



REGD AD POST

UPL 00/VPI/MOEF/EC/2015 – 16/27

27 MAY 2015

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 OCT 14 TO MAR 15
Ref.: EC No.: J-11011/32/2007-IA-II (I) dated 23 JUL 2007

Please find herewith the subject report for the period OCT 2014 to MAR 2015 with all relevant annexure for your kind perusal & records.

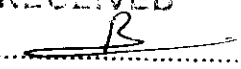
It may kindly be noted that copy of the current CCA Order No.: AWH-60886 dated 03 MAR 2014 & valid up to 05 FEB 2019 has already been submitted in your office vide our letter dated 23 MAY 2014 under which Report for the period OCT 13 to MAR 14 was forwarded.

Trust you will kindly find the above in order.

Thanking you,

yours faithfully,
for, UPL LIMITED,


S K KOTHARI
SR. GENERAL MANAGER (WORKS)

RECEIVED
Sign : 
Date : 28/05/15
G.P.C. Board, VAPI

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

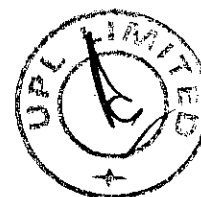
3) The Regional Officer, Gujarat Pollution Control Board, Vapi

Compliance Report for the Period:- OCT 14 to MAR 15

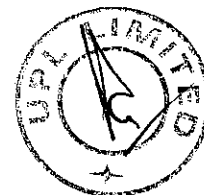
**For Conditions in Environmental Clearance No.: J-11011/32/2007-IA-II(I) dated 23.07.2007
Issued by Ministry of Environment & Forests, New Delhi, for Product Addition / Expansion
Project of Existing Unit of United Phosphorus Ltd., on Plot Nos. 3 – 11, GIDC, Vapi,
Dist – Valsad, Gujarat**

S. No	Conditions	Status
2	Environmental clearance for the following products after expansion/addition	
	S.No.	Products
	Capacity	MTM
	1	Aluminum Phosphide (Fumigant)
	2	Zinc Phosphide (Rodenticide)
	3	Cypermethrin (Insecticide)
	4	Alpha Cypermethrin (Insecticide) OR Beta Cypermethrin OR Irnidacloprid Tech.
	5	Permethrin (Insecticide)
	6	Desmedipham (DMP) (Herbicide) OR Phenmedipham (PMP) OR Metamitron OR Metribuzin
	7	Bifenthrin (Insecticide) OR Clodinofof Propargyl (UPH-203) OR Thiamethoxam (STAR) OR Lambda Cyhalothrin
	8	Safner (UPH-203 S) (Herbicide)
	9	Magnesium Phosphide (Fumigant)
	10	Red Phosphorus (Non Pesticide)
	11	Pesticide Formulation Product
	12	Dichloro Vinyl Acid Chloride (DVACL)
	13	MetaphenoxyBenzaldehyde (MPBAD)
	14	ASAM
	15	Hydrazide
	16	Propanil
	17	Denatonium Benzoate

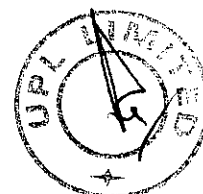
- CC & A No AWH-60886 dated 03/03/2014 Valid up to 05/02/2019.
- Company has done merger of two adjacent two units. Above CC&A obtained after merger of two units.
- CC&A copy was sent vide our letter dated 19/23-05-14 with Report for OCT 13 to MAR 14.
- Production details are attached as **Annexure # A.**



S. No	Conditions	Status
BY PRODUCTS		
1	Phosphoric Acid (100 %)	25
2	Hydrochloric Acid (30 %)	2048
3	Spent Sulfuric Acid (46 -68 %) OR Ammonium Sulphate	1025 OR 600
4	Phosphorous Oxy - Chloride	412
5	Ammonium Chloride	34.8
6	Aluminum Chloride (20 %) OR Poly Aluminium Chloride (PAC)	1130
7	Sodium Bromide solution	720
8	Sodium sulfite solution and / OR Solid Sodium sulfite <u>OR</u> Sodium Bi sulfite solution and / OR Solid Bi Sodium sulfite	930 OR 190 930 OR 190
10	KCl Salt OR KCl Solution	160 OR 900
11	Copper Hydroxide/Copper Sulphate	10
12	Sodium Sulphate (20%)	160
13	MPBAD Distillation Cut	20
3	<ul style="list-style-type: none"> 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. 	<p>Complied</p> <ul style="list-style-type: none"> Only GIDC water is used. Water consumption ranged from 1186 KLD to 2007 KLD, the Avg. being 1584 KLD. Details are attached as Annexure # B Being Complied During Period:- Oct 14 to Mar 15 - Incineration waste sent to BEIL ,Ankleshwar: 1221.19 MT. - Landfilling waste sent to BEIL, Ankleshwar: 5439.16 MT Being Complied – <u>In all Boilers, Natural Gas is used. However, FO is used as per requirement during shortage of NG</u>



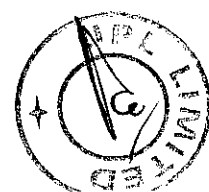
S. No	Conditions	Status
SPECIFIC CONDITIONS:		
i	<ul style="list-style-type: none"> The gaseous emissions (SO₂, NO_x, VOC and HC) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall 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 JAN 15 attached as Annexure # C (4 pages) & all the parameters are found to be within the permissible limits Noted
ii	<ul style="list-style-type: none"> New Standards for pesticides unit, as proposed by the CPCB under the E P Act, 1986 shall be followed by the Unit. 	Complied.
iii	<ul style="list-style-type: none"> Stacks of 30.5 m will be provided with the Boilers and 15.5 m with D.G. Sets for dispersion of emissions 	Complied.
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 JAN 15 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. HC is found to be below detectable limit (1µg/L) both in Ambient Air & DVACL stack VOC is found between BDL & 2.32 µg/NM³ in Ambient Air and from BDL to 3.68 µg/NM³ in DVACL Stack.
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. 	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. 	Being Complied. <u>In all Boilers, Natural Gas is used. However, FO is used as per requirement during shortage of NG</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. 	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 between 2 & 3 was observed.



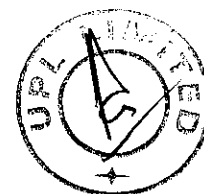
S. No	Conditions	Status
x	<ul style="list-style-type: none"> All the storage tanks will be under negative pressure to avoid any leakages. Breathers, N2 blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Magnetic seals 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 program is in practice. <u>Preventive maintenance is carried out as per schedule.</u>
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 ongoing project. Hexane Recovery was above 97.19%. Butyl Acetate recovery above 96.40% EDC recovery above 96.5% & Toluene recovery above 96% 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 average daily effluent generation is in the range of 665 KLD to 1383 KLD with an average of 1014 KLD. Avg generation is 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



S. No	Conditions	Status
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. 	<p>Complied. We are members of the Common Incineration Facility operated by BEIL, Ankleshwar</p> <p>Not Applicable-as we do not have Incinerator</p> <p>Complied</p>
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. 	Not Applicable
xix	<ul style="list-style-type: none"> The company shall undertake following Waste Minimization measures. 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. 	<p>Noted and implemented</p> <p>We also have a dedicated dept working for process improvement on an ongoing basis. Various by-products are recovered from the waste streams</p>
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. 	<p>Noted and being complied.</p> <p>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.</p>
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. 	Noted for compliance
xxii	<ul style="list-style-type: none"> The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water. 	<p>Complied.</p> <p>We have installed the system in Administrative building.</p>
xxiii	<ul style="list-style-type: none"> Minimum 25% of the total area shall be developed as green belt as per the CPCB guidelines. 	<p>Complied</p> <p>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.</p>
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. 	Being complied



S. No	Conditions	Status
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
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. • Renewed CC & A No.: AWH-60886 dated 03/03/2014 & is valid up to 05/02/2019.



S. No	Conditions	Status
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
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 graded 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.
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



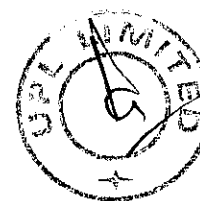
S. No	Conditions	Status
xi	<ul style="list-style-type: none"> The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project. 	<ul style="list-style-type: 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
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

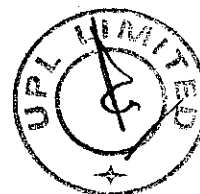
Production Oct 2014 to Mar 2015

Sr. No.	PRODUCT	PRODUCTION OCT-14 to MAR-15 (MT)	Max Permissible for 6 months as per AWH-60886 dated 03/03/14 - (MT)
1	Aluminium Phosphide	1179.647	1200
2	Zinc Phosphide	194.4	240
3	Cypermethrin	1345.398	1980
4	Alpha Cypermethrin OR Beta Cypermethrin OR Imidacloprid Tech.	0 0 0	180
5	Permethrin	464.3	600
6	Desmedipham (DMP) OR Phenmedipham (PMP) OR Metamitron OR Metribuzin	0 74.521 0 432.01	540
7	Bifenthrin OR Clodinofof Propargyl (UPH-203) OR Thiamethoxam (STAR) OR Lambda Cyhalothrin	0 138.628 0 25.525	192
8	Safner (UPH-203 S)	13.619	30
9	Magnesium Phosphide	11.415	48
10	ASAM	0	12
11	Propanil	615.986	648
12	Pesticide Formulation Products	0	1800
13	Dichloro Vinyl Acid Chloride (DVACL)	1146.371	1800
14	Metaphenoxy Benzaldehyde (MPBAD)	1441.501	1650
15	Hydrazide	0	120
16	Red Phosphorus	244.61	480
17	Denatonium Benzoate	6	6



ANN "B"

MONTH	AVERAGE WATER CONSUMPTION (KL / DAY)	AVERAGE EFFLUENT GENERATION (KL / DAY)
Oct 2014	2,007	1,383
Nov 2014	1,591	1,100
Dec 2014	1,186	665
Jan 2015	1,595	955
Feb 2015	1,518	976
Mar 2015	1,608	1,005
Avg	1,584	1,014
Min	1,186	665
Max	2,007	1,383



Report No.: AE15 – 000173.001 DATES: 19/02/2015

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	: 23.01.2015,
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad

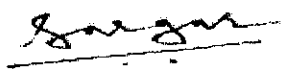
Sr. No	PARAMETERS	LIMITS	RESULTS	UNIT
01**	pH	6.5 To 8.5	7.08	
02**	Temperature	40 C	28	C
03**	Color APHA	100 max.	60	
04**	Suspended Solids	300 (C-ETP)	28	
05**	Total Dissolved Solids	2100	8122	mg/L
06**	Oil & Grease	10	4	mg/L
07**	Phenolic Compound	1	0.101	mg/L
08**	Cyanide	0.20	0.029	mg/L
09**	Ammonical Nitrogen	50	26	mg/L
10**	COD	1000 (C-ETP)	203	mg/L
11**	BOD 5 Days @ 20 Deg. C	400 (C-ETP)	22	mg/L
12**	Chloride	600	4075	mg/L
13**	Sulphate	1000	564	mg/L
14	Sulphide	2	<2.0	mg/L
15**	Iron	3	0.011	mg/L
16	Fluoride	2	0.19	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	Phosphate	5	3.84	mg/L
27	Toxicity		100% survival of fish in TF - 2	
28**	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

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TEST REPORT

Report No.: AE15 – 000173.004

DATE: 19/02/2015

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS : STACK ANALYSIS
 SUBMITTED BY : M/S. UPL Limited Vapi
 DATE OF SAMPLING : 22-01-2015
 REPORT PREPARED & SUBMITTED BY : Environmental Services, SGS-Ahmedabad

FLUE GAS STACKS

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	22.01.15	09.45 am	BOILER # 1 (10 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	131 42.15 0.224
2	22.01.15	10.30 am	BOILER # 2 (8 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	129 39.64 0.187
3	22.01.15	11.15 am	BOILER # 3 (5 TPH)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	122 32.61 0.201
4	22.01.15	02.05 pm	Thermic Fluid Heater (MPBAD Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	9 1.11 0.324
5	22.01.15	12.45 pm	Thermic Fluid Heater (Pesticide Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	Not In Operation
6	22.01.15	12.05 pm	Thermic Fluid Heater (Propanil Plant)	SPM SO2 NOX	150 mg/NM3 100 ppm. 50 ppm	7 1.18 0.306
7	22.01.15	03. 10 pm	DG SET (1250 KVA)	SPM SO2 NOX	150 mg/NM3 100 ppm 50 ppm	131 17.52 8.24

* 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

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TEST REPORT

Report No.: AE15 – 000173.005

DATE: 19/02/201

PROCESS STACK

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS : STACK ANALYSIS
 SUBMITTED BY : M/S. UPL Limited Vapi
 DATE OF SAMPLING : 22-01-2015 & 23-01-2015
 REPORT PREPARED & SUBMITTED BY : Environmental Services, SGS-Ahmedabad

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	22.01.15	5.10pm	Pesticide Plant (Permethrin Reactor)	PM HCL CL2	20 mg/NM3 20 mg/NM3 5 mg/NM3	ND 11.42 0.102
2	22.01.15	4.35pm	ALP Plant Firing Chamber	PM P2O5 as H3PO4	20 mg/NM3 5 mg/NM3	4 3.96
3	22.01.15	3.50pm	ZnP Plant Reactor	PM P2O5 as H3PO4	20 mg/NM3 5 mg/NM3	5 2.42
4	23.01.15	5.10pm	MPBAD Plant Reaction Vessel & Bromine Recovery System	HCL CL2 HBr	20 mg/NM3 5 mg/NM3 5 mg/NM3	16.28 0.106 ND
5	23.01.15	4.10pm	ASAM	HCL CL2	20 mg/NM3 5 mg/NM3	Not in Operatio
6	22.01.15	5.45pm	Lambda CYHALOTHRIN	HCL SO2	20 mg/NM3 40 mg/NM3	Not in Operatio
7	23.01.15	4.25pm	Metribuzine	H Br	5 mg/NM3	ND
8	23.01.15	8.30am	DVACL Plant (DVACL Reactor)	HCL PCL3 SO2	20 mg/NM3 9 mg/NM3 40 mg/NM3	9.08 ND 1.11
9	23.01.15	9.10am	DVACL Plant (TCBACL Reactor)	HCL PCL3	20 mg/NM3 9 mg/NM3	12.02 0.41
10	23.01.15	9.50am	DVACL Plant (P CL3 Storage Tank)	HCL PCL3 SO2	20 mg/NM3 9 mg/NM3 40 mg/NM3	10.74 0.43 ND
11	23.01.15	10.25am	DVACL Plant (Fugitive Emission)	HCL CL2 SO2	20 mg/NM3 5 mg/NM3 40 mg/NM3	5.64 0.017 0.91

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TEST REPORT

Report No.: AE15 – 000173.006 **DATE: 19/02/2015**

SAMPLE SUBMITTED AND CERTIFIED BY SUPPLIER AS	: AMBIENT AIR
SUBMITTED BY	: M/S. UPL. Limited Vapi
DATE OF SAMPLING	: 22-01-2015 & 23-01-2015
REPORT PREPARED & SUBMITTED BY	: Environmental Services, SGS-Ahmedabad

Sr.No.	DATE	TIME	LOCATION	PARAMETERS	LIMITS	RESULTS
1	23.01.15	8.15am	NEAR HYDRANT WATER STORAGE TANK	PM 10	100 mcg/M3	82
				PM 2.5	60 mcg/M3.	39
				HCL	200 mcg/M3	110.46
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	21.04
				NOX	80 mcg/M3	40.36
				P2O5	30 mcg/M3	ND
				PCL3	100 mcg/M3	ND
				Br2	20 mcg/M3	ND
				HBr	300 mcg/M3	ND
2	22.01.15	6.35pm	NEAR GATE NO.03	PM 10	100 mcg/M3	86
				PM 2.5	60 mcg/M3.	43
				HCL	200 mcg/M3	117.24
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	22.12
				NOX	80 mcg/M3	41.08
				P2O5	30 mcg/M3	ND
				PCL3	100 mcg/M3	ND
				Br2	20 mcg/M3	ND
				HBr	300 mcg/M3	ND
3	22.01.15	9.10am	UP STAIR OF STORE	PM 10	100 mcg/M3	74
				PM 2.5	60 mcg/M3.	36
				HCL	200 mcg/M3	96.37
				CL2	100 mcg/M3	ND
				SO2	80 mcg/M3	18.09
				NOX	80 mcg/M3	39.26
				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'

**INSPECTION AND TEST REPORT
NOISE LEVEL MEASUREMENT**

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>							
Near Gate No 2							
					db(A)		db(A)
1	08	10	14	1.15pm	69.2	12.10am	68.9
2	21	10	14	11.00am	68.3	1.45am	67.9
1	12	11	14	10.15am	69.1	3.35am	68.8
2	25	11	14	1.30pm	69.2	1.10am	68.2
1	09	12	14	11.40am	69.2	2.00am	68.3
2	20	12	14	2.35pm	69.4	12.20am	68.7
1	07	01	15	2.00pm	69.3	12.45am	68.4
2	21	01	15	10.30am	69.1	3.40am	68.7
1	04	02	15	12.00pm	69.2	2.40am	68.1
2	18	02	15	10.20am	69.7	12.15am	68.4
1	03	03	15	2.30pm	69.3	1.40am	69.1
2	17	03	15	12.40pm	69.2	12.25am	68.3
ENVT LAB							
1	08	10	14	12.45pm	69.8	11.30pm	69.5
2	21	10	14	10.30am	69.6	1.15am	69.3
1	12	11	14	9.45am	69.2	3.05am	68.8
2	25	11	14	1.00pm	68.9	12.40am	68.6
1	09	12	14	11.10am	69.1	1.30am	68.3
2	20	12	14	2.00pm	69.4	11.45pm	68.8
1	07	01	15	1.30pm	69.5	12.15pm	69.1
2	21	01	15	10.00am	69.9	3.10am	68.8
1	04	02	15	11.30am	69.4	2.10am	69.0
2	18	02	15	9.50am	69.3	11.40pm	68.9
1	03	03	15	2.00pm	69.2	1.10am	69.0
2	17	03	15	12.10pm	69.7	11.45pm	69.4
MAIN OFFICE							
1	08	10	14	12.50pm	69.1	11.40pm	68.2
2	21	10	14	10.35am	69.3	1.20am	69.1
1	12	11	14	9.50am	68.3	3.10am	67.9
2	25	11	14	1.05pm	68.4	12.45am	68.1
1	09	12	14	11.15am	68.3	1.35am	67.9
2	20	12	14	2.10pm	69.2	11.50pm	68.3
1	07	01	15	1.35pm	69.2	12.20am	68.3
2	21	01	15	10.05am	68.4	3.15am	67.4
1	04	02	15	11.35am	69.1	2.15am	68.3
2	18	02	15	9.55am	68.6	11.45pm	68.2
1	03	03	15	2.05pm	68.9	1.15am	68.3
2	17	03	15	12.15pm	69.1	11.50pm	67.3

