

DECEMBER 10, 2019

UPL Limited, Unit -5 Plot No.746 & 750, P.B. No.9 GIDC, Dist. Bharuch Jhagadia 393 110 Gujarat, India

w: upl-ltd.com t: +91 2645 226013 f: 191 2645 226017 UPL Limited, Unit # 05

Plot # 750 & 746, GIDC, Jhagadia, Dist - Bharuch, Gujarat

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

Dear Sir;

Sub:- Half yearly Compliance Report to conditions of Environmental Clearances obtained (Apr 2019 to Sep 2019)

Ref :- 1. Environmental Clearance No. J-11011/42/95-IA.II (I), dated. 17th May, 1996 of 100 TPD Chlor-

Alkali Plant;

- 2. Environmental Clearance No. J.13011/26/96-IA.II, dated. 24^{III} December, 1996 of 50 MW Combined Cycle Co. Generation Power Plant; and
- Environmental Clearance No. J-11011/325/2006-IA II (I) dated. 25th July, 2007 for

various products.

- Amendment for process change of Glyphosate (Technical) in Environmental Clearance No. J-11011/325/2006-IA II (I) dated. 18th September, 2009
- Amendment for process change of Carbon Di Sulphide in Environmental Clearance No. J-11011/325/2006-IA II (I) dated. 10th June, 2011
- 4. Environmental Clearance No. J-11011/80/2015-IA II (I) dated. 5th April, 2018 for expansion of and other organic chemicals

Kindly refer MoEF&CC Notification vide SO-5845-E dated 26.11.2018 regarding submission of half yearly EC Compliance Reports to MoEF&CC.

We are submitting herewith the half yearly compliance report to the above 04 (four) Environmental Clearances obtained to our Unit from MoEF.

We are operating our plants with valid Consents & Authorization from Gujarat Pollution Control Board (copy of CC&A is attached along with report). Out of the various products mentioned in EC, we are manufacturing Mancozeb, Pendimethylene, Carbon Di Sulphide and Glyphosate (OR Glufosinate), Acrolein, Antracol, PCL3, POCL3, TPPI, TTDP, DMPAT, MO,

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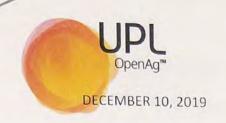


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The Additional PCCF
Ministry of Environment, Forests & Climate Change
Western Region Office,
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Caustic Chlorine,

Caustic Chlorine, UPDT which have been included in our Consent. Company has also obtained a CC&A amendment for Coal based power plants and 2 (two) @130 TPH boiler, Formulation products, and additional plants (DVACL, MPBAL and S-Metolachlor etc) as per the EC / NOC obtained.

Unit has obtained Environmental clearance vide letter No. J-11011/80/2015-IA II (I) dated. 5th April, 2018 for expansion of Agro and other chemicals. We have applied for EC to Consent to Operate (CTO). Once we obtained Consent to Operate from SPCB, we will start production at our unit.

Our Unit has invested Rs. 249.39 Crores in Environmental Management System so far and the investment detail is attached along with the report.

We hope that above information is sufficient.

Thanking you,

Yours faithfully, For, **UPL Limited**

Oky

Anil C Mundada Unit Head

Encl : a/a

Copy to: TI

The Zonal Officer

Central Pollution Control Board

Parivesh Bhavan, Opp-VMC Ward Office # 10,

Subhanpura,

Vadodara - 390 023.

: The Regional Officer

Gujarat Pollution Control Board

Ankleshwar - 393 002.

