g/nm<sup>3</sup></td> </tr> <tr> <td>H<sub>2</sub>S</td> <td>BDL</td> </tr> </tbody> </table>	Parameters	Range	HCl	9.8 – 15 mg/nm <sup>3</sup>	H <sub>2</sub> S	2.3 – 4.3 mg/nm <sup>3</sup>	NH <sub>3</sub>	15.6 – 20.1 mg/nm <sup>3</sup>	SPM --	BDL	Nox -	8.9 – 19.2 mg/nm <sup>3</sup>	SO <sub>2</sub>	BDL – 11.8 mg/nm <sup>3</sup>	PM 2.5	34.5 - 46.7 micro g/nm <sup>3</sup>	PM 10	79 – 90 micro g/nm <sup>3</sup>	Sox	22.8 – 34.6 micro g/nm <sup>3</sup>	Nox	26.7 – 38.8 micro g/nm <sup>3</sup>	HCL	40 – 54.3 micro g/nm <sup>3</sup>	H <sub>2</sub> S	BDL
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2	<p>Fugitive emissions in workplace environment, product, raw material storage areas, to be monitored. Fugitive emissions containing solvent from process and storage tank vents and accidental leakage of EM and TBM to be subjected to thermal destruction in fume incinerator. Flue gas emissions from incinerator to conform to the standards prescribed by GPCB</p>	<p><b>Complied</b></p> <p>Fugitive emission monitoring at various locations are being carried out by our Quality Assurance (QA) Department and data being maintained. Please refer enclosed details for fugitive emissions.</p> <p>Fume incinerator is in operation</p>																										

3	<p>Process emissions (H<sub>2</sub>S, NH<sub>3</sub>, MeCl<sub>2</sub>, and VOC) to be scrubbed through venturi and packed column scrubbers and conform to prescribed standards. The efficiency of scrubber to be improved and maintained as per best practicable technology. VOC data to be monitored and submitted to the Ministry</p>	<p><b>Complied</b>  VOC Monitoring is done and monitoring reports are attached.</p> <p><b>Process stack emission</b></p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>HCl</td> <td>9.8 – 15 mg/nm<sup>3</sup></td> </tr> <tr> <td>H<sub>2</sub>S</td> <td>2.3 – 4.3 mg/nm<sup>3</sup></td> </tr> <tr> <td>NH<sub>3</sub></td> <td>15.6 – 20.1 mg/nm<sup>3</sup></td> </tr> <tr> <td>SPM --</td> <td>BDL</td> </tr> <tr> <td>Nox -</td> <td>8.9 – 19.2 mg/nm<sup>3</sup></td> </tr> <tr> <td>SO<sub>2</sub></td> <td>BDL – 11.8 mg/nm<sup>3</sup></td> </tr> </tbody> </table> <p><b>Ambient Air monitoring emission</b></p> <table border="1"> <tbody> <tr> <td>PM 2.5</td> <td>34.5 - 46.7 micro g/nm<sup>3</sup></td> </tr> <tr> <td>PM 10</td> <td>79 – 90 micro g/nm<sup>3</sup></td> </tr> <tr> <td>Sox</td> <td>22.8 – 34.6 micro g/nm<sup>3</sup></td> </tr> <tr> <td>Nox</td> <td>26.7 – 38.8 micro g/nm<sup>3</sup></td> </tr> <tr> <td>HCL</td> <td>40 – 54.3 micro g/nm<sup>3</sup></td> </tr> <tr> <td>H<sub>2</sub>S</td> <td>BDL</td> </tr> </tbody> </table>	Parameters	Range	HCl	9.8 – 15 mg/nm <sup>3</sup>	H <sub>2</sub> S	2.3 – 4.3 mg/nm <sup>3</sup>	NH <sub>3</sub>	15.6 – 20.1 mg/nm <sup>3</sup>	SPM --	BDL	Nox -	8.9 – 19.2 mg/nm <sup>3</sup>	SO <sub>2</sub>	BDL – 11.8 mg/nm <sup>3</sup>	PM 2.5	34.5 - 46.7 micro g/nm <sup>3</sup>	PM 10	79 – 90 micro g/nm <sup>3</sup>	Sox	22.8 – 34.6 micro g/nm <sup>3</sup>	Nox	26.7 – 38.8 micro g/nm <sup>3</sup>	HCL	40 – 54.3 micro g/nm <sup>3</sup>	H <sub>2</sub> S	BDL
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<p>4</p>	<p>As reflected in EIA / EMP Report, effluent generation not to exceed 218 m<sup>3</sup> / day. To reduce organic load, various effluent streams to be segregated and following treatment system to be followed;</p> <ul style="list-style-type: none"> <li>⇒ Organic waste water streams generated from process, low boilers and distillation residues generated from process, which are organic in nature, to be collected separately and incinerated</li> <li>⇒ Effluent stream containing high dissolved solids before discharging in solar evaporation pond having an area of 4000 sq m, to be treated suitably. Solvents from effluent to be recovered before discharging in solar evaporation pond. Besides, as reflected in EIA / EMP Report, aqueous stream containing high dissolved solid to be evaporated by installation of forced evaporation system with the help of steam</li> <li>⇒ Streams with high organic load (high COD and BOD) to be treated chemically with Hydrogen Peroxide and sent to ETP for treatment</li> <li>⇒ Dilute waste streams generated from process, utilities including blow downs of cooling towers and boilers, and waste water from softening plant and domestic waste water to be given primary, secondary and tertiary treatment. Treated effluent, after conforming the standards, to be discharged in GIDC drain. The effluent quality before disposal to Amla Khadi, to be as follows; <ul style="list-style-type: none"> <li>⇒ PH @ 5.5 to 8.5</li> <li>⇒ BOD @ 30 mg / l</li> <li>⇒ COD @ 100 mg / l</li> <li>⇒ SS @ 100 mg / l</li> <li>⇒ Oil and Grease @ 10 mg / l</li> <li>⇒ Phenol @ 1 mg / l</li> <li>⇒ Sulphide @ 0.5 mg / l</li> </ul> </li> </ul>	<p><b>Complied</b></p> <p>Summarized data of effluent generation and quantity discharged is attached herewith for the period <b>January to June 2014</b></p> <p><b>Complied.</b></p> <p>Organic waste and Aqueous waste is being sent to common Incinerator, BEIL Ankleshwar for incineration.</p> <p><b>Complied</b></p> <p>Four Reactors of forced evaporator are in operation. About 40 kl / day can be evaporated in this system. Details of quantity treated during <b>January to June 2014</b> is attached herewith</p> <p><b>Complied</b></p> <p>In the chemical treatment section, effluent having high COD is treated with Hydrogen Peroxide. The treated effluent is further treated at ETP. Details of quantity treated during <b>January to June 2014</b> is attached herewith</p> <p><b>Complied</b></p> <p>Primary, secondary and tertiary treatment facilities are in operation. Company is sending treated effluent through GIDC drain to FETP,NCTL(BEAIL), and Ankleshwar for further treatment and disposal to deep sea.</p> <p><b>Zero discharge unit</b> - We have installed the effluent recycling system consisting of RO Plant and Evaporation System and plant is commissioned. Since May 2014, there is no effluent discharge</p> <p>ETP has been expanded from 300 KLD capacity to 550 KLD <b>capacity</b>. In the new ETP System, we have utilized Membrane Bio Reactor (MBR), an advanced technology. However, as the effluent quantity is less than 200 KLD, one ETP is idle</p>
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5	Company to recover MECL (CH <sub>3</sub> CL) by installation of CH <sub>3</sub> CL recovery plant. Further, solvent recovery to be improved and attempts to be made to achieve at least 90 % recovery wherever possible. Rest solvent which can't be recovered, to be incinerated. Action plan to be submitted to Ministry within 3 months	<p><b>Complied.</b></p> <p>Solvent recovery is above 96 %</p>
6	Company to upgrade existing incinerator for incineration of hazardous waste. Organic aqueous and solid waste generated should be collected and incinerated for total destruction. As reflected in EIA / EMP Report, solid waste and ash to be stored in the plant premises in a pit with impervious flooring and leachate collection system. The ash and sludge from ETP to be finally disposed in BEIL landfill. Leachate to be sent to ETP for treatment	<p><b>Complied.</b></p> <p>Our Incinerator is dismantled.</p> <p>Company is utilizing Common Incinerator facility of BEIL, Ankleshwar.</p> <p>ETP sludge is being disposed to BEIL for landfilling. Leachate is taken to ETP for further treatment.</p> <p>Hazardous waste storage area has constructed as per CPCB, Guideline.</p>
7	As per commitment given to Ministry, existing incineration system to be up graded by 31.03.2004. Company to also take membership of Common Incineration System of BEIL	<p><b>Complied.</b></p> <p>The Company has taken membership of the Common Incineration System of BEIL. The company is sending incinerable material to BEIL, Ankleshwar for Incineration. Details are attached for the period <b>January to June 2014</b></p>
8	Destruction efficiency of incinerator to be assessed by agency like CPCB and report submitted. Company to monitor VOC's and data submitted to Ministry / CPCB / GPCB regularly.	<p><b>Complied.</b></p> <p>The Company has taken membership of the Common Incineration System of BEIL, Ankleshwar. The company is sending incinerable material to BEIL, Ankleshwar for Incineration. Details are attached for the period <b>January to June 2014</b></p>
9	As per CREP, bio assay test method to be replaced by Toxicity Factor test method developed by CPCB. T <sub>F</sub> =4 to be achieved by December 2003 and T <sub>F</sub> =2 by July 2006. Action plan to be submitted within 3 months to Ministry	<p><b>Complied.</b></p> <p>Reports of monitoring done are attached herewith for the period <b>January to June 2014</b></p>

10	As per action plan submitted to Ministry, Company to adopt waste minimization and cleaner production techniques to reduce solvent, raw material, water and energy consumption. Company to install modified P <sub>2</sub> S <sub>5</sub> handling system with tote bins to prevent spillages. To reduce decontamination and disposal, company to re cycle the drums	<p><b>Complied.</b></p> <p>This is an ongoing activity.</p> <ul style="list-style-type: none"> <li>• Drums recycling for FG packing in Plants.</li> <li>• Steam condensate is recycled in to Boilers.</li> <li>• We have reduced the raw material consumption norms.</li> <li>• We have increased Solvent recovery up to 96%.</li> <li>• Vent scrubber provided for hazardous chemical storage tanks vents.</li> <li>• Additional vent condenser provided and improved solvent recovery.</li> <li>• Reduced raw Effluent quantity by taking cleaner production initiatives in the plant.</li> </ul>
11	Company to undertake rain water harvesting as per action plan submitted to this Ministry	<p><b>Complied.</b></p> <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m<sup>2</sup>. The total rain water collection (considering 24" rain fall) comes to 840 KL in a year. The collected rain water is used in cooling tower make up. Also, part of the rain water collected is taken to storage tanks. The storage tank capacity is 650 KL.</p>
12	Company to comply with environmental protection measures and safeguards recommended in EIA / EMP / RRA Reports as well as recommendations of Public Hearing Panel	<p><b>Complied.</b></p>
13	Green belt of adequate width and density in project area of 1200 sq m in addition to 7642 sq m to be provided to mitigate effect of fugitive emissions all around plant. Development of green belt along boundary wall, open space and avenue roads, to be improved in consultation with local DFO as per CPCB guidelines	<p><b>Complied.</b></p> <p>This is an ongoing activity.</p> <p>During <b>January to June 2014</b>, about 55 nos saplings have been planted. Moreover, we have developed greenery in front of our Unit</p>
14	As per policy decision taken by this Ministry, Company to earmark a separate fund @ 1 % of project cost (Rs 16.50 Crores) for eco development measures including community welfare measures in project area. Amount to be deposited within 2 months in a separate account to be maintained by GPCB. Plans to be submitted to Ministry and GPCB within 3 months. After approval of action plan by GPCB, amount deposited may be released in two installments based on progress of implementation	<p><b>Complied.</b></p> <p>We have submitted details to GPCB as we have already spent more than Rs 16.50 Lacs for eco development and other community welfare schemes.</p>
<b><u>B → GENERAL CONDITIONS</u></b>		

1	Company to adhere to stipulations made by GPCB	<p><b>Complied.</b></p> <p>We upload online monthly data through GPCB XGN website. We also submit monthly external party monitoring results. Annual hazardous waste return, water cess return &amp; Environmental Statements are being sent to GPCB regularly</p>
2	No further expansion / modifications in the plant to be carried out without prior approval of MOEF. In case of deviations / alterations in the project proposals from those submitted, a fresh reference to be made to Ministry to assess adequacy of conditions imposed and add additional environmental protection measures required, if any	<p><b>Complied.</b></p> <p>We have obtained Environmental Clearance # F. No. J-11011/1281/2007-IA(II) dated 15.04. 2008 for proposed expansion of pesticide and Intermediate Products. We have also obtained consent to establish(NOC) for EC products and certificate is attached in Annexure-1.We have applied for CC&amp;A amendment on 23.05.2014</p> <p>We have renewed CC&amp;A # AWH-57916 dated 24.10.2013 which is valid up to 02.08.2018. Copy of the same is attached herewith.</p>
3	Company to comply with MSIHC Rules 2000. Prior approvals of Chief Inspector of Factories, Chief Inspector of Explosives, Fire Safety Inspectorate etc, to be obtained	<p><b>Complied.</b></p> <p>The company is having various statutory licenses and approvals</p>
4	Company to comply with HWM Rules and authorization from GPCB to be obtained	<p><b>Complied.</b></p> <p>We have renewed CC&amp;A # AWH-57916 dated 24.10.2013 which is valid up to 02.08.2018. Copy of the same is attached herewith.</p>
5	Overall noise levels in and around plant area to be kept within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc, on all sources of noise generation. Ambient noise levels to conform to standards i.e. 75 dBA (day time) and 70 dBA (night time)	<p><b>Complied.</b></p> <p>Being monitored and found to be within limits</p> <p>Monitoring is done internally &amp; reports are attached herewith for the period <b>January to June 2014.</b></p>

6	Occupational health surveillance program to be undertaken as regular exercise for all employees, specifically for those engaged in handling hazardous substances. First aid facilities in OHC to be strengthened and medical records of each employee to be maintained.	<p><b>Complied.</b></p> <p>The company is having full time medical doctor and also OHC. Pre-employment and routine medical examinations are being carried out. Regular BCA test for employees is also being carried out. All medical records are being maintained.</p> <p>Every two years, complete medical examination is carried out. The frequency of check-up is as follows;</p> <ul style="list-style-type: none"> <li>• Blood Cholinesterase Activity (BCA) Test is carried out every 15 days</li> <li>• Brief Medical examination is done half yearly for blood, urine etc</li> <li>• Full medical examination is done every alternate year including Physical examination, Hemoglobin ,Complete Blood Count, ESR, Complete Urine Examination, Lever Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc</li> </ul>
7	A separate Environment Management Cell with full-fledged laboratory to be set up to carry out the environmental management and monitoring functions	<p><b>Complied.</b></p> <p>Environmental Cell is in operation. VP (Env) from Corporate Level supports the units in environmental compliances. The various environmental protection measures are coordinated by a GM. Waste water analysis, bio assay test, ambient air monitoring, stack monitoring, solid waste analysis, noise level monitoring, VOC Monitoring are carried out. Also, environmental audit is being carried out</p>
8	Company to provide adequate funds for recurring and non-recurring expenses to implement the conditions stipulated by MOEF as well as state government along with implementation schedule for all conditions stipulated. The funds should not be diverted for any other purposes	<p><b>Complied.</b></p> <p>The funds are already provided as a part of manufacturing activities and operation of ETP / Incinerator. Separate Cost Codes are also available</p>
9	Implementation of the project and Environmental Action Plan to be monitored by MOEF, Regional Office at Bhopal, GPCB / CPCB. A six monthly compliance report to be submitted to monitoring agencies	<p><b>Being complied.</b></p> <p>Half yearly compliance reports are being sent during February and August every year</p>
10	Company to inform public that project has been accorded Environmental Clearance by Ministry and copies are available with GPCB and may be seen at MOEF's web site. This should be advertised within 7 days in two local newspapers and copies to be submitted to RO-GPCB	<p><b>Complied.</b></p> <p>Advertisements were given in two news-papers and copy submitted to MOEF</p>

11	Company to inform RO-GPCB as well as Ministry, date of financial closure and final approval of the project by concerned authorities and date of commencing the land development work, if any	<b>Complied.</b> Since this is an ex post-facto Environmental Clearance for an existing unit, this conditions is not applicable.
-	Ministry may revoke or suspend the clearance, if implementation of any of the conditions is not satisfactory	<b>Noted</b>
-	Ministry reserves the right to stipulate additional conditions if required. Company, in a time bound manner, will implement the same	<b>Noted</b>
-	The above conditions will be enforced inter-alia under provisions of various acts and rules	<b>Noted</b>

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**for UPL Ltd., Unit # 2, Ankleshwar, Gujarat**

Condition		Status of Compliance Period: January to June 2014
No	Description	

The Environmental Clearance for Expansion of Pesticides and Intermediates is granted for the following products;

S. No.	Name of Products	Capacity (MTM)			
		Existing	After Expansion		
<b>Pesticides</b>					
1	Devrinol <b>or</b> Metabromuron	140 <b>or</b> 30	300 <b>or</b> 30	Complied.  We have applied for CC&A amendment on 23.05.2014. Zero discharge unit – We have installed the effluent recycling system consisting of RO Plant and Evaporation System and plant is commissioned. Since May 2014, there is no effluent discharge to FETP of M/s NCTL.	
2	Terbuphos/Phorate (Combined Capacity)	200	500		
3	Acephate <b>or</b> Metamitron	160 <b>or</b> 60	1000 <b>or</b> 60		
4	Phosphamidon (PD) or Surflan	100 <b>or</b> 40	100 <b>or</b> 40		
5	Dichlorovos (DDVP)	85	85		
6	Monocrotophos	-	100		
7	Acetamapride <b>or</b> Imidacloprid	-	100 <b>or</b> 50		
8	Metribuzin	-	50		
<b>Total (Maximum)</b>		<b>685</b>	<b>2235</b>		
<b>Other Products-Intermediate Chemicals</b>					
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		
<b>Total (Maximum)</b>		<b>1386</b>	<b>1894</b>		

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Condition		Status of Compliance Period: January to June 2014	
No	Description		

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 <sub>3</sub> from Noflan	-	20.49
27	Ammonia from Noflan	-	0.36
28	Ethanol from Acetamiprid	-	0.84
<b>Total (Maximum)</b>		<b>928.2</b>	<b>1281.85</b>

Land of project area is 65,625 m<sup>2</sup>. Project does not involve forest land and displacement of people. Water requirement is 340.1 m<sup>3</sup> / day. Solid waste in form of ETP Sludge (7.5 MT / Month), incinerator ash (9.0 MT/Month) and Inorganic Salts from Evaporation System (30 MT / Month) will be disposed off in BEIL landfill. Public Hearing was done on 16.01.2002. GPCB has granted NOC for 300 MT / Month of Phorate / Turbuphos on 17.11.1995; and 80 MT / Month of Acephate on 02.04.1996. Cost of the project is Rs 16.50 Crores.

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 up gradation. 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 H<sub>2</sub>O<sub>2</sub> followed by ETP treatment. H<sub>2</sub>S, NH<sub>3</sub>, HCl and Cl<sub>2</sub> 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 H<sub>2</sub>S, 3 stage scrubbers have been installed. The unit is carrying Bio-Assay test and toxicity factor which ranges in 2-4.

The project activity is listed at S.N. 5(b) under Category A and the proposal was appraised at Centre level in 78<sup>th</sup> meeting of the Expert Appraisal Committee (Industry) held during 20<sup>th</sup> & 22<sup>nd</sup> February, 2008

MOEF accords Environmental Clearance to the project under provisions of EIA Notification dated 14.09.2006 as amended subsequently subject to compliance of various special and general conditions;

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Condition		Status of Compliance Period: January to June 2014
No	Description	

**A → SPECIFIC CONDITIONS**

1	The company shall comply all the stipulations given the environmental clearance issued vide F. No. J-11011/77/2002-IA(II) dated 17 <sup>th</sup> July 2003	Complied. Please refer above Half yearly EC compliance report for the environmental clearance issued vide F. No. J-11011/77/2002-IA(II) dated 17 <sup>th</sup> July 2003
2	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	Complied. We have Taken membership of FETP, NCTL Ankleshwar for additional effluent from proposed expansion. We have installed the effluent recycling system consisting of RO Plant and Evaporation System and plant is commissioned. Since May 2014, there is no effluent discharge to FETP, M/s NCTL.
3	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	Complied. We have installed the effluent recycling system consisting of RO Plant and Evaporation System and plant is commissioned. Since May 2014, there is no effluent discharge to FETP, M/s NCTL.
4	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	Complied.
5	Bioassay test and toxicity index shall be carried out regularly for the waste water before and after treatment	Complied Bioassay test and toxicity factor test is being conducted for ETP outlet & monitoring result is attached herewith.
6	The company shall install continuous monitoring equipment for H <sub>2</sub> S and Cl <sub>2</sub> from the stack and data shall be submitted with reports	Noted & complied. For Chlorine, Ammonia and H <sub>2</sub> S gases' monitoring by sensors which are installed in various plants



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Condition		Status of Compliance Period: January to June 2014
No	Description	
7	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> , HCl, Cl <sub>2</sub> , H <sub>2</sub> S, 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	Complied  We have internal and external monitoring for ambient air. All parameters are well within the limit.
8	The company shall provide the monitoring arrangement with all the vents for monitoring of (SO <sub>2</sub> , NO <sub>x</sub> , HCl, Cl <sub>2</sub> , H <sub>2</sub> S, 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	Complied  All vents/ stacks are provided proper monitoring arrangement. We have provided three ambient air monitoring stations. We are submitting the analysis report to GPCB on monthly basis.
9	Chilled Brine Secondary Condensers shall be provided for control of evaporation of low boiling solvents	Complied.  Secondary condenser provided with chilled Brine connection.
10	Standards notified for pesticides unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed by the Unit	Complied.
11	The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, Cl <sub>2</sub> , SO <sub>2</sub> , etc. high efficiency scrubbers shall be provided with each reactor	Complied.  Provided stacks height as per CPCB guideline
12	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	Noted for compliance  The scrubber solutions are either taken as by-product (NaSH) or sent to ETP for treatment
13	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%	Complied.  All solvent recovery is above 96%.  We have monthly VOC monitoring.

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Condition		Status of Compliance Period: January to June 2014
No	Description	
14	<p>Solvent management shall be as follows :</p> <p>A. Reactor shall be connected to chilled brine condenser system</p> <p>B. Reactor and solvent handling pump shall have mechanical seals to prevent leakages</p> <p>C. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery</p> <p>D. Solvents shall be stored in a separate space specified with all safety measures</p> <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>Noted &amp; complied.</p> <p>All reactor vents are connected to common Condenser or Fume incinerator.</p> <p>Reactor and pumps are provided mechanical seal.</p> <p>Solvent recovery is above 96%</p> <p>For Hazardous chemicals/solvent storage taken all safety measures.</p> <p>Electrical earthing provided to all storage tanks / equipment's.</p>
15	<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>Noted and complied.</p> <p>We have internal monitoring for Fugitive emission and monitoring results are attached.</p>
16	<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>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>Noted and complied.</p> <p>Provided closed handling system for Hazardous Chemicals. Mechanical seals are provided to pumps and reactors. LDAR system is in place. We are using portable VOC monitor for checking</p>
17	<p>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</p>	<p>Noted &amp; complied.</p>

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No	Description	
18	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N <sub>2</sub> 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	Noted & complied. Storage tanks are connected to scrubber or condenser or N <sub>2</sub> blanketing or Fume Incinerator. Pumps are provided mechanical seals. We have VOC monitoring internally on regular basis.
19	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) program for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels	Noted & Complied Regular inspections are carried out with reference to plant operations like Pumps, Valves, Pipes etc, as per maintenance software (SAP). Preventive Maintenance Program as per SAP Regular Ambient Air and VOC monitoring. For Chlorine, Ammonia and H <sub>2</sub> S gases' monitoring by sensors which are installed in various plants
20	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	Complied. We have applied for CC&A amendment on 23.05.2014.
21	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	Complied.
22	The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit	Noted & complied Fume incinerator provided to control odors compounds
23	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Noted & complied. We have regular medical checkup for all employees.
24	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling	Noted & complied. We have adequate fire hydrant system and fire extinguishers to control fire.

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<b>Condition</b>		<b>Status of Compliance</b> <b>Period: January to June 2014</b>
<b>No</b>	<b>Description</b>	
25	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	Noted & complied. Company has implemented OHSAS 18001. Daily safety talks to all employees. Conducted training to all level of employees through internal and external experts.
26	Usage of PPEs by all employees/ workers shall be ensured	Noted & complied
27	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP) for pesticide units	Noted & complied. All CREP points are implemented
28	The project authorities shall develop greenbelt in 12,252 m <sup>2</sup> of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission	Noted for compliance. Tree plantation is continuous activity
<b><u>B → GENERAL CONDITIONS</u></b>		
1	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body	Noted & complied
2	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	Noted & complied
3	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	Noted & complied.
4	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	Noted & complied. We have three Ambient Air monitoring stations and set up as per CPCB guideline.

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Condition		Status of Compliance Period: January to June 2014
No	Description	
5	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	Noted & Complied. Provide Stacks height as per CPCB guideline. Scrubber water is being send to ETP for treatment
6	The company shall undertake following Waste Minimization measures :- <ul style="list-style-type: none"> <li>• Metering of quantities of active ingredients to minimize waste.</li> <li>• Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> <li>• Maximizing recoveries</li> <li>• Use of automated material transfer system to minimize spillage.</li> <li>• Use of Closed Feed system into batch reactors.</li> </ul>	Noted & complied From Ammonium Acetate, the Company is recovering valuable products Ammonium Sulphate, Acetic Acid & Sodium Acetate.  The Company is recovering various by-products. From scrubbing H <sub>2</sub> S, the by-product NASH is generated and is sold.
7	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	Noted & complied We have obtained authorization from GPCB as per Hazardous Wastes (Management, Handling & trans-boundary) Rules, 2008
8	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)	Noted & Complied We have internal and external Noise monitoring and noise level is well within the limit.
9	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions	Noted & Complied. Company has Environment Management cell .We have full-fledged Environment Lab with all required equipment's.
10	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	Noted & complied
11	The project authorities shall provide rainwater harvesting system and ground water recharge	Noted & complied
12	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	Noted & complied

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Condition		Status of Compliance Period: January to June 2014
No	Description	
13	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 <a href="http://envfor.nic.in/">http://envfor.nic.in/</a> . 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	Complied. We have given advertisement in two news-papers and details submitted to MoEF
14	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	Noted & complied
-	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted for compliance
-	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions	Noted for compliance
-	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	Noted for compliance
-	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	Noted for compliance

**PRODUCTION DETAILS (QUANTITY IN MT/ MONTH)**

Month	Acephate	Phorate	Terbufos	DETA	Devrinol	Phosph Amidon	Surflan	ZnDTP	Ethofu misate	Metasystox RVL
Jan.'14	160.000	120.537	79.450	0.000	140.000	0.000	21.960	116.01	0.000	0.000
Feb' 14	160.000	19.295	111.457	0.000	140.000	0.000	40.000	500.00	0.000	0.000
March'14	160.000	78.874	103.966	0.000	140.000	0.000	40.000	500.00	0.000	17.16
Apr.'14	160.000	72.736	88.984	17.775	5.000	0.000	0.000	246.71	0.000	38.28
May.'14	160.000	186.38	12.485	98.55	24.878	0.000	0.000	275.34	16.500	0.000
June'14	160.000	105.742	73.321	93.645	0.878	12.150	0.000	325.485	19.500	19.802

**FORMULATION PRODUCTS (QUANTITY IN MT/MONTH)**

Month	Acephate 97 DF%	Acephate 75 %DF	Phorate formulation	Devrinol 50 % DF	Surflan 85 % DF	Monocrotophos 36 % EC	Phosphamid on formulation
Jan.'14	300.000	100.000	89.438	61.250	0.000	100.000	0.000
Feb' 14	300.000	100.000	0.000	18.050	27.200	100.000	100.000
March'14	300.000	100.000	117.481	112.350	30.000	63.710	100.000
Apr.'14	300.000	100.000	232.202	0.000	0.000	100.000	0.000
May.'14	300.000	100.000	0.000	0.000	20.400	100.000	0.000
June'14	300.000	100.000	39.565	0.000	0.000	100.000	0.000

**DETAILS OF WATER CONSUMPTION AND TREATED EFFLUENT DISCHARGE TO FETP, NCTL, ANKLESHWAR**

MONTH	WATER CONSUMPTION	TREATED EFFLUENT DISCHARGE QUANTITY ( INDUSTRIAL+ DOMESTIC) TO FETP, (NCTL, ANKLESHWAR	Remarks
<b>ALL QUANTITIES IN KL/MONTH</b>			
Jan.'14	4478	3	
Feb' 14	8849	1904	
March'14	8852	1538	
Apr.'14	10146	1398	
May.'14	9927	NIL	Implemented Zero discharge units.
June'14	8093	NIL	

**HIGH TDS EFFLUENT TREATMENT AT EVAPORATION SYSTEM**

MONTH	Evaporation QTY KL/ MONTH
Jan.'14	1342
Feb' 14	1278
March'14	1318
Apr.'14	1094
May.'14	1259
June'14	1340

**DETAILS OF HIGH COD EFFLUENT TREATMENT: CHEMICAL TREATMENT BY H<sub>2</sub>O<sub>2</sub>**

MONTH	HIGH COD EFFLUENT CHEMICAL TREATMENT (H <sub>2</sub> O <sub>2</sub> TREATMENT) - QTY KL/MONTH
Jan.'14	280
Feb' 14	184
Mar'14	288
Apr.'14	384
May.'14	296
June'14	312

INCINERATION WASTE DETAILS						
MONTH	OP. STOCK	GENERATION			DISPOSAL	CL. STOCK
		ORGANIC PROCESS WASTE	AQUEOUS PROCESS WASTE	TOTAL (ORGANIC+ AQ PROCESS) WASTE	SENT TO BEIL, ANKLESHWAR FOR INCINERATION	
ALL QTY IN MT/ MONTH						
Jan.'14	7.537	138.000	548.000	686.000	686.32	7.217
Feb' 14	7.217	139.000	406.500	545.500	544.33	8.387
March'14	8.387	139.000	531.000	670.000	669.28	9.107
Apr.'14	9.107	139.000	626.000	765.000	766.93	7.177
May.'14	7.177	139.000	810.000	949.000	946.990	9.187
June'14	9.187	138.000	644.0	782.000	782.50	8.687



SOLID WASTE DETAILS -Landfilling						
MONTH	OP STOCK	GENERATION			SOLID(*) DISPOSAL TO BEIL	CL. STOCK
		ETP sludge	*EVAPORATION SALT	TOTAL	MONTHLY	
ALL QTY IN MT/MONTH						
Jan.'14	8.739	25.000	475.000	500.000	499.840	8.899
Feb' 14	8.899	28.000	554.000	582.000	583.080	7.819
March'14	7.819	54.000	778.000	832.000	832.770	7.049
Apr.'14	8.869	16.800	206.000	222.800	223.360	8.309
May.'14	8.309	21.500	198.000	219.500	219.020	8.789
June'14	8.789	23.500	317.000	340.500	340.610	8.679

As a part implementation of CEPI action plan, we have started in-house processing of Ammonium Acetate -and converted in to valuable By –products. During this process generated salt/solid waste is being sending to BEIL for landfilling.

TOTAL DISPOSAL QTY TO BEIL –MT/M- LANDFILLING					
MONTH	SOLIDS(*)	PLASTIC WASTE	INSULATION WASTE	Construction Debris	TOTAL WASTE SENT TO BEIL FOR LANDFILLING
ALL QTY IN MT/MONTH					
Jan.'14	499.84	0	0	275.62	775.46
Feb' 14	583.08	1.62	0.89	0	585.59
March'14	832.77	3.60	0.00	159.99	996.36
Apr.'14	223.36	0.00	0.00	0.00	223.36
May.'14	219.020	1.510	0.000	0.000	220.53
June'14	340.61	0.00	1.31	0.00	341.92

## AMBIENT AIR ANALYSIS REPORT (By Our Internal Lab)

UPLTD. UNIT-2.

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JAN -2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	01/01/14	180.90	44.44	28.20	17.70	70.15	....	BDL
SCRAP YARD	03/01/14	199.83	51.39	24.76	16.91	13.14	BDL	....
SCRAP YARD	05/01/14	185.24	69.79	26.42	21.30	38.87	....	BDL
SCRAP YARD	07/01/14	189.00	60.88	45.00	21.50	15.28	BDL	....
SCRAP YARD	09/01/14	184.60	61.68	20.91	20.83	42.58	....	BDL
SCRAP YARD	11/01/14	140.80	45.83	24.68	25.00	24.30	BDL	....
SCRAP YARD	13/01/14	208.50	37.50	15.70	14.53	5.72	....	BDL
SCRAP YARD	15/01/14	170.48	40.62	23.11	14.50	16.84	BDL	....
SCRAP YARD	17/01/14	201.91	61.80	31.37	30.20	18.05	....	BDL
SCRAP YARD	19/01/14	168.86	55.32	52.84	16.40	14.81	BDL	....
SCRAP YARD	21/01/14	189.75	71.52	20.64	9.66	3.17	....	BDL
SCRAP YARD	23/01/14	158.16	56.25	35.63	18.93	16.00	BDL	....
SCRAP YARD	25/01/14	144.09	30.55	21.46	17.72	13.60	....	BDL
SCRAP YARD	27/01/14	168.23	56.69	34.10	15.67	16.66	BDL	....
SCRAP YARD	29/01/14	175.52	53.12	21.46	16.50	19.44	....	BDL
SCRAP YARD	31/01/14	160.07	61.11	27.65	16.91	35.41	BDL	....
	Maximum	209	72	53	30	70	0	0
	Minimum	141	31	16	10	3	0	0
	Average JAN-14	177	54	28	18	23	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LTD. UNIT-2.

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JAN -2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	01/01/14	191.67	43.75	19.90	17.72	145.20	....	BDL
ETP AREA	03/01/14	156.94	66.32	33.24	23.70	6.94	BDL	....
ETP AREA	05/01/14	156.42	90.10	20.64	11.68	32.00	....	BDL
ETP AREA	07/01/14	187.61	69.67	22.16	21.08	13.00	BDL	....
ETP AREA	09/01/14	199.07	77.66	19.88	13.14	7.40	....	BDL
ETP AREA	11/01/14	190.10	44.44	21.40	14.10	18.30	BDL	....
ETP AREA	13/01/14	158.85	51.21	21.46	17.88	43.73	....	BDL
ETP AREA	15/01/14	189.06	47.92	28.10	22.55	68.68	BDL	....
ETP AREA	17/01/14	189.58	59.72	26.42	14.10	23.61	....	BDL
ETP AREA	19/01/14	196.76	61.00	16.47	20.34	72.20	BDL	....
ETP AREA	21/01/14	131.59	53.12	23.12	19.30	14.00	....	BDL
ETP AREA	23/01/14	191.32	32.63	20.57	18.60	84.00	BDL	....

ETP AREA	25/01/14	125.34	27.08	22.30	20.13	64.80	....	BDL
ETP AREA	27/01/14	176.38	67.36	18.31	20.86	18.05	BDL	....
ETP AREA	29/01/14	173.09	66.84	23.94	25.77	46.30	....	BDL
ETP AREA	31/01/14	156.50	54.16	19.81	12.88	35.44	BDL	....
	Maximum	199	90	33	26	145	0	0
	Minimum	125	27	16	12	7	0	0
	Average JAN-14	173	57	22	18	43	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPLTD. UNIT-2.  
 AMBIENT AIR ANALYSIS REPORT

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Q.A. DEPT.

MONTH JAN -2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	01/01/14	186.81	68.58	42.50	18.28	6.44	27.80	....	BDL
MAIN GATE	03/01/14	156.94	66.32		33.24	23.70	6.94	BDL	....
MAIN GATE	05/01/14	193.80	32.63		9.90	17.90	19.44	....	BDL
MAIN GATE	07/01/14	163.00	70.83	45.20	29.36	26.04	6.02	BDL	....
MAIN GATE	09/01/14	157.75	55.78		29.17	10.42	24.06	....	BDL
MAIN GATE	11/01/14	186.98	37.32		19.75	6.44	5.72	BDL	....
MAIN GATE	13/01/14	134.00	69.27		18.16	12.88	6.86	....	BDL
MAIN GATE	15/01/14	146.00	31.60	38.80	18.16	16.10	18.14	BDL	....
MAIN GATE	17/01/14	179.86	56.08		18.20	11.27	6.86	....	BDL
MAIN GATE	19/01/14	198.00	47.22		26.42	13.90	11.11	BDL	....
MAIN GATE	21/01/14	149.65	56.94		14.86	4.43	6.48	....	BDL
MAIN GATE	23/01/14	198.00	48.95	26.20	13.10	16.40	15.28	BDL	....
MAIN GATE	25/01/14	179.16	48.96		18.16	10.10	9.72	....	BDL
MAIN GATE	27/01/14	166.66	49.48		30.00	20.12	50.92	BDL	....
MAIN GATE	29/01/14	169.79	74.65		27.24	22.55	22.86	....	BDL
MAIN GATE	31/01/14	152.43	47.92	25.40	13.20	8.86	9.15	BDL	....
	Maximum	198	75	45	33	26	51	0	0
	Minimum	134	32	25	10	4	6	0	0
	Average JAN-14	170	54	36	21	14	15	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LTD. UNIT-2.  
 AMBIENT AIR ANALYSIS REPORT

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Q.A. DEPT.

MONTH FEBRUARY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	02/02/14	159.20	59.89	28.52	17.71	19.43	....	BDL
SCRAP YARD	04/02/14	158.16	53.82	29.62	18.12	17.15	BDL	....
SCRAP YARD	06/02/14	156.77	53.47	27.15	18.12	10.15	....	BDL
SCRAP YARD	08/02/14	147.92	40.97	37.40	20.50	22.21	BDL	....
SCRAP YARD	10/02/14	140.28	54.86	23.03	20.86	58.31	....	BDL

SCRAP YARD	12/02/14	173.95	69.80	42.84	23.10	16.67	BDL	....
SCRAP YARD	14/02/14	153.12	64.58	19.90	14.50	16.84	....	BDL
SCRAP YARD	16/02/14	174.13	70.13	20.57	12.08	8.60	BDL	....
SCRAP YARD	18/02/14	156.77	65.62	23.03	12.08	9.15	....	BDL
SCRAP YARD	20/02/14	208.68	49.30	22.30	14.10	14.30	BDL	....
SCRAP YARD	22/02/14	160.94	50.00	27.24	18.52	14.30	....	BDL
SCRAP YARD	24/02/14	179.86	44.44	23.86	20.94	13.15	BDL	....
SCRAP YARD	26/02/14	185.00	71.70	24.68	24.16	17.15	....	BDL
SCRAP YARD	28/02/14	179.51	60.07	25.51	22.15	12.58	BDL	....
	Maximum	209	72	43	24	58	0	0
	Minimum	140	41	20	12	9	0	0
	Average FEB-14	167	58	27	18	18	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LTD. UNIT-2.  
 AMBIENT AIR ANALYSIS REPORT

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Q.A. DEPT.

MONTH FEBRUARY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	02/02/14	153.65	51.39	20.70	15.30	77.75	....	BDL
ETP AREA	04/02/14	152.60	49.48	24.68	16.11	57.17	BDL	....
ETP AREA	06/02/14	153.47	49.13	24.70	16.11	50.20	....	BDL
ETP AREA	08/02/14	157.81	40.45	39.00	15.70	77.78	BDL	....
ETP AREA	10/02/14	140.28	54.86	23.03	20.86	58.31	....	BDL
ETP AREA	12/02/14	164.00	68.40	36.08	21.01	77.78	BDL	....
ETP AREA	14/02/14	205.20	85.41	23.03	20.86	58.31	....	BDL
ETP AREA	16/02/14	175.00	48.96	24.68	16.91	73.48	BDL	....
ETP AREA	18/02/14	195.00	66.32	26.35	18.94	71.46	....	BDL
ETP AREA	20/02/14	169.79	61.80	29.72	21.74	57.20	BDL	....
ETP AREA	22/02/14	156.77	84.02	34.67	18.52	57.74	....	BDL
ETP AREA	24/02/14	174.65	45.66	21.39	20.02	57.17	BDL	....
ETP AREA	26/02/14	171.70	53.12	23.04	23.35	85.75	....	BDL
ETP AREA	28/02/14	177.80	54.51	21.39	20.94	70.32	BDL	....
	Maximum	205	85	39	23	86	0	0
	Minimum	140	40	21	15	50	0	0
	Average FEB-14	168	58	27	19	66	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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## UPL LTD. UNIT-2.

## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH FEBRUARY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	02/02/14	156.42	49.30	42.60	14.81	12.48	6.28	....	BDL
MAIN GATE	04/02/14	154.34	48.26		20.57	11.68	11.43	BDL	....
MAIN GATE	06/02/14	154.51	50.86		20.57	12.08	14.29	....	BDL
MAIN GATE	08/02/14	156.60	67.53	40.20	19.90	14.10	4.00	BDL	....
MAIN GATE	10/02/14	140.28	54.86		23.03	20.86	58.31	....	BDL
MAIN GATE	12/02/14	124.82	52.25		17.22	20.12	10.42	BDL	....
MAIN GATE	14/02/14	136.11	88.20		13.16	19.37	21.52	....	BDL
MAIN GATE	16/02/14	153.64	64.93	32.60	18.90	11.27	4.60	BDL	....
MAIN GATE	18/02/14	236.44	70.83		18.10	11.27	4.60	....	BDL
MAIN GATE	20/02/14	186.98	61.11		19.81	16.91	17.15	BDL	....
MAIN GATE	22/02/14	191.42	63.72		17.33	8.86	8.00	....	BDL
MAIN GATE	24/02/14	159.54	64.93	35.80	19.75	18.12	11.43	BDL	....
MAIN GATE	26/02/14	190.28	49.65		20.57	22.15	14.29	....	BDL
MAIN GATE	28/02/14	156.77	63.54		16.46	16.51	8.00	BDL	....
	Maximum	236.44	88.20	42.60	23.03	22.15	58.31	0	0
	Minimum	124.82	48.26	32.60	13.16	8.86	4.00	0	0
	Average FEB-14	164	61	38	19	15	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## UPL LIMITED. UNIT-2

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## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	02/03/14	178.30	59.02	21.23	16.40	14.81	....	BDL
SCRAP YARD	04/03/14	178.82	59.72	24.76	18.25	27.27	BDL	....
SCRAP YARD	06/03/14	204.17	63.36	24.85	17.30	39.58	....	BDL
SCRAP YARD	08/03/14	195.49	59.20	23.26	14.50	5.72	BDL	....
SCRAP YARD	10/03/14	196.70	62.67	20.91	20.83	42.50	....	BDL
SCRAP YARD	12/03/14	182.98	39.93	39.20	26.60	227.10	BDL	....
SCRAP YARD	14/03/14	133.50	50.69	29.62	19.73	22.87	....	BDL
SCRAP YARD	16/03/14	172.92	61.11	23.27	18.11	17.15	BDL	....
SCRAP YARD	18/03/14	177.25	47.92	24.10	20.50	36.10	....	BDL
SCRAP YARD	20/03/14	203.82	65.10	26.77	18.88	14.30	BDL	....
SCRAP YARD	22/03/14	198.61	72.22	41.40	21.33	28.47	....	BDL
SCRAP YARD	24/03/14	176.73	62.84	24.10	20.50	8.57	BDL	....

SCRAP YARD	26/03/14	147.92	51.04	19.37	29.67	23.60	....	BDL
SCRAP YARD	28/03/14	179.68	32.08	34.07	15.65	16.60	BDL	....
SCRAP YARD	30/03/14	183.16	61.11	10.00	8.86	4.60	....	BDL
	Maximum	204	72	41	30	227	0	0
	Minimum	134	32	10	9	5	0	0
	Average MAR-14	181	57	26	19	35	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LIMITED. UNIT-2

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	02/03/14	177.43	55.72	21.60	16.50	39.58	....	BDL
ETP AREA	04/03/14	177.95	56.07	21.46	18.52	75.46	BDL	....
ETP AREA	06/03/14	210.94	78.12	29.72	17.10	176.90	....	BDL
ETP AREA	08/03/14	192.71	56.94	26.60	18.52	20.58	BDL	....
ETP AREA	10/03/14	224.48	69.27	19.88	13.14	7.40	....	BDL
ETP AREA	12/03/14	182.98	39.93	39.20	26.60	227.10	BDL	....
ETP AREA	14/03/14	167.01	70.83	24.68	15.70	70.32	....	BDL
ETP AREA	16/03/14	184.54	52.77	19.94	15.70	73.74	BDL	....
ETP AREA	18/03/14	127.95	56.08	35.80	28.40	67.40	....	BDL
ETP AREA	20/03/14	167.00	70.83	21.41	16.10	77.18	BDL	....
ETP AREA	22/03/14	256.60	67.36	39.63	23.75	20.00	....	BDL
ETP AREA	24/03/14	181.25	69.79	34.00	18.60	37.16	BDL	....
ETP AREA	26/03/14	207.29	64.93	23.42	13.41	8.33	....	BDL
ETP AREA	28/03/14	174.30	70.14	37.40	22.35	79.20	BDL	....
ETP AREA	30/03/14	202.08	71.52	31.58	19.60	118.47	....	BDL
	Maximum	257	78	40	28	227	0	0
	Minimum	128	40	20	13	7	0	0
	Average MAR-14	189	63	28	19	73	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LIMITED. UNIT-2

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	02/03/14	158.33	59.89	35.60	10.00	12.88	2.86	....	BDL
MAIN GATE	04/03/14	158.68	59.55		14.86	19.37	11.80	BDL	....
MAIN GATE	06/03/14	153.82	61.11		29.94	18.63	18.05	....	BDL
MAIN GATE	08/03/14	175.69	65.97	42.20	14.96	13.70	2.30	BDL	....
MAIN GATE	10/03/14	208.68	76.38		29.17	10.42	24.06	....	BDL
MAIN GATE	12/03/14	162.84	38.54		30.00	19.64	10.41	BDL	....
MAIN GATE	14/03/14	160.24	55.90		20.57	12.08	14.86	....	BDL
MAIN GATE	16/03/14	174.48	46.18	40.20	16.07	12.88	13.72	BDL	....
MAIN GATE	18/03/14	137.50	54.16		22.30	22.10	26.38	....	BDL

MAIN GATE	20/03/14	190.63	68.05		16.73	14.50	8.57	BDL	....
MAIN GATE	22/03/14	165.45	56.25		19.94	14.10	18.05	....	BDL
MAIN GATE	24/03/14	186.45	59.38	52.40	14.10	21.40	8.05	BDL	....
MAIN GATE	26/03/14	211.11	47.22		15.06	15.65	14.58	....	BDL
MAIN GATE	28/03/14	175.69	51.74		17.45	19.74	22.21	BDL	....
MAIN GATE	30/03/14	184.02	41.31	48.30	14.40	21.33	10.18	....	BDL
	Maximum	211	76	52	30	22	26	0	0
	Minimum	138	39	36	10	10	2	0	0
	Average MAR-14	174	56	44	19	17	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPL LIMITED. UNIT-2  
 AMBIENT AIR ANALYSIS REPORT

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Q.A. DEPT.

MONTH APRIL - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	01/04/14	220.50	79.16	19.34	6.04	14.81	BDL	....
SCRAP YARD	03/04/14	171.18	85.23	26.10	21.34	2.86	....	BDL
SCRAP YARD	05/04/14	232.11	66.14	25.26	20.13	4.00	BDL	....
SCRAP YARD	07/04/14	178.47	51.38	30.11	19.33	13.15	....	BDL
SCRAP YARD	09/04/14	196.70	66.84	21.75	18.63	8.33	BDL	....
SCRAP YARD	11/04/14	225.87	68.06	25.10	19.74	12.50	....	BDL
SCRAP YARD	13/04/14	205.90	80.21	24.10	20.50	36.10	BDL	....
SCRAP YARD	15/04/14	177.60	65.28	19.24	20.94	6.86	....	BDL
SCRAP YARD	17/04/14	177.95	55.90	19.24	16.91	8.00	BDL	....
SCRAP YARD	19/04/14	188.72	61.11	26.94	24.96	9.15	....	BDL
SCRAP YARD	21/04/14	190.27	58.68	28.63	17.90	29.86	BDL	....
SCRAP YARD	23/04/14	210.42	82.64	32.00	21.23	25.00	....	BDL
SCRAP YARD	25/04/14	199.48	63.72	21.89	11.27	25.27	BDL	....
SCRAP YARD	27/04/14	230.73	60.76	26.94	16.40	14.81	....	BDL
SCRAP YARD	29/04/14	194.62	67.01	29.47	16.40	14.81	BDL	....
	Maximum	232	85	32	25	36	0	0
	Minimum	171	51	19	6	3	0	0
	Average APR-14	200	67	25	18	15	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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## UPL LIMITED. UNIT-2

## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH APRIL - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	01/04/14	194.62	54.16	19.11	20.90	19.43	BDL	....
ETP AREA	03/04/14	188.19	66.84	32.00	18.52	14.30	....	BDL
ETP AREA	05/04/14	198.96	68.75	31.15	17.31	12.57	BDL	....
ETP AREA	07/04/14	181.94	60.76	24.26	16.51	63.46	....	BDL
ETP AREA	09/04/14	194.79	54.86	27.60	14.80	10.41	BDL	....
ETP AREA	11/04/14	225.34	59.90	15.06	14.70	9.02	....	BDL
ETP AREA	13/04/14	182.81	65.10	30.11	16.90	12.55	BDL	....
ETP AREA	15/04/14	147.92	62.84	35.13	16.91	103.50	....	BDL
ETP AREA	17/04/14	149.48	66.32	37.64	18.52	73.75	BDL	....
ETP AREA	19/04/14	182.81	64.93	30.30	16.91	37.73	....	BDL
ETP AREA	21/04/14	184.72	31.94	21.05	12.88	23.61	BDL	....
ETP AREA	23/04/14	188.90	54.51	32.00	14.56	121.77	....	BDL
ETP AREA	25/04/14	167.01	54.50	21.61	13.69	44.60	BDL	....
ETP AREA	27/04/14	188.88	51.40	21.90	10.47	94.43	....	BDL
ETP AREA	29/04/14	194.62	54.16	20.21	20.90	19.44	BDL	....
	Maximum	225	69	38	21	122	0	0
	Minimum	148	32	15	10	9	0	0
	Average APR-14	185	58	27	16	44	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## UPL LIMITED. UNIT-2

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## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH APRIL - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	01/04/14	180.20	61.11	42.50	13.30	17.88	36.11	BDL	....
MAIN GATE	03/04/14	201.04	51.39		12.63	14.50	4.57	....	BDL
MAIN GATE	05/04/14	172.92	66.84		10.95	15.30	11.65	BDL	....
MAIN GATE	07/04/14	167.53	52.43	46.50	20.91	14.10	9.15	....	BDL
MAIN GATE	09/04/14	155.90	46.52		12.55	14.16	5.55	BDL	....
MAIN GATE	11/04/14	209.37	56.08		29.28	16.76	14.58	....	BDL
MAIN GATE	13/04/14	215.97	54.68		15.00	20.13	8.60	BDL	....
MAIN GATE	15/04/14	162.85	59.72	52.40	20.92	18.11	10.30	....	BDL
MAIN GATE	17/04/14	183.51	68.58		19.74	19.33	13.15	BDL	....
MAIN GATE	19/04/14	160.42	61.11		16.84	11.27	5.72	....	BDL
MAIN GATE	21/04/14	168.40	55.90		13.47	7.25	5.56	BDL	....
MAIN GATE	23/04/14	180.90	53.47	55.40	28.63	17.90	29.86	....	BDL
MAIN GATE	25/04/14	175.00	66.84		12.38	15.30	19.43	BDL	....
MAIN GATE	27/04/14	177.95	51.39		13.47	9.66	2.86	....	BDL
MAIN GATE	29/04/14	169.80	61.11	50.40	13.47	17.88	36.11	BDL	....
	Maximum	216	69	55	29	20	36	0	0
	Minimum	156	47	43	11	7	3	0	0
	Average	179	58	49	17	15	14	0	0



APR-14								
%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPLTD. UNIT-2.  
 AMBIENT AIR ANALYSIS REPORT

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Q.A. DEPT.

MONTH MAY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	01/05/14	187.84	72.35	33.27	22.90	11.11	....	BDL
SCRAP YARD	03/05/14	208.68	69.79	29.00	12.90	46.88	BDL	....
SCRAP YARD	05/05/14	215.63	61.11	39.24	13.70	16.01	....	BDL
SCRAP YARD	07/05/14	172.91	66.84	23.88	12.90	12.57	BDL	....
SCRAP YARD	09/05/14	181.60	66.66	33.90	24.16	14.86	....	BDL
SCRAP YARD	11/05/14	210.24	71.52	27.12	16.74	26.00	BDL	....
SCRAP YARD	13/05/14	193.75	78.47	44.38	20.13	27.78	....	BDL
SCRAP YARD	15/05/14	183.33	63.88	30.94	19.57	22.21	BDL	....
SCRAP YARD	17/05/14	177.60	54.16	23.26	15.27	23.32	....	BDL
SCRAP YARD	19/05/14	192.53	56.42	23.26	15.27	23.32	BDL	....
SCRAP YARD	21/05/14	200.00	70.00	30.71	21.34	18.30	....	BDL
SCRAP YARD	23/05/14	175.69	66.32	28.15	17.31	17.15	BDL	....
SCRAP YARD	25/05/14	195.31	75.35	38.38	26.58	18.67	....	BDL
SCRAP YARD	27/05/14	174.32	70.48	31.56	21.34	12.58	BDL	....
SCRAP YARD	29/05/14	183.16	69.79	24.10	20.50	30.10	....	BDL
SCRAP YARD	31/05/14	186.11	63.19	29.68	22.14	17.15	BDL	....
	Maximum	216	78	44	27	47	0	0
	Minimum	173	54	23	13	11	0	0
	Average MAY-14	190	67	31	19	21	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MAY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	01/05/14	191.32	79.16	35.82	19.60	105.60	....	BDL
ETP AREA	03/05/14	217.36	50.00	32.41	24.10	53.74	BDL	....
ETP AREA	05/05/14	219.44	56.60	27.30	14.50	53.74	....	BDL
ETP AREA	07/05/14	200.00	68.75	39.24	14.09	24.01	BDL	....
ETP AREA	09/05/14	169.60	64.75	27.11	22.55	70.31	....	BDL
ETP AREA	11/05/14	182.81	64.93	22.03	16.91	70.30	BDL	....
ETP AREA	13/05/14	153.82	76.74	29.92	20.83	148.55	....	BDL
ETP AREA	15/05/14	203.64	48.09	51.07	21.23	55.17	BDL	....
ETP AREA	17/05/14	190.10	54.16	45.70	16.76	71.91	....	BDL
ETP AREA	19/05/14	183.33	58.68	22.03	14.28	20.58	BDL	....
ETP AREA	21/05/14	176.04	53.13	32.41	22.55	58.60	....	BDL
ETP AREA	23/05/14	162.50	68.40	25.60	13.30	89.18	BDL	....
ETP AREA	25/05/14	164.24	68.06	35.82	22.55	81.75	....	BDL
ETP AREA	27/05/14	211.11	61.12	29.85	18.52	32.01	BDL	....
ETP AREA	29/05/14	227.43	57.29	29.28	16.76	14.58	....	BDL
ETP AREA	31/05/14	180.90	57.98	27.12	18.44	94.33	BDL	....
	Maximum	227	79	51	24	149	0	0
	Minimum	154	48	22	13	15	0	0
	Average MAY-14	190	62	32	19	65	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPLTD. UNIT-2.

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## AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MAY - 2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	01/05/14	180.90	52.43	46.20	18.77	20.90	22.22	....	BDL
MAIN GATE	03/05/14	211.11	68.40		21.32	12.08	2.86	BDL	....
MAIN GATE	05/05/14	212.50	65.28		18.77	10.47	9.15	....	BDL
MAIN GATE	07/05/14	180.20	66.84	52.40	13.65	10.47	1.65	BDL	....
MAIN GATE	09/05/14	161.46	66.32		22.03	16.91	11.43	....	BDL
MAIN GATE	11/05/14	207.81	61.11		15.00	20.13	8.57	BDL	....
MAIN GATE	13/05/14	165.28	63.88		14.10	21.40	8.05	....	BDL
MAIN GATE	15/05/14	215.62	39.06	46.50	10.00	20.50	18.74	BDL	....
MAIN GATE	17/05/14	175.00	48.96		12.46	4.84	19.43	....	BDL
MAIN GATE	19/05/14	192.00	52.43		12.71	11.27	8.00	BDL	....
MAIN GATE	21/05/14	158.50	44.44		13.65	19.73	3.43	....	BDL
MAIN GATE	23/05/14	151.39	61.63	56.80	22.18	9.26	14.30	BDL	....
MAIN GATE	25/05/14	165.45	57.81		15.35	11.27	6.86	....	BDL
MAIN GATE	27/05/14	186.98	42.53		20.47	16.11	5.72	BDL	....
MAIN GATE	29/05/14	189.58	47.92		19.75	6.44	5.72	....	BDL
MAIN GATE	31/05/14	151.91	56.94	54.30	20.34	15.70	5.72	BDL	....
	Maximum	216	68	57	22	21	22	0	0

Minimum	151	39	46	10	5	2	0	0
Average MAY-14	182	56	51	17	14	9	0	0
%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

UPLTD. UNIT-2.

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JUNE -2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	01/06/13	174	82	22	20	16	.....	Nil
SCRAP YARD	03/06/13	208	67	38	24	20	Nil	.....
SCRAP YARD	05/06/13	181	69	31	22	45	.....	Nil
SCRAP YARD	07/06/13	199	69	29	30	32	Nil	.....
SCRAP YARD	09/06/13	185	68	26	14	19	.....	Nil
SCRAP YARD	11/06/13	266	73	14	23	7	Nil	.....
SCRAP YARD	13/06/14	221	78	19	6	15	.....	Nil
SCRAP YARD	15/06/14	187	85	22	21	3	Nil	.....
SCRAP YARD	17/06/14	253	72	25	20	4	.....	Nil
SCRAP YARD	19/06/14	178	51	30	19	13	Nil	.....
SCRAP YARD	21/06/14	197	67	22	19	8	.....	Nil
SCRAP YARD	23/06/14	191	68	29	16	15	Nil	.....
SCRAP YARD	25/06/14	195	63	39	19	13	.....	Nil
SCRAP YARD	27/06/14	196	45	19	13	9	Nil	.....
SCRAP YARD	29/06/14	225	39	20	16	15	.....	Nil
	Maximum	266	85	39	30	45	0	0
	Minimum	174	39	14	6	3	0	0
	Average JUNE-13	204	66	26	19	16	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JUNE -2014

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	01/06/13	237	30	56	39	19	38	.....	Nil
MAIN GATE	03/06/13	18073	32		27	17	7	Nil	.....
MAIN GATE	05/06/13	145	77		25	19	8	.....	Nil
MAIN GATE	07/06/13	188	68	52.3	13	9	6	Nil	.....
MAIN GATE	09/06/13	183	33		25	17	28	.....	Nil
MAIN GATE	11/06/13	257	84		10	17	3	Nil	.....
MAIN GATE	13/06/13	226	32		26	18	26	.....	Nil

MAIN GATE	15/06/13	264	68	41	24	19	21	Nil	.....
MAIN GATE	17/06/13	270	80		15	19	11	.....	Nil
MAIN GATE	19/06/13	219	65		18	22	19	Nil	.....
MAIN GATE	21/06/13	232	88	32	23	25	38	.....	Nil
MAIN GATE	23/06/13	243	66		25	13	19	Nil	.....
MAIN GATE	25/06/13	187	58		13	9	6	.....	Nil
MAIN GATE	27/06/13	187	58		13	9	6	Nil	.....
MAIN GATE	29/06/13	184	20	34	22	21	25	.....	Nil
	Maximum	18073	88	56	39	25	38	0	0
	Minimum	145	20	32	10	9	3	0	0
	Average JUNE-13	1406	57	43	21	17	17	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**AMBIENT AIR ANALYSIS REPORT**  
(By Enpro Enviro Tech & Engineers Pvt. Ltd)

Month	LOCATION	DATE OF SAMPLING	PM <sub>2.5</sub>	RSPM (PM <sub>10</sub> )	SO <sub>x</sub>	NO <sub>x</sub>	HCL	NH <sub>3</sub>	H <sub>2</sub> S	H.C.	CHLORINE	HF
	Limit		60 µg /m <sup>3</sup>	100 µg /m <sup>3</sup>	80 µg /m <sup>3</sup>	200 µg /m <sup>3</sup>	400 µg /m <sup>3</sup>	500 µg /m <sup>3</sup>	160 µg /m <sup>3</sup>	100 µg /m <sup>3</sup>	60 µg /m <sup>3</sup>	
Jan 14	Near Boiler area	18.01.14	42.3	88.1	28.5	32.4	46.8	24.7	BDL	BDL	BDL	BDL
Feb 14	Near Boiler area	19.02.14	38.7	83.5	26.4	30.8	43.6	21.3	BDL	BDL	BDL	BDL
Mar 14	Near Boiler area	20.03.14	34.5	79.3	22.8	26.7	40.2	18.6	BDL	BDL	BDL	BDL
Apr 14	Near Boiler area	18.04.14	41.3	85.6	29.5	33.7	48.2	25.8	BDL	BDL	BDL	BDL
May 14	Near Boiler area	23.05.14	46.7	90.1	34.6	38.8	54.3	29.7	BDL	BDL	BDL	BDL
Jun 14	Near Boiler area	23.06.14	43.8	87.5	27.2	31.9	50.6	23.7	BDL	BDL	BDL	BDL

**STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): January 2014**

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH <sub>3</sub>	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	18.01.14	BDL	BDL	BDL	19.2	BDL	11.8	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)		Plant not in operation						
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H <sub>2</sub> S VENT)	18.01.14	-	-	-	-	-	-	2.8
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER		Plant not in operation						
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER		Plant not in operation						
6	IN ACEPHATE PLANT STACK ATTACHED TO NH <sub>3</sub> SCRUBBER	18.01.14	-	-	17.1	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER		Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	18.01.14	11.6	-	-	-	-	-	-

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
9	BOILER GT-3507	18.01.14	-	-	-	14.7	BDL	BDL	-
10	BOILER GT-3201	18.01.14	-	-	-	12.3	BDL	BDL	-
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

### STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): February 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TOFUME INCINERATOR	19.02.14	BDL	BDL	BDL	15.3	BDL	8.5	-
2	IN DEVRINOL PLANT STACK ATTACHED TO( FOR FORMULATION PLANT)	Plant not in operation							
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	19.02.14	-	-	-	-	-	-	4.3
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER	Plant not in operation							
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER	Plant not in operation							
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	19.02.14	-	-	19.3	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER	Plant not in operation							
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	19.02.14	9.8	-	-	-	-	-	-
9	BOILER GT-3507	19.02.14	-	-	-	11.5	BDL	BDL	
10	BOILER GT-3201	19.02.14	-	-	-	9.8	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

### STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): March 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TOFUME INCINERATOR	20.03.14	BDL	BDL	BDL	18.6	BDL	9.2	
2	IN DEVRINOL PLANT STACK ATTACHED TO( FOR FORMULATION PLANT)	Plant not in operation							

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H <sub>2</sub> S VENT)	20.03.14	-	-	-	-	-	-	3.6
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER	Plant not in operation							
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER	Plant not in operation							
6	IN ACEPHATE PLANT STACK ATTACHED TONH <sub>3</sub> SCRUBBER	20.03.14	-	-	17.9	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER	Plant not in operation							
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	20.03.14	13.1	-	-	-	-	-	-
9	BOILER GT-3507	20.03.14	-	-	-	13.7	BDL	BDL	-
10	BOILER GT-3201	20.03.14	-	-	-	11.2	BDL	BDL	-
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

### STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): April 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TOFUME INCINERATOR	18.04.14	BDL	BDL	BDL	14.3	BDL	6.5	
2	IN DEVRINOL PLANT STACK ATTACHED TO( FOR FORMULATION PLANT)	Plant not in operation							
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H <sub>2</sub> S VENT)	18.04.14	-	-	-	-	-	-	2.3
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER	Plant not in operation							
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER	Plant not in operation							
6	IN ACEPHATE PLANT STACK ATTACHED TONH <sub>3</sub> SCRUBBER	18.04.14	-	-	15.6	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER	Plant not in operation							
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	18.04.14	10.7	-	-	-	-	-	-
9	BOILER GT-3507	18.04.14	-	-	-	10.2	BDL	BDL	
10	BOILER GT-3201	18.04.14	-	-	-	8.9	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

**STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): May 2014**

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	23.05.14	BDL	BDL	BDL	16.5	BDL	8.6	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	Plant not in operation.							
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H <sub>2</sub> S VENT)	23.05.14	-	-	-	-	-	-	4.2
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	Plant not in operation							
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	-	-	-	-	-	-	-	-
6	IN ACEPHATE PLANT STACK ATTACHED TO NH <sub>3</sub> SCRUBBER	23.05.14	-	-	20.1	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	Plant not in operation							
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	23.05.14	12.1	-	-	-	-	-	-
9	BOILER GT-3507	23.05.14	-	-	-	13.5	BDL	BDL	-
10	BOILER GT-3201	23.05.14	-	-	-	10.7	BDL	BDL	-
11	IN INCINERATOR PLANT STACK ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

**STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): June 2014**

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	23.06.14	BDL	BDL	BDL	18.3	BDL	10.8	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	Plant not in operation							
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H <sub>2</sub> S VENT)	23.06.14	-	-	-	-	-	-	3.4
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	Plant not in operation							
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	Plant not in operation							
6	IN ACEPHATE PLANT STACK ATTACHED TO NH <sub>3</sub> SCRUBBER	23.06.14	-	-	16.1	-	-	-	-
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	Plant not in operation							
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	23.06.14	15.8	-	-	-	-	-	-
9	BOILER GT-3507	23.06.14	-	-	-	15.7	BDL	BDL	-
10	BOILER GT-3201	23.06.14	-	-	-	13.2	BDL	BDL	-

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO <sub>x</sub>	SPM	SO <sub>2</sub>	H <sub>2</sub> S
			20 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>	30 mg/Nm <sup>3</sup>	50 mg/Nm <sup>3</sup>	20 mg/Nm <sup>3</sup>	40 mg/Nm <sup>3</sup>	5.0 mg/Nm <sup>3</sup>
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							



# STACK MONITORING REPORT (By Our Internal Lab)

UPL LTD. UNIT-2.  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH JANUARY – 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/01/14	BDL	BDL	BDL	8.8	11.1	31.2	BDL
		20/01/14	BDL	BDL	BDL	7.5	10.3	32.3	BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO ( FOR FORMULATION PLANT)	05/01/14					Plant not in operation		
		20/01/14					Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER ( H2S VENT)	05/01/14							1.0
		20/01/14							1.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/01/14							1.0
		20/01/14							2.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/01/14							BDL
		20/01/14							BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/01/14			12.0				
		20/01/14			18.0				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/01/14	Plant not in operation						
		20/01/14	Plant not in operation						

8	IN DEVRINOL PLANT STACK	05/01/14	1.0						
	ATTACHED TO CPC SCRUBBER	20/01/14	3.0						

UPL LTD. UNIT-2.  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH FEB -2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK	05/02/14	BDL	BDL	BDL	11.3	10.3	24.3	BDL
	ATTACHED TO FUME INCINERATOR	20/02/14	BDL	BDL	BDL	16.2	5.6	28.4	BDL
2	IN DEVRINOL PLANT STACK	05/02/14					Plant not in operation		
	ATTACHED TO (FOR FORMULATION PLANT)	20/02/14	-	-	-	-	Plant not in operation		
3	IN PHORATE PLANT STACK	05/02/14	-	-	-	-	-	-	4.0
	ATTACHED TO ALKALI SCRUBBER ( H2S VENT)	20/02/14	-	-	-	-	-	-	3.0
4	IN PHORATE PLANT STACK	05/02/14	-	-	-	-	-	-	1.0
	ATTACHED TO P2S5 CHARGING HOOPER	20/02/14	-	-	-	-	-	-	1.0
5	IN PHORATE PLANT STACK	05/02/14	-	-	-	-	-	-	BDL
	ATTACHED TO LOCAL VENT CARBON FILTER	20/02/14	-	-	-	-	-	-	BDL
6	IN ACEPHATE PLANT STACK	05/02/14	-	-	12.0	-	-	-	-
	ATTACHED TO NH3 SCRUBBER	20/02/14	-	-	20.0	-	-	-	-

7	IN POSHPOMIDON PLANT STACK ATTACHED TO	05/02/14	Plant not in operation	-	-	-	-	-	-
	WATER SCRUBBER	20/02/14	Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO	05/02/14	5.0	-	-	-	-	-	-
	CPC SCRUBBER	20/02/14	3.0						

UPL LIMITED. UNIT-2  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH MARCH - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/03/14	BDL	BDL	BDL	3.3	6.5	31.2	BDL
		20/03/14	BDL	BDL	BDL	6.7	7.4	32.5	BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO ( FOR FORMULATION PLANT)	05/03/14					Plant not in operation		
		20/03/14					Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER ( H2S VENT)	05/03/14							1.0
		20/03/14							2.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/03/14							1.0
		20/03/14							1.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/03/14							BDL
		20/03/14							BDL

6	IN ACEPHATE PLANT STACK	05/03/14			12.0				
	ATTACHED TO NH3 SCRUBBER	20/03/14			6.0				
7	IN POSHPOMIDON PLANT STACK	05/03/14	Plant not in operation						
	ATTACHED TO WATER SCRUBBER	20/03/14	Plant not in operation						
8	IN DEVRINOL PLANT STACK	05/03/14	4.0						
	ATTACHED TO CPC SCRUBBER	20/03/14	3.0						

UPL LIMITED. UNIT-2  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH APRIL - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK	05/04/14	BDL	BDL	BDL	2.1	8.4	32.6	BDL
	ATTACHED TO FUME INCINERATOR	20/04/14	BDL	BDL	BDL	2.3	10.2	30.4	BDL
2	IN DEVRINOL PLANT STACK	05/04/14					Plant not in operation		
	ATTACHED TO ( FOR FORMULATION PLANT)	20/04/14					Plant not in operation		
3	IN PHORATE PLANT STACK	05/04/14							2.0
	ATTACHED TO ALKALI SCRUBBER ( H2S VENT)	20/04/14							1.0
4	IN PHORATE PLANT STACK	05/04/14							3.0
	ATTACHED TO P2S5 CHARGING HOOPER	20/04/14							2.0



4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/05/14							1.0
		20/05/14							2.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/05/14							BDL
		20/05/14							BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/05/14			8.0				
		20/05/14			6.0				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/05/14	Plant not in operation						
		20/05/14	Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/05/14	3.0						
		20/05/14	2.0						

UPL LIMITED. UNIT-2.  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH JUNE -2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/06/13	NIL	NIL	NIL	1.0	11	28.9	NIL
		20/06/13	NIL	NIL	NIL	4.4	11	31.2	NIL
2	IN DEVRINOL PLANT STACK ATTACHED TO ( FOR FORMULATION PLANT)	05/06/13					Plant not in operation		
		20/06/13					Plant not in operation		
	IN PHORATE PLANT STACK	05/06/13							2

3	ATTACHED TO ALKALI SCRUBBER ( H2S VENT)	20/06/13							1
4	IN PHORATE PLANT STACK	05/06/13							2
	ATTACHED TO P2S5 CHARGING HOOPER	20/06/13							2
5	IN PHORATE PLANT STACK	05/06/13							NIL
	ATTACHED TO LOCAL VENT CARBON FILTER	20/06/13							NIL
6	IN ACEPHATE PLANT STACK	05/06/13			6				
	ATTACHED TO NH3 SCRUBBER	20/06/13			8				
7	IN POSHPOMIDON PLANT STACK	05/06/13	Plant not in operation						
	ATTACHED TO WATER SCRUBBER	20/06/13	Plant not in operation						
8	IN DEVRINOL PLANT STACK	05/06/13	Plant not in operation						
	ATTACHED TO CPC SCRUBBER	20/06/13	Plant not in operation						

### STACK MONITORING REPORT (By Our Internal Lab)

UPL LIMITED. UNIT-2.

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STACK MONITORING REPORT

Q.A. DEPT.

MONTH JANUARY - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 mg/Nm3	NOX 50 mg/Nm3
1	STACK ATTACHED TO BOILER GT-3507	04/01/14	23.3	7.0	3.7
		15/01/14	18.4	7.2	2.2
2	STACK ATTACHED TO BOILER GT-3201	10/01/14	Plant not in operation		
		28/01/14	22.4	5.5	3.4

3	STACK ATTACHED TO DG -1	15/01/14	39.8	16.8	7.8
	DG - 2	28/01/14	23.5	14.1	2.7
4	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.			

UPL LIMITED. UNIT-2. F/QA/216  
 STACK MONITORING REPORT  
 Q.A. DEPT. MONTH FEB -2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLIN G	SPM	SO2	NOX
			150 mg/Nm3	100 mg/Nm3	50 mg/Nm3
1	STACK ATTACHED TO BOILER GT-3507	04/02/14	22.1	8.0	3.4
		20/02/14	10.6	6.2	12.4
2	STACK ATTACHED TO BOILER GT-3201	10/02/14	7.5	5.0	11.2
		24/02/14	14.1	7.2	11.0
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.			

UPL LIMITED. UNIT-2 F/QA/216  
 STACK MONITORING REPORT  
 Q.A. DEPT. MONTH MARCH - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLIN G	SPM	SO2	NOX
			150 mg/Nm3	100 mg/Nm3	50 mg/Nm3
1	STACK ATTACHED TO BOILER GT-3507	04/03/14	14.0	6.6	0.9
		14/03/14	11.4	7.0	2.2
2	STACK ATTACHED TO BOILER GT-3201	10/03/14	18.4	6.3	1.4
		28/03/14	12.3	4.6	1.0



3	ATTACHED TO  AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-  When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.
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UPL LIMITED. UNIT-2  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH APRIL - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 mg/Nm3	NOX 50 mg/Nm3
1	STACK ATTACHED TO BOILER GT-3507	04/04/14	18.4	6.4	0.5
		18/04/14	6.6	5.7	0.8
2	STACK ATTACHED TO BOILER GT-3201	10/04/14	Plant not in operation		
		25/04/14	Plant not in operation		
3	STACK ATTACHED TO DG - 1  DG - 2	15/04/14	14.1	12.6	0.7
		25/04/14	12.5	11.0	0.5
4	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-  When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.			

UPL LIMITED. UNIT-2.  
STACK MONITORING REPORT

F/QA/216

Q.A. DEPT.

MONTH MAY - 2014

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 mg/Nm3	NOX 50 mg/Nm3
1	STACK ATTACHED TO BOILER GT-3507	05/05/14	24.6	11.6	1.5
		26/05/14	14.0	9.0	1.0
2	STACK ATTACHED TO BOILER GT-3201	12/05/14	Plant not in operation		

		28/05/14	Plant not in operation		
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-	When AQ& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		

## NOISE MONITORING REPORTS BY OUR INTERNAL LABORATORY

: NOISE MONITORING

IDENTIFICATION : PLANT AREA,  
UPL-2

DATE OF ANALYSIS : 05.01.14 20.01.14 05.02.14 20.02.14

### RESULTS OF ANALYSIS

LOCATION	RESULTS							
DATE ==>	5/1/13		20/01/14		5/2/14		20/02/14	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	44.8	43.3	45.3	43.8	45.2	42.8	45.6	43.4
Near Tank Farm Area	50.3	49.5	52.2	51.8	48.8	48.5	49.2	48.8
B/H Alcohol Plant	45.6	41.2	46.0	45.2	42.8	42.5	43.6	43.4
Between DMMP & Boiler	62.2	62.2	68.3	68	63.2	63	62.8	62.6
Between ETP / Incinerator	63.8	62.1	58.6	58.4	64.2	64.2	64.6	64.5
B/H Acephate Plant	66.8	66.2	67.4	67.2	66.4	66.2	66.2	66.2
Near Canteen	55.4	54.6	56.4	56.2	55.8	55.2	56.6	55.8
B/H Evaporation Pond Towards road side	61.2	58.2	64.3	64.2	62.4	62.0	63.2	63.1
DG Room Outside (1 Meter distance in ambient )	69.8	69.7	69.5	69.5	69.3	69.2	69.6	69.5
Inside Boiler House	67.3	67.3	67.6	67.5	67.8	67.8	68.1	68
Near Phorate Fume Incinerator	56.8	56.6	55.4	55.2	56.6	56.5	56.8	56.6
Phorate utility (kc-12)	67.8	67.5	68.2	68.1	69.2	69.1	69.0	69.0
Acephate utility (kc-12)	69.5	69.5	69.8	69.7	69.6	69.6	69.8	69.0
Mecl utility (kc-93)	70	69.8	70.0	70.0	70	70.0	70.0	70.0

: NOISE MONITORING

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05.03.14 20.03.14 05.04.14 20.04.14

### RESULTS OF ANALYSIS

LOCATION	RESULTS							
DATE ==>	5/3/14		20/03/14		5/4/14		20/04/14	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	46.8	45.1	42.8	41.3	46.4	43.8	45.6	45.2
Near Tank Farm Area	49.6	48.8	45.5	45.0	38.4	38	58.8	58.2
B/H Alcohol Plant	44.3	44.0	44.7	44.2	45.8	44.2	50.6	50.4
Between DMMP & Boiler	65.5	65.2	63.2	63.1	67.1	66.5	67.8	67.6

Between ETP / Incinerator	62.2	62.1	61.2	60.6	62.4	61.8	65.6	65.4
B/H Acephate Plant	67.8	67.4	67.2	67.1	67.4	67.2	72.3	70.0
Near Canteen	56.2	55.8	57.5	57.2	56.4	55.8	49.4	49.0
B/H Evaporation Pond Towards road side	66.3	60.1	65.6	65.4	58.9	58.5	59.2	58.1
DG Room Outside (1 Meter distance in ambient )	69.8	69.8	69.6	69.8	69.8	69.6	70.3	70.0
Inside Boiler House	68.5	68.5	67.5	67.4	67.5	67.4	68.3	68.1
Near Phorate Fume Incinerator	56.9	56.8	57.2	57	56.9	56.8	59.4	59.2
Phorate utility (kc-12)	69.5	69.6	69.8	69.4	69.5	69.4	70.1	70.0
Acephate utility (kc-12)	70	70	69.9	69.5	69.8	69.8	70.3	70.0
Mecl utility (kc-93)	69.8	69.8	69.5	69.5	69.8	69.5	66.4	66.2

: NOISE MONITORING

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05.05.14 20.05.14 05.06.14 20.06.14

RESULTS OF ANALYSIS

LOCATION	RESULTS							
DATE ==>	5/5/14		20/05/14		5/6/13		20/06/14	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	42.6	41.8	43.8	43	43.8	43.5	42.8	42.5
Near Tank Farm Area	39.4	38.6	40.2	39.8	53.1	52.6	52.8	52.5
B/H Alcohol Plant	40.4	40.2	41.2	41	58.6	58.4	59.0	58.8
Between DMMP & Boiler	60.4	59.4	65.8	65.4	57.1	56.8	56.2	56
Between ETP / Incinerator	60	59.5	62.4	61.2	64.8	64.6	63.8	63.7
B/H Acephate Plant	67.8	67.2	68.4	68.2	62.2	62	63.5	63
Near Canteen	54.8	53.8	55.4	53.4	53.5	53.4	54	52.4
B/H Evaporation Pond Towards road side	59.4	59.0	60.3	60.1	52.6	52.5	53.2	53.1
DG Room Outside (1 Meter distance in ambient )	69.9	69.8	70	70	69.2	69.2	69.5	69.5
Inside Boiler House	68	67.8	68.2	68.1	66.8	66.8	68.8	68.6
Near Phorate Fume Incinerator	58.6	58.5	59.4	59.3	57.8	57.8	58.4	58.2
Phorate utility (kc-12)	70	69.8	69.5	69.5	62.7	62.5	63.9	63.8
Acephate utility (kc-12)	70.2	70	70	69.8	69.4	69.4	69.2	69.2
Mecl utility (kc-93)	70.5	69.9	70.2	69.8	69.6	69.5	69	69.0

**Toxicity factor monitoring details for ETP out let water**  
**Carried out with carbon bed outlet sample (05 Fish)**

: TOXICITY FACTOR

Jan 14

IDENTIFICATION : EFFLUENT DISCHARGE WATER

**RESULTS OF ANALYSIS**

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LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
01/01/14	8.0	65	20	1890	1	ZIBRA
04/01/14	7.8	69	18	2020	1	ZIBRA
07/01/14	7.6	84	22	2080	1	ZIBRA
10/01/14	7.5	99	26	2000	2	ZIBRA
13/01/14	7.4	95	24	1900	2	ZIBRA
16/01/14	7.3	86	26	1670	1	ZIBRA
19/01/14	7.1	95	28	1880	2	ZIBRA
22/01/14	7.5	86	24	2080	1	ZIBRA
25/01/14	7.1	90	28	1700	1	ZIBRA
28/01/14	7.3	90	28	1910	1	ZIBRA
31/01/14	7.5	94	26	2040	1	ZIBRA

**: TOXICITY FACTOR**

**Feb 14**

**IDENTIFICATION : EFFLUENT DISCHARGE WATER**

**RESULTS OF ANALYSIS**

<b>LOCATION</b>		<b>RESULTS</b>				
<b>DATE</b>	<b>pH</b>	<b>COD</b>	<b>BOD</b>	<b>TDS</b>	<b>TOXICITY FACTOR</b>	<b>TYPE OF FISH</b>
03/02/14	7.6	86	24	2040	1	ZIBRA
06/02/14	7.5	94	28	2060	2	ZIBRA
09/02/14	7.3	98	26	2000	2	ZIBRA
12/02/14	7.9	94	28	2080	2	ZIBRA
15/02/14	7.7	90	28	2000	1	ZIBRA
18/02/14	7.8	94	28	2060	2	ZIBRA
21/02/14	7.8	95	28	2000	2	ZIBRA
24/02/14	8.1	77	22	2090	1	ZIBRA
27/02/14	8.1	82	22	2090	1	ZIBRA

**: TOXICITY FACTOR**

**Mar 14**

**IDENTIFICATION : EFFLUENT DISCHARGE WATER**

**RESULTS OF ANALYSIS**

<b>LOCATION</b>		<b>RESULTS</b>				
<b>DATE</b>	<b>pH</b>	<b>COD</b>	<b>BOD</b>	<b>TDS</b>	<b>TOXICITY FACTOR</b>	<b>TYPE OF FISH</b>
02/03/14	8.0	82	22	2080	1	ZIBRA
05/03/14	8.0	90	24	2080	1	ZIBRA
08/03/14	7.8	94	28	2100	1	ZIBRA
11/03/14	8.1	82	26	2100	2	ZIBRA
14/03/14	7.5	98	30	2100	2	ZIBRA
17/03/14	7.5	90	26	2100	1	ZIBRA
20/03/14	7.2	86	26	2090	1	ZIBRA
23/03/14	7.4	82	24	2100	1	ZIBRA
26/03/14	7.7	82	24	2080	1	ZIBRA
29/03/14	7.7	82	24	2080	1	ZIBRA

**: TOXICITY FACTOR**

**Apr 14**

**IDENTIFICATION : EFFLUENT DISCHARGE WATER**

**RESULTS OF ANALYSIS**

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<b>LOCATION</b>	<b>RESULTS</b>					
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<b>DATE</b>	<b>pH</b>	<b>COD</b>	<b>BOD</b>	<b>TDS</b>	<b>TOXICITY FACTOR</b>	<b>TYPE OF FISH</b>
01/04/14	7.8	90	26	2080	1	ZIBRA
04/04/14	7.9	98	28	2080	2	ZIBRA
07/04/14	7.9	86	28	2100	1	ZIBRA
10/04/14	8.0	95	26	2100	2	ZIBRA
13/04/14	7.8	99	30	2100	2	ZIBRA
16/04/14	7.6	95	28	2100	2	ZIBRA
19/04/14	7.4	91	28	2090	1	ZIBRA
22/04/14	7.5	96	28	2100	2	ZIBRA



25/04/14	7.6	90	26	2080	1	ZIBRA
28/04/14	7.5	95	26	2080	2	ZIBRA

**FUGITIVE EMISSIONS DATA  
(By Our Internal Lab)**

: FUGITIVE EMISSION

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05.01.2014 20.01.2014 05.02.2014 20.02.2014

**RESULTS OF ANALYSIS**

Sr. No	TESTS	PARAMETER	RESULTS			
			05.01.2014	20.01.2014	05.02.2014	20.02.2014
1)	P D PLANT	CL2 ppm	BDL	BDL	BDL	BDL
2)	PHORATE PLANT	EM ppm	06 ppb	12 ppb	08 ppb	NIL
3)	PHORATE PLANT	H2S ppm	12 ppb	08 ppb	14 ppb	22 ppb
4)	ACEPHATE PLANT	NH3 ppm	BDL	BDL	1.0	1.0

: FUGITIVE EMISSION

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05.03.2014 20.03.2014 05.04.2014 20.04.2014

**RESULTS OF ANALYSIS**

Sr. No	TESTS	PARAMETER	RESULTS			
			05.03.2014	20.03.2014	05.04.2014	20.04.2014
1)	P D PLANT	CL2 ppm	BDL	BDL	BDL	BDL
2)	PHORATE PLANT	EM ppm	04 ppb	07 ppb	08 ppb	19 ppb
3)	PHORATE PLANT	H2S ppm	20 ppb	12 ppb	14 ppb	22 ppb
4)	ACEPHATE PLANT	NH3 ppm	88 ppb	102 ppb	95 ppb	78 ppb

: FUGITIVE EMISSION

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05.05.2014 20.05.2014 05.06.2014 20.06.2014

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER	RESULTS			
			05.05.2014	20.05.2014	05.06.2014	20.06.2014
1)	P D PLANT	CL2 ppm	BDL	BDL	BDL	BDL
2)	PHORATE PLANT	EM ppm	19 ppb	16 ppb	08 ppb	19 ppb
3)	PHORATE PLANT	H2S ppm	26 ppb	34 ppb	14 ppb	22 ppb
4)	ACEPHATE PLANT	NH3 ppm	124 ppb	92 ppb	118 ppb	112 ppb

**Monitoring of VOC & Other Pollutants  
(By Our Internal Lab):  
(All Concentration in ppm)**

Monitoring of VOC & other pollutants : Jan -2014 to JUNE -2014

Concentration in ppb / ppm														
Date	Plant	Location - Floor	EA	TOLUENE	MDC	TERBOFOS	PHORATE	ACEPHATE	PD	EM	TBM	DEVRIINOL	TMP	EDC
06.01.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	03 ppb	BDL	-	BDL	-
07.01.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	05 ppb	BDL	-	BDL	-
08.01.13	Devrinol	First	BDL	54 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.01.13	Devrinol	Second	BDL	34 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.01.13	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	16 ppb
11.01.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	20 ppb
12.01.13	Acephate	Ground	84 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.01.13	Acephate	First	46 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL

**Monitoring of VOC & other pollutants : Jan -2014 to JUNE -2014**

Concentration in ppb / ppm														
Date	Plant	Location - Floor	EA	TOLUENE	MDC	TERBOFOS	PHORATE	ACEPHATE	PD	EM	TBM	DEVRIKOL	TMP	EDC
06.02.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	10 ppb	BDL	-	BDL	-
07.02.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	08 ppb	BDL	-	BDL	-
08.02.13	Devrinol	Second	BDL	25 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.02.13	Devrinol	First	BDL	18 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.02.13	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	18 ppb
11.02.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	14 ppb
12.02.13	Acephate	First	102 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.02.13	Acephate	Second	28 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.03.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	24 ppb	BDL	-	BDL	-
07.03.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	16 ppb	BDL	-	BDL	-
09.03.13	Devrinol	First	BDL	12 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.03.13	Devrinol	Second	BDL	24 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
11.03.13	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	34 ppb
12.03.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	22 ppb
14.03.13	Acephate	First	62 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
15.03.13	Acephate	Ground	88 ppb	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
06.04.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	08 ppb	BDL	-	BDL	-
07.04.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	06 ppb	BDL	-	BDL	-
08.04.13	Devrinol	Second	BDL	06 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.04.13	Devrinol	First	BDL	16 bppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.04.13	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	16 ppb
11.04.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	14 ppb
15.04.13	Acephate	Second	36 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL

**Monitoring of VOC & other pollutants : Jan -2014 to JUNE -2014**

Concentration in ppb / ppm														
Date	Plant	Location - Floor	EA	TOLUENE	MDC	TERBOFOS	PHORATE	ACEPHATE	PD	EM	TBM	DEVRIKOL	TMP	EDC
16.04.13	Acephate	First	72 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
04.05.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	06 ppb	BDL	-	BDL	-
07.05.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	4 ppb	BDL	-	BDL	-
08.05.13	Devrinol	Ground	BDL	16 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.05.13	Devrinol	Second	BDL	34 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
12.05.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	36 ppb
13.05.13	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	52 ppb
14.05.13	Acephate	First	45 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.05.13	Acephate	Second	18 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
05.06.13	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	04 ppb	BDL	-	BDL	-
07.06.13	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	02 ppb	BDL	-	BDL	-
09.06.13	Devrinol	First	BDL	2 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.06.13	Devrinol	Second	BDL	06 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
12.06.13	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	26 ppb
14.06.13	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	46 ppb
15.06.13	Acephate	Ground	26 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.06.13	Acephate	First	56 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL

## Annexure – 1

Annexure – A

Proposed products –Project implementation status

Proposed products –Project implementation status

Sr No	Product Name	Existing qty – MT/M	Additional –MT/M	Total After Expansion – MT/M	New expansion Project Implementation status	In existing plant/ New additional Plant
01	Devrinol OR Metabromuron	140 OR 30	160 OR NIL	300 OR 30	Deverinol expansion from 140 to 300 MT/M -project implemented and ready for trial production	Project implemented in the existing Deverinol plant
02	Terbuphos / Phorate (combined capacity)	200	300	500	Terbuphos / Phorate expansion from 200 to 500 MT/M -project implemented and ready for trial production	Project implemented in the existing Terbuphos / Phorate plant
03	Acephate OR Metamitron	160 OR 60	840 OR NIL	1,000 OR 60	Acephate expansion from 160 to 1000 MT/M -project implemented and ready for trial production	Project implemented in the existing Acephate plant
06	Monocrotophos	NIL	100	100	Addition of new product Monocrotophos 100 MT/M - project implemented and ready for trial production	Project implemented in the existing Phosphamidon plant
07	Acetamiprid OR Imidachloprid	NIL	100 OR 50	100 OR 50	Implemented	The product will be manufactured in the existing Plant. Once the product is stabilized, we may set up new plant
08	Metribuzin	NIL	50	50	Implemented	The product can be manufactured in the existing Plant. Once the product is stabilized, we may set up new plant
<b>OTHER PRODUCTS (INTERMEDIATE CHEMICALS)</b>						
01	Di Ethyl Thio Phosphoric Acid (DETA) / Zinc Di Thio Phosphate (ZnDTP)	500	500	1,000	DETA/ZnDTP expansion from 500 to 1000 MT/M -project implemented and ready for trial production	Project implemented in the existing DETA/ZnDTP plant
02	Noflan	0	8	8	Not implemented	--

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