



UPL Limited

(Formerly known as United Phosphorus Ltd.)
CIN No. : L24219GJ1985PLC025132

Regd. Office :

3-11, GIDC, VAPI - 396 195. Gujarat INDIA

Tel. : (0260) 2400717, 2401718 - 19

REGD AD POST

UPL 00/VPI/MOEF/EC/2014 – 15/292

07 NOV 2014

To
The Ministry of Environment & Forests,
Western Region,
Kendriya Paryavaran Bhavan,
Link Road # 3, Ravi Shankar Nagar,
BHOPAL 462 016 (Madhya Pradesh)

Kind Attention: Dr. A Mehrotra
Additional Director (G)

Dear Sir,

Sub.: **EC Conditions Compliance Report for the period APR 14 TO SEP 14**
Ref.: **EC No.: J-11011/32/2007-IA-II (I) dated 23 JUL 2007**

Please find herewith the subject report for the period APR 14 to SEP 2014 with all relevant annexure for your kind perusal & records.

Trust you will kindly find the above in order.

Thanking you,

yours faithfully,
for, **UPL LIMITED,**


S K KOTHARI
SR. GENERAL MANAGER (WORKS)



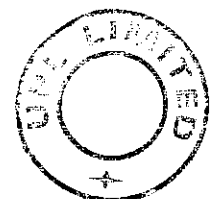
- CC: 1) The Zonal Officer, Central Pollution Control Board,
Parivesh Bhavan, Opp. VMC Ward Office, 10, Subhanpura,
Vadodara-390023
- 2) The Member Secretary,
Gujarat Pollution Control Board, Gandhinagar
- 3) The Regional Officer, Gujarat Pollution Control Board, Vapi

Compliance Report for the Period:- APR14 to SEP14
For Conditions in Environmental Clearance No.: J-11011/32/2007-IA-II(I) dated 23.07.2007
Issued by Ministry of Environment & Forests, New Delhi, for Product Addition / Expansion
Project of Existing Unit of United Phosphorus Ltd., on Plot Nos. 3 – 11, GIDC, Vapi,
Dist – Valsad, Gujarat

S. No	Conditions			Status
2	Environmental clearance for the following products & their quantities after expansion/addition			
	S.No.	Products	Capacity MTM	<ul style="list-style-type: none"> Product Mix and their quantities have under gone change as a result of CC& A amendment(s) and renewal. Latest CC & A Order No.: AWH - 60886 dated 03 – 03 – 2014 is valid up to 05 – 02 - 2019. Two adjacent units of our Company have been merged. The above CC& A is obtained after merger of the two units. Production details are attached as <u>Annexure # A.</u>
	1	Aluminum Phosphide (Fumigant)	200	
	2	Zinc Phosphide (Rodenticide)	40	
	3	Cypermethrin (Insecticide)	400	
	4	Alpha Cypermethrin (Insecticide)	10	
	5	Permerthrin (Insecticide)	100	
	6	Desmedipham (DMP) (Herbicide) Phenmedipham (PMP) Either OR	100	
	7	Bifenthrin (Insecticide)	20	
	8	Clodinofop Propargyl (UPH-203)	20	
	9	Safner (UPH-203 S) (Herbicide)	5.0	
	10	Thiomethoxam (STAR) (Insecticide)	5.0	
	11	Magnesium Phosphide (Fumigant)	8.0	
	12	Metamitron (Herbicide)	25	
	13	Sulfosulfuron (Herbicide)	2.0	
	14	Heptenophos (Pesticide)	8.33	
	15	Red Phosphorus (Non Pesticide)	80	
	16	Pesticide Formulation Product	300	
	17	Dichloro Vinyl Acid Chloride (DVACL)	300	
	18	Metaphenoxy Benzaldehyde (MPBAD)	275	
	19	ASAM	2.0	
	20	Hydrazide	20	

BY PRODUCTS

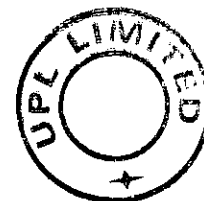
	1	Phosphoric Acid (100 %)	25	
	2	Hydrochloric Acid (30 %)	2048	



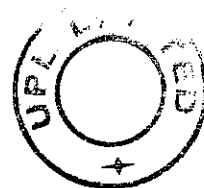
S. No	Conditions	Status
3	Spent Sulfuric Acid (46 -68 %)	1025
4	Phosphorous Oxy - Chloride	412
5	Ammonium Chloride (20%)	34.8
6	Aluminum Chloride (20 %)	1130
8	Sodium sulfite (20%)	930
3	<ul style="list-style-type: none"> The aggregate solvent recovery is about 95 %. All liquid raw material will be stored in storage Tanks and Drums and will be transported by road. Water consumption will be 3790 KLD which will be met through GIDC water supply All the incinerable waste shall be sent to the common incineration system of BEIL for incineration. Other waste shall be sent to the approved TSDF site of BEIL, Ankleshwar for which unit has membership Natural gas will be used for Boiler as alternative fuel. 	<ul style="list-style-type: none"> Complied -The aggregate recovery was 96.90% Complied Only GIDC water is used. Water consumption ranged from 1582 KLD to 1908 KLD, the Avg. being 1784 KLD. Details are attached as Annexure # B Being Complied During Period:- Apr 14 to Sept 14 -Incineration waste to BEIL, Ankleshwar @ 1301.00 MT. -Landfilling waste to BEIL, Ankleshwar @ 6071.340 MT Being Complied – <u>In all Boilers, Natural Gas is used</u>
SPECIFIC CONDITIONS:		
i	<ul style="list-style-type: none"> The gaseous emissions (SO₂, NO_x, VOC and HC) particulate matter from various process units 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. 	<ul style="list-style-type: none"> Complied. All parameters are monitored both, in - house as well as by Third Party (SGS). SGS Reports for JUN 14 attached as Annexure # C (4 pages) & all the parameters are found to be with in the permissible limits Noted
ii	New Standards for pesticides unit, as proposed by the CPCB under the E P Act, 1986 shall be followed by the Unit.	Complied.
iii	Stacks of 30.5 m will be provided with the Boilers and 15.5 m with D.G. Sets for dispersion of emissions	Complied.



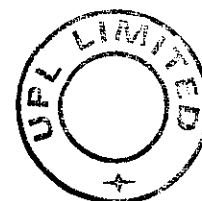
S. No	Conditions	Status
iv	<ul style="list-style-type: none"> Water /Alkali Two stage Scrubber systems, Mist Eliminator with Koch filter and Wet Scrubber with Mist Eliminator shall be installed for the boilers, Thermic Fluid heaters, D.G. Sets and process stacks from pesticides (tech), pesticide intermediates and AIP, ZnP plant. The scrubbed water shall be sent to ETP for further treatment. 	<ul style="list-style-type: none"> Complied. We have provided scrubbers to process stacks Mist eliminator & Demister are provided on ALP Reactor stacks and Mist Eliminator on ZNP Reactor Stack. SGS Monitoring reports for JUN 14 are attached as Annexure # C (4 pages) Scrubber water is sent to ETP for further treatment
v	<ul style="list-style-type: none"> Regular monitoring of emissions from the stack shall be carried out for HC and VOC, besides the criteria pollutant. Levels of HC and VOC shall also be monitored in the ambient air at various probable locations in and around the plant. 	<ul style="list-style-type: none"> Complied. Both HC & VOC are monitored on a monthly basis. The results for Ambient Air are as under: VOC(<u>microgram/nM³</u>): ranged from BDL to 6.0 mcg/nM³
vi	<ul style="list-style-type: none"> The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required in the downwind direction as well as where maximum ground level concentration are anticipated. 	<ul style="list-style-type: none"> Noted and complied
vii	<ul style="list-style-type: none"> FO as fuel in boilers shall be replaced with natural gas as early as possible. 	<ul style="list-style-type: none"> Being Complied, <u>In All Boilers, natural gas is used</u>
viii	<ul style="list-style-type: none"> Use of toxic solvents like Methylene Chloride (M.C.) etc. shall be minimized to the extent possible. No Benzene shall 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. 	<ul style="list-style-type: none"> No such chemicals are being used or generated.
ix	<ul style="list-style-type: none"> Bioassay test and toxicity index shall be carried out regularly. 	<ul style="list-style-type: none"> Complied, Both these tests are being carried out. TF factor results range from 1 to 2
x	<ul style="list-style-type: none"> All the storage tanks will be under negative pressure to avoid any leakages. Breathers, N2 blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals will be provided for pumps/agitators for reactors for reduction of fugitive emissions. Chilled Brine based condensers shall be used to prevent VOC emissions. Solvent traps shall be installed wherever necessary. 	<ul style="list-style-type: none"> Complied Provided systems as per requirement Provided system as per requirement Facilities to minimize solvent/ chemicals losses provided For control of fugitive emissions, we have provided seals on reactors. Installed pumps with mechanical seal and, closed system for handling Bromine, PCl₃, POCl₃ & Phenol. Provided on CTC storage tank.
xi	<ul style="list-style-type: none"> All venting equipment shall have vapour recovery system. All the pumps and other equipments where there is a likelihood of HC leakages shall be provided with Leak Detection and Repair (LDAR) system and LEL indicators and Hydrocarbon detectors. Provision for immediate isolation of such equipment, in case of a leakage will also be made. The company shall provide a well defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels. 	<ul style="list-style-type: none"> LDAR programme is in practice, <u>Preventive maintenance is carried out as per schedule.</u>



S. No	Conditions	Status
xii	<ul style="list-style-type: none"> Spent shall be recovered as far as possible & solvent recovery shall be further increased from the present 95% to at least 98 percent. Solvent vapours emitted during purification process from purification tanks as fugitive emissions shall be reduced as far as possible. 	<ul style="list-style-type: none"> Development of various systems to increase recovery of solvents has been taken up as an on going project. Hexane Recovery was above 97.14%. Butyl Acetate recovery above 96.94% EDC recovery above 96.4% & Toluene recovery above 95.8% The aggregate recovery was 96.9%.
xiii	<ul style="list-style-type: none"> Phosphorous shall be stored under water to prevent fuming. 	<ul style="list-style-type: none"> Being complied
xiv	<ul style="list-style-type: none"> Phosphine monitors in Aluminum Phosphide plant shall be installed. Portable monitoring instruments for other gases like Chlorine and Ammonia shall be provided. 	<ul style="list-style-type: none"> Phosphine & Chlorine monitors are installed in ALP & MPBAD Plants respectively.
xv	<ul style="list-style-type: none"> Fugitive emissions in the work zone environment, product, raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board. 	<ul style="list-style-type: none"> Being complied. Regular monitoring is done for fugitive Emissions.
xvi	<ul style="list-style-type: none"> No ground water will be used for the project. The waste water generation from the Process / Wash, Cooling Tower / Boiler water Blow down and Domestic shall not exceed 2,398 KLD which will be treated in modified and upgraded ETP of the company. After the expansion, high TDS low COD effluent will be segregated and sent to MEE and High COD low- TDS effluent will be sent to incinerator of BEIL. Cyanide bearing effluent will be detoxified and then sent to ETP after checking cyanide and pesticide levels. Only the normal effluent will be sent to company's ETP for further treatment to achieve GPCB norms. The treated effluent will be disposed off into CETP through GIDC, Vapi drainage system. 	<ul style="list-style-type: none"> Noted and complied Complied. The primary section is operated under PLC. On line type pH meter, TOC & TN meters and integral flow meters are in operation at the final discharge. Daily effluent generation was in the range of 1092 KLD to 1478 KLD with an average of 1292 KLD. as shown in ANN # B. The treated effluent is sent to CETP for further treatment and disposal. High TDS effluent is treated in MEE. Complied Complied
xvii	<ul style="list-style-type: none"> Hazardous and toxic waste generated during process like distillation residue, spent carbon, spent mixture solvents, process organic residue shall be segregated and sent for treatment and disposal. Incinerable waste shall be incinerated in a common incineration facility or otherwise these may be incinerated in a properly designed in-house incinerator with energy recovery facility The incinerator shall meet the CPCB standards and guidelines Hazardous wastes temporary storage shall be properly maintained and stock shall be minimum. Hazardous Waste containers shall be properly labeled. . 	<ul style="list-style-type: none"> Complied. We are members of the Common Incineration Facility operated by BEIL, Ankleshwar Not Applicable-as we do not have Incinerator Complied
xviii	<ul style="list-style-type: none"> Emissions from the incinerator shall be with in the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. 	<ul style="list-style-type: none"> Not Applicable



S. No	Conditions	Status
xix	<ul style="list-style-type: none"> The company shall undertake following Waste Minimization measures. <ul style="list-style-type: none"> Metering and control 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. Use of automated filling to minimize spillage. Use of Close Feed system into batch reactors. Venting equipment through vapour recovery system. Use of high pressure hoses for equipment clearing to reduce wastewater generation. 	<ul style="list-style-type: none"> Noted and shall be implemented We also have a dedicated dept working for process improvement on an ongoing basis.
xx	<ul style="list-style-type: none"> The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in 2000 for handling of hazardous chemicals. Necessary approvals from Chief Controller of Explosives must be obtained before commissioning of the expansion project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented. Regular mock drills shall be carried out for both On-site and Off-Site plans. 	<ul style="list-style-type: none"> Noted and being complied. On Site Emergency Plan is in place. Mock Drills are conducted regularly. Take active part in OFF SITE mock drill as & when organized by the Authorities.
xxi	<ul style="list-style-type: none"> All Transportation of Hazardous Chemicals shall be as per the MVA, 1989. As submitted by the unit to the Ministry, transportation of Hazardous Chemicals shall be switched over to the railways. 	<ul style="list-style-type: none"> Noted for compliance
xxii	<ul style="list-style-type: none"> The company shall develop rain water harvesting structures to harvest the run off water for recharge of ground water. 	<ul style="list-style-type: none"> Complied. We have installed the system in Administrative building.
xxiii	<ul style="list-style-type: none"> Minimum 25% of the total area shall be developed as green belt as per the CPCB guidelines. 	<ul style="list-style-type: none"> Complied As this is an existing site and area available for development is less, we have earmarked 5 Acres of Land for various plantations including teakwood trees on our nearby land on Survey no.39/1at Village Nahuli.
xxiv	<ul style="list-style-type: none"> Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. 	<ul style="list-style-type: none"> Being complied
xxv	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Being Complied Noted Being complied
xxvi	<ul style="list-style-type: none"> Usage of PPE's by all employees/ workers shall be ensured. 	<ul style="list-style-type: none"> Being complied
xxvii	<ul style="list-style-type: none"> The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP). 	<ul style="list-style-type: none"> Being complied



S. No	Conditions	Status
xxviii	<ul style="list-style-type: none"> The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water. 	<ul style="list-style-type: none"> Complied. We have installed the system in Administrative building.
xxix	<ul style="list-style-type: none"> All the recommendations made by the consultants in respect of environmental management and risk mitigation measures relating to the project shall be implemented. 	<ul style="list-style-type: none"> Complied
xxx	<ul style="list-style-type: none"> The company will undertake all relevant measures, as indicated during the Public Hearing for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration 	<ul style="list-style-type: none"> Public hearing was not conducted for this particular project as per Notification of 2006. However we have undertaken the following:- Various CSR activities including operation of school (Gnyan Dham), a College (ROFEL) and a Nursing Institute. Various other common CSR Projects like Haria Hospital etc.
xxxi	<ul style="list-style-type: none"> The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval. 	<ul style="list-style-type: none"> Supporting the common effluent treatment plant. Supporting the local notified industrial estate in municipal solid waste collection and treatment (Supported by giving technology for kitchen waste treatment). Creating Environmental awareness in local community including celebration of Energy Conservation Week & National Safety Week. Supporting Vapi Industries Association in organizing environmental activities.
General Conditions		
i	<ul style="list-style-type: none"> The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board. 	<ul style="list-style-type: none"> Noted for compliance
ii	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Noted and complied. Production was as per renewed CC & A Order No AWH-60886 dated 03/03/2014 Valid up to 05/02/2019.
iii	<ul style="list-style-type: none"> At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved. 	<ul style="list-style-type: none"> Noted and complied
iv	<ul style="list-style-type: none"> The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes. 	<ul style="list-style-type: none"> Noted and complied



S. No	Conditions	Status
V	<ul style="list-style-type: none"> The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). 	<ul style="list-style-type: none"> Noted for compliance. We are monitoring noise level regularly. Ear Muffs are used high noise areas. See Ann-D for a Report.
vi	<ul style="list-style-type: none"> The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. 	<ul style="list-style-type: none"> Being complied
vii	<ul style="list-style-type: none"> A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. 	<ul style="list-style-type: none"> Environmental Management Cell with all facilities is functioning.
viii	<ul style="list-style-type: none"> The project authorities shall earmark separate funds of Rs. 04.00 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose. 	<ul style="list-style-type: none"> Earlier the earmarked funds were utilized for up gradation of Secondary ETP @ Rs. 3.1 Crs. & installation of MEE for treating high TDS effluent stream @ Rs 1.6 Crs In FY 2011 – 12 , up grade ETP primary Section @ a cost of Rs. 7.0 Crs In FY 2012 – 13, 2 ATFD units, Capable of handling 2300 kg/hr feed @ a cost of Rs. 3.53 Crs. have been installed to improve solid handling system of TEE. Solvent Absorption system costing Rs. 55 lacs is operating in Pesticide Plant. Copper Recovery system costing Rs. 24 lacs is operating in ETP.
ix	<ul style="list-style-type: none"> The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies. 	<ul style="list-style-type: none"> Noted and complied Half yearly reports are being sent.
X	<ul style="list-style-type: none"> The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://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 concerned Regional Office of the Ministry. 	<ul style="list-style-type: none"> Complied
xi	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Noted Noted and complied We have completed the Project & obtained CC&A Order from GPCB
6	<ul style="list-style-type: none"> The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. 	<ul style="list-style-type: none"> Noted



S. No	Conditions	Status
7	<ul style="list-style-type: none"> The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions. 	<ul style="list-style-type: none"> Noted
8	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Noted



Annexure-A

Production Apr 2014 to Sept 2014

Sr No	Product	Apr-14 to Sept-14	Permissible as per AWH-60886, Dtd 03/03/14 for six month period (MT)
1	Aluminium Phosphide	1168.746	1200
2	Zinc Phosphide	151.7	240
3	Cypermethrin	1435.187	1980
4	Alpha Cypermethrin OR Beta Cypermethrin OR Imidacloprid Tech.	0.00 25.33 0	180
5	Permethrin	510.666	600
6	Desmedipham (DMP) OR Penmedipham (PMP) OR Metamitron OR Metribuzin	0 53.10 0 431.086	540
7	Bifenthrin OR Clodinofof (UPH-203) OR Thiomethaxam (STAR) OR Lambda Cyhalothrin	0 69.38 0 37.904	192
8	Safner (UPH-203 S)	12.936	30
9	Magnesium Phosphide	3.419	48
10	ASAM	0	12
11	Propanil	634.96	648
12	Pesticide Formulation Product	0	1800
13	Dichloro vinyl Chloride (DVACL)	1306.25	1800
14	Metaphenoxy Benzaldehyde (MPBAD)	1314.725	1650
15	Hydrazide	0	120
16	Red Phosphorus	257.684	480
17	Denatonium Benzoate	6	6



ANN "B"

MONTH	AVERAGE WATER CONSUMPTION (KL / DAY)	AVERAGE EFFLUENT GENERATION (KL / DAY)
Apr 2014	1,718	1,182
May 2014	1,845	1,155
Jun 2014	1,582	1,092
Jul 2014	1,776	1,478
Aug 2014	1,873	1,426
Sep 2014	1,908	1,422
Avg	1,784	1,292
Min	1,582	1,092
Max	1,908	1,478



SGS**TEST REPORT****Report No.: AEW14 – 000196.001****DATE: 25/7/2014**

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS	: EFFLUENT TREATED WATER
SUBMITTED BY	: M/S. UPL Limited Vapi
LOCATION	: FINAL EFFLUENT, GRAB SAMPLE
DATE & TIME OF SAMPLING	: 24.6.2014,
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad


Sr. No	PARAMETERS	LIMITS	RESULTS	UNIT
01**	pH	6.5 To 8.5	7.21	
02**	Temperature	40 C	31	C
03**	Color APHA	100 max.	60	
04**	Total Suspended Solids	300 (C-ETP)	48	mg/L
05**	Total Dissolved Solids	2100	8184	mg/L
06**	Oil & Grease	10	5	mg/L
07**	Phenolic Compound	1	0.261	mg/L
08**	Cyanide	0.20	0.049	mg/L
09**	Ammonical Nitrogen	50	25	mg/L
10**	COD	1000 (C-ETP)	405	mg/L
11**	BOD 5 Days @ 20 Deg. C	400 (C-ETP)	44	mg/L
12**	Chloride	600	3847	mg/L
13**	Sulphate	1000	554	mg/L
14	Sulphide	2	<0.05	mg/L
15**	Iron	<0.1	0.029	mg/L
16	Fluoride	2	<0.10	mg/L
17	Total Chromium	2	<0.10	mg/L
18	Copper	3	<1.00	mg/L
19	Lead	0.1	<0.01	mg/L
20	Nickel	3.	< 1.00	mg/L
21	Zinc	5.0	< 1.00	mg/L
22	Mercury	0.01	<0.01	mg/L
23	Arsenic	0.2	<0.05	mg/L
24	Chromium-VI +	0.1	<0.05	mg/L
25	Cadmium	2	<0.01	mg/L
26**	Bio-Assay	90% survival of fish after 96 Hrs in 100% effluent	90% survival of fish after 96 Hrs in 100% effluent	

Pesticide content in Treated Effluent sample is below detection Limit (Detection Limit: 0.00001 mg/l)

These parameters were monitored by UPL, Vapi in their own Lab & the activity was witnessed by SGS representative

**** End of Report ****

per pro SGS India Private Ltd


Authorized Signatory

1 of 1

This report is issued by the Company under its General Conditions printed overleaf. The issuance of this report does not exonerate buyers or sellers from exercising all their rights and discharging all their liabilities under the Contract of Sale. Stipulations to the contrary are not binding on the Company. The Company's responsibility under this report is limited to proven negligence and will in no case be more than ten times the amount of the fees or commission. Except by special arrangement, the test items, will not be retained by the Company for more than three months. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. The test report cannot be reproduced, except in full, without prior written permission of the Company.

The information stated in this report (or Certificate) is derived from the results of inspection or testing procedures carried out in accordance with instructions of our Clients and/or our assessment of such results on the basis any technical standards, trade custom or practice, or other circumstances which should in our professional opinion be taken into account.

TEST REPORT

Report No.: AEW14 – 000196.004

DATE: 25/7/2014

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS	: STACK ANALYSIS
SUBMITTED BY	: M/S. UPL Limited Vapi
DATE OF SAMPLING	: 24-06-2014
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad

FLUE GAS STACKS

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	24.06.14	02.30 pm	BOILER # 1 (10 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	9 1.24 0.409
2	24.06.14	03.15 pm	BOILER # 2 (8 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	13 1.09 0.421
3	24.06.14	04.00 pm	BOILER # 3 (5 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	10 1.17 0.382
4	25.06.14	08.20 am	Thermic Fluid Heater (MPBAD Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	7 1.12 0.329
5	24.06.14	09.45 am	Thermic Fluid Heater (Pesticide Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	Not In Operation
6	24.06.14	12.30 pm	Thermic Fluid Heater (Propanil Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	6 1.04 0.367
7	24.06.14	11.45 am	DG SET (1250 KVA)	SPM SO2 NOX	150 mg/NM3 100 ppm 50 ppm	134 16.77 9.428

* These parameters were monitored by UPL, Vapi in their own Lab & the activity was witnessed by SGS representative
**** End of Report ****

per pro SGS India Private Ltd


 Authorized Signatory

Page 1 of 1

This report is issued by the Company under its General Conditions printed overleaf. The issuance of this report does not exonerate buyers or sellers from exercising all their rights and discharging all their liabilities under the Contract of Sale. Stipulations to the contrary are not binding on the Company. The Company's responsibility under this report is limited to proven negligence and will in no case be more than ten times the amount of the fees or commission. Except by special arrangement, the test items, will not be retained by the Company for more than three months. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. The test report cannot be reproduced, except in full, without prior written permission of the Company.

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TEST REPORT

Report No.: AEW14 - 000196.005

DATE: 25/7/2014

PROCESS STACK

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS	: STACK ANALYSIS
SUBMITTED BY	: M/S. UPL Limited Vapi
DATE OF SAMPLING	: 24-6-2014 & 25-6-2014
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	24.6.14	09.10am	Pesticide Plant (Permethrin Reactor)	PM HCL CL2	20 mg/NM3 20 mg/NM3. 5 mg/NM3	ND 9.82 0.069
2	24.6.14	10.00am	ALP Plant Firing Chamber	PM P2O5 as H3PO4	20 mg/NM3 5 mg/NM3	3 4.29
3	24.6.14	10.50am	ZnP Plant Reactor	PM P2O5 as H3PO4	20 mg/NM3 5 mg/NM3	4 2.97
4	25.6.14	09.00am	MPBAD Plant Reaction Vessel & Bromine Recovery System	HCL CL2 HBr	20 mg/NM3 5 mg/NM3 5 mg/NM3	14.27 0.094 ND
5	24.6.14	05.30pm	ASAM	HCL CL2	20 mg/NM3 5 mg/NM3	Not in Operation
6	24.6.14	01.45pm	Lambda CYHALOTHRIN	HCL SO2	20 mg/NM3 40 mg/NM3	3.66 0.81
7	24.6.14	04.50pm	Metribuzine	H Br	5 mg/NM3	ND
8	25.6.14	11.45am	DVACL Plant (DVACL Reactor)	HCL PCL3 SO2	20 mg/NM3 9 mg/NM3 40 mg/NM3	10.72 ND 1.06
9	25.6.14	11.10am	DVACL Plant (TCBACL Reactor)	HCL PCL3	20 mg/NM3 9 mg/NM3	9.06 0.32
10	25.6.14	10.25am	DVACL Plant (P CL3 Storage Tank)	HCL PCL3 SO2	20 mg/NM3 9 mg/NM3 40 mg/NM3	10.47 0.40 ND
11	25.6.14	9.45am	DVACL Plant (Fugitive Emission)	HCL CL2 SO2	20 mg/NM3 5 mg/NM3 40 mg/NM3	5.09 0.02 0.66

Page 1 of 2

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ANN-C (4 of 4)



TEST REPORT

Report No.: AEW14 – 000196.006

DATE: 25/7/2014

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS	: AMBIENT AIR
SUBMITTED BY	: M/S. UPL. Limited Vapi
DATE OF SAMPLING	: 24-6-2014 & 25-6-2014
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	24.6.14	6.30pm	NEAR HYDRANT WATER STORAGE TANK	PM 10	100 mcg/M3	81
				PM 2.5	60 mcg/M3.	39
				HCL	200 mcg/M3	103.66
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	19.46
				NOX	80 mcg/M3	40.78
				P2O5	30 mcg/M3	ND
				PCL3	100 mcg/M3	ND
				Br2	20 mcg/M3	ND
				HBr	300 mcg/M3	ND
2	25.6.14	8.00am	NEAR GATE NO.03	PM 10	100 mcg/M3	89
				PM 2.5	60 mcg/M3.	43
				HCL	200 mcg/M3	118.34
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	21.09
				NOX	80 mcg/M3	42.16
				P2O5	30 mcg/M3	ND
				PCL3	100 mcg/M3	ND
				Br2	20 mcg/M3	ND
				HBr	300 mcg/M3	ND
3	24.6.14	8.50am	UP STAIR OF STORE	PM 10	100 mcg/M3	77
				PM 2.5	60 mcg/M3.	32
				HCL	200 mcg/M3	97.06
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	18.44
				NOX	80 mcg/M3	39.86
				P2O5	30 mcg/M3	ND
				PCL3	100 mcg/M3	ND
				Br2	20 mcg/M3	ND
				HBr	300 mcg/M3	ND

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ANN 'D'**QUALITY ASSURANCE DEPARTMENT
INSPECTION AND TEST REPORT
NOISE LEVEL MEASUREMENT**

SPECIFICATION NO. / WI. NO. : ANX / QA / 070

Permissible Limits :**[1] Between 6.00 AM and 10.00 PM : 75 db(A)****[2] Between 10.00 PM and 6.00 AM : 70 db(A)**

<u>SR.</u>	<u>Date</u>			<u>DAY</u>	<u>NIGHT</u>		
<u>NO.</u>							
<u>Near Gate No 2</u>							
1	08	04	14	3.10pm	68.2	12.30am	67.8
2	23	04	14	12.15pm	69.5	3.45am	68.2
1	13	05	14	11.20am	71.2	2.40am	69.4
2	27	05	14	2.00pm	69.2	12.15am	67.9
1	12	06	14	1.40pm	69.2	1.00am	68.8
2	23	06	14	11.05am	68.9	3.40am	67.8
1	08	07	14	1.05pm	69.3	2.30am	68.3
2	24	07	14	12.10pm	68.3	1.20am	67.4
1	06	08	14	11.30am	69.3	1.45am	67.3
2	25	08	14	2.30pm	68.8	12.05am	67.9
1	10	09	14	11.10am	69.2	2.15am	68.2
2	23	09	14	1.40pm	69.1	4.00am	68.3
<u>ENVT LAB</u>							
1	08	04	14	2.30pm	69.4	11.50pm	69.2
2	23	04	14	11.40am	69.8	3.10am	69.4
1	13	05	14	10.45am	70.3	2.05pm	68.7
2	27	05	14	1.30pm	70.1	11.45pm	9.1
1	12	06	14	1.10pm	70.0	12.30am	68.8
2	23	06	14	10.30am	69.4	3.10am	69.1
1	08	07	14	12.30pm	69.4	2.00am	69.1
2	24	07	14	11.40am	69.7	12.50pm	69.2
1	06	08	14	11.00am	69.6	1.15am	69.4
2	25	08	14	2.00pm	69.4	11.30pm	69.1
1	10	09	14	10.40am	69.2	1.45am	68.8
2	23	09	14	1.10pm	69.8	3.30am	67.2
<u>MAIN OFFICE</u>							
1	08	04	14	2.35pm	68.2	11.55pm	67.4
2	23	04	14	11.45am	69.2	3.15am	68.2
1	13	05	14	10.50am	70.1	2.15am	68.2
2	27	05	14	1.35pm	69.8	11.50pm	68.4
1	12	06	14	1.15pm	69.4	12.35am	67.3
2	23	06	14	10.35am	69.2	3.15am	68.1
1	08	07	14	12.35pm	69.2	2.05am	68.2
2	24	07	14	11.45am	69.1	12.55am	68.5
1	06	08	14	11.05am	69.2	1.20am	68.3
2	25	08	14	2.05pm	68.9	11.35pm	67.3
1	10	09	14	10.45am	68.8	1.50am	67.3
2	23	09	14	1.15pm	69.3	3.35am	67.1