GPCB XGN ID # 25353

LIST OF ANNEXURES				
ANNEXURE-1	Copy of CTE & CC&A Obtained			
ANNEXURE-2	Third Party Analysis Reports			
ANNEXURE-3	CSR Activities			
ANNEXURE-4	Compliance Status for MoEF letter no. UJH/PRO/17/2007 dated 14 th May 2007 for the solvent and reactants storage			
ANNEXURE-5	Copy of EC obtained dated, 5th April, 2019			
ANNEXURE 6	Compliance of Hazardous Waste Rules			
ANNEXURE 7	Compliance of MISHC Rules			

Compliance Report for Environmental Clearance No. J-11011/42/95-IA.II (I), dated 17th May, 1996 of 100

TPD Chlor-Alkali Plant for period Apr 2019 to Sep 2019

Sr. No.	Co	ondition		Compliance	e Status
	clearance is accorded to	the project for manufacturing	The unit has obtained Environmental Clearances further for expansions. As per late Environmental Clearance granted by MoEF&CC & GPCB CC&A – AWH 94827 date 9/7/2018, the capacities are revised as below.		
		TPD hydrogen gas subject to		Product	Quantity in MT/Month
_		e following conditions and	1	Caustic Soda Lye (48%)	4680
	environmental safeguar	ds:	2	Chlorine Gas	3972
			3	Hydrogen Gas	225
			4	HCl	1200
	and the State govt.	Ankleshwar) is as follows and detail report is attached as Annexure- 2: All results are well within GPCB permissible limit. Complied. Stack Monitoring Result (Period Apr-Sep 2019)			
		Monitoring Result (Range value		GPCB Permis	sible Limit
	Parameter	of Apr-Sep 2019)	-	Gr CD r errins.	Sible Limit
Flue Ga	s Stack Emissions- Fuel as	Imported Coal			
		Sta	ick attached t	o power plant	
	PM	19.1 – 48.6 mg/nm3		100 mg/	/nm3
	SO2	17.5- 38 ppm		100 թյ	•
	Nox	13.3-27.5 ppm	50ppm		
	Stack attached to Thermic fluid heater-TPPI plant- Fuel as Natural Gas				
	SPM	9.4-29.7 mg/nm3	150 mg/nm3		
	Sox	5.9-21 ppm	100 ppm		
	Nox	7.7-15.8 ppm		50 pp	om
Process	Stack Emission				

Sr. No. Co	ondition		Compliance	Status		
Process Stac	k Attached To	Unit	Parameter	Min	Max	GPCB Limit
	Phosphoru	s Trichloride Plant	(PCL3)		ı	
50.0	_	mg/nm3	HCI	13.8	5.5	20
PCL3 I	Process	mg/nm3	CI2	BDL	BDL	9
DCI 2 storage tank and dr	um filling station sorubbor	mg/nm3 mg/nm3	PCI3 PCI3	BDL BDL	BDL BDL	9
PCL3 storage tank and dr		ustic Chlorine plant		DUL	DDL	<u> </u>
56 TP	D CCP	mg/nm3	HCI	11	BDL	20
	PD CCP	mg/nm3		BDL	BDL	9
	D CCP	mg/nm3	Cl2	15.1	5.7	20
			HCI	_		+
100 TF	PD CCP	mg/nm3	CI2	4.6	BDL	9
TDD: / DDD/ DDMD	IPI	PA/BDP/DPMP Plant	<u> </u>	440	DDI	00
TPPa / BDP/ DPMP		mg/nm3	HCI	14.8	BDL	20
	Phosphorus oxychlori	de (POCI3) / Phospi	norus Thiochlori	de		
POCL3/PSCL3		mg/nm3	HCI	7.3	BDL	20
	MANCO	ZEB / ANTRACOL p	lant		II.	I.
Mancozet	o / Antracol	mg/nm3	H2S	BDL	BDL	5
Mancozet	o / Antracol	mg/nm3	CS2	56.3	BDL	180
Mancozet	o / Antracol	mg/nm3	SPM	17.9	11.3	20
Mano	cozeb	mg/nm3	SPM	18.4	14.6	20
	Glyphosate / Gl	Ufocinate / FOSTHI	l l			
	Olyphodulo / OL	mg/nm3	HCL	14.8	4.9	20
	hiazate (IKI 1145)/	mg/nm3	NH3	27.5	14.2	30
Sulfentrazone	/Boscalid Tech	mg/nm3		BDL	BDL	20
		mg/nm3	HC NH3	17.2	BDL	30
	osate /	mg/nm3	HC	BDL	BDL	20
GLUtO	SINATE	mg/nm3	HCL	16.6	BDL	20
		Di Sulphide (CS2) P				
Carbon Di Sulp	hide (CS2) Plant	mg/nm3	H2S	BDL	BDL	10
		DVACL PLANT	<u> </u>			
	ACL	mg/nm3	HCI	8.9	7.4	30
	CI/TEP ACI-/	mg/nm3 mg/nm3	SO2 OR NH3 HCI	56.2 BDL	BDL BDL	175 20
	OLEIN	mg/nm3	VOC	BDL	BDL	20
,	<u> </u>	MPBAL	, , , ,			
		mg/nm3	H2S	BDL	BDL	10
		mg/nm3	CS2	60.2	BDL	180
	IATE PLANT (N Alkylated e OR 2 Ethyl 6 Methyl N N	mg/nm3	NOX	14.5	BDL	25
	e OR 2 Ethyl 6 Methyl N N) / UPDT (Saponified	mg/nm3	CO	BDL	BDL	100
Polyacrylonitrile Starch Graft Polymer)		OR				
			OR NH3	OR 95.1	0R	OR 175
		mg/nm3	NH3	85.1	15.8	175
PARAMETERS	Ambient Air M Range	onitoring Result (April-S	Sep 2019) GPCB Permiss	ihle Limit		
PM10	36.5-75.4 μg/m3		100 μg/			
PM2.5	15-42 μg/m3		60 μg/r			
SOX	13-42 μg/m3 14.7-35.9 μg/m3		80 μg/r			
NOx	11.7-25.7 μg/m3		80 μg/r			
NUX	11.7-25.7 µg/m3		ου μg/1			

