UPL

Ref: U2/15
July 28, 2015

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

Dr. A Mehrotra, Director (S)
Ministry of Environment and Forests
Western Region Office
KendriyaParyavaranBhavan
Link Road # 3, E – 5, RaviShankar Nagar
Bhopal – 462 016 (M.P)

Dear Sir;

Sub: - Half yearly Compliance Report to conditions of Environmental Clearance (Jan to June 2015)

Ref: - (1) Environmental Clearance #J.11C11/77/2002-IA.II dated 17.07.2003
(2) Environmental Clearance #J-11011/1281/2007-IA(II) dated 15.04.2008

Kindly refer above Environmental Clearance #J.11011/77/2002-IA.II dated 17.07.2003 to our Unit#2 located at Plot no 3405/3406/3460A, GIDC Estate, Ankleshwar-393002, Dist – Bharuch, Gujarat.

We are sending herewith the compliance report along with various other required details with respect to our unit #2 for your kind reference and records. The details given arefor the period January to June 2015.

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 CC&A attached herewith. We would like to bring to your kind attention that all Environmental Management System proposed in Environment Clearance / Consent to Establish (NOC) has been implemented. Our proposed project works are completed and the status is 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

Received
Gujarat Pollution Control Board
R.O. Ankleshwar
30-9-15

- The ETP has been expanded from 300 KLD capacity to 550 KLD capacity. In the new ETP System, we have utilized Membrane Bio Reactor (MBR), an advanced technology. However, our present effluent quantity is less than 200 KLD and hence one ETP is stand-by.
- Zero discharge unit - We have installed effluent recycling system consisting of RO Plant and Evaporation System. Now unit is operating as zero discharge unit.

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

We hope that the above is in order. In case you need any additional information, we can provide the same on hearing from you.

Thanking you

Yours faithfully
For, **UPL LTD**

DR P N PARAMESWARAN
VICE PRESIDENT -ENVIRONMENT

cc: DR

Encl : a/a

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

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

GPCB XGN ID # 15832

Period January to June 2015
Compliance Report for the conditions in the
Environmental Clearance # J.11011/77/2002-IA.II dated 17.07.2003
Issued by Ministry of Environment and Forests, New Delhi
for UPL Ltd., Unit # 02, Ankleshwar, Gujarat

Condition		Status of Compliance Period: January to June 2015
No	**Description**	
The Ex Post Facto Environmental Clearance is granted for the following products; ⇒ Phorate / Turbuphos @ 3600 MT/ Year; and (6000 *MT /Yr after EC/NOC & applied for CC&A amendment)* Complied. ⇒ Acephate @ 960 MT / Year (12000 *MT/year after EC/NOC & applied for CC&A amendment) –Complied.* Land of project area is 65,625 m2. Project does not involve forest land and displacement of people. Water requirement is 340.1 m^3 / 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. 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;		

A → SPECIFIC CONDITIONS

1	Gaseous emissions (SO_2, NO_X, HCl, HC, NH_3, H_2S, 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 through internally by our lab and externally through M/s ENPRO Enviro Tech & Engineers PVT Ltd, Monitoring reports are attached for the period **January to June 2015**
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	**Complied** 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. Fume incinerator is in operation Monitoring results are attached for period **January to June 2015**
3	Process emissions (H_2S, 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	**Complied.** Scrubbers with appropriate scrubbing media are in operation and the emission parameters are within limits VOC Monitoring is done and monitoring reports are attached. Monitoring results are attached for period **January to June 2015**

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Condition		Status of Compliance Period: January to June 2015
No	**Description**	
4	As reflected in EIA / EMP Report, effluent generation not to exceed 218 m^3 / day. To reduce organic load, various effluent streams to be segregated and following treatment system to be followed; ⇒ 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; ⇒ 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	**Complied** Summarized data of effluent generation and treatment is attached herewith for the period **January to June 2015.** **Complied**. The Unit is recycling total effluent using RO System and evaporation system. Unit is operating as zero discharge units since May 14. Complied. Organic waste and Aqueous waste are being sent to common Incinerator, BEIL Ankleshwar for incineration. **Complied** 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 2015** is attached herewith **Complied** 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 2015** is attached herewith **Complied** Primary, secondary and tertiary treatment facilities are in operation. The Company has membership of Common Conveyance & Treatment System operated by NCTL. However, the Unit is operating as zero discharge unit since May 2014 **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 2015** is attached herewith 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.

Period January to June 2015
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Condition		Status of Compliance Period: January to June 2015
No	**Description**	
5	Company to recover MECL (CH_3CL) by installation of CH_3CL 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 96 %**
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 2015**
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 is dismantled and not in operation.** VOC monitoring being done and details are attached for the period **January to June 2015**
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 2015**

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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_2S_5 handling system with tote bins to prevent spillages. To reduce decontamination and disposal, company to re cycle the drums	**Complied.** This is an ongoing activity. • 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 96%. • 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	**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	Company to comply with environmental protection measures and safeguards recommended in EIA / EMP / RRA Reports as well as recommendations of Public Hearing Panel	**Complied.**
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	**Complied.** This is an ongoing activity. During **January to June 2015,** about 170 nos saplings have been planted. Moreover, we have developed greenery in front of our Unit

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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	**Complied.** 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.
B → GENERAL CONDITIONS		
1	Company to adhere to stipulations made by GPCB	**Complied.** 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
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	**Complied.** 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 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.
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	**Complied.** The company is having various statutory licenses and approvals
4	Company to comply with HWM Rules and authorization from GPCB to be obtained	**Complied.** CC&A # AWH-57916 dated 24.10.2013 CC&A amendment AWH#65674 dated 11.05.2015which is valid up to 02.08.2018. Copy is attached herewith.

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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)	**Complied.** Noise levels are being monitored and found to be within limits Noise levels monitoring done internally &reports are attached herewith for the period **January to June 2015.**
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.	**Complied.** The company is having full time medical doctor and also OHC. Pre-employment and routine medical examinations are being carried out. Regular BCA test for employees is also being carried out. All medical records are being maintained. Every two years, complete medical examination is carried out. The frequency of check-up is as follows; • Blood Cholinesterase Activity (BCA) Test is carried out every 15 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, Lever Function, Kidney Function, Creatinine, Blood Sugar, Electro Cardiogram, X Ray for chest and Sonography etc During the period **January to June 15,** Medical checkup done for 311 No's employees.
7	A separate Environment Management Cell with full-fledged laboratory to be set up to carry out the environmental management and monitoring functions	**Complied.** 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

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Condition		Status of Compliance Period: January to June 2015
No	**Description**	
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**

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Condition		Status of Compliance Period: January to June 15
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	Devrinol**or**Metabromuron	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 NCTL.
2	Terbuphos/Phorate (Combined Capacity)	200	500	
3	Acephate**or**Metamitron	160 **or** 60	1000 **or** 60	
4	Phosphamidon (PD) or Surflan	100 **or** 40	100 **or** 40	
5	Dichlorovos (DDVP)	85	85	
6	Monocrotophos	-	100	
7	Acetamapride **or** Imidacloprid	-	100 **or** 50	
8	Metribuzin	-	50	
	Total (Maximum)	**685**	**2235**	
Other Products-Intermediate Chemicals				
9	Di Ethyl ThioPhosphory Chloride (DETCL)	160	160	
10	Para Chloro Ortho Cresol (PCOC)	96	96	
11	Di Methyl Phosphorus AmidoThionate (DMPAT)	110	110	
12	Di Methyl MethylPhosphonate (DMMP)	100	100	
13	Di Ethyl Thio Phosphoric Acid (DETA)/Zinc Di Thio Phosphate (ZNDTP)	300/150 500	600/ 400 1000	
14	Noflan	-	8	
15	Absolute Alcohol	420	420	
	Total (Maximum)	**1386**	**1894**	

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Condition		Status of Compliance Period: January to June 15
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 m^3 / day. Solid waste in form of ETP Sludge (7.5 MT / Month), incinerator ash (9.0 MT/Month) and Inorganic Salts from Evaporation System (30 MT / Month) will be disposed off in BEIL landfill. Public Hearing was done on 16.01.2002. GPCB has granted NOC for 300 MT / Month of Phorate / Turbuphos on 17.11.1995; and 80 MT / Month of Acephate on 02.04.1996. Cost of the project is Rs 16.50 Crores.

The water 1,043 KLD will be sourced from the GIDC water supply. The waste water 533 KLD will be treated in the existing ETP after up gradation. The existing ETP is of 300 KLD capacity and upto tertiary treatment which shall be increased to 600 KLD. High TDS water is being forced evaporated and High COD effluent is being chemically treated with H_2O_2 followed by ETP treatment. H_2S, NH_3, HCl and Cl_2 will be the main process emissions which will be scrubbed in water and/or caustic scrubbers. Stack height with all the reactors, incinerators and boilers shall be 30 m. For odour control, vapour incinerator has been installed. For H_2S, 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;

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Condition		Status of Compliance Period: January to June 15
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 17th 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 17th 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, 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_2S and Cl_2 from the stack and data shall be submitted with reports	Complied. For Chlorine, Ammonia and H2S, 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 15
No	**Description**	
7	The gaseous emissions (SO_2, NOx, HCl, Cl_2, H_2S, 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, NOx, HCl, Cl_2, H_2S, 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 15
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	Complied. 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 The scrubbed water is segregated and the recovered HcL and NASH are sold as by-products. The lean scrubbed water is taken to ETP
13	The project authorities shall provide the chilled brine solution in secondary condenser for condensation of the VOCs. The project authority shall ensure that the solvent recovery shall not be less than 95%	Complied. We have provided chilled brine in the secondary condenser Solvent recovery is above 96%. We are monitoring VOC& results are attached herewith.
14	Solvent management shall be as follows : A. Reactor shall be connected to chilled brine condenser system B. Reactor and solvent handling pump shall have mechanical seals to prevent leakages C. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery D. Solvents shall be stored in a separate space specified with all safety measures E. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done F. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Noted & complied. All rector vents are connected to common Condenser or Fume incinerator. Reactor and pumps are provided mechanical seal. Solvent recovery is above 96% For Hazardous chemicals/solvent storage, taken all safety measures. Electrical earthling provided to all storage tanks / equipment's. We are using flameproof fittings in solvent storage area and plants. Breather valves are provided on storage tanks
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	Complied. We have internal monitoring for Fugitive emission and monitoring results are attached. We are using photovac hand-held VOC monitor

Period January to June 15
Compliance Report for the conditions in the
Environmental Clearance No J-11011/1281/2007-IA(II) dated 15.04.2008
Issued by Ministry of Environment and Forests, New Delhi
for UPL Ltd., Unit # 2, Ankleshwar, Gujarat

Condition		Status of Compliance Period: January to June 15
No	**Description**	
16	For control of fugitive emission and VOCs following steps shall be followed : A. Closed handling system shall be provided for chemicals B. Reflux condenser shall be provided over reducer C. Solvent handling pump shall be provided with mechanical seals to prevent leakages D. System of leak detection and repair of pump/pipeline based on preventive maintenance E. Solvent shall be taken from underground storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.	Noted and complied. 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. Closed pipe line systems are used for transfer of solvents. Solvent traps with condensers are provided
17	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	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.
18	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N_2 blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary	Noted & complied. We have provided Nitrogen Blanketing for Ethyl Mercaptan, Tertiary Butyl Mercaptan storage etc. The vents from storages are connected to Fume Incinerator. Closed handling system is followed for all hazardous chemicals. Pumps are provided with mechanical seals. For certain chemicals like Ethyl Mercaptan, TMP, we are using seal-less pumps (magnetic pumps) Solvent traps are provided and chilled brine condensers are in operation. VOC monitoring is carried out on regular basis.

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Condition		Status of Compliance Period: January to June 15
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	Noted & Complied. Vapour recovery system and condensate collection system is provided. We have an LDAR program in place. Regular inspections are carried out with reference to plant operations like Pumps, Valves, Pipes etc, as per maintenance software (SAP). Preventive Maintenance Program as per SAP Regular Ambient Air and VOC monitoring 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
20	Entire quantity of the ETP sludge (27.5 MTM), Incineration Ash (18 MTM), & Salts from evaporation system (272 MTM) shall be sent to the M/s. BEIL for secured landfilling. Discarded Drums/Containers (3500 Nos. per month) shall be decontaminated and sold to approved scrap vendors and Used oil (1600 LTM) shall be sold to the approved recyclers. Filter Aid inert (3.25 MTM), Process Organic liquid/solid waste (772.525 MTM), and Aqueous liquid waste (644 MTM) shall be sent to Incinerator	Complied. We 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
21	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains	Complied. Dyke walls are constructed for storages. Separate storm water drains are available
22	The company shall make adequate arrangement for control of odour nuisance from the plant premises. There shall be no odour from the unit	Noted & complied. Closed handling is followed to avoid odour nuisance. Fume incinerator provided to control odorous compounds
23	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Noted & complied. We have regular medical checkup for all employees.
24	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling	Noted & complied. We have adequate fire hydrant system and fire extinguishers to control fire.

Period January to June 15
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Condition		Status of Compliance Period: January to June 15
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
B → GENERAL CONDITIONS		
1	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body	Noted & complied
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	Noted & complied
3	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes	Noted & complied.
4	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board	Noted & complied. We have three Ambient Air monitoring stations and set up as per CPCB guideline.

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Condition		Status of Compliance Period: January to June 15
No	**Description**	
5	For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment	Noted & Complied. Provide Stacks height as per CPCB guideline. Scrubber water is being send to ETP for treatment
6	The company shall undertake following Waste Minimization measures :- • 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.	Noted & complied Measured quantities of raw materials are used in manufacturing 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. As per the permission given by GPCB, we are recovering by-product from waste stream Solvent recoveries are above 96 % Automated material transfer system is used Closed handling system is used for material transfer
7	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes	Noted &complied We have obtained authorization from GPCB as per Hazardous Wastes (Management, Handling& trans-boundary) Rules, 2008
8	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Noted & Complied We have internal and external Noise monitoring and noise level is well within the limit.
9	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions	Noted & Complied. Company has Environment Management cell .We have full-fledged Environment Lab with all required equipment.

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Condition		Status of Compliance Period: January to June 15
No	**Description**	
10	The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes	Noted & complied. We have capital budgets and revenue budgets. Sufficient amount is provided in the manufacturing budget for EMS.
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 15
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 to1000 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 to1000 MT/M -project implemented and ready for trial production*	*Project implemented in the existing DETA/ZnDTP plant*
02	*Noflan*	*0*	*8*	*8*	*Not implemented*	--

PRODUCTION DETAILS (QUANTITY IN MT/ MONTH)

1. PRODUCTION DETAILS (IN MT)							
Month	**Acephate**	**Phorate**	**Terbufos**	**DETA**	**Devrinol**	**Metamitron**	**Surflan**
Jan 15	1000.000	169.188	0.000	0.000	209.547	0.000	0.000
Feb 15	885.100	113.046	0.454	0.000	171.000	0.000	13.320
Mar 15	589.850	39.044	0.000	0.000	74.300	0.000	0.000
Apr15	834.610	210.018	34.050	0.000	168.775	0.000	0.000
May 15	794.250	216.785	150.047	19.800	266.400	0.000	0.000
June 15	1000.000	291.014	81.266	49.500	97.525	0.000	0.000

Month	**Phosphamidon**	**ZnDTP**	**DMPAT**	**Ethofumisate**	**Metasystox RVL**	**DDVP**	Monocrotophos	DETCL
Jan 15	0.000	225.85	0.000	13.500	23.32	0.000	98.210	0
Feb 15	0.000	270.37	0.000	0.000	0.000	0.000	0.000	6.400
Mar 15	0.000	735.16	0.000	0.000	58.52	0.000	52.900	20.600
Apr15	0.000	627.01	0.000	0.000	0.000	0.000	100.000	16.950
May 15	0.000	566.06	0.000	0.000	0.000	0.000	100.000	0.000
June 15	0.000	535.52	0.000	0.000	0.000	0.000	100.000	0.000

FORMULATION PRODUCTS (QUANTITY IN MT/MONTH)

FORMULATION PRODUCTS (IN MT)

Month	**Acephate 97%**	**Acephate 75%**	**Phorate 10%**	**Devrinol 50% df**	**Surflon 85%**	**MCP36%**	**PQDC formulation**	**PD 50%**	**Metamitron 70% WP**
Jan 15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb 15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar 15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr15	0.000	0.000	0.000	0.000	0.000	100.000	0.000	0.000	0.000
May 15	0.000	0.000	0.000	0.000	0.000	100.000	0.000	0.000	0.000
June 15	77.250	0.000	0.000	0.000	0.000	100.000	0.000	0.000	0.000

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

MONTH	WATER CONSUMPTION	TREATED EFFLUENT DISCHARGE * QUANTITY (INDUSTRIAL+ DOMESTIC) TO FETP, (NCTL, ANKLESHWAR
ALL QUANTITIES IN KL/MONTH		
Jan 15	6229	NIL
Feb 15	5933	NIL
Mar 15	6293	NIL
Apr15	10853	NIL
May 15	11159	NIL
June 15	7814	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'15	2633	2088	545
Feb'15	2150	1712	438
March'15	2322	1853	469
April'15	3369	2732	637
May'15	3008	2423	585
June'15	2986	2385	601

HIGH TDS EFFLUENT TREATMENT AT EVAPORATION SYSTEM

MONTH	Evaporation QTY KL/ MONTH
Jan 15	1038
Feb 15	744
Mar 15	667
Apr15	1643
May 15	1905
June 15	1713

DETAILS OF HIGH COD EFFLUENT TREATMENT: CHEMICAL TREATMENT BY H_2O_2

MONTH	HIGH COD EFFLUENT CHEMICAL TREATMENT (H_2O_2 TREATMENT) - QTY KL/MONTH
Jan 15	222
Feb 15	78
Mar 15	161
Apr15	472
May 15	400
June 15	375

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 15	7.587	140.000	817.500	957.500	957.23	7.857
Feb 15	7.857	139.000	545.500	684.500	684.08	8.277
Mar 15	8.277	138.000	502.450	640.450	642.05	6.677
Apr15	6.677	139.000	676.500	815.500	813.578	8.599
May 15	8.599	203.500	582.000	785.500	785.020	9.079
June 15	9.079	384.000	552.500	936.500	937.380	8.199

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 15	7.349	22.500	212.400	234.900	232.740	9.509
Feb 15	9.509	18.200	116.500	134.700	136.970	7.239
Mar 15	7.239	10.900	78.000	88.900	91.850	4.289
Apr15	4.289	18.900	243.500	262.400	257.420	9.269
May 15	9.269	24.000	412.000	436.000	436.870	8.399
June 15	8.399	27.500	324.000	351.500	351.390	8.509

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

TOTAL DISPOSAL QTY TO BEIL –MT/M- LANDFILLING					
MONTH	**SOLIDS(*)**	**PLASTIC WASTE**	**INSULATION WASTE**	**TOTAL WASTE SENT TO BEIL FOR LANDFILLING**	**Remarks**
ALL QTY IN MT/MONTH					
Jan 15	232.74	0.00	2.24	234.98	
Feb 15	136.97	0.00	0.00	136.97	
Mar 15	91.85	0.00	1.21	93.06	
Apr15	257.42	0.00	1.23	258.65	
May 15	436.87	0.58	0.61	438.06	
June 15	351.40	0.00	1.42	352.82	

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AMBIENT AIR ANALYSIS REPORT(By Our Internal Lab)

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH JAN – 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	PM 2.5 60 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
MAIN GATE	01/01/15	186.80	68.57	36.8	18.28	6.44	27.80	….	BDL
MAIN GATE	03/01/15	136.28	64.93		33.24	23.70	6.94	BDL	….
MAIN GATE	05/01/15	193.75	32.63		9.90	17.90	19.43	….	BDL
MAIN GATE	07/01/15	183.33	35.42		10.70	11.68	6.29	BDL	….
MAIN GATE	09/01/15	198.61	48.26	39.8	31.40	19.54	12.50	….	BDL
MAIN GATE	11/01/15	236.63	87.15		19.88	13.14	7.40	BDL	….
MAIN GATE	13/01/15	186.98	37.32		19.75	6.44	5.72	….	BDL
MAIN GATE	15/01/15	134.02	69.27		18.16	12.88	6.86	BDL	….
MAIN GATE	17/01/15	146.00	28.12		18.16	16.10	18.14	….	BDL
MAIN GATE	19/01/15	162.50	50.08	42.6	21.46	11.27	6.86	BDL	….
MAIN GATE	21/01/15	210.24	53.47		26.42	13.90	11.11	….	BDL
MAIN GATE	23/01/15	166.84	38.54		14.86	4.43	6.48	BDL	….
MAIN GATE	25/01/15	168.75	36.80		18.16	10.10	9.72	….	BDL
MAIN GATE	27/01/15	164.23	35.07		10.70	10.07	5.72	BDL	….
MAIN GATE	29/01/15	169.80	74.65	52.40	22.24	22.55	22.86	….	BDL
MAIN GATE	31/01/15	162.50	45.83		22.30	21.74	5.56	BDL	….
	Maximum	237	87	52	33	24	28	0	0
	Minimum	134	28	37	10	4	6	0	0
	Average JAN-15	175	50	43	20	14	11	0	
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH JAN - 2015** **Date :- 7/7/2015**

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
SCRAP YARD	01/01/15	180.90	35.07	28.20	17.70	70.15	….	BDL
SCRAP YARD	03/01/15	199.82	39.24	24.76	16.92	13.14	BDL	….
SCRAP YARD	05/01/15	156.42	55.38	20.64	11.68	32.00	….	BDL
SCRAP YARD	07/01/15	162.50	56.60	17.28	14.09	9.15	BDL	….
SCRAP YARD	09/01/15	177.25	61.11	26.24	20.12	23.60	….	BDL

SCRAP YARD	11/01/15	276.90	79.16	20.91	20.83	42.60	BDL	….
SCRAP YARD	13/01/15	139.23	51.38	24.85	25.00	24.30	….	BDL
SCRAP YARD	15/01/15	208.50	52.43	15.70	14.53	5.72	BDL	….
SCRAP YARD	17/01/15	153.64	49.65	23.11	14.50	16.84	….	BDL
SCRAP YARD	19/01/15	201.90	59.90	26.42	14.10	23.61	BDL	….
SCRAP YARD	21/01/15	253.30	81.94	52.84	16.40	14.81	….	BDL
SCRAP YARD	23/01/15	168.22	63.88	20.64	9.66	7.13	BDL	….
SCRAP YARD	25/01/15	144.10	57.63	21.46	17.72	13.60	….	BDL
SCRAP YARD	27/01/15	179.86	73.96	13.99	12.08	6.86	BDL	….
SCRAP YARD	29/01/15	175.52	61.11	21.46	16.50	19.33	….	BDL
SCRAP YARD	31/01/15	197.40	69.79	24.10	20.50	36.10	BDL	….
	Maximum	277	82	53	25	70	0	0
	Minimum	139	35	14	10	6	0	0
	Average JAN-15	186	59	24	16	22	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH JAN - 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 microgm/m3	PM 10 100 microgm/m3	SO2 80 microgm/m3	NOX 80 microgm/m3	NH3 400 microgm/m3	HCL 200 microgm/m3	CHLORINE 100 microgm/m3
ETP AREA	01/01/15	191.66	43.75	19.90	17.72	145.20	….	BDL
ETP AREA	03/01/15	156.44	66.32	21.46	12.88	22.22	BDL	….
ETP AREA	05/01/15	156.42	55.38	20.64	11.68	32.00	….	BDL
ETP AREA	07/01/15	183.33	35.42	10.70	19.54	6.29	BDL	….
ETP AREA	09/01/15	198.61	48.26	31.40	10.42	12.50	….	BDL
ETP AREA	11/01/15	295.13	95.66	28.17	14.10	24.06	BDL	….
ETP AREA	13/01/15	188.36	43.75	21.40	17.88	18.30	….	BDL
ETP AREA	15/01/15	158.85	49.48	21.46	22.55	43.73	BDL	….
ETP AREA	17/01/15	189.06	47.92	28.10	30.20	68.68	….	BDL
ETP AREA	19/01/15	149.30	60.59	31.40	20.34	18.05	BDL	….
ETP AREA	21/01/15	225.70	91.49	16.51	19.30	72.70	….	BDL
ETP AREA	23/01/15	185.76	36.80	23.12	20.13	14.10	BDL	….
ETP AREA	25/01/15	125.34	73.26	22.30	11.27	64.80	….	BDL
ETP AREA	27/01/15	163.19	32.63	12.34	25.77	41.16	BDL	….
ETP AREA	29/01/15	208.33	86.63	23.94	28.40	46.30	….	BDL
ETP AREA	31/01/15	210.76	61.11	35.80	14.50	61.10	BDL	….
	Maximum	295	96	36	30	145	0	0
	Minimum	125	33	11	10	6	0	0
	Average JAN-15	187	58	23	19	43	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH FEB – 2015** **01/03/15**

AREA/ LOCATION	DATE	SPM 500 µg/m3	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	02/02/15	146.00	31.60	42.6	18.16	16.10	21.74	….	BDL
MAIN GATE	04/02/15	160.76	33.33		18.16	11.68	11.43	BDL	….
MAIN GATE	06/02/15	161.46	54.16		23.15	18.52	13.15	….	BDL
MAIN GATE	08/02/15	156.25	67.53	38.9	19.90	14.10	4.00	BDL	….
MAIN GATE	10/02/15	205.55	88.19		13.16	19.37	21.52	….	BDL
MAIN GATE	12/02/15	159.54	52.25		17.22	20.12	10.42	BDL	….
MAIN GATE	14/02/15	192.36	84.02	41.3	13.16	19.37	21.52	….	BDL
MAIN GATE	16/02/15	153.54	64.93		18.90	11.27	4.60	BDL	….
MAIN GATE	18/02/15	196.88	66.84		18.10	12.49	10.29	….	BDL
MAIN GATE	20/02/15	188.98	61.80		19.81	16.91	17.15	BDL	….
MAIN GATE	22/02/15	175.00	63.71	45.3	17.33	8.86	8.00	….	BDL
MAIN GATE	24/02/15	159.54	64.93		19.75	18.12	11.43	BDL	….
MAIN GATE	26/02/15	190.27	49.13		20.57	22.15	14.29	….	BDL
MAIN GATE	28/02/15	156.77	63.54	42.8	16.46	16.51	8.00	BDL	….
	Maximum	206	88	45	23	22	22	0	0
	Minimum	146	32	39	13	9	4	0	0
	Average FEB-15	172	60	42	18	16	13	0	
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH FEB - 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 µg/m3	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/02/15	189.06	47.92	36.57	23.35	117.77	….	BDL
ETP AREA	04/02/15	179.34	36.80	26.42	16.11	57.17	BDL	….
ETP AREA	06/02/15	170.13	40.28	24.68	16.11	50.20	….	BDL
ETP AREA	08/02/15	157.81	36.98	39.00	15.70	77.78	BDL	….
ETP AREA	10/02/15	167.88	85.42	23.03	20.86	58.31	….	BDL
ETP AREA	12/02/15	189.58	50.69	36.08	21.61	58.31	BDL	….
ETP AREA	14/02/15	239.93	86.28	23.03	20.86	52.60	….	BDL
ETP AREA	16/02/15	175.00	48.96	24.64	16.99	73.48	BDL	….
ETP AREA	18/02/15	183.60	48.95	26.35	16.91	71.46	….	BDL
ETP AREA	20/02/15	169.80	61.11	29.72	21.74	57.20	BDL	….
ETP AREA	22/02/15	156.77	84.03	34.67	18.52	57.74	….	BDL
ETP AREA	24/02/15	174.65	45.66	21.39	20.05	57.17	BDL	….
ETP AREA	26/02/15	171.70	52.08	23.04	23.35	85.75	….	BDL
ETP AREA	28/02/15	177.77	25.34	21.39	20.94	70.32	BDL	….
	Maximum	240	86	39	23	118	0	0
	Minimum	157	25	21	16	50	0	0
	Average FEB-15	179	54	28	20	68	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH FEB - 2015** **Date :-7/7/2015**

AREA/ LOCATION	DATE	SPM 500 µg/m3	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/02/15	170.48	33.33	31.58	15.50	26.30	….	BDL
SCRAP YARD	04/02/15	163.19	40.97	29.72	18.12	18.30	BDL	….
SCRAP YARD	06/02/15	190.97	45.48	20.57	12.08	14.39	….	BDL
SCRAP YARD	08/02/15	147.92	69.80	37.40	20.50	22.21	BDL	….
SCRAP YARD	10/02/15	177.43	15.97	25.51	20.17	27.94	….	BDL
SCRAP YARD	12/02/15	196.52	85.41	42.84	23.10	16.67	BDL	….
SCRAP YARD	14/02/15	153.12	68.05	23.11	14.50	16.84	….	BDL
SCRAP YARD	16/02/15	175.86	65.28	20.57	14.52	8.60	BDL	….
SCRAP YARD	18/02/15	156.77	69.80	23.03	12.08	9.15	….	BDL
SCRAP YARD	20/02/15	208.68	67.36	22.30	14.10	14.30	BDL	….
SCRAP YARD	22/02/15	160.93	64.58	27.24	18.52	14.30	….	BDL
SCRAP YARD	24/02/15	174.65	61.11	23.86	20.95	13.15	BDL	….
SCRAP YARD	26/02/15	185.07	51.21	24.88	24.16	17.19	….	BDL
SCRAP YARD	28/02/15	179.51	54.16	25.51	22.15	12.58	BDL	….
	Maximum	209	85	43	24	28	0	0
	Minimum	148	16	21	12	9	0	0
	Average FEB-15	174	57	27	18	17	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

MBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAR - 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 µg/m3	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	02/03/15	190.90	54.17	38.9	10.00	12.88	2.86	….	BDL
MAIN GATE	04/03/15	156.60	55.73		14.86	19.37	11.80	BDL	….
MAIN GATE	06/03/15	153.82	61.11		29.94	18.63	18.05	….	BDL
MAIN GATE	08/03/15	175.70	66.32	38.6	14.96	13.70	2.30	BDL	….
MAIN GATE	10/03/15	208.30	81.84		29.17	10.42	24.06	….	BDL
MAIN GATE	12/03/15	175.69	66.32		30.00	19.84	10.41	BDL	….
MAIN GATE	14/03/15	185.07	43.40		20.57	12.08	14.86	….	BDL
MAIN GATE	16/03/15	174.48	46.18	28.4	16.07	12.88	13.72	BDL	….
MAIN GATE	18/03/15	137.50	54.16		22.30	22.10	26.38	….	BDL
MAIN GATE	20/03/15	190.63	68.05		16.73	14.50	8.57	BDL	….
MAIN GATE	22/03/15	169.45	56.25		19.94	14.10	18.05	….	BDL
MAIN GATE	24/03/15	186.45	59.38	41.6	14.10	21.40	8.05	BDL	….
MAIN GATE	26/03/15	211.11	47.22		15.06	15.65	14.58	….	BDL
MAIN GATE	28/03/15	175.69	51.74		17.45	19.74	22.21	BDL	….
MAIN GATE	30/03/15	184.02	41.31	25.90	14.40	21.35	10.28	….	BDL
	Maximum	211	82	42	30	22	26	0	0
	Minimum	138	41	26	10	10	2	0	0
	Average MAR-15	178	57	35	19	17	14	0	

%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAR – 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 µg/m3	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/03/15	157.63	49.48	21.60	16.50	39.58	….	BDL
ETP AREA	04/03/15	146.35	52.60	21.46	18.52	25.46	BDL	….
ETP AREA	06/03/15	210.94	78.13	29.72	17.10	176.90	….	BDL
ETP AREA	08/03/15	192.70	56.94	26.60	18.32	20.58	BDL	….
ETP AREA	10/03/15	236.63	83.68	19.88	13.14	7.40	….	BDL
ETP AREA	12/03/15	192.70	56.94	39.20	26.60	227.10	BDL	….
ETP AREA	14/03/15	186.11	47.92	24.68	15.70	70.32	….	BDL
ETP AREA	16/03/15	174.48	46.18	16.07	12.88	13.72	BDL	….
ETP AREA	18/03/15	127.95	56.08	35.80	28.40	67.40	….	BDL
ETP AREA	20/03/15	167.00	70.83	21.41	16.10	77.18	BDL	….
ETP AREA	22/03/15	193.60	67.36	39.63	23.75	20.00	….	BDL
ETP AREA	24/03/15	181.25	69.79	34.00	18.60	37.16	BDL	….
ETP AREA	26/03/15	207.29	64.93	23.42	13.41	8.33	….	BDL
ETP AREA	28/03/15	174.30	70.14	37.45	22.35	79.20	BDL	….
ETP AREA	30/03/15	202.08	71.52	31.58	19.60	118.47	….	BDL
	Maximum	237	84	40	28	227	0	0
	Minimum	128	46	16	13	7	0	0
	Average MAR-15	183	63	28	19	66	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAR - 2015** **07/07/15**

AREA/ LOCATION	DATE	SPM 500 µg/m3	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/03/15	143.40	56.42	21.23	16.40	14.81	….	BDL
SCRAP YARD	04/03/15	183.33	58.85	24.76	18.25	27.27	BDL	….
SCRAP YARD	06/03/15	169.80	63.36	24.85	17.30	39.58	….	BDL
SCRAP YARD	08/03/15	227.78	76.34	23.26	14.50	5.72	BDL	….
SCRAP YARD	10/03/15	172.22	61.80	20.91	20.83	42.50	….	BDL
SCRAP YARD	12/03/15	188.88	58.33	27.24	26.60	10.40	BDL	….
SCRAP YARD	14/03/15	194.79	71.52	29.62	19.73	22.87	….	BDL
SCRAP YARD	16/03/15	169.44	59.72	23.27	18.11	17.15	BDL	….
SCRAP YARD	18/03/15	177.25	47.92	24.10	20.50	36.10	….	BDL
SCRAP YARD	20/03/15	203.82	65.10	26.77	18.88	14.30	BDL	….
SCRAP YARD	22/03/15	198.61	72.22	41.40	21.33	28.47	….	BDL
SCRAP YARD	24/03/15	126.73	62.84	24.10	20.50	8.57	BDL	….
SCRAP YARD	26/03/15	147.92	51.04	19.37	29.67	23.60	….	BDL
SCRAP YARD	28/03/15	179.08	32.08	34.07	15.65	16.60	BDL	….
SCRAP YARD	30/03/15	183.16	61.11	10.00	8.86	4.60	….	BDL

Maximum	228	76	41	30	43	0	0
Minimum	127	32	10	9	5	0	0
Average MAR-15	178	60	25	19	21	0	0
%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH APRIL - 2015** **07/07/15**

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	01/04/15	61.11	42.6	13.30	17.88	36.11	BDL	….
MAIN GATE	03/04/15	51.39		12.63	14.50	4.57	….	BDL
MAIN GATE	05/04/15	66.84		10.95	15.30	11.65	BDL	….
MAIN GATE	07/04/15	52.43	47.0	20.91	14.10	9.15	….	BDL
MAIN GATE	09/04/15	46.52		12.55	14.16	5.55	BDL	….
MAIN GATE	11/04/15	56.08		29.28	16.76	14.58	….	BDL
MAIN GATE	13/04/15	54.68		15.00	20.13	8.60	BDL	….
MAIN GATE	15/04/15	59.72	52.4	20.92	18.11	10.30	….	BDL
MAIN GATE	17/04/15	68.58		19.74	19.33	13.15	BDL	….
MAIN GATE	19/04/15	61.11		16.84	11.27	5.72	….	BDL
MAIN GATE	21/04/15	55.90		13.47	7.25	5.56	BDL	….
MAIN GATE	23/04/15	53.47	55.4	28.63	17.90	29.86	….	BDL
MAIN GATE	25/04/15	66.84		12.38	15.30	19.43	BDL	….
MAIN GATE	27/04/15	51.39		13.47	9.66	2.86	….	BDL
MAIN GATE	29/04/15	61.11	50.4	13.47	17.88	36.11	BDL	….
	Maximum	69	55	29	20	36	0	0
	Minimum	47	43	11	7	3	0	0
	Average APR-15	58	50	17	15	14	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH APRIL – 2015** **07/07/15**

AREA/ LOCATION	DATE	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	01/04/15	62.50	19.11	20.90	19.43	BDL	….
ETP AREA	03/04/15	66.84	32.00	18.52	14.30	….	BDL
ETP AREA	05/04/15	68.75	31.15	17.31	12.57	BDL	….
ETP AREA	07/04/15	60.76	24.26	16.51	63.46	….	BDL
ETP AREA	09/04/15	54.86	27.60	14.80	10.41	BDL	….
ETP AREA	11/04/15	59.90	15.06	14.70	9.02	….	BDL
ETP AREA	13/04/15	65.10	30.11	16.90	12.55	BDL	….
ETP AREA	15/04/15	62.84	35.13	16.91	103.50	….	BDL
ETP AREA	17/04/15	66.32	37.64	18.52	73.75	BDL	….
ETP AREA	19/04/15	64.93	30.30	16.91	37.73	….	BDL
ETP AREA	21/04/15	31.94	21.05	12.88	23.61	BDL	….
ETP AREA	23/04/15	64.61	32.00	14.56	121.77	….	BDL

ETP AREA	25/04/15	74.50	21.61	13.69	44.60	BDL	….
ETP AREA	27/04/15	51.40	21.90	10.47	94.43	….	BDL
ETP AREA	29/04/15	64.16	20.21	20.90	19.44	BDL	….
	Maximum	75	38	21	122	0	0
	Minimum	32	15	10	9	0	0
	Average APR-15	61	27	16	44	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH APRIL - 2015** **07/07/15**

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

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAY - 2015** **07/07/15**

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	01/05/15	50	54.1	19	21	22	.....	BDL
MAIN GATE	03/05/15	72		17	20	13	BDL	.....
MAIN GATE	05/05/15	66		24	10	9	.....	BDL
MAIN GATE	07/05/15	67		11	15	2	BDL	.....
MAIN GATE	09/05/15	59	52.1	18	21	13	.....	BDL
MAIN GATE	11/05/15	77		27.1	17	26	BDL	.....
MAIN GATE	13/05/15	51		13	5	9	.....	BDL
MAIN GATE	15/05/15	71	56.6	18	21	15	BDL	.....
MAIN GATE	17/05/15	49		10	5	3	.....	BDL

MAIN GATE	19/05/15	65		18	21	15	BDL	.....
MAIN GATE	21/05/15	58		22	3	14	.....	BDL
MAIN GATE	23/05/15	59	46.4	20	6	19	BDL	.....
MAIN GATE	25/05/15	58		19	16	18	.....	BDL
MAIN GATE	27/05/15	50		19	6	3	BDL	.....
MAIN GATE	29/05/15	68		15	8	7	.....	BDL
MAIN GATE	31/05/15	34	56.4	13	5	1	BDL	.....
	Maximum	77	57	27	21	26	0	0
	Minimum	34	46	10	3	1	0	0
	Average MAY-15	60	53	18	13	12	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAY – 2015** **07/07/15**

AREA/ LOCATION	DATE	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP SIDE	01/05/15	99	36	20	106	.....	BDL
ETP SIDE	03/05/15	35	32	24	61	BDL	.....
ETP SIDE	05/05/15	50	29	17	87	.....	BDL
ETP SIDE	07/05/15	69	31	17	13	BDL	.....
ETP SIDE	09/05/15	63	24	24	64	.....	BDL
ETP SIDE	11/05/15	62	44	29	28	BDL	.....
ETP SIDE	13/05/15	70	46	17	72	.....	BDL
ETP SIDE	15/05/15	58	22	14	14	BDL	.....
ETP SIDE	17/05/15	44	46	17	72	.....	BDL
ETP SIDE	19/05/15	41	22	14	14	BDL	.....
ETP SIDE	21/05/15	59	25	13	89	.....	BDL
ETP SIDE	23/05/15	58	38	27	19	BDL	.....
ETP SIDE	25/05/15	61	27	14	21	.....	BDL
ETP SIDE	27/05/15	67	31	21	70	BDL	.....
ETP SIDE	29/05/15	71	21	12	89	.....	BDL
ETP SIDE	31/05/15	60	27	9	48	BDL	.....
	Maximum	99	46	29	106	0	0
	Minimum	35	21	9	13	0	0
	Average MAY-15	60	31	18	54	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH MAY - 2015** **07/07/15**

AREA/ LOCATION	DATE	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	01/05/15	72	33	23	11.11	.....	BDL
SCRAP YARD	03/05/15	73	27	13	26	BDL	.....
SCRAP YARD	05/05/15	61	44	20	24	.....	BDL
SCRAP YARD	07/05/15	90	25	20	4	BDL	.....

SCRAP YARD	09/05/15	78	27	27	18	.....	BDL
SCRAP YARD	11/05/15	65	44	29	28	BDL	.....
SCRAP YARD	13/05/15	55	24	15	23	.....	BDL
SCRAP YARD	15/05/15	80	28	18	11	BDL	.....
SCRAP YARD	17/05/15	81	23	15	23	.....	BDL
SCRAP YARD	19/05/15	68	28	18	11	BDL	.....
SCRAP YARD	21/05/15	90	29	23	17	.....	BDL
SCRAP YARD	23/05/15	32	32	21	25	BDL	.....
SCRAP YARD	25/05/15	89	25	10	36	.....	BDL
SCRAP YARD	27/05/15	64	28	22	17	BDL	.....
SCRAP YARD	29/05/15	64	22	10	36	.....	BDL
SCRAP YARD	31/05/15	58	30	11	9	BDL	.....
	Maximum	90	44	29	36	0	0
	Minimum	32	22	10	4	0	0
	Average MAY-15	70	29	18	20	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. **MONTH JUNE - 2015** **07/07/15**

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	CHLORINE 100 microgm/m3
MAIN GATE	02/06/15	68.05	49.5	21.46	11.73	6.30	....	BDL	....
MAIN GATE	04/06/15	32.30		28.33	16.91	6.91	BDL	....	BDL
MAIN GATE	06/06/15	77.26	56.6	24.90	19.33	8.35	....	BDL	....
MAIN GATE	08/06/15	68.06		13.47	8.86	5.72	BDL	....	BDL
MAIN GATE	10/06/15	32.64		24.50	16.96	27.80	....	BDL	....
MAIN GATE	12/06/15	35.60		33.48	17.31	12.58	BDL	....	BDL
MAIN GATE	14/06/15	68.06	52.6	23.88	19.37	20.83	....	BDL	....
MAIN GATE	16/06/15	79.51		18.58	20.94	2.86	BDL	....	BDL
MAIN GATE	18/06/15	56.08		18.90	25.33	3.43	....	BDL	....
MAIN GATE	20/06/15	52.43		12.71	11.27	8.00	BDL	....	BDL
MAIN GATE	22/06/15	75.00	49.5	19.34	19.33	8.05	....	BDL	....
MAIN GATE	24/06/15	66.32	42.0	20.98	13.29	17.15	BDL	....	BDL
MAIN GATE	26/06/15	57.64		12.55	8.86	6.29	....	BDL	....
MAIN GATE	28/06/15	54.86		21.60	20.58	25.00	BDL	....	BDL
MAIN GATE	30/06/15	36.98	30.2	21.60	20.50	25.00	....	BDL	....
	Maximum	80	57	33	25	28	0	0	0
	Minimum	32	30	13	9	3	0	0	0
	Average JUNE-15	57	47	21	17	12	0	0	
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. MONTH JUNE – 2015 07/07/15

AREA/ LOCATION	DATE	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
ETP AREA	02/06/15	61.11	38.63	17.31	128.50	….	BDL
ETP AREA	04/06/15	67.88	22.32	20.94	85.41	BDL	….
ETP AREA	06/06/15	66.32	24.04	18.52	29.73	….	BDL
ETP AREA	08/06/15	73.26	26.94	16.10	95.83	BDL	….
ETP AREA	10/06/15	32.64	24.50	16.96	27.80	….	BDL
ETP AREA	12/06/15	38.54	32.62	19.60	118.47	BDL	….
ETP AREA	14/06/15	70.83	51.50	21.23	38.86	….	BDL
ETP AREA	16/06/15	78.47	31.26	24.96	37.16	BDL	….
ETP AREA	18/06/15	46.52	36.05	16.76	91.63	….	BDL
ETP AREA	20/06/15	56.68	22.03	14.28	20.58	BDL	….
ETP AREA	22/06/15	68.75	26.60	20.50	66.32	….	BDL
ETP AREA	24/06/15	57.64	22.26	14.56	121.77	BDL	….
ETP AREA	26/06/15	74.50	21.61	19.37	63.63	….	BDL
ETP AREA	28/06/15	33.85	36.23	19.74	161.03	BDL	….
ETP AREA	30/06/15	25.00	27.42	21.61	19.43	….	BDL
	Maximum	78	52	25	161	0	0
	Minimum	25	22	14	19	0	0
	Average JUNE-15	57	30	19	74	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT

Q.A. DEPT. MONTH JUNE - 2015 07/07/15

AREA/ LOCATION	DATE	PM 10 100 µg/m3	SO2 80 µg/m3	NOX 80 µg/m3	NH3 400 µg/m3	HCL 200 µg/m3	CHLORINE 100 µg/m3
SCRAP YARD	02/06/15	75.52	22.32	20.00	16.00	….	BDL
SCRAP YARD	04/06/15	69.80	30.90	23.75	20.14	BDL	….
SCRAP YARD	06/06/15	66.32	30.90	21.74	45.12	….	BDL
SCRAP YARD	08/06/15	69.44	29.47	30.20	31.94	BDL	….
SCRAP YARD	10/06/15	78.47	25.75	14.10	19.44	….	BDL
SCRAP YARD	12/06/15	78.13	29.20	6.04	14.81	BDL	….
SCRAP YARD	14/06/15	85.25	22.10	21.34	2.86	….	BDL
SCRAP YARD	16/06/15	61.11	30.51	24.96	20.58	BDL	….
SCRAP YARD	18/06/15	66.32	24.04	20.50	22.21	….	BDL
SCRAP YARD	20/06/15	56.42	23.26	15.27	23.32	BDL	….
SCRAP YARD	22/06/15	65.28	21.61	17.88	11.43	….	BDL
SCRAP YARD	24/06/15	52.43	25.18	22.56	13.72	BDL	….
SCRAP YARD	26/06/15	69.80	38.63	18.22	12.58	….	BDL
SCRAP YARD	28/06/15	39.24	19.81	16.40	14.82	BDL	….
SCRAP YARD	30/06/15	18.00	36.25	19.74	161.03	….	BDL
	Maximum	85	39	30	161	0	0
	Minimum	18	20	6	3	0	0
	Average JUNE-15	63	27	20	29	0	0
	%Deviation	Nil	Nil	Nil	Nil	Nil	Nil

AMBIENT AIR ANALYSIS REPORT
(By EnproEnviroTech&Engineers Pvt. Ltd)

Month	LOCATION / Limit	DATE OF SAMPLING	$PM_{2.5}$ 60 µg /m^3	RSPM (PM_{10}) 100 µg /m^3	SO_x 80 µg /m^3	NO_x 80 µg /m^3	HCL 200 µg /m^3	NH_3 400 µg /m^3	H_2S 500 µg /m^3	H.C. 160 µg /m^3	CL2 100 µg /m^3	HF 60 µg /m^3
Jan-15	Nr Boiler area	22.01.2015	42.8	75.3	26.9	31.7	49.4	18.2	BDL	BDL	BDL	BDL
Feb-15	Nr Boiler area	19.02.2015	48.1	81.2	30.5	35.8	42.7	29.1	BDL	BDL	BDL	BDL
Mar-15	Nr Boiler area	21.03.2015	43.9	86.7	34.2	38.3	47.8	23.5	BDL	BDL	BDL	BDL
Apr-15	Nr Boiler area	23.04.2015	46.9	89.9	38.1	41.6	51.3	27.6	BDL	BDL	BDL	BDL
May-15	Nr Boiler area	19.05.2015	41.1	84.6	27.4	31.6	44.9	20.9	BDL	BDL	BDL	BDL
Jun-15	Nr Boiler area	22.06.2015	35.1	78.6	31.8	36.3	53.5	24.8	BDL	BDL	BDL	BDL

STACK MONITORING REPORT (By ENPRO Enviro Tech and Engineers Pvt. Ltd):JAN-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm^3	CHLORINE 5.0 mg/Nm^3	NH3 30 mg/Nm^3	NO_X 50 mg/Nm^3	SPM 20 mg/Nm^3	SO_2 40 mg/Nm^3	H_2S 5.0 mg/Nm^3
1	IN PHORATE PLANT STACK ATTACHED TOFUME INCINERATOR	22.01.2015	BDL	BDL	BDL	16.5	BDL	9.7	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TOALKALI SCRUBBER (H2S VENT)	22.01.2015							3.9
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	22.01.2015			19.3				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TOHCL SCRUBBER	22.01.2015	14.5						
9	BOILER GT-3507	22.01.2015				15.3	BDL	BDL	
10	BOILER GT-3201	22.01.2015				11.9	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By ENPRO Enviro Tech and Engineers Pvt. Ltd): FEB-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 TOFUME INCINERATOR	19.02.2015	BDL	BDL	BDL	18.7	BDL	11.2	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	19.02.2015							4.1
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	19.02.2015			17.8				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	19.02.2015	9.8						
9	BOILER GT-3507	19.02.2015				9.8	BDL	BDL	
10	BOILER GT-3201								
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By ENPRO Enviro Tech and Engineers Pvt. Ltd): MAR-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 TOFUME INCINERATOR	21.03.2015	BDL	BDL	BDL	14.9	BDL	7.8	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	21.03.2015							2.9
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	21.03.2015			13.5				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	21.03.2015	12.6						
9	BOILER GT-3507	21.03.2015				12.6	BDL	BDL	
10	BOILER GT-3201	21.03.2015				10.8	BDL	BDL	

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 and Engineers Pvt. Ltd): APR-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 TOFUME INCINERATOR	23.04.2015	BDL	BDL	BDL	19.4	BDL	8.6	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	23.04.2015							3.5
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	23.04.2015			18.1				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	23.04.2015	11.5						
9	BOILER GT-3507	23.04.2015				11.8	BDL	BDL	
10	BOILER GT-3201	23.04.2015				9.1	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By ENPRO Enviro Tech and Engineers Pvt. Ltd): MAY-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 TOFUME INCINERATOR	19.05.2015	BDL	BDL	BDL	17.2	BDL	10.8	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	19.05.2015							2.6
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	19.05.2015	15.3						
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	19.05.2015	14.6						
9	BOILER GT-3507	19.05.2015				14.7	BDL	BDL	
10	BOILER GT-3201	19.05.2015				13.2	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By ENPRO Enviro Tech and Engineers Pvt. Ltd): JUN-2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL	CHLORINE	NH3	NO_X	SPM	SO_2	H_2S
			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 TOFUME INCINERATOR	22.06.2015	BDL	BDL	BDL	10.8	BDL	BDL	
2	IN DEVRINOL PLANT STACK ATTACHED TO(FOR FORMULATION PLANT)								
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	22.06.2015							4.0
4	IN PHORATE PLANT STACK ATTACHED TOP2S5 CHARGING HOOPER								
5	IN PHORATE PLANT STACK ATTACHED TOLOCAL VENT CARBON FILTER								
6	IN ACEPHATE PLANT STACK ATTACHED TONH3 SCRUBBER	22.06.2015			17.6				
7	IN PHOSPHAMIDON PLANT STACK ATTACHED TOWATER SCRUBBER								
8	IN DEVRINOL PLANT STACK ATTACHED TO HCL SCRUBBER	22.06.2015	10.1						
9	BOILER GT-3507	22.06.2015				10.8	BDL	BDL	
10	BOILER GT-3201	22.06.2015				11.3	BDL	BDL	
11	IN INCINERATOR PLANT STACK ATTACHED TOAQUEOUS & SOLID WASTE INCINERATOR	INCINERATION SYSTEM IS DISMANTLED							

STACK MONITORING REPORT (By Our Internal Lab): JAN-2015

STACK MONITORING REPORT

Q.A. DEPT. MONTH JAN – 2015 07/07/15

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3

1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/01/15 20/01/15	BDL BDL	BDL BDL	BDL BDL	16.3 12.6	15.0 5.6	26.1 30.4	BDL BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/01/15 20/01/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/01/15 20/01/15							2.0 2.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/01/15 20/01/15							4.0 4.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/01/15 20/01/15							BDL BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/01/15 20/01/15			22 20				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/01/15 20/01/15	Plant not in operation Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/01/15 20/01/15	6.0 4.0						

STACK MONITORING REPORT (By Our Internal Lab):FEB-2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH FEB – 2015** **7/7/2015**

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	05/02/15 20/02/15					Plant not in operation Plant not in operation		
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/02/15 20/02/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/02/15 20/02/15							Plant not in operation Plant not in operation
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/01/15 20/02/15							Plant not in operation Plant not in operation
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/02/15 20/02/15							Plant not in operation Plant not in operation
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/02/15 20/02/15			24 22				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/02/15 20/02/15	Plant not in operation Plant not in operation						

8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/02/15 20/02/15	6.0 10.0						

STACK MONITORING REPORT (By Our Internal Lab): MAR-2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH MAR - 2015** **07/07/15**

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	06/03/15 20/03/15	Plant not in operation BDL	BDL	BDL	8.6	9.3	29.0	BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	06/03/15 20/03/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	06/03/15 20/03/15							Plant not in operation Plant not in operation
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	06/03/15 20/03/15							Plant not in operation Plant not in operation
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	06/03/15 20/03/15							Plant not in operation Plant not in operation
6	IN ACEPHATE PLANT STACK ATTACHED TO	06/03/15			24				

	NH3 SCRUBBER	20/03/15			16				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	06/03/15 20/03/15	Plant no t in operation Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	06/03/15 20/03/15	8.0 16.0						

STACK MONITORING REPORT (By Our Internal Lab):APR-2015

STACK MONITORING REPORT

Q.A. DEPT. MONTH APRIL - 2015 07/07/15

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	05/04/15 20/04/15	BDL BDL	BDL BDL	BDL BDL	5.1 9.1	8.4 7.5	29.2 32.3	BDL BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	06/04/15 21/04/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	06/04/15 21/04/15							2.0 3.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	06/04/15 21/04/15							3.0 5.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	06/04/15 21/04/15							BDL BDL

6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	06/04/15 21/04/15			19 24				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	06/04/15 21/04/15	Plant not in operation Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	06/04/15 21/04/15	6 12						

STACK MONITORING REPORT (By Our Internal Lab): MAY-2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH MAY - 2015** **7/7/2015**

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	05/05/15 21/05/15	BDL BDL	BDL BDL	BDL BDL	9.2 8.3	8.4 5.6	32.0 30.0	BDL BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/05/15 21/05/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/05/15 21/05/15							1.0 3.0
4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/05/15 21/05/15							2.0 4.0

5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/05/15 21/05/15							BDL BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/05/15 21/05/15			16 16.8				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/05/15 21/05/15	Plant not in operation Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/05/15 21/05/15	8 12						

STACK MONITORING REPORT (By Our Internal Lab): JUN-2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH JUNE - 2015** 7/7/2015

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	HCL 20 mg/Nm3	CHLORINE 5.0 mg/Nm3	NH3 30 mg/Nm3	NOX 50 mg/Nm3	SPM 20 mg/Nm3	SO2 40 mg/Nm3	H2S 5.0 mg/Nm3
1	IN PHORATE PLANT STACK ATTACHED TO FUME INCINERATOR	05/06/15 22/06/15	BDL BDL	BDL BDL	BDL BDL	5.1 9.1	8.0 6.5	31.8 32.0	BDL BDL
2	IN DEVRINOL PLANT STACK ATTACHED TO (FOR FORMULATION PLANT)	05/06/15 22/06/15					Plant not in operation Plant not in operation		
3	IN PHORATE PLANT STACK ATTACHED TO ALKALI SCRUBBER (H2S VENT)	05/06/15 22/06/15							3.0 2.0

4	IN PHORATE PLANT STACK ATTACHED TO P2S5 CHARGING HOOPER	05/06/15 22/06/15							3.0 4.0
5	IN PHORATE PLANT STACK ATTACHED TO LOCAL VENT CARBON FILTER	05/06/15 22/06/15							BDL BDL
6	IN ACEPHATE PLANT STACK ATTACHED TO NH3 SCRUBBER	05/06/15 22/06/15			24 18				
7	IN POSHPOMIDON PLANT STACK ATTACHED TO WATER SCRUBBER	05/06/15 22/06/15	Plant not in operation Plant not in operation						
8	IN DEVRINOL PLANT STACK ATTACHED TO CPC SCRUBBER	05/06/15 22/06/15	12 16						

BOILER STACK MONITORING REPORT – JAN 2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH JAN - 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	06/01/15 20/01/15	9.7 15.8	11.1 11.6	3.7 9.1
2	STACK ATTACHED TO BOILER GT-3201	12/01/15 27/01/15	Plant not in operation Plant not in operation		
3	STACK ATTACHED TO DG – 1 DG – 2	08/01/15 22/01/15	12.1 18.6	15.8 16.3	8.2 6.9
4	ATTACHED TO	Remarks:-	When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		

	AQUEOUS & SOLID WASTE INCINERATOR	

BOILER STACK MONITORING REPORT – FEB 2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH FEB - 2015** **07/07/15**

	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	04/02/15 20/02/15	5.3 7.0	6.6 7.9	0.9 0.6
2	STACK ATTACHED TO BOILER GT-3201	06/02/15 23/02/15	Plant not in operation Plant not in operation		
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-	When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		

BOILER STACK MONITORING REPORT – MARCH 2015

STACK MONITORING REPORT

Q.A. DEPT. **MONTH MAR - 2015** **07/07/15**

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 ppm	NOX 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 2015

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 2015

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
1	STACK ATTACHED TO BOILER GT-3507	04/05/15 19/05/15	5.3 7.9	12.1 10.3	2.3 1.9
2	STACK ATTACHED TO BOILER GT-3201	18/05/15 30/05/15	7.0 4.4	7.2 6.3	2.2 1.3
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-	When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		

BOILER STACK MONITORING REPORT – JUN 2015

STACK MONITORING REPORT

Q.A. DEPT. MONTH JUN - 2015 07/07/15

Sr. No.	AREA IDENTIFICATION (STACK)	DATE OF SAMPLING	SPM 150 mg/Nm3	SO2 100 mg/Nm3	NOX 50 mg/Nm3
	STACK ATTACHED TO				
1	BOILER GT-3507	04/06/15	6.2	7.3	3.8
		18/06/15	5.3	10.8	5.6
	STACK ATTACHED TO				
2	BOILER GT-3201	10/06/15	4.4	8.1	2.2
		27/6/2015	7.9	7.8	4.5
3	ATTACHED TO AQUEOUS & SOLID WASTE INCINERATOR	Remarks:-	When AQ.& SOLID WASTE INCINERATOR not in operation , PLANT UNDER SHUT DOWN.		

