



August 11, 2016

Unit # 02

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

The Director
Ministry of Environment, Forests & Climate Change
Western Region Office
Kendriya Paryavaran Bhavan
Link Road # 3
E-5, Ravi Shankar Nagar
Bhopal - 462 016
Madhya Pradesh

BY RPAD

Dear Sir;

Sub :- Half yearly Compliance Report to conditions of Environmental Clearance - January to June 2016

Ref :- (1) Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003; and
(2) Environmental Clearance # J.11011/1281/2007-IA(II) dated 15.04.2008

Kindly refer above Environmental Clearance granted to our Unit # 02 located at Plot # 3405 / 3406 / 3460-A, GIDC, Ankleshwar - 393 002, Dist - Bharuch, Gujarat.

We are forwarding herewith the compliance report along with various other required details with respect to our Unit # 02 for your kind reference and records. The details submitted are for the period January to June 2016.

We have got included the products as per EC in the CC&A # AWH-65674 dated 11.05.2015 from Gujarat Pollution Control Board. Copy of the CC&A is attached herewith. We would like to bring to your kind attention that all Environmental Management Systems proposed in Environment Clearance / Consent To Establish have been implemented. Our proposed project works are completed and status is enclosed in Annexure # I.

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
- 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 100 KLD and hence, our ETP is kept stand-by
- We have installed effluent recycling system consisting of RO Plant and Evaporation System. Now, our Unit is operating as Zero Discharge Unit
- Unit has installed CCTV Camera and magnetic flow meter at ETP outlet line

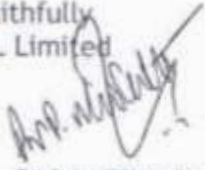
Received
Gujarat Pollution Control Board
90, Ankleshwar
16/8/16

We also annex Certificate of Incorporation # L24219GJ1985PLC025132 dated 11.10.2013 issued by Registrar of Companies, Gujarat, Dadara and Nagar Haveli, 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 Limited


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
Vadodara - 390 023

: The Regional Officer
Gujarat Pollution Control Board
Ankleshwar - 393 002

GPCB XGN ID # 15832

: RKA

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GPCB XGN ID # 15832

: RKA

Period January to June 2016
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 Limited, Unit # 02, Ankleshwar, Gujarat

Condition		Status of Compliance Period: January to June 2016
No	Description	
<p>The Ex Post Facto Environmental Clearance is granted for the following products;</p> <p>⇒ Phorate / Turbuphos @ 3600 MT/ Year</p> <p>⇒ Acephate @ 960 MT / Year</p> <p>Land of project area is 65,625 m². Project does not involve forest land and displacement of people. Water requirement is 340.1 m³ / 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	Gaseous emissions (SO ₂ , NO _x , HCl, HC, NH ₃ , H ₂ S, Cl ₂) 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	Complied			
		For all parameters monitoring is done by our lab and externally through third party, Monitoring reports are attached for the period January to June 2016 . The summarized details are as follows;			
		Sr No	Major Parameters	Norms / Limit (mg / nm3)	Monitoring result / range (ppb)
		PROCESS STACKS			
		01	H ₂ S	5	2.9 to 4
		02	NH ₃	30	13.7 to 18.5
		03	PM	150	BDL
		04	SO ₂	100	6.9 to 9.5
		05	NO _x	50	10.1 to 17.8
		06	HCL	20	10.8 to 14.8
		AMBIENT AIR MONITORING - μ / nm3			

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Condition		Status of Compliance Period: January to June 2016			
No	Description				
		01	PM 10	100	71.5 to 89.7
		02	PM 2.5	60	35 to 49.2
		03	SOx	80	21.9 to 28.6
		04	NOx	80	25.6 to 34.2
		05	HCL	200	36.3 to 52.9
		06	NH3	400	18.5 to 29.3
		07	H2S	500	BDL
		08	HC	160	BDL
		09	CL2	100	BDL
2	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>Complied</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. We have a portable VOC monitor to check emissions.</p> <p>Fume incinerator is in operation</p> <p>Monitoring results are attached for period January to June 2016. The summarized results are as follows;</p>			
		Sr No	Major Parameters	Monitoring result / range (ppb)	
		01	EM	4 to 62	
		02	H2S	12 to 46	
		03	NH3	16 to 116	

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Condition		Status of Compliance Period: January to June 2016			
No	Description				
		04	VOC	BDL to 98	
		<i>There is no limit for Fugitive Emission hence we are comparing monitored values with TLV / TWA. For Ethyl Mercaptan, TWA is 0.5 ppm; for H2S, TLV is 10 ppm and for NH3, TLV is 25 ppm. Fugitive emissions are at very low concentrations</i>			
3	Process emissions (H ₂ S, NH ₃ , MeCl ₂ , 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>Complied.</p> <p>Scrubbers with appropriate scrubbing media are in operation and the emission parameters are within limits</p> <p>We are monitoring the performance of scrubbers. We have added one more stage in the H₂S scrubbing system of Phorate Plant to meet new norms.</p> <p>VOC Monitoring is done and monitoring reports are attached. Monitoring results are attached for period January to June 2016</p> <p>The summarized results are as follows;</p>			
		Sr No	Major Parameters	Norms / Limit (mg / nm3)	Monitoring result / range (mg / nm3)
		01	H ₂ S	5	2.9 to 4
		02	NH ₃	30	13.7 to 18.5
		03	PM	150	BDL
		04	SO ₂	100	6.9 to 9.5
		05	NOX	50	10.1 to 17.8
		06	HCL	20	10.8 to 14.8

<p>4</p>	<p>As reflected in EIA / EMP Report, effluent generation not to exceed 218 m³ / 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"> ⇒ 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 ⇒ 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 ⇒ Streams with high organic load (high COD and BOD) to be treated chemically with Hydrogen Peroxide and sent to ETP for treatment ⇒ 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"> ⇒ PH @ 5.5 to 8.5 ⇒ BOD @ 30 mg / l ⇒ COD @ 100 mg / l ⇒ SS @ 100 mg / l ⇒ Oil and Grease @ 10 mg / l ⇒ Phenol @ 1 mg / l ⇒ Sulphide @ 0.5 mg / l 	<p>Complied. Zero liquid discharge unit.</p> <p>Summarized data of effluent generation and treatment is attached herewith for the period January to June 2016.</p> <p>Complied. The Unit is recycling total effluent using RO System and evaporation system. Unit is operating as zero discharge units since May 14.</p> <p>Complied. Organic waste and Aqueous waste are being sent to common Incinerator, BEIL Ankleshwar for incineration.</p> <p>Complied</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 January to June 2016 is attached herewith</p> <p>Complied</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 January to June 2016 is attached herewith</p> <p>Complied</p> <p>Primary, secondary and tertiary treatment facilities are in operation. The Company has membership of Common Conveyance & Treatment System operated by NCT. However, the Unit is operating as zero discharge unit since May 2014</p> <p>Zero discharge unit - We have installed the effluent recycling system consisting of RO Plant and Evaporation System and plant is in operation. Since May 2014, no effluent discharge to FETP of M/s NCTL. Details of RO operations during January to June 2016 is attached herewith</p> <p>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.</p>
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Condition		Status of Compliance Period: January to June 2016
No	Description	
5	Company to recover MECL (CH ₃ CL) by installation of CH ₃ 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	Complied. The solvent recovery is above 98 %. Organic residue from distillation system is sent for incineration
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	Complied. Our Incinerator is dismantled. Company is utilizing Common Incinerator facility of BEIL, Ankleshwar. ETP sludge is being disposed to BEIL for landfilling. Leachate is taken to ETP for further treatment. Hazardous waste storage area has been constructed as per CPCB Guideline.
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	Complied. The Company has taken membership of the Common Incineration System set up by BEIL. The company is sending incinerable material to BEIL Ankleshwar for Incineration. Details are attached for the period January to June 2016
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.	Complied. The incinerator was dismantled and not in operation. VOC monitoring being done and details are attached for the period January to June 2016
9	As per CREP, bio assay test method to be replaced by Toxicity Factor test method developed by CPCB. T _f =4 to be achieved by December 2003 and T _f =2 by July 2006. Action plan to be submitted within 3 months to Ministry	Complied. Bio-assay test reports of monitoring done are attached herewith for the period Jan to June 2016

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Condition		Status of Compliance Period: January to June 2016
No	Description	
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 ₂ S ₅ handling system with tote bins to prevent spillages. To reduce decontamination and disposal, company to re cycle the drums	<p>Complied.</p> <p>This is an ongoing activity.</p> <ul style="list-style-type: none"> • Drums recycling for FG packing in Plants. • Steam condensate is recycled in to Boilers. • We have reduced the raw material consumption norms. • We have increased Solvent recovery up to 98%. • Vent scrubber provided for hazardous chemical storage tanks vents. • Additional vent condenser provided and improved solvent recovery. • Reduced raw Effluent quantity by taking cleaner production initiatives in the plant. • Company is recovering by-product from waste stream. We have got Amendment in the CC&A for this and copy is attached.
11	Company to undertake rain water harvesting as per action plan submitted to this Ministry	<p>Complied.</p> <p>The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m². The total rain water collection (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>Complied.</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>Complied.</p> <p>This is an ongoing activity.</p> <p>During January to June 2016, 70 saplings have been planted. Moreover, we have developed greenery in front of our Unit</p>

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Condition		Status of Compliance Period: January to June 2016
No	Description	
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>Complied.</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>
<u>B → GENERAL CONDITIONS</u>		
1	Company to adhere to stipulations made by GPCB	<p>Complied.</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 & 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>Complied.</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 obtained CC&A amendment AWH#65674 dated 11.05.2015</p> <p>We have renewed CC&A # AWH-57916 dated 24.10.2013 &CC&A amendment AWH#65674 dated 11.05.2015 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>Complied.</p> <p>The Unit is having various statutory licenses and approvals</p>
4	Company to comply with HWM Rules and authorization from GPCB to be obtained	<p>Complied.</p> <p>CC&A # AWH-57916 dated 24.10.2013 CC&A amendment AWH#65674 dated 11.05.2015 which is valid up to 02.08.2018. Copy is attached herewith.</p>

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Condition		Status of Compliance Period: January to June 2016
No	Description	
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>Complied.</p> <p>Noise levels are being monitored and found to be within limits</p> <p>Noise levels monitoring done internally & reports are attached herewith for the period January to June 2016</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>Complied.</p> <p>The company is having full time medical doctor, OHC and ambulance. 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>Complete medical examination is carried out as per legal requirements and records maintained. The frequency of check-up is as follows;</p> <ul style="list-style-type: none"> • Blood Cholinesterase Activity (BCA) Test is carried out every 30 days • Brief Medical examination is done half yearly for blood, urine etc • Full medical examination is done every alternate year including Physical examination, Hemoglobin, Complete Blood Count, ESR, Complete Urine Examination, Liver Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc <p>During the period January to June 16, Medical checkup done for 265 employees.</p>
7	A separate Environment Management Cell with full-fledged laboratory to be set up to carry out the environmental management and monitoring functions	<p>Complied.</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 General Manager. 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>

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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	Complied. The funds are already provided as a part of manufacturing activities and operation of ETP / Incinerator. Separate Cost Codes are also available
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	Being complied. Half yearly compliance reports are being sent during February and August every year
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 news-papers and copies to be submitted to RO-GPCB	Complied. Advertisements were given in two news-papers and copy submitted to MOEF
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	Complied. 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	Noted
-	Ministry reserves the right to stipulate additional conditions if required. Company, in a time bound manner, will implement the same	Noted
-	The above conditions will be enforced inter-alia under provisions of various acts and rules	Noted

Period January to June 16
Compliance Report for the conditions in the
Environmental Clearance No J-11011/1281/2007-IA(II) dated 15.04.2008
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for UPL Limited, Unit # 2, Ankleshwar, Gujarat

	Condition	Status of Compliance Period: January to June 16
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		
Pesticides					
1	DevrinolorMetabromuron	140 or 30	300 or 30	Complied. We have obtained Consent To Establish (NOC) # 47139 dated 25.07.2012 & CC&A amendment AWH#65674 dated 11.05.2015 from GPCB against the Environmental Clearance #J-11011/1281/2007-IA(II) dated 15.04.2008. Copy of the NOC & CC&A attached herewith. Now unit become a Zero discharge unit – We have installed the effluent recycling system consisting of RO Plant and Evaporation System. Since May 2014, No discharge to FETP, M/s NCT. Production quantities are well within consent limits	
2	Terbuphos/Phorate (Combined Capacity)	200	500		
3	AcephateorMetamitron	160 or 60	1000 or 60		
4	Phosphamidon (PD) or Surflan	100 or 40	100 or 40		
5	Dichlorovos (DDVP)	85	85		
6	Monocrotophos	-	100		
7	Acetamapride or Imidacloprid	-	100 or 50		
8	Metribuzin	-	50		
Total (Maximum)		685	2235		
Other Products-Intermediate Chemicals					
9	Di Ethyl ThioPhosphory Chloride (DETCL)	160	160		
10	Para Chloro Ortho Cresol (PCOC)	96	96		
11	Di Methyl Phosphorus AmidoThionate (DMPAT)	110	110		
12	Di Methyl Methyl Phosphonate (DMMP)	100	100		
13	Di Ethyl Thio Phosphoric Acid (DETA)/Zinc Di Thio Phosphate (ZNDTP)	300/150	600/ 400		
		500	1000		
14	Noflan	-	8		
15	Absolute Alcohol	420	420		
Total (Maximum)		1386	1894		

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Condition		Status of Compliance Period: January to June 16	
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 ₃ from Noflan	-	20.49
27	Ammonia from Noflan	-	0.36
28	Ethanol from Acetamiprid	-	0.84
Total (Maximum)		928.2	1281.85

Land of project area is 65,625 m². Project does not involve forest land and displacement of people. Water requirement is 340.1 m³ / 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 H₂O₂ followed by ETP treatment. H₂S, NH₃, HCl and Cl₂ will be the main process emissions which will be scrubbed in water and/or caustic scrubbers. Stack height with all the reactors, incinerators and boilers shall be 30 m. For odour control, vapour incinerator has been installed. For H₂S, 3 stage scrubbers have been installed. The unit is carrying Bio-Assay test and toxicity factor which ranges in 2-4.

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

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;

Period January to June 16
Compliance Report for the conditions in the
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Condition		Status of Compliance Period: January to June 16
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 th July 2003	Complied. Please refer above Half yearly EC compliance report for the environmental clearance issued vides F. No. J-11011/77/2002-IA(II) dated 17 th July 2003
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. However, we have installed the effluent recycling system consisting of RO Plant and Evaporation System and become zero discharge unit. Since May 2014, No discharge to FETP of 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 become zero discharge unit. Since May 2014, No 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 are conducted & monitoring result is attached herewith.
6	The company shall install continuous monitoring equipment for H ₂ S and Cl ₂ from the stack and data shall be submitted with reports	Complied. For Chlorine, Ammonia and H ₂ S, continuous monitors are provided. Monitoring is also being carried out regularly and report is attached

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Condition		Status of Compliance Period: January to June 16
No	Description	
7	The gaseous emissions (SO ₂ , NO _x , HCl, Cl ₂ , H ₂ 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. VOC monitoring is carried out regularly using photovac VOC sampler. VOC monitoring results are attached herewith.
8	The company shall provide the monitoring arrangement with all the vents for monitoring of (SO ₂ , NO _x , HCl, Cl ₂ , H ₂ 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. Monitoring is being carried out by our laboratory and through third party. We have provided three ambient air monitoring stations. We are submitting the analysis report to GPCB on monthly basis. Copies of reports are being submitted along with this half yearly report
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. We are complying to the revised standard for pesticide sector
11	The height of stacks shall be as per the CPCB guidelines. For control of process emissions like HCl, Cl ₂ , SO ₂ , etc. high efficiency scrubbers shall be provided with each reactor	Complied. Appropriate scrubbers are provided in each plant and monitoring results are well within limits Provided stacks height as per CPCB guideline

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Condition		Status of Compliance Period: January to June 16
No	Description	
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	<p>Complied.</p> <p>We have provided three stage scrubber for H2S. In other plants, we have two stage scrubbers. We are using Natural Gas as fuel in the boiler and hence Koch Filter / Wet Scrubber / Mist Eliminator not required. The emissions are well within limit</p> <p>The scrubbed water is segregated and the recovered HcL and NASH are sold as by-products. The lean scrubbed water is taken to ETP</p>
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%	<p>Complied. We have provided chilled brine in the secondary condenser</p> <p>Solvent recovery is above 98%.</p> <p>We are monitoring VOC & results are attached herewith.</p>
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 & 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 98%</p> <p>For Hazardous chemicals / solvent storage, taken all safety measures.</p> <p>Electrical earthing provided to all storage tanks / equipment's.</p> <p>We are using flameproof fittings in solvent storage area and plants. Breather valves are provided on storage tanks</p>
15	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 SPCB	<p>Complied.</p> <p>We have internal monitoring for Fugitive emission and monitoring results are attached. We are using photovac hand-held VOC monitor</p>

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Condition		Status of Compliance Period: January to June 16
No	Description	
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, condensers for collection of solvents. Mechanical seals are provided to pumps and reactors. LDAR system is in place. We are using VOC monitor for checking any leakage.</p> <p>Closed pipe line systems are used for transfer of solvents. Solvent traps with condensers are provided</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& complied. Solvent usage is minimized by recovery and recycling. Benzene is not being used. As per the manufacturing process submitted, we are using the raw materials and products. The H2S generated is scrubbed in NaOH and the product NASH is sold as by-product as per the permission given in our CC&A.</p>
18	<p>All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N₂ blanketing and condensers will be provided for all the storage tanks. 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</p>	<p>Noted & complied.</p> <p>We have provided Nitrogen Blanketing for Ethyl Mercaptan, Tertiary Butyl Mercaptan storage etc. The vents from storages are connected to Fume Incinerator.</p> <p>Closed handling system is followed for all hazardous chemicals.</p> <p>Pumps are provided with mechanical seals.</p> <p>For certain chemicals like Ethyl Mercaptan, TMP, we are using seal-less pumps (magnetic pumps)</p> <p>Solvent traps are provided and chilled brine condensers are in operation.</p> <p>VOC monitoring is carried out on regular basis.</p>

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Condition		Status of Compliance Period: January to June 16
No	Description	
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	<p>Noted & Complied. Vapour recovery system and condensate collection system is provided. We have an LDAR program in place.</p> <p>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</p> <p>Regular Ambient Air and VOC monitoring are carried out. Detectors are provided for Chlorine, Ammonia and H₂S; and the detection levels are in ppm. Additionally, we are having hand-held VOC monitor, detector tubes for various gases</p>
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	<p>Complied. We are sending the various wastes generated to BEIL Ankleshwar for treatment and disposal. Used Oil is sent to approved recyclers. Process organic solid / aqueous wastes are sent for incineration at BEIL. Details of waste generation and disposal are attached</p>
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	<p>Complied. Dyke walls are constructed for storages. Separate storm water drains are available</p>
22	The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit	<p>Noted & complied. Closed handling is followed to avoid odour nuisance.</p> <p>Fume incinerator provided to control odorous compounds</p>
23	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	<p>Noted & complied.</p> <p>We have regular medical checkup for all employees.</p>
24	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling	<p>Noted & complied.</p> <p>We have adequate fire hydrant system and fire extinguishers to control fire.</p>

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Condition		Status of Compliance Period: January to June 16
No	Description	
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 ² of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission	Complied We have already developed green belt & will continue green belt development
<u>B → GENERAL CONDITIONS</u>		
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.
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

Period January to June 16
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Condition		Status of Compliance Period: January to June 16
No	Description	
6	<p>The company shall undertake following Waste Minimization measures :-</p> <ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • • Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. • Maximizing recoveries • Use of automated material transfer system to minimize spillage. • Use of Closed Feed system into batch reactors. 	<p>Noted & complied</p> <p>Measured quantities of raw materials are used in manufacturing</p> <p>Various by-products are recovered. From Ammonium Acetate, the Company is recovering valuable products Ammonium Sulphate and Acetic Acid / Sodium Acetate. By scrubbing H₂S, the by-product NASH is generated and is sold.</p> <p>As per the permission given by GPCB, we are recovering by-product from waste stream</p> <p>Solvent recoveries are above 98 %</p> <p>Automated material transfer system is used</p> <p>Closed handling system is used for material transfer</p>
7	<p>The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes</p>	<p>Noted & complied</p> <p>We have obtained authorization from GPCB as per Hazardous Wastes (Management, Handling & trans-boundary) Rules, 2008</p>
8	<p>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)</p>	<p>Noted & Complied</p> <p>We have internal and external Noise monitoring and noise level is well within the limit.</p>
9	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions</p>	<p>Noted & Complied.</p> <p>Company has Environment Management cell. We have full-fledged Environment Lab with all required equipment.</p>
10	<p>The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes</p>	<p>Noted & complied. We have capital budgets and revenue budgets. Sufficient amount is provided in the manufacturing budget for EMS.</p>

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Condition		Status of Compliance Period: January to June 16
No	Description	
11	The project authorities shall provide rainwater harvesting system and ground water recharge	Noted & complied The rain water harvesting system consists of collection of rain water from the total surface area of approximately 1400 m ² . 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
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. Half yearly reports are being submitted
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 http://envfor.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office	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 company has obtained NOC # 47139dated 25/07/2012 from GPCB. The Company has set up the plant including water recycling system and the cost for zero discharge system is Rs 5.24 Cr. The date of start of the project is 30.05.2014. Company has also obtained CC&A Amendment from GPCB on 11.05.2015.
-	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

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Condition		Status of Compliance Period: January to June 16
No	Description	
-	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

Annexure – 1

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
OTHER PRODUCTS (INTERMEDIATE CHEMICALS)						
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	--

DETAILS OF WATER CONSUMPTION AND TREATED EFFLUENT DISCHARGE *
QUANTITY (INDUSTRIAL+ DOMESTIC) TO FETP, (NCTL, ANKLESHWAR – ZERO Discharge Unit

MONTH	WATER CONSUMPTION	TREATED EFFLUENT DISCHARGE * QUANTITY (INDUSTRIAL+ DOMESTIC) TO FETP, (NCTL, ANKLESHWAR
ALL QUANTITIES IN KL/MONTH		
Jan 16	3286	NIL
Feb 16	4659	NIL
Mar 16	7602	NIL
Apr 16	9444	NIL
May 16	5681	NIL
June 16	5343	NIL

- Unit becomes a Zero discharge unit since May 2014. Unit has incorporated water recycling & evaporation system.

Water recycling system (RO) Details

Month	RO feed KL	RO Permeate KL	Reject KL
Jan'16	1742	1497	245
Feb'16	2414	2046	368
March'16	2591	2198	393
April'16	2457	2091	366
May'16	2375	2034	341
June'16	2019	1712	307

HIGH TDS EFFLUENT TREATMENT AT EVAPORATION SYSTEM

MONTH	Evaporation QTY KL/ MONTH
Jan 16	370
Feb 16	743
Mar 16	748
Apr 16	686
May 16	492
June 16	796

DETAILS OF HIGH COD EFFLUENT TREATMENT: CHEMICAL TREATMENT BY H₂O₂

MONTH	HIGH COD EFFLUENT CHEMICAL TREATMENT (H ₂ O ₂ TREATMENT) - QTY KL/MONTH
Jan 16	336
Feb 16	228
Mar 16	176
Apr 16	317
May 16	164
June 16	317

INCINERATION WASTE DETAILS						
MONTH	OP. STOCK	GENERATION			DISPOSAL	CL. STOCK
		ORGANIC PROCESS WASTE	AQ PROCESS WASTE	TOTAL (ORGANIC+ AQ PROCESS) WASTE	SENT TO BEIL, ANKLESHWAR FOR INCINERATION	
ALL QTY IN MT/ MONTH						
Jan 16	8.519	174.200	104.500	278.700	278.150	9.069
Feb 16	9.069	184.000	101.500	285.500	284.940	9.629
Mar 16	9.629	285.000	294.000	579.000	580.170	8.459
Apr 16	8.459	398.000	411.000	809.000	808.930	8.529
May 16	8.529	395.000	406.000	801.000	801.770	7.759
June 16	7.759	386.000	395.000	781.000	781.550	7.209

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 16	8.349	18.400	16.500	34.900	37.410	5.839
Feb 16	5.839	16.500	87.000	103.500	100.490	8.849
Mar 16	8.849	21.000	151.000	172.000	172.990	7.859
Apr 16	7.859	24.000	69.500	93.500	93.210	8.149
May 16	8.149	55.000	285.000	340.000	339.840	8.309
June 16	8.309	42.000	21.000	63.000	63.110	8.199

TOTAL DISPOSAL QTY TO BEIL –MT/M- LANDFILLING					
MONTH	SOLIDS(*)	PLASTIC WASTE	INSULATION WASTE	TOTAL WASTE SENT TO BEIL FOR LANDFILLING	Remarks
ALL QTY IN MT/MONTH					
Jan 16	37.410	0.000	6.090	43.500	
Feb 16	100.490	0.000	2.910	103.400	
Mar 16	172.990	0.000	3.860	176.850	
Apr 16	93.210	0.000	2.410	95.620	
May 16	339.840	0.000	2.470	342.310	
June 16	63.110	0.000	3.390	66.500	

AMBIENT AIR ANALYSIS REPORT (By Our Internal Lab)

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JAN-2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/01/16	48.95	36.4	28.20	17.80	70.15	....	BDL
SCRAP YARD	04/01/16	51.39		24.76	16.91	13.14	BDL	....
SCRAP YARD	06/01/16	62.84		9.90	17.90	19.43	....	BDL
SCRAP YARD	08/01/16	60.88	56.8	45.00	21.50	15.28	BDL	....
SCRAP YARD	10/01/16	55.78		29.17	10.42	24.06	....	BDL
SCRAP YARD	12/01/16	45.83		24.68	25.00	24.30	BDL	....
SCRAP YARD	14/01/16	72.22		15.70	14.53	5.72	....	BDL
SCRAP YARD	16/01/16	40.62	32.4	23.11	14.50	16.84	BDL	....
SCRAP YARD	18/01/16	61.80		31.37	30.20	18.05	....	BDL
SCRAP YARD	20/01/16	55.32		52.84	16.40	14.81	BDL	....
SCRAP YARD	22/01/16	71.52	58.4	20.64	9.66	3.17	....	BDL
SCRAP YARD	24/01/16	56.25		35.63	18.93	16.00	BDL	...
SCRAP YARD	26/01/16	30.55		21.46	17.72	13.60	...	BDL
SCRAP YARD	28/01/16	50.69		34.10	15.67	16.66	BDL	...
SCRAP YARD	30/01/16	53.12	46.7	21.46	16.50	19.44	...	BDL
	Maximum	72	58	53	30	70	0	0
	Minimum	31	32	10	10	3	0	0
	Average JAN-16	55	46	28	18	19	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JAN-2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/01/16	43.75	56.5	19.90	17.72	6.86	....	BDL
ETP AREA	04/01/16	65.80		21.46	12.88	22.22	BDL	....
ETP AREA	06/01/16	90.00		26.42	21.30	38.87	....	BDL
ETP AREA	08/01/16	62.60	58.8	29.36	27.20	6.23	BDL	....
ETP AREA	10/01/16	61.68		19.88	13.14	7.40	....	BDL
ETP AREA	12/01/16	44.44		21.40	14.10	18.30	BDL	....
ETP AREA	14/01/16	82.64		28.10	22.55	3.43	....	BDL
ETP AREA	16/01/16	47.92	45.2	28.10	22.55	68.68	BDL	....
ETP AREA	18/01/16	59.72		26.42	14.10	23.61	....	BDL
ETP AREA	20/01/16	61.00		16.47	20.34	72.20	BDL	....
ETP AREA	22/01/16	53.68	46.7	23.12	19.30	14.00	....	BDL
ETP AREA	24/01/16	32.69		20.57	18.60	84.00	BDL	...

ETP AREA	26/01/16	27.08		22.30	20.13	64.80	...	BDL
ETP AREA	28/01/16	67.36		18.31	20.86	18.05	BDL	...
ETP AREA	30/01/16	66.84	59.1	23.94	25.77	46.30	...	BDL
	Maximum	90	59	29	27	84	0	0
	Minimum	27	45	16	13	3	0	0
	Average JAN-16	58	53	23	19	33	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JAN-2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
MAIN GATE	02/01/16	68.58	52.6	18.28	6.44	27.88	....	BDL
MAIN GATE	04/01/16	63.66		33.24	23.70	6.94	BDL	....
MAIN GATE	06/01/16	90.00		26.42	21.30	38.87	....	BDL
MAIN GATE	08/01/16	62.60	54.3	29.36	27.20	6.23	BDL	....
MAIN GATE	10/01/16	71.78		20.91	20.83	4.57	....	BDL
MAIN GATE	12/01/16	55.26		19.75	6.44	5.72	BDL	....
MAIN GATE	14/01/16	65.86		18.16	16.10	18.14	....	BDL
MAIN GATE	16/01/16	31.60	58.1	28.10	16.10	18.14	BDL	....
MAIN GATE	18/01/16	56.08		20.10	11.27	6.87	....	BDL
MAIN GATE	20/01/16	47.22		26.42	13.90	11.11	BDL	.....
MAIN GATE	22/01/16	56.94	48.6	14.86	4.43	6.48	....	BDL
MAIN GATE	24/01/16	48.95		13.10	16.40	15.28	BDL	...
MAIN GATE	26/01/16	48.96		18.16	10.10	9.72	...	BDL
MAIN GATE	28/01/16	49.48		30.00	20.12	50.92	BDL	...
MAIN GATE	30/01/16	74.65	56.8	27.24	22.55	22.86	...	BDL
	Maximum	90	58	33	27	51	0	0
	Minimum	32	49	13	4	5	0	0
	Average JAN-16	59	54	23	16	17	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH FEBRUARY - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	01/02/16	61.11	54.3	27.65	16.91	35.41	BDL	....
SCRAP YARD	03/02/16	59.89		28.52	17.71	19.43	....	BDL
SCRAP YARD	05/02/16	53.82		29.62	18.12	17.15	BDL	....

SCRAP YARD	07/02/16	53.47	58.4	27.75	17.80	10.15	....	BDL
SCRAP YARD	09/02/16	40.97		37.40	20.50	22.21	BDL	....
SCRAP YARD	11/02/16	61.11		25.51	20.17	27.94	....	BDL
SCRAP YARD	13/02/16	59.80		42.84	23.16	16.67	BDL	....
SCRAP YARD	15/02/16	64.58	49.8	19.90	14.50	16.84	....	BDL
SCRAP YARD	17/02/16	70.13		20.57	12.08	8.60	BDL	....
SCRAP YARD	19/02/16	65.62		23.03	11.60	9.15	....	BDL
SCRAP YARD	21/02/16	49.30	54.5	22.30	14.10	14.30	BDL	...
SCRAP YARD	23/02/16	50.00		27.24	14.30	18.52	...	BDL
SCRAP YARD	25/02/16	44.44		23.86	20.94	13.15	BDL	...
SCRAP YARD	27/02/16	71.70		24.68	24.16	17.15	...	BDL
SCRAP YARD	29/02/16	60.07	57.4	25.51	12.58	22.15	BDL	...
	Maximum	72	58	43	24	35	0	0
	Minimum	41	50	20	12	9	0	0
	Average FEB-16	58	55	27	17	18	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH FEBRUARY - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	01/02/16	54.16	56.8	19.81	12.88	35.44	BDL	....
ETP AREA	03/02/16	51.39		20.17	15.30	77.75	....	BDL
ETP AREA	05/02/16	49.48		24.68	16.11	57.17	BDL	....
ETP AREA	07/02/16	49.13	57.7	25.40	20.40	50.20	....	BDL
ETP AREA	09/02/16	40.45		39.00	15.70	77.78	BDL	....
ETP AREA	11/02/16	68.40		13.16	19.37	21.52	....	BDL
ETP AREA	13/02/16	70.52		21.61	77.78	77.78	BDL	....
ETP AREA	15/02/16	85.41	59.5	23.03	20.86	58.31	....	BDL
ETP AREA	17/02/16	48.90		24.68	16.91	73.80	BDL	....
ETP AREA	19/02/16	66.32		26.35	18.94	71.46	....	BDL
ETP AREA	21/02/16	61.80	54.6	29.72	21.74	57.20	BDL	...
ETP AREA	23/02/16	84.02		34.67	18.52	57.74	...	BDL
ETP AREA	25/02/16	45.66		21.39	20.05	57.17	BDL	...
ETP AREA	27/02/16	53.12		23.04	23.35	85.75	...	BDL
ETP AREA	29/02/16	54.51	58.4	21.39	20.94	70.32	BDL	...
	Maximum	85	59.5	39	78	86	0	0
	Minimum	40	55	13	13	22	0	0
	Average FEB-16	59	57	25	23	62	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH FEBRUARY - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
MAIN GATE	01/02/16	47.92	48.4	13.20	8.86	9.15	BDL	....
MAIN GATE	03/02/16	49.30		14.81	12.48	6.28	....	BDL
MAIN GATE	05/02/16	48.26		20.57	11.68	11.43	BDL	....
MAIN GATE	07/02/16	50.34	58.4	18.80	12.08	14.29	....	BDL
MAIN GATE	09/02/16	67.53		19.90	14.10	4.00	BDL	....
MAIN GATE	11/02/16	54.80		23.03	20.86	58.31	....	BDL
MAIN GATE	13/02/16	51.20		17.22	20.12	10.42	BDL	....
MAIN GATE	15/02/16	88.20	56.4	13.16	19.37	21.52	....	BDL
MAIN GATE	17/02/16	64.93		18.90	11.27	4.60	BDL	....
MAIN GATE	19/02/16	70.83		18.10	11.27	4.60	....	BDL
MAIN GATE	21/02/16	61.11	59.4	19.81	16.91	17.15	BDL	...
MAIN GATE	23/02/16	63.72		17.33	8.86	8.00	...	BDL
MAIN GATE	25/02/16	64.93		19.75	18.12	11.43	BDL	...
MAIN GATE	27/02/16	49.65		20.57	22.15	14.29	...	BDL
MAIN GATE	29/02/16	63.54	56.2	16.46	16.51	8.00	BDL	...
	Maximum	88	59.4	23	22	58	0	0
	Minimum	48	48	13	9	4	0	0
	Average FEB-16	60	56	18	15	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/03/16	59.02	58.4	21.23	16.40	14.81	BDL	....
SCRAP YARD	04/03/16	59.72		24.76	18.25	27.27	....	BDL
SCRAP YARD	06/03/16	63.36		24.85	17.30	39.58	BDL	....
SCRAP YARD	08/03/16	59.20	48.7	23.26	14.50	5.72	....	BDL
SCRAP YARD	10/03/16	62.60		20.91	20.83	42.50	BDL	....
SCRAP YARD	12/03/16	59.72		27.24	26.60	10.40	....	BDL
SCRAP YARD	14/03/16	50.69		29.62	19.73	22.87	BDL	....
SCRAP YARD	16/03/16	61.11	56.6	23.27	18.11	17.15	....	BDL
SCRAP YARD	18/03/16	47.92		24.10	20.50	36.10	BDL	....
SCRAP YARD	20/03/16	65.10		26.77	18.88	14.30	....	BDL
SCRAP YARD	22/03/16	72.22		41.40	21.33	28.47	BDL	...
SCRAP YARD	24/03/16	62.84	58.3	24.10	20.50	8.57	...	BDL
SCRAP YARD	26/03/16	51.04		19.37	29.67	23.60	BDL	...

SCRAP YARD	28/03/16	32.08		34.07	15.65	16.60	BDL	...
SCRAP YARD	30/03/16	61.11	55.8	10.00	8.86	4.60	...	BDL
	Maximum	72	58	41	30	43	0	0
	Minimum	32	49	10	9	5	0	0
	Average MAR-16	58	56	25	19	21	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/03/16	55.72	59.1	21.60	16.50	39.58	BDL	....
ETP AREA	04/03/16	56.07		21.46	18.52	75.46	....	BDL
ETP AREA	06/03/16	78.12		29.72	17.10	176.90	BDL	....
ETP AREA	08/03/16	56.94	57.4	26.60	18.52	20.58	....	BDL
ETP AREA	10/03/16	69.27		19.88	13.14	7.40	BDL	....
ETP AREA	12/03/16	39.93		39.20	26.60	227.10	....	BDL
ETP AREA	14/03/16	70.83		24.68	15.70	70.32	BDL	....
ETP AREA	16/03/16	52.77	58.8	19.94	15.70	73.74	....	BDL
ETP AREA	18/03/16	56.08		35.80	28.40	67.40	BDL	....
ETP AREA	20/03/16	70.83		21.41	16.10	77.18	....	BDL
ETP AREA	22/03/16	67.36		39.63	23.75	20.00	BDL	...
ETP AREA	24/03/16	69.79	56.4	34.00	18.60	37.16	...	BDL
ETP AREA	26/03/16	64.93		23.42	13.41	8.33	BDL	...
ETP AREA	28/03/16	70.14		37.40	22.35	79.20	BDL	...
ETP AREA	30/03/16	71.52	59.6	31.58	19.60	118.47	...	BDL
	Maximum	78	60	40	28	227	0	0
	Minimum	40	56	20	13	7	0	0
	Average MAR-16	63	58	28	19	73	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MARCH - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
MAIN GATE	02/03/16	59.89	56.8	10.00	12.88	2.86	BDL	....
MAIN GATE	04/03/16	59.55		14.86	19.37	11.80	....	BDL
MAIN GATE	06/03/16	61.11		29.94	18.63	18.05	BDL	....
MAIN GATE	08/03/16	65.97	54.2	14.96	13.70	2.30	....	BDL
MAIN GATE	10/03/16	76.38		29.17	10.42	24.06	BDL	....

MAIN GATE	12/03/16	38.54		30.00	19.64	10.41	....	BDL
MAIN GATE	14/03/16	68.23		20.57	12.08	14.86	BDL	....
MAIN GATE	16/03/16	46.18	58.8	16.07	12.88	13.72	....	BDL
MAIN GATE	18/03/16	54.16		22.30	22.10	26.38	BDL	....
MAIN GATE	20/03/16	68.05		16.73	14.50	8.57	....	BDL
MAIN GATE	22/03/16	56.25		19.94	14.10	18.05	BDL	...
MAIN GATE	24/03/16	59.38	49.6	14.10	21.40	8.05	...	BDL
MAIN GATE	26/03/16	47.22		15.06	15.65	14.58	BDL	...
MAIN GATE	28/03/16	51.74		17.45	19.74	22.21	...	BDL
MAIN GATE	30/03/16	41.34	58.2	14.40	21.33	10.18	...	BDL
	Maximum	76	59	30	22	26	0	0
	Minimum	39	50	10	10	2	0	0
	Average MAR-16	57	56	19	17	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH APRIL - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m ³	PM 2.5 60 µg/m ³	SO ₂ 80 µg/m ³	NO _X 80 µg/m ³	NH ₃ 400 µg/m ³	HCL 200 µg/m ³	CHLORINE 100 µg/m ³
SCRAP YARD	01/04/16	79.16	52.6	19.84	6.04	36.11	BDL	....
SCRAP YARD	03/04/16	85.23		26.10	21.34	14.30	....	BDL
SCRAP YARD	05/04/16	66.14		25.26	20.13	1.65	BDL	....
SCRAP YARD	07/04/16	51.38	54.8	30.11	19.33	9.15	....	BDL
SCRAP YARD	09/04/16	66.84		25.10	19.74	5.55	BDL	....
SCRAP YARD	11/04/16	68.06		28.10	18.74	18.50	....	BDL
SCRAP YARD	13/04/16	80.21	55.3	24.10	20.50	36.10	BDL	....
SCRAP YARD	15/04/16	65.28		19.24	20.94	6.86	BDL	....
SCRAP YARD	17/04/16	55.90		19.24	16.91	8.00	....	BDL
SCRAP YARD	19/04/16	61.11	57.6	26.94	24.96	9.15	BDL	...
SCRAP YARD	21/04/16	58.68		28.63	17.90	29.86	...	BDL
SCRAP YARD	23/04/16	82.64		32.00	21.23	25.00	BDL	...
SCRAP YARD	25/04/16	63.72		21.89	11.27	25.27	...	BDL
SCRAP YARD	27/04/16	60.76	56.4	26.94	16.40	14.81	BDL	...
SCRAP YARD	29/04/16	67.01		29.47	16.40	14.81	...	BDL
	Maximum	85	58	32	25	36	0	0
	Minimum	51	53	19	6	2	0	0
	Average APR-16	67	55	26	18	17	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH APRIL - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	01/04/16	54.16	59.2	19.11	20.90	19.43	BDL	....
ETP AREA	03/04/16	66.84		32.00	18.52	14.30	....	BDL
ETP AREA	05/04/16	68.75		31.15	17.31	12.57	BDL	....
ETP AREA	07/04/16	60.78	58.4	24.26	16.51	63.46	....	BDL
ETP AREA	09/04/16	54.86		27.60	14.80	10.41	BDL	....
ETP AREA	11/04/16	59.90		15.06	14.70	9.02	....	BDL
ETP AREA	13/04/16	65.10	57.6	30.11	16.90	12.55	BDL	....
ETP AREA	15/04/16	62.84		35.13	16.91	103.50	BDL	....
ETP AREA	17/04/16	66.32		37.64	18.52	73.75	....	BDL
ETP AREA	19/04/16	64.93	54.6	30.30	16.91	37.73	BDL	...
ETP AREA	21/04/16	31.94		21.05	12.88	23.61	...	BDL
ETP AREA	23/04/16	54.51		32.00	14.56	121.77	BDL	...
ETP AREA	25/04/16	54.51		21.61	13.69	44.60	...	BDL
ETP AREA	27/04/16	51.40	54.8	21.90	10.47	94.33	BDL	...
ETP AREA	29/04/16	54.16		20.21	20.90	19.44	...	BDL
	Maximum	69	59	38	21	122	0	0
	Minimum	32	55	15	10	9	0	0
	Average APR-16	58	57	27	16	44	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH APRIL - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
MAIN GATE	01/04/16	48.43	58.6	13.30	17.88	36.11	BDL	....
MAIN GATE	03/04/16	51.90		32.00	18.52	14.30	....	BDL
MAIN GATE	05/04/16	59.02		10.95	15.30	1.65	BDL	....
MAIN GATE	07/04/16	42.18	56.8	10.95	14.10	9.15	....	BDL
MAIN GATE	09/04/16	59.54		20.91	14.16	5.55	BDL	....
MAIN GATE	11/04/16	64.93		12.55	16.76	14.58	....	BDL
MAIN GATE	13/04/16	43.92	54.3	29.28	20.13	8.60	BDL	....
MAIN GATE	15/04/16	36.80		20.92	18.11	10.30	BDL	....
MAIN GATE	17/04/16	49.30		19.74	19.33	13.15	....	BDL
MAIN GATE	19/04/16	62.32	52.6	16.84	11.27	5.27	BDL	...
MAIN GATE	21/04/16	43.75		13.47	7.25	5.56	...	BDL

MAIN GATE	23/04/16	68.22		28.63	17.90	29.86	BDL	...
MAIN GATE	25/04/16	68.23		12.38	15.30	19.43	...	BDL
MAIN GATE	27/04/16	51.00	55.4	18.47	9.66	2.56	BDL	...
MAIN GATE	29/04/16	54.16		13.50	17.88	36.11	...	BDL
	Maximum	68	59	32	20	36	0	0
	Minimum	37	53	11	7	2	0	0
	Average APR-16	54	56	18	16	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MAY - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	01/05/16	72.35	56.4	33.27	22.90	11.11	....	BDL
SCRAP YARD	03/05/16	69.79		29.00	12.90	46.58	BDL	....
SCRAP YARD	05/05/16	61.11		39.24	13.70	16.01	....	BDL
SCRAP YARD	07/05/16	68.75	59.6	13.65	9.60	1.65	BDL	....
SCRAP YARD	09/05/16	66.66		33.90	24.16	14.86	....	BDL
SCRAP YARD	11/05/16	71.52		27.12	16.74	26.02	BDL	....
SCRAP YARD	13/05/16	78.47	59.8	44.38	20.13	27.78	....	BDL
SCRAP YARD	15/05/16	63.88		30.94	19.57	22.21	BDL	....
SCRAP YARD	17/05/16	54.16		23.26	15.27	23.32	....	BDL
SCRAP YARD	19/05/16	56.42	56.4	23.26	15.27	23.32	BDL	...
SCRAP YARD	21/05/16	70.00		30.71	21.34	18.30	...	BDL
SCRAP YARD	23/05/16	66.32		28.15	17.31	17.15	BDL	...
SCRAP YARD	25/05/16	75.34	59.7	38.38	26.58	18.67	...	BDL
SCRAP YARD	27/05/16	70.48		31.56	21.34	12.68	BDL	...
SCRAP YARD	29/05/16	69.79		24.10	20.50	36.10	...	BDL
SCRAP YARD	31/05/16	63.19	59.6	29.68	22.14	17.15	BDL	...
	Maximum	78	60	44	27	47	0	0
	Minimum	54	56	14	10	2	0	0
	Average MAY-16	67	59	30	19	21	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MAY- 2015

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	01/05/16	79.16	59.6	35.82	19.60	105.60	....	BDL
ETP AREA	03/05/16	50.00		32.41	24.10	53.74	BDL	....
ETP AREA	05/05/16	56.60		27.30	14.50	53.74	....	BDL

ETP AREA	07/05/16	68.75	58.9	39.24	14.09	24.01	BDL	....
ETP AREA	09/05/16	64.75		22.03	16.91	11.43	....	BDL
ETP AREA	11/05/16	64.93		22.03	16.91	70.30	BDL	....
ETP AREA	13/05/16	76.74	59.4	29.92	20.83	148.55	....	BDL
ETP AREA	15/05/16	48.09		51.07	21.23	55.17	BDL	....
ETP AREA	17/05/16	54.16		45.70	16.76	71.91	....	BDL
ETP AREA	19/05/16	58.08	56.6	22.03	14.28	20.58	BDL	...
ETP AREA	21/05/16	53.13		32.41	22.55	58.60	...	BDL
ETP AREA	23/05/16	68.40		25.60	13.30	89.18	BDL	...
ETP AREA	25/05/16	68.06	58.8	35.82	22.55	81.75	...	BDL
ETP AREA	27/05/16	61.12		28.85	18.52	32.01	BDL	...
ETP AREA	29/05/16	57.29		29.28	16.76	14.88	...	BDL
ETP AREA	31/05/16	57.98	59.2	27.12	18.44	94.33	BDL	...
	Maximum	79	60	51	24	149	0	0
	Minimum	48	57	22	13	11	0	0
	Average MAY-16	62	59	32	18	62	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH MAY - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
MAIN GATE	01/05/16	50.69	58.8	18.77	20.90	22.22	....	BDL
MAIN GATE	03/05/16	41.84		21.32	12.08	2.86	BDL	....
MAIN GATE	05/05/16	68.23		18.77	10.47	9.15	....	BDL
MAIN GATE	07/05/16	42.18	59.6	10.47	10.60	1.05	BDL	....
MAIN GATE	09/05/16	36.80		22.03	16.91	11.43	....	BDL
MAIN GATE	11/05/16	45.48		15.00	20.13	8.57	BDL	....
MAIN GATE	13/05/16	59.54	56.4	14.10	21.40	8.09	....	BDL
MAIN GATE	15/05/16	54.17		10.00	20.50	18.74	BDL	....
MAIN GATE	17/05/16	64.40		12.46	4.84	19.43	....	BDL
MAIN GATE	19/05/16	36.63	59.8	12.71	11.27	8.00	BDL	...
MAIN GATE	21/05/16	59.54		13.65	19.73	3.43	...	BDL
MAIN GATE	23/05/16	50.86		22.18	92.60	14.30	BDL	...
MAIN GATE	25/05/16	59.20	57.8	15.35	11.27	6.86	...	BDL
MAIN GATE	27/05/16	59.54		20.47	16.11	5.72	BDL	...
MAIN GATE	29/05/16	36.80		19.75	6.44	5.82	...	BDL
MAIN GATE	31/05/16	59.72	59.7	20.34	15.70	6.72	BDL	...
	Maximum	68	60	22	93	22	0	0
	Minimum	37	56	10	5	1	0	0

Average MAY-16	52	59	17	19	10	0	0
%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JUNE - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/06/16	69.79	56.4	30.05	11.27	9.15	....	BDL
SCRAP YARD	04/06/16	66.67		39.50	23.75	20.14	BDL	....
SCRAP YARD	06/06/16	81.94		30.90	21.74	45.12	....	BDL
SCRAP YARD	08/06/16	79.16	59.2	30.05	30.20	31.94	BDL	....
SCRAP YARD	10/06/16	73.26		22.32	18.52	12.58	....	BDL
SCRAP YARD	12/06/16	78.47		19.34	6.04	14.81	BDL	....
SCRAP YARD	14/06/16	56.25		23.73	15.30	12.00	BDL	....
SCRAP YARD	16/06/16	61.11	58.9	30.51	24.96	20.58	....	BDL
SCRAP YARD	18/06/16	54.86		43.28	21.25	24.67	BDL	...
SCRAP YARD	20/06/16	45.83		37.40	20.50	22.21	...	BDL
SCRAP YARD	22/06/16	65.28		21.61	17.88	11.43	BDL	...
SCRAP YARD	24/06/16	52.43	59.5	25.18	22.56	13.72	...	BDL
SCRAP YARD	26/06/16	58.33		26.77	20.13	12.00	BDL	...
SCRAP YARD	28/06/16	63.54		33.90	24.16	20.58	...	BDL
SCRAP YARD	30/06/16	81.04	59.3	22.03	16.91	24.01	BDL	...
	Maximum	82	59	43	30	45	0	0
	Minimum	46	56	19	6	9	0	0
	Average JUNE-16	66	59	29	20	20	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JUNE - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m3	PM 2.5 60 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/06/16	43.05	57.3	44.07	26.60	128.50	....	BDL
ETP AREA	04/06/16	67.88		21.60	20.94	85.10	BDL	....
ETP AREA	06/06/16	75.00		30.05	18.52	29.73	....	BDL
ETP AREA	08/06/16	78.47	59.1	44.35	16.10	95.83	BDL	....
ETP AREA	10/06/16	58.85		27.47	21.33	71.46	....	BDL
ETP AREA	12/06/16	56.25		29.92	21.74	26.20	BDL	....
ETP AREA	14/06/16	66.60		22.03	25.77	90.33	BDL	....
ETP AREA	16/06/16	78.47	58.4	31.26	24.96	37.16	....	BDL
ETP AREA	18/06/16	70.14		32.10	17.31	77.75	BDL	...
ETP AREA	20/06/16	46.82		34.67	16.76	91.63	...	BDL

ETP AREA	22/06/16	68.95		26.60	20.50	66.32	BDL	...
ETP AREA	24/06/16	57.64	59.9	22.26	19.33	63.63	...	BDL
ETP AREA	26/06/16	54.34		19.24	21.74	69.75	BDL	...
ETP AREA	28/06/16	63.02		23.73	20.13	63.51	...	BDL
ETP AREA	30/06/16	63.02	59.7	28.00	21.74	37.16	BDL	...
	Maximum	78	60	44	27	129	0	0
	Minimum	43	57	19	16	26	0	0
	Average JUNE-16	63	59	29	21	69	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT.

MONTH JUNE - 2016

AREA/ LOCATION	DATE	PM 10 100 µg/m ³	PM 2.5 60 µg/m ³	SO ₂ 80 µg/m ³	NO _X 80 µg/m ³	NH ₃ 400 µg/m ³	HCL 200 µg/m ³	CHLORINE 100 µg/m ³
MAIN GATE	02/06/16	42.18	52.7	20.34	19.30	2.30	....	BDL
MAIN GATE	04/06/16	54.34		27.42	16.91	6.90	BDL	....
MAIN GATE	06/06/16	71.87		24.90	19.33	8.33	....	BDL
MAIN GATE	08/06/16	54.16	58.4	27.30	8.86	5.72	BDL	....
MAIN GATE	10/06/16	62.32		20.00	16.96	4.00	....	BDL
MAIN GATE	12/06/16	36.63		25.76	18.52	9.15	BDL	....
MAIN GATE	14/06/16	39.54		21.20	15.30	10.30	BDL	....
MAIN GATE	16/06/16	47.22	59.2	18.58	20.94	2.86	....	BDL
MAIN GATE	18/06/16	21.01		27.03	20.13	14.86	BDL	...
MAIN GATE	20/06/16	22.74		23.12	25.33	37.56	...	BDL
MAIN GATE	22/06/16	42.18		19.34	19.33	8.05	BDL	...
MAIN GATE	24/06/16	68.23	59.6	20.98	13.29	17.15	...	BDL
MAIN GATE	26/06/16	73.09		17.57	18.12	13.15	BDL	...
MAIN GATE	28/06/16	75.34		28.81	16.11	12.58	...	BDL
MAIN GATE	30/06/16	89.41	59.8	18.64	18.52	6.86	BDL	...
	Maximum	89	60	29	25	38	0	0
	Minimum	21	53	18	9	2	0	0
	Average JUNE-16	53	58	23	18	11	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

(By Enpro Enviro Tech & Engineers Pvt. Ltd)

Month	LOCATION	DATE OF	PM _{2.5}	RSPM (PM ₁₀)	SO _x	NO _x	HCL	NH ₃	H ₂ S	H.C.	CL ₂	HF
	Limit	SAMPLING	60 µg /m ³	100 µg /m ³	80 µg /m ³	80 µg /m ³	200 µg /m ³	400 µg /m ³	500 µg /m ³	160 µg /m ³	100 µg /m ³	60 µg /m ³
Jan-16	Nr Boiler area	22.01.2016	35.2	71.5	28.6	31.8	36.3	23.8	BDL	BDL	BDL	BDL
Feb-16	Nr Boiler area	25.02.2016	49.2	84.6	26.4	33.5	42.8	20.3	BDL	BDL	BDL	BDL
Mar-16	Nr Boiler area	22.03.2016	39.2	75.7	23.8	25.6	46.3	25.1	BDL	BDL	BDL	BDL
Apr-16	Nr Boiler area	25.04.2016	48.2	89.7	27.6	33.1	52.9	22.1	BDL	BDL	BDL	BDL
May-16	Nr Boiler area	27.05.2016	42.1	83.4	21.9	26.7	44.6	18.5	BDL	BDL	BDL	BDL
Jun-16	Nr Boiler area	18.06.2015	46.5	77.1	28.6	34.2	38.7	24.3	BDL	BDL	BDL	BDL

STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd):JAN-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH ₃	NO _x	SPM	SO ₂	H ₂ S		
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³		
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	22.01.2016	BDL	BDL	BDL	11.5	BDL	7.4			
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)										
3	IN PHORATE PLANT STACK ATTACHED TOALKALI SCRUBBER (H ₂ S VENT)	22.01.2016							4		
4	IN PHORATE PLANT STACK ATTACHED TO P ₂ S ₅ CHARGING HOOPER										
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER										
6	IN ACEPHATE PLANT STACK ATTACHED TO NH ₃ SCRUBBER	22.01.2016			16.6						
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER										
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	22.01.2016	9.7								
9	BOILER GT-3507	22.01.2016				14.1	BDL	BDL			
10	BOILER GT-3201	22.01.2016				12.4	BDL	BDL			
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM DISMANTLED									

STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): FEB-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH ₃	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	25.02.2016	BDL	BDL	BDL	12.3	BDL	9.5	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H ₂ S VENT)	25.02.2016							3.4

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	25.02.2016			14.8				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	25.02.2016	12.7						
9	BOILER GT-3507	25.02.2016				9.9	BDL	BDL	
10	BOILER GT-3201	25.02.2016				10.8	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): MAR-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	21.03.2016	BDL	BDL	BDL	10.1	BDL	6.9	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	21.03.2016							2.9
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	21.03.2016			17.1				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	21.03.2016	14.8						
9	BOILER GT-3507	21.03.2016				11.5	BDL	BDL	
10	BOILER GT-3201	21.03.2016				13.5	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): APR-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	25.04.2016	BDL	BDL	BDL	17.8	BDL	10.6	
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H ₂ S VENT)	25.04.2016							3.6
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TO NH ₃ SCRUBBER	25.04.2016			15.9				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	25.04.2016	10.8						
9	BOILER GT-3507	25.04.2016				13.1	BDL	BDL	
10	BOILER GT-3201	25.04.2016				8.3	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): MAY-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR								
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H ₂ S VENT)								
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TO NH ₃ SCRUBBER	26.05.2016			13.7				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER								
9	BOILER GT-3507	26.05.2016				9.8	BDL	BDL	
10	BOILER GT-3201	26.05.2016				12.8	BDL	BDL	

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

STACK MONITORING REPORT (By ENPRO Enviro Tech & Engineers Pvt. Ltd): JUN-2016

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR								
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H ₂ S VENT)	18.06.2016							3.6
4	IN PHORATE PLANT STACK ATTACHED TO P ₂ S ₅ CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TO NH ₃ SCRUBBER	18.06.2016			18.5				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TO WATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER								
9	BOILER GT-3507								
10	BOILER GT-3201								
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By Our Internal Lab): JAN-2016

Q.A. DEPT. STACK MONITORING REPORT MONTH JANUARY - 2016									
Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO _x	SPM	SO ₂	H ₂ S
			20 mg/Nm ³	5.0 mg/Nm ³	30 mg/Nm ³	50 mg/Nm ³	20 mg/Nm ³	40 mg/Nm ³	5.0 mg/Nm ³
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/01/16 20/01/16	BDL	BDL	BDL	15.4	2.0	28.8	BDL
Plant not in operation									

2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/01/16 20/01/16							Plant not in operation
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/01/16 20/01/16							Plant not in operation 1.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/01/16 20/01/16							Plant not in operation 2.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/01/16 20/01/16							Plant not in operation BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/01/16 20/01/16			Plant not in operation				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/01/16 20/01/16	Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/01/16 20/01/16	Plant not in operation						

STACK MONITORING REPORT (By Our Internal Lab):FEB-2016

Q.A. DEPT.

STACK MONITORING REPORT

MONTH FEBRUARY - 2016

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	05/02/16 22/02/16	BDL BDL	BDL BDL	BDL BDL	17.0 16.2	3.7 4.2	26.5 28.4	BDL BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/02/16 22/02/16							Plant not in operation
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/02/16 22/02/16							2.0 Plant not in operation
4	IN PHORATE PLANT STACK ATTACHED TO	05/02/16							4.0

	P2S5 CHARGING HOOPER	22/02/16							Plant not in operation
5	IN PHORATE PLANT STACK ATTACHED TO	05/02/16							BDL
	LOCAL VENT CARBON FILTER	22/02/16							Plant not in operation
6	IN ACEPHATE PLANT STACK ATTACHED TO	05/02/16			Plant not in operation				
	NH3 SCRUBBER	22/02/16			2.0				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO	05/02/16	Plant not in operation						
	WATER SCRUBBER	22/02/16							
8	IN DEVRINOL PLANT STACK ATTACHED TO	05/02/16	Plant not in operation						
	CPC SCRUBBER	22/02/16	12.0						

STACK MONITORING REPORT (By Our Internal Lab): MAR-2016

Q.A. DEPT.

STACK MONITORING REPORT

MONTH MARCH- 2016

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	07/03/16	BDL	BDL	BDL	16.6	3.3	26.4	BDL
		21/03/16	BDL	BDL	BDL	8.4	5.6	25.2	BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	07/03/16 21/03/16							Plant not in operation
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	07/03/16							1.0
		21/03/16							2.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	07/03/16							4.0
		21/03/16							3.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	07/03/16							BDL
		21/03/16							BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	07/03/16			22.0				
		21/03/16			4.0				

	ALKALI SCRUBBER (H2S VENT)	20/06/16							5.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/06/16 20/06/16							3.0 4.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/06/16 20/06/16							BDL BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/06/16 20/06/16			8.0 2.0				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/06/16 20/06/16	Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/06/16 20/06/16	Plant not in operation						

BOILER STACK MONITORING REPORT – JAN 2016

BOILER STACK MONITORING REPORT – FEB 2015

STACK MONITORING REPORT					
Q.A. DEPT.		MONTH FEB – 2015			07/07/15
	AREA IDENTIFICATION	DATE OF	SPM	SO2	NOX
	(STACK)	SAMPLING	150 mg/Nm3	100 mg/Nm3	50 mg/Nm3
1	STACK ATTACHED TO	04/02/15	5.3	6.6	0.9
	BOILER GT-3507	20/02/15	7.0	7.9	0.6
	STACK ATTACHED TO				
2	BOILER GT-3201	06/02/15	Plant not in operation		
		23/02/15	Plant not in operation		
3	ATTACHED TO	Remarks:-	When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		
	AQUEOUS & SOLID WASTE INCINERATOR				

BOILER STACK MONITORING REPORT – MARCH 2016

STACK MONITORING REPORT					
Q.A. DEPT.		MONTH MAR – 2015			07/07/15
Sr. No.	AREA IDENTIFICATION	DATE OF	SPM	SO2	NOX
	(STACK)	SAMPLING	150 mg/Nm3	100 ppm	50 ppm

1	STACK ATTACHED TO BOILER GT-3507	05/03/15 19/03/15	6.1 7.9	11.1 9.3	3.7 2.1
2	STACK ATTACHED TO BOILER GT-3201	12/03/15 28/03/15	14.0 Plant not in operation	11.6	2.8
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.			

BOILER STACK MONITORING REPORT – APR 2016

STACK MONITORING REPORT

Q.A. DEPT.

MONTH APR – 2015

07/07/15

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	04/04/15 20/04/15	14.0 16.3	11.6 5.0	1.8 3.3
2	STACK ATTACHED TO BOILER GT-3201	14/04/15 27/04/15	Plant not in operation Plant not in operation		
3	STACK ATTACHED TO DG – 1 DG – 2	06/04/15 21/04/15	22.3 12.36	19.4 18.3	5.2 4.4
4	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:- When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.			

BOILER STACK MONITORING REPORT –MAY 2016

STACK MONITORING REPORT

Q.A. DEPT.

MONTH MAY - 2015

07/07/15

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 mg/Nm3	NOX 50 mg/Nm3
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Near Main Gate	45.4	42.2	42.6	41.8	46.8	45.1	45.6	43.2
Near Tank Farm Area	48.3	52.2	40.6	40.2	50.8	47.4	49.2	48.8
B/H Alcohol Plant	42.3	58.0	39.6	39.2	48.6	47.2	43.6	43.4
Between DMMP & Boiler	58.3	56.9	54.3	54.2	62.3	61.8	62.8	62.6
Between ETP / Incinerator	52.2	60.2	56.8	56.6	54.6	50.3	64.6	64.5
B/H Acephate Plant	58.8	61.8	42.0	42.0	60.6	60.4	68.2	68.0
Near Canteen	52.2	53.5	39.8	39.2	53.8	53.1	56.4	55.2
B/H Evaporation Pond Towards road side	54.8	56.2	55.2	53.4	55.6	55.2	63.2	61.5
DG Room Outside (1 Meter distance in ambient)	68.5	69.4	65.6	64.2	69.5	69.2	69.8	69.6
Inside Boiler House	65.5	67.4	62.6	62.3	67.8	67.5	68.1	68.0
Near Phorate Fume Incinerator	52.8	58.6	55.7	55.5	56.8	56.4	57.6	57.2
Phorate utility (kc-12)	65.3	66.0	69.8	69.7	69.8	69.6	69.2	69.0
Acephate utility (kc-12)	Plant not in operation		Plant not in operation		69.9	69.5	71.2	70.0
Mecl utility (kc-93)	69.2	69.0	65.8	65.6	69.5	69.4	70.0	70.0

NOISE MONITORING REPORT

IDENTIFICATION

: PLANT AREA, UPL-2

DATE OF ANALYSIS

:
05/03/16 21/03/16 05/04/16 20/04/16

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE ==> TIME ==> LIMIT ==>	5/3/16		21/03/16		5/4/16		20/04/16	
	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	50.6	49.2	51.0	41.2	51.0	48.1	51.6	49.4
Near Tank Farm Area	59.6	58.8	47.8	46.2	48.3	47.6	48.6	48.2
B/H Alcohol Plant	42.3	42.2	52.1	50.3	50.6	48.0	50.4	49.0
Between DMMP & Boiler	58.2	58.0	56.2	55.6	56.1	56.0	56.8	50.2
Between ETP / Incinerator	60.6	60.2	54.8	54.0	57.8	52.2	53.8	53.6
B/H Acephate Plant	64.4	64.2	59.8	59.2	52.6	52.4	63.8	63.2
Near Canteen	55.4	55.1	55.8	55.4	54.1	53.8	55.2	55.0
B/H Evaporation Pond Towards road side	60.3	60.0	60.5	54.3	55.6	54.8	60.5	58.4
DG Room Outside (1 Meter distance in ambient)	68.6	68.2	69.2	69.1	62.2	68.0	69.2	69.1
Inside Boiler House	67.8	67.5	67.2	66.8	66.8	66.6	67.0	67.4
Near Phorate Fume Incinerator	52.6	51.9	59.6	59.4	52.5	52.1	66.2	60.1
Phorate utility (kc-12)	67.2	67.1	62.2	62.0	68.2	68.0	68.4	68.2
Acephate utility (kc-12)	69.8	69.7	64.1	64.0	69.2	69.1	69.2	69.0
Mecl utility (kc-93)	69.8	69.5	68.8	68.6	69.8	69.8	69.8	69.8

NOISE MONITORING REPORT

IDENTIFICATION

: PLANT AREA, UPL-2

DATE OF ANALYSIS

:
05.05.16 21.05.16 06.06.16 20.06.16

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE ==> TIME ==> LIMIT ==>	5/5/16		21/05/16		6/6/16		20/06/16	
	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	41.6	39.2	42.4	40.4	42.8	41.9	45.8	45.2
Near Tank Farm Area	45.2	41.6	43.8	40.1	42.6	42.2	43.6	42.8
B/H Alcohol Plant	50.6	49.2	51.5	50.3	40.3	39.8	42.6	42.4
Between DMMP & Boiler	67.5	67.2	67.2	67.0	52.1	51.8	65.6	65.4
Between ETP / Incinerator	65.6	62.2	66.2	62.5	63.8	63.5	64.8	64.4
B/H Acephate Plant	58.2	57.6	60.3	60.2	61.2	60.8	65.2	64.8
Near Canteen	58.2	58.0	57.4	57.0	54.6	54.4	55.6	55.5
B/H Evaporation Pond Towards road side	62.2	60.3	69.2	65.5	60.3	59.8	62.6	62.1
DG Room Outside (1 Meter distance in ambient)	69.5	69.5	69.5	69.2	69.5	69.4	70.3	70.0
Inside Boiler House	68.2	68.2	68.8	68.5	65.8	65.2	68.3	68.2
Near Phorate Fume Incinerator	63.8	63.5	65.7	65.5	61.2	61.0	64.2	64.0
Phorate utility (kc-12)	69.8	69.5	69.2	69.2	62.3	62.1	68.6	68.4
Acephate utility (kc-12)	70.0	70.0	70.0	69.8	69.2	69.2	69.6	69.2
Mecl utility (kc-93)	69.6	69.4	70.2	70.0	70.2	70.1	70.5	70.0

Toxicity factor monitoring details for ETP out let water going to RO System -Zero discharge Unit

Carried out with carbon bed outlet sample (05 Fish) : JAN-2016

PRODUCT : TOXICITY FACTOR

IDENTIFICATION : ETP TREATED WATER

Q.A. DEPT. :MONTH JAN-2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
02.01.2016	7.5	80	24	1880	1	ZIBRA
05.01.2016	7.9	67	22	1880	1	ZIBRA
08.01.2016	8.3	79	26	1680	1	ZIBRA
11.01.2016	8.1	63	18	1570	1	ZIBRA

14.01.2016	8.4	80	26	1600	1	ZIBRA
17.01.2016	8.4	71	20	1470	1	ZIBRA
20.01.2016	8.4	80	26	1400	1	ZIBRA
23.01.2016	8.2	84	24	1470	1	ZIBRA
26.01.2016	7.8	84	26	1490	1	ZIBRA
29.01.2016	7.4	96	26	1500	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System- Zero discharge Unit

Carried out with carbon bed outlet sample (05 Fish) :FEB-2016

PRODUCT : TOXICITY FACTOR

IDENTIFICATION : ETP TREATED WATER

Q.A. DEPT. :MONTH FEBRUARY-2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
01.02.2016	6.7	92	28	1400	1	ZIBRA
04.02.2016	6.6	98	30	1130	1	ZIBRA
07.02.2016	6.7	96	28	1340	1	ZIBRA
10.02.2016	6.7	95	28	1350	1	ZIBRA
13.02.2016	7.9	70	21	1390	1	ZIBRA
16.02.2016	7.8	79	24	1450	1	ZIBRA
19.02.2016	7.5	83	26	1470	1	ZIBRA
22.02.2016	7.1	82	25	1380	1	ZIBRA
25.02.2016	7.0	95	28	1390	1	ZIBRA
28.02.2016	7.0	91	26	1330	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System - Zero discharge Unit

Carried out with carbon bed outlet sample (05 Fish) :MAR-2016

PRODUCT : TOXICITY FACTOR

IDENTIFICATION : ETP TREATED WATER

Q.A. DEPT. :MONTH MARCH-2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
02.03.2016	6.8	89	26	1430	1	ZIBRA
05.03.2016	7.6	93	28	1550	1	ZIBRA
08.03.2016	7.0	89	26	1530	1	ZIBRA
11.03.2016	7.4	93	26	1450	1	ZIBRA
14.03.2016	6.6	97	30	1390	1	ZIBRA
17.03.2016	6.5	95	28	1500	1	ZIBRA
20.03.2016	6.3	91	26	1530	1	ZIBRA
23.03.2016	7.5	98	30	1570	1	ZIBRA
26.03.2016	7.4	86	26	1300	1	ZIBRA
29.03.2016	7.8	78	24	1600	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System - Zero discharge Unit

Carried out with carbon bed outlet sample (05 Fish) :APR-2016

PRODUCT : TOXICITY FACTOR

IDENTIFICATION : ETP TREATED WATER

Q.A. DEPT. :MONTH APRIL-2016

RESULTS OF ANALYSIS

LOCATION

RESULTS

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
02.04.2016	7.5	78	24	1430	1	ZIBRA
05.04.2016	7.7	85	26	1550	1	ZIBRA
08.04.2016	7.7	76	30	1530	1	ZIBRA
11.04.2016	7.9	80	24	1450	1	ZIBRA
14.04.2016	8.5	84	24	1390	1	ZIBRA
17.04.2016	8.5	98	28	1500	2	ZIBRA
20.04.2016	7.6	84	30	1530	1	ZIBRA
23.04.2016	7.2	98	30	1570	2	ZIBRA
26.04.2016	7.3	96	28	1300	2	ZIBRA
29.04.2016	7.7	97	30	1700	2	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System - Zero discharge Unit

Carried out with carbon bed outlet sample (05 Fish) :MAY-2016

PRODUCT : TOXICITY FACTOR

IDENTIFICATION :ETP TREATED WATER

Q.A. DEPT. :MONTH MAY-2016

RESULTS OF ANALYSIS

LOCATION

RESULTS

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
02.05.2016	7.3	97	26	1320	2	ZIBRA
05.05.2016	6.9	92	30	1680	1	ZIBRA
08.05.2016	7.3	80	26	1690	1	ZIBRA

11.05.2016	7.7	92	28	1860	1	ZIBRA
14.05.2016	7.9	80	24	1730	1	ZIBRA
17.05.2016	7.7	83	24	1550	1	ZIBRA
20.05.2016	7.7	92	30	1660	1	ZIBRA
23.05.2016	7.6	82	26	1530	1	ZIBRA
26.05.2016	7.7	78	22	2040	1	ZIBRA
29.05.2016	7.7	87	26	1740	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System
 Carried out with carbon bed outlet sample (05 Fish) :JUN-2016 - Zero discharge Unit

PRODUCT : TOXICITY FACTOR

IDENTIFICATION : ETP TREATED WATER

Q.A. DEPT. : MONTH JUNE-2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
01.06.2016	7.3	92	28	1680	1	ZIBRA
04.06.2016	7.9	89	27	1580	1	ZIBRA
07.06.2016	7.5	83	28	1340	1	ZIBRA
10.06.2016	7.4	95	30	1600	2	ZIBRA
13.06.2016	7.0	99	30	1460	2	ZIBRA
16.06.2016	7.0	99	30	1400	2	ZIBRA
19.06.2016	6.5	95	28	1440	1	ZIBRA
22.06.2016	7.0	89	28	1420	1	ZIBRA
25.06.2016	7.3	97	28	1640	2	ZIBRA
28.06.2016	7.4	93	28	1620	1	ZIBRA

BIO ASSAY TEST for ETP out let water going to RO System - JAN 2016 - Zero discharge Unit

PRODUCT : BIO - ASSAY STUDY

Date: 23/07/2016

IDENTIFICATION : ETP Treated WATER

Q.A. DEPT. : MONTH JANUARY - 2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	REMARKS
02.01.2016	7.5	80	24	1880	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
05.01.2016	7.9	67	22	1880	"
08.01.2016	8.3	79	26	1680	"
11.01.2016	8.1	63	18	1570	"
14.01.2016	8.4	80	26	1600	"
17.01.2016	8.4	71	20	1470	"
20.01.2016	8.4	80	26	1400	"
23.01.2016	8.2	84	24	1470	"
26.01.2016	7.8	84	26	1490	"
29.01.2016	7.4	96	26	1500	"

BIO ASSAY TEST for ETP out let water going to RO System – FEB 2016 - Zero discharge Unit

PRODUCT : BIO - ASSAY STUDY

Date: 23/07/2016

IDENTIFICATION : EFFLUENT DISCHARGE WATER

RESULTS OF ANALYSIS

MONTH FEBRUARY- 2016

DATE	pH	COD	BOD	TDS	REMARKS
01.02.2016	6.7	92	28	1400	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
04.02.2016	6.6	98	30	1130	"
07.02.2016	6.7	96	28	1340	"
10.02.2016	6.7	95	28	1350	"
13.02.2016	7.9	70	21	1390	"
16.02.2016	7.8	79	24	1450	"
19.02.2016	7.5	83	26	1470	"
22.02.2016	7.1	82	25	1380	"
25.02.2016	7.0	95	28	1390	"
28.02.2016	7.0	91	26	1330	"

BIO ASSAY TEST for ETP out let water going to RO System – MAR 2016

PRODUCT : BIO - ASSAY STUDY

Date: 23/07/2016

IDENTIFICATION : EFFLUENT DISCHARGE WATER

Q.A. DEPT. : MONTH MARCH - 2016

RESULTS OF ANALYSIS

LOCATION		RESULTS				
02.03.2016	6.80	89	26	1430	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs	
05.03.2016	7.62	93	28	1550	"	
08.03.2016	7.00	89	26	1530	"	
11.03.2016	7.35	93	26	1450	"	
14.03.2016	6.64	97	30	1390	"	
17.03.2016	6.50	95	28	1500	"	
20.03.2016	6.30	91	26	1530	"	
23.03.2016	7.46	98	30	1570	"	
26.03.2016	7.36	86	26	1300	"	
29.03.2016	7.78	78	24	1600	"	

BIO ASSAY TEST for ETP out let water going to RO System FOR APR 2016 - Zero discharge Unit

PRODUCT : BIO - ASSAY STUDY

IDENTIFICATION : EFFLUENT DISCHARGE WATER

Q.A. DEPT. : MONTH APRIL - 2016

RESULTS OF ANALYSIS

DATE	pH	COD	BOD	TDS	REMARKS
02.04.2016	7.5	78	24	1430	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
05.04.2016	7.7	85	26	1550	"
08.04.2016	7.7	76	30	1530	"
11.04.2016	7.9	80	24	1450	"
14.04.2016	8.5	84	24	1390	"
17.04.2016	8.5	98	28	1500	"
20.04.2016	7.6	84	30	1530	"
23.04.2016	7.2	98	30	1570	"
26.04.2016	7.3	96	28	1300	"
29.04.2016	7.7	97	30	1700	"

BIO ASSAY TEST for ETP out let water going to RO System – MAY 2016 - Zero discharge Unit

PRODUCT : BIO - ASSAY STUDY Date: 23/07/2016

IDENTIFICATION : EFFLUENT DISCHARGE WATER

Q.A. DEPT. : MONTH MAY – 2016

RESULTS OF ANALYSIS

LOCATION	RESULTS
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DATE	pH	COD	BOD	TDS	REMARKS
02.05.2016	7.3	97	26	1320	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
05.05.2016	6.9	92	30	1680	"
08.05.2016	7.3	80	26	1690	"
11.05.2016	7.7	92	28	1860	"
14.05.2016	7.9	80	24	1730	"
17.05.2016	7.7	83	24	1550	"
20.05.2016	7.7	92	30	1660	"
23.05.2016	7.6	82	26	1530	"
26.05.2016	7.7	78	22	2040	"
29.05.2016	7.7	87	26	1740	"

BIO ASSAY TEST for ETP out let water going to RO System – JUN 2016 - Zero discharge Unit

PRODUCT : BIO - ASSAY STUDY

IDENTIFICATION : EFFLUENT DISCHARGE WATER

Q.A. DEPT. : MONTH JUNE - 2016

DATE	pH	COD	BOD	TDS	REMARKS
01.06.2016	7.3	92	28	1680	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
04.06.2016	7.9	89	27	1580	"
07.06.2016	7.5	83	28	1340	"
10.06.2016	7.4	95	30	1600	"
13.06.2016	7.0	99	30	1460	"
16.06.2016	7.0	99	30	1400	"
19.06.2016	6.5	95	28	1440	"
22.06.2016	7.0	89	28	1420	"
25.06.2016	7.3	97	28	1640	"
28.06.2016	7.4	93	28	1620	"

**FUGITIVE EMISSIONS DATA: JAN & FEB 2016 -
(By Our Internal Lab)**

PRODUCT : FUGITIVE EMISSION
IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05/01/16 21/01/16 05/02/16 22/02/16

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER	RESULTS
			05/01/16 21/01/16 05/02/16 22/02/16
1)	P D PLANT	CL2 ppm	Plant not in operation
2)	PHORATE PLANT	EM ppm	BDL 08 ppb 18 ppb 06 ppb
3)	PHORATE PLANT	H2S ppm	BDL 12 ppb 22 ppb 16 ppb
4)	ACEPHATE PLANT	NH3 ppm	Plant not in operation 16 ppb

**FUGITIVE EMISSIONS DATA: MAR & APR 2016 -
(By Our Internal Lab)**

PRODUCT IDENTIFICATION : FUGITIVE EMISSION
DATE OF ANALYSIS : 05/03/16 21/03/16 05/04/16 21/04/16
PLANT AREA, UPL-2

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER	RESULTS			
			05/03/16	21/03/16	05/04/16	21/04/16
1)	P D PLANT	CL2 ppm			Plant not in operation	
2)	PHORATE PLANT	EM ppm	04 ppb	22 ppb	38 ppb	12 ppb
3)	PHORATE PLANT	H2S ppm	16 ppb	12 ppb	42 ppb	14 ppb
4)	ACEPHATE PLANT	NH3 ppm	64 ppb	40 ppb	116 ppb	92 ppb

**FUGITIVE EMISSIONS DATA: MAY & JUN 2016 -
(By Our Internal Lab)**

PRODUCT IDENTIFICATION : FUGITIVE EMISSION
DATE OF ANALYSIS : 05/05/16 21/05/16 05/06/16 21/06/16
PLANT AREA, UPL-2

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER	RESULTS			
			05/05/16	21/05/16	05/06/16	21/06/16
1)	P D PLANT	CL2 ppm			Plant not in operation	
2)	PHORATE PLANT	EM ppm	20 ppb	22 ppb	62 ppb	22 ppb
3)	PHORATE PLANT	H2S ppm	42 ppb	34 ppb	46 ppb	18 ppb
4)	ACEPHATE PLANT	NH3 ppm	72 ppb	42 ppb	72 ppb	32 ppb

**Monitoring of VOC & Other Pollutants (By Our Internal Lab):
JAN TO JUN 2016
(All Concentration in ppm)**

Monitoring of VOC & other pollutants : JANUARY -2016 to JUNE -2016

Date	Plant	Location - Floor	EA	Concentration in ppb / ppm										
				TOLUENE	MD C	TERBOFOS	PHORATE	ACEPHATE	PD	EM	TB M	DEVIRINOL	TM P	EDC
06.01.16	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	12 ppb	BDL	-	BDL	-
07.01.16	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	24 ppb	BDL	-	BDL	-
08.01.16	Devrinol	First	BDL	46 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.01.16	Devrinol	Second	BDL	58 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.01.16	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	06 ppb
11.01.16	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	08 ppb
12.01.16	Acephate	Ground	92 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.01.16	Acephate	First	76 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
06.02.16	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	16 ppb	BDL	-	BDL	-
07.02.16	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	28 ppb	BDL	-	BDL	-
08.02.16	Devrinol	Second	BDL	56 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.02.16	Devrinol	First	BDL	64 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL

10.02.1 6	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
11.02.1 6	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
12.02.1 6	Acephate	First	85 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.02.1 6	Acephate	Second	56 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
05.03.1 6	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	42 ppb	BDL	-	BDL	-
07.03.1 6	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	52 ppb	BDL	-	BDL	-
09.03.1 6	Devrinol	First	BDL	52 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.03.1 6	Devrinol	Second	BDL	48 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
11.03.1 6	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	8 ppb
12.03.1 6	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	06 ppb
14.03.1 6	Acephate	First	82 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
15.03.1 6	Acephate	Ground	94 ppb	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
06.04.1 6	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	26 ppb	BDL	-	BDL	-
07.04.1 6	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	32 ppb	BDL	-	BDL	-
08.04.1 6	Devrinol	Second	BDL	56 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.04.1 6	Devrinol	First	BDL	58 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.04.1 6	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	06 ppb
11.04.1 6	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	12 ppb
15.04.1 6	Acephate	Second	46 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.04.1 6	Acephate	First	52 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
04.05.1 6	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	16 ppb	BDL	-	BDL	-
07.05.1 6	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	26 ppb	BDL	-	BDL	-
08.05.1 6	Devrinol	Ground	BDL	26 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.05.1 6	Devrinol	Second	BDL	32 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
12.05.1 6	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	12 ppb
13.05.1 6	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	16 ppb
14.05.1 6	Acephate	First	62 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.05.1 6	Acephate	Second	76 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
03.06.1 6	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	06 ppb	BDL	-	BDL	-
07.06.1 6	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	08 ppb	BDL	-	BDL	-
09.06.1 6	Devrinol	First	BDL	29 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
11.06.1 6	Devrinol	Second	BDL	24 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
12.06.1 6	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	06 ppb
14.06.1 6	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	04 ppb
15.06.1 6	Acephate	Ground	98 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.06.1 6	Acephate	First	82 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL

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