Sr. No. Co	ondition	Compliance Status
CO (AIR)	BDL	4 mg/m3
AMMONIAB(AIR)	BDL	400 μg/m3
OZONE (O3)	BDL	180 µg/m3
ARSENIC as As	BDL	6.0 ng/m3
LEAD as Pb	BDL	1.0 μg/m3
NICKEL as Ni	BDL	20 ng/m3
BENZENE as C6H6	BDL	5.0 ng/m3
BENZOPYRENE (BaP)	BDL	1.0 ng/m3

Effluent Discharge Range (Apr -Sep2019)

Sr. No.	Parameters	GPCB Permissible Limit (All Units are in PPM Except pH & Temp)	3 rd party results (Range for Apr-sep2019)
1.	рН	6.5-8.5	6.6-7.14
2.	COD (mg/L)	250	43-219
3.	SS (mg/L)	100	24-63
4.	Amm. Nitrogen (mg/L)	50	BDL - 18.5
5.	BOD3 27°C	100	12-65
6.	Temperature	Shall not Exceed more than 5Deg c above the ambient water temperature	28.1-32-2
7.	Total Kjedal Nitrogen	50	BDL - 36.4
8.	Nitrate – Nitrogen	50	14.2 – 31
9.	Flouride (F)	15	BDL – BDL
10.	Sulphides as S	5	BDL-BDL
11.	Phenolic Compounds	1	BDL-BDL
12.	Total Residual Chlorine	1	BDL - 0.96
13.	Zinc (Zn)	1	0.1045-0.8359
14.	Iron (Fe)	3	0.0897 - 0.3787
15.	Copper (Cu)	1	BDL – 0.097
16.	Manganese (Mn)	1	0.0096 - 0.0692
17.	Cyanide (CN)	0.2	BDL – BDL
18.	Vanadium	0.2	BDL – BDL
19.	Hexavalent Chromium 6++	0.1	BDL - 0.0515
20.	Selenium (Se)	0.05	BDL – BDL
21	Antimony (Sb)	0.1	BDL – BDL
22.	Cadmium (Cd)	0.015	BDL - 0.0136
23.	Lead (Pb)	0.05	BDL - 0.0468
24.	Mercury (Hg)	0.005	BDL – BDL
25.	Molybdenum (Mo)	0.35	BDL – BDL
26.	Nickel (Ni)	0.1	BDL - 0.0422
27.	Total Arsenic (Ar)	0.05	BDL – BDL
28.	Total Chromium (Cr)	0.25	BDL - 0.0938
29.	Phosphate (P)	5	BDL – 4.5
30.	Sulphur	0.03	BDL – BDL
31.	Benzene Hexachloride (BHC)	0.01	BDL - BDL
32.	Carbonyl	0.01	BDL - BDL