NOISE MONITORING REPORT

PRODUCT : NOISE MONITORING

IDENTIFICATION : PLANT AREA, UPL-2

DATE OF ANALYSIS : 05/01/15 20/01/15 05/02/15 20/02/15

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE ==>	5/1/15		20/01/15		5/2/15		20/02/15	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
B/H Acephate Plant	65.4	65.3	67.6	67.2	65.4	65.3	67.6	67.2
Near Canteen	53.6	53.2	55.6	52.2	53.6	53.2	55.6	52.2
B/H Evaporation Pond Towards road side	60.5	59.2	65.5	60.2	60.5	59.2	65.5	60.2
DG Room Outside (1 Meter distance in ambient)	69.5	69.3	70.4	69.5	69.5	69.3	70.4	69.5
Inside Boiler House	68.2	68.0	67.8	67.5	68.2	68.0	67.8	67.5
Near Phorate Fume Incinerator	60.8	60.6	61.5	61.3	60.8	60.6	61.5	61.3
Phorate utility (kc-12)	70.1	69.8	70.2	69.8	70.1	69.8	70.2	69.8
Acephate utility (kc-12)	70.5	69.6	70.5	69.8	70.5	69.6	70.5	69.8
Mecl utility (kc-93)	71.0	70.0	71.5	70.0	71.0	70.0	71.5	70.0

NOISE MONITORING REPORT

PRODUCT : NOISE MONITORING

IDENTIFICATION : **PLANT AREA, UPL-2**

DATE OF ANALYSIS : **05/03/15** **20/03/15** **05/04/15** **20/04/15**

DATE ==>	5/3/15		20/03/15		5/4/15		20/04/15	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	41.3	40.1	49.6	41.2	45.8	40.5	46.6	41.8
Near Tank Farm Area	42.5	41.8	58.2	45.3	43.7	41.2	44.6	41.8
B/H Alcohol Plant	56.6	54.3	50.5	48.6	59.2	53.5	59.5	54
Between DMMP & Boiler	59.1	58.2	58.8	58.2	62.4	62.4	63.2	62.6
Between ETP / Incinerator	65.6	58.5	64.8	61.6	65.8	59.4	66.2	60.3
B/H Acephate Plant	66.8	66.2	67.2	66.4	66.2	60	66.5	66.3
Near Canteen	56.8	56.2	58.4	56.1	56.8	55.5	57	56.2
B/H Evaporation Pond Towards road side	61.6	61.5	62.2	62	61.2	56.2	61.8	61.5
DG Room Outside (1 Meter distance in ambient)	69.5	69.5	69.8	69.5	69.5	69.4	69.8	69.7
Inside Boiler House	67.8	67.6	68.2	68	67.8	67.5	68.2	68.1

NOISE MONITORING REPORT

PRODUCT : **NOISE MONITORING**

IDENTIFICATION : **PLANT AREA, UPL-2**

DATE OF ANALYSIS : **05.05.15** **20.05.15** **05.06.2015** **20.06.2015**

RESULTS OF ANALYSIS

LOCATION RESULTS

DATE ==>	5/5/15		20/05/15		5/6/15		20/06/15	
TIME ==>	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
LIMIT ==>	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba	75 dba	70 dba
LOCATION								
Near Main Gate	46.6	41.0	47.2	41.2	45.8	40.3	46.6	41.2
Near Tank Farm Area	44.2	40.8	45.2	41.0	42.3	40.0	44.6	40.6
B/H Alcohol Plant	60.8	50.1	61.2	61	52.6	45.1	53.3	46.6
Between DMMP & Boiler	63.4	62.8	64.2	62.2	62.8	62.2	64.4	63.2
Between ETP / Incinerator	66	61.2	65.2	62.2	65.5	65.1	65.6	65.4
B/H Acephate Plant	68.6	60.7	69.2	61.0	67.3	67.1	67.6	67.5
Near Canteen	57.8	57.2	58.2	57.2	58.4	56.5	54.5	54.2
B/H Evaporation Pond Towards road side	62.8	55.8	63.2	55.4	63.5	60.3	63.4	60.2
DG Room Outside (1 Meter distance in ambient)	69.3	69.2	69.6	69.4	69.8	69.7	69.7	69.5
Inside Boiler House	68.2	67.8	68.4	68.2	67.4	67.4	68.2	67.8

Near Phorate Fume Incinerator	63.8	63.2	65.2	64.2	64.4	64.2	65.2	64.8
Phorate utility (kc-12)	69.6	69.4	69.2	69.3	69.5	69.4	69.8	69.5
Acephate utility (kc-12)	70.0	70.0	69.6	69.4	69.9	70	70	70.0
Mecl utility (kc-93)	71.0	70.0	70.6	70.0	70.5	70.0	70.8	70.0

Toxicity factor monitoring details for ETP out let water going to RO System
Carried out with carbon bed outlet sample (05 Fish) : JAN-2015

PRODUCT : **TOXICITY FACTOR**

IDENTIFICATION : **EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
01/01/15	7.9	96	28	1890	2	ZIBRA
04/01/15	8.0	92	26	2060	1	ZIBRA
07/01/15	8.1	84	26	2000	1	ZIBRA
10/01/15	8.1	75	22	2000	1	ZIBRA
13/01/15	8.4	92	28	2020	1	ZIBRA
16/01/15	8.1	70	22	2000	1	ZIBRA
19/01/15	7.8	66	20	2080	1	ZIBRA
22/01/15	7.4	75	22	2090	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System
Carried out with carbon bed outlet sample (05 Fish) :FEB-2015

PRODUCT : **TOXICITY FACTOR**

IDENTIFICATION : **EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
03/02/15	7.5	92	28	2080	2	ZIBRA
06/02/15	6.9	83	24	2090	1	ZIBRA
09/02/15	7.1	62	18	2060	1	ZIBRA
12/02/15	7.9	75	24	2080	1	ZIBRA
15/02/15	8.2	71	20	2030	1	ZIBRA
18/02/15	8.5	83	26	2080	1	ZIBRA
21/02/15	8.1	67	20	2020	1	ZIBRA
24/02/15	7.8	70	20	2020	1	ZIBRA
27/02/15	7.7	87	26	2070	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System
Carried out with carbon bed outlet sample (05 Fish) :MAR-2015

PRODUCT : **TOXICITY FACTOR**

IDENTIFICATION : **EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
03/03/15	7.6	86	26	2040	1	ZIBRA
06/03/15	7.8	97	28	2040	2	ZIBRA
09/03/15	8.2	97	30	2000	2	ZIBRA
12/03/15	8.1	97	28	2040	2	ZIBRA
15/03/15	8.0	75	24	2000	1	ZIBRA
18/03/15	8.1	99	28	2080	2	ZIBRA
21/03/15	7.4	97	30	2010	2	ZIBRA
24/03/15	7.0	86	24	2050	1	ZIBRA
27/03/15	6.7	96	30	2040	2	ZIBRA
30/03/15	7.5	77	24	2080	1	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System
Carried out with carbon bed outlet sample (05 Fish) :APR-2015

PRODUCT : **TOXICITY FACTOR**

IDENTIFICATION : **EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
03/04/15	7.6	85	24	2040	1	ZIBRA
06/04/15	7.7	89	24	2060	1	ZIBRA
09/04/15	7.6	85	24	2080	1	ZIBRA
12/04/15	7.0	97	30	2080	2	ZIBRA
15/04/15	7.0	97	30	2060	2	ZIBRA
18/04/15	7.0	92	28	2030	1	ZIBRA
21/04/15	7.1	84	26	2050	1	ZIBRA
24/04/15	7.4	92	28	2070	1	ZIBRA
27/04/15	6.6	88	26	2050	1	ZIBRA
30/04/15	6.7	95	28	1930	2	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System
Carried out with carbon bed outlet sample (05 Fish) :MAY-2015

PRODUCT : **TOXICITY FACTOR**

IDENTIFICATION : **EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
03/05/15	7.2	92	28	2060	1	ZIBRA
06/05/15	7.7	96	28	2080	2	ZIBRA
09/05/15	7.7	98	26	2060	2	ZIBRA
12/05/15	7.3	98	30	2070	2	ZIBRA
15/05/15	7.0	96	28	1990	2	ZIBRA
18/05/15	7.0	92	28	1890	1	ZIBRA
21/05/15	6.7	98	30	1600	2	ZIBRA
24/05/15	7.0	98	30	1180	2	ZIBRA
27/05/15	8.2	94	28	2030	1	ZIBRA
30/05/15	7.4	94	28	2080	2	ZIBRA

Toxicity factor monitoring details for ETP out let water going to RO System Carried out with carbon bed outlet sample (05 Fish) :JUN-2015

PRODUCT **: TOXICITY FACTOR**

IDENTIFICATION **: EFFLUENT DISCHARGE WATER**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	TOXICITY FACTOR	TYPE OF FISH
02/06/15	6.8	78	24	1750	1	ZIBRA
05/06/15	6.5	95	28	2060	2	ZIBRA
14/06/15	7.0	98	30	2060	2	ZIBRA
17/06/15	7.3	98	30	2060	2	ZIBRA
20/06/15	6.8	96	30	2080	2	ZIBRA
23/06/15	7.7	96	30	2070	2	ZIBRA
26/06/15	8.1	96	30	2000	2	ZIBRA
29/06/15	7.5	92	30	2070	1	ZIBRA

BIO ASSAY TEST for ETP out let water going to RO System – JAN 2015

PRODUCT **: BIO - ASSAY STUDY** **Date: 07/07/2015**

IDENTIFICATION **: EFFLUENT taken to RO System**

Q.A. DEPT. **: MONTH JAN - 2015**

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	REMARKS
01/01/15	7.9	96	28	1890	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs

04/01/15	8.0	92	26	2060	"
07/01/15	8.1	84	26	2000	"
10/01/15	8.1	75	22	2000	"
13/01/15	8.4	92	28	2020	"
16/01/15	8.1	70	22	2000	"
19/01/15	7.8	66	20	2080	"
22/01/15	7.4	75	22	2090	"
25/01/15	6.8	79	24	2050	"
28/01/15	7.0	75	24	2090	"
31/01/15	7.8	79	24	2090	"
30/07/14	7.16	94	24	1600	"

BIO ASSAY TEST for ETP out let water going to RO System – FEB 2015

PRODUCT : BIO - ASSAY STUDY

MONTH FEB- 2015

DATE	pH	COD	BOD	TDS	REMARKS
03/02/15	7.5	92	28	2080	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
06/02/15	6.9	83	24	2090	"
09/02/15	7.1	62	18	2060	"
12/02/15	7.9	75	24	2080	"
15/02/15	8.2	71	20	2030	"
18/02/15	8.5	83	26	2080	"
21/02/15	8.1	67	20	2020	"
24/02/15	7.8	70	20	2020	"
27/02/15	7.7	87	26	2070	"

BIO ASSAY TEST for ETP out let water going to RO System – MAR 2015

PRODUCT : BIO - ASSAY STUDY **Date: 07/07/2015**

IDENTIFICATION : EFFLUENT taken to RO System

Q.A. DEPT. : MONTH MARCH - 2015

RESULTS OF ANALYSIS

LOCATION RESULTS

DATE	pH	COD	BOD	TDS	REMARKS
03/03/15	7.6	86	26	2040	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
06/03/15	7.8	97	28	2040	"
09/03/15	8.2	97	30	2000	"
12/03/15	8.1	97	28	2040	"
15/03/15	8.0	75	24	2000	"
18/03/15	8.1	99	28	2080	"
21/03/15	7.4	97	30	2010	"
24/03/15	7.0	86	24	2050	"
27/03/15	6.7	96	30	2040	"
30/03/15	7.5	77	24	2080	"

BIO ASSAY TEST for ETP out let water going to RO System FOR APR 2015

PRODUCT : BIO - ASSAY STUDY

MONTH APRIL - 2015

DATE	pH	COD	BOD	TDS	REMARKS
03/04/15	7.6	85	24	2040	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
06/04/15	7.7	89	24	2060	"
09/04/15	7.6	85	24	2080	"

12/04/15	7.0	97	30	2080	"
15/04/15	7.0	97	30	2060	"
18/04/15	7.0	92	28	2030	"
21/04/15	7.1	84	26	2050	"
24/04/15	7.4	92	28	2070	"
27/04/15	6.6	88	26	2050	"
30/04/15	6.7	95	28	1930	"

BIO ASSAY TEST for ETP out let water going to RO System – MAY 2015

PRODUCT : BIO - ASSAY STUDY

IDENTIFICATION : EFFLUENT taken to RO System

Q.A. DEPT. : MONTH MAY - 2015

Date: 07/07/2015

RESULTS OF ANALYSIS

LOCATION **RESULTS**

DATE	pH	COD	BOD	TDS	REMARKS
03/05/15	7.2	92	28	2060	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
06/05/15	7.7	96	28	2080	"
09/05/15	7.7	98	26	2060	"
12/05/15	7.3	98	30	2070	"
15/05/15	7.0	96	28	2050	"
18/05/15	7.0	92	28	1890	"
21/05/15	6.7	98	30	1600	"
24/05/15	7.0	98	30	1180	"
27/05/15	8.2	94	28	2030	"
30/05/15	7.4	94	28	2080	"

BIO ASSAY TEST for ETP out let water going to RO System – JUN 2015

PRODUCT : BIO - ASSAY STUDY

MONTH JUNE - 2015

DATE	pH	COD	BOD	TDS	REMARKS
02/06/15	6.8	78	24	1750	100 % SURVIVED IN CARBON TREATED WATER FOR 96.0 Hrs
05/06/15	6.5	95	28	2060	"
08/06/15	6.3	94	22	2080	"
11/06/15	6.5	86	28	2050	"
14/06/15	7.0	98	30	2060	"
17/06/15	7.3	98	30	2060	"
20/06/15	6.8	96	30	2080	"
23/06/15	7.7	96	30	2070	"
26/06/15	8.1	96	30	2000	"
29/06/15	7.5	92	30	2070	"

FUGITIVE EMISSIONS DATA: JAN & FEB 2015
(By Our Internal Lab)

PRODUCT : **FUGITIVE EMMISION**
IDENTIFICATION : **PLANT AREA, UPL-2**
DATE OF ANALYSIS : **05/01/15** **20/01/15** **05/02/15** **20/02/15**

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER		RESULTS			
				05/01/14	20/01/15	05/02/15	20/02/15
	P D PLANT	CL2	ppm	BDL	BDL	BDL	BDL
	ACEPHATE PLANT	NH3	ppm	52 ppb	48 ppb	40 ppb	62 ppb

FUGITIVE EMISSIONS DATA: MAR & APR 2015
(By Our Internal Lab)

PRODUCT : **FUGITIVE EMMISION**
IDENTIFICATION : **PLANT AREA, UPL-2**
DATE OF ANALYSIS : **05/03/15** **20/03/15** **05/04/15** **20/04/15**

RESULTS OF ANALYSIS

Sr. No	TESTS	PARAMETER		RESULTS			
				05/03/15	20/03/15	05/04/15	20/04/15
	P D PLANT	CL2	ppm	BDL	BDL	BDL	BDL
	PHORATE PLANT	H2S	ppm	68 ppb	82 ppb	26 ppb	34 ppb
	ACEPHATE PLANT	NH3	ppm	52 ppb	48 ppb	88 ppb	46 ppb

FUGITIVE EMISSIONS DATA: MAY&JUN 2015
(By Our Internal Lab)

PRODUCT : **FUGITIVE EMMISION**
IDENTIFICATION : **PLANT AREA, UPL-2**
DATE OF ANALYSIS : **05/05/15** **21/05/15** **05/06/15** **20/06/15**

RESULTS OF ANALYSIS

Sr. No	**TESTS**	**PARAMETER**		**RESULTS**			
	P D PLANT	CL2	ppm	BDL	BDL	BDL	BDL

PHORATE PLANT	EM	ppm	49 ppb	32 ppb	48 ppb	36 ppb
ACEPHATE PLANT	NH3	ppm	96 ppb	52 ppb	1.0 ppm	52 ppb

Monitoring of VOC & Other Pollutants(By Our Internal Lab): JAN TO JUN 2015 (All Concentration in ppm)

Monitoring of VOC & other pollutants : JAN –2015 to JUNE -2015														30/01/2015
Concentration in ppb / ppm														
Date	**Plant**	**Location – Floor**	**EA**	**TOLUENE**	**MDC**	**TERBOFOS**	**PHORATE**	**ACEPHATE**	**PD**	**EM**	**TBM**	**DEVRINOL**	**TMP**	**EDC**
02.01.15	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	08 ppb	BDL	-	BDL	-
03.01.15	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	16 ppb	BDL	-	BDL	-
04.01.15	Devrinol	First	BDL	52 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
07.01.15	Devrinol	Second	BDL	58 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.01.15	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	26 ppb
12.01.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	30 ppb
15.01.15	Acephate	Ground	54 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
16.01.15	Acephate	First	62 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
05.02.15	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	22 ppb	BDL	-	BDL	-
08.02.15	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	34 ppb	BDL	-	BDL	-
10.02.15	Devrinol	First	BDL	62 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
12.05.15	Devrinol	Second	BDL	75 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
14.02.15	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	26 ppb
15.02.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	42 ppb
16.02.15	Acephate	Ground	46 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
20.02.15	Acephate	First	42 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
04.03.15	Phorate plant	Third	-	BDL	-	BDL	BDL	-	-	36 ppb	BDL	-	BDL	-
05.03.15	Devrinol	First	BDL	18 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
08.03.15	Devrinol	Second	BDL	28 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
10.03.15	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	42 ppb
12.03.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	56 ppb
13.03.15	Acephate	First	54 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
15.03.15	Acephate	Ground	46 ppb	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
02.04.15	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	68 ppb	BDL	-	BDL	-
03.04.15	Devrinol	First	BDL	32 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
04.04.15	Devrinol	Second	BDL	56 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
06.04.15	PD	Ground	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	72 ppb
10.04.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	86 ppb
11.04.15	Acephate	First	78 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.04.15	Acephate	Ground	84 ppb	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	BDL
01.05.15	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	46 ppb	BDL	-	BDL	-
02.05.15	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	58 ppb	BDL	-	BDL	-
15.05.15	Devrinol	Second	BDL	26 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
16.05.15	Devrinol	First	BDL	32 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL

Monitoring of VOC & other pollutants : JAN –2015 to JUNE -2015														30/01/2015
Concentration in ppb / ppm														
Date	**Plant**	**Location – Floor**	**EA**	**TOLUENE**	**MDC**	**TERBOFOS**	**PHORATE**	**ACEPHATE**	**PD**	**EM**	**TBM**	**DEVRINOL**	**TMP**	**EDC**
16.05.15	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	42 ppb
18.05.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	38 ppb
21.05.15	Acephate	Second	46 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
22.05.15	Acephate	First	68 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
02.06.15	Phorate plant	First	-	BDL	-	BDL	BDL	-	-	05 ppb	BDL	-	BDL	-
04.06.15	Phorate plant	Second	-	BDL	-	BDL	BDL	-	-	12 ppb	BDL	-	BDL	-
06.06.15	Devrinol	First	BDL	34 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
07.06.15	Devrinol	Second	BDL	56 ppb	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL
09.06.15	PD	First	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	16 ppb
10.06.15	PD	Second	BDL	BDL	BDL	-	-	BDL	BDL	-	-	-	BDL	20 ppb
12.06.15	Acephate	Ground	64 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL
13.06.15	Acephate	First	54 ppb	BDL	-	-	-	BDL	-	-	-	-	-	BDL

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