Sr. No.	Condition		Compliance Status		
33.	Copper Sulphate	0.05	BDL - BDL		
34.	Copper Oxychloride	9,6	BDL - BDL		
35.	DDT	0.01	BDL - BDL		
36	Dimethoate	0.45	BDL - BDL		
37.	2,4 D	0.4	BDL - BDL		
38.	Endosulphan	0.01	BDL - BDL		
39.	Fenitothrion	0.01	BDL - BDL		
40.	Malathion	0.01	BDL - BDL		
41	Methyl Parathion	0.01	BDL - BDL		
42.	Paraquat	2.3	BDL - BDL		
43.	Phenathoate	0.01	BDL - BDL		
44.	Phorate	0.01	BDL - BDL		
45.	Proponil	7.3	BDL - BDL		
46	Pyrethrums	0.01	BDL - BDL		
47.	Ziram	1	BDL - BDL		
48.	Other Pesticides	0.1	BDL - BDL		
49.	Bio Assay Test	90% Survival after 96 Hrs in 100% Effluent	PASS		
50.	Color & Odour	All Efforts shall be made for removal of color and unpleasant odour as far as possible	Agreeable		
No further expansion or modification in the plant we have not done any modification in the plant without proper approval from the should be carried out without prior approval of this Ministry. Ministry. Complied.					

Sr. No.	Condition		Complia	nce Status			
iii	Gaseous (Cl ₂ , SO ₂ , NO _x & HC) and particulate emission						
	from the various process vents and storage tanks should conform to the standards prescribed by the				d by GPCB.		
	competent authorities from time to time. At no time,	Process Stack					GPCB
	the emissions level should go beyond the prescribed	Attached To	Unit	Parameter	Min	Max	Limit
	standards. In the event of failure of any pollution		rus Tri Ch	loride Plant	(PCL3)	•	'
	control system adopted by the units, the respective unit should be put out of operation immediately and		mg/nm3	HCI	13.8	5.5	20
	should not be restarted until the pollution control	PCL3 Process	mg/nm3	Cl2	BDL	BDL	9
	measure are rectified to achieve the desired efficiency.		mg/nm3	PCI3	BDL	BDL	9
		PCL3 storage tank and drum filling station scrubber	mg/nm3	PCI3	BDL	BDL	9
			Caustic Ch	nlorine plant			
		56 TPD CCP	mg/nm3	HCI	11	BDL	20
		100 TPD CCP	mg/nm3	CI2	BDL	BDL	9
		56 TPD CCP	mg/nm3	HCI	15.1	5.7	20
		100 TPD CCP	mg/nm3	CI2	4.6	BDL	9
		7	PPA/BDP	/DPMP Plant	l	l	ı
		TPPa / BDP/ DPMP	mg/nm3	HCI	14.8	BDL	20
		Phosphorus oxychl	oride (PO	Cl3) / Phosph	orus T	hiochlo	oride
		POCL3/PSCL3	mg/nm3	HCI	7.3	BDL	20
		MAN	COZEB / A	NTRACOL pl	ant		L
		Mancozeb / Antracol	mg/nm3	H2S	BDL	BDL	5
		Mancozeb / Antracol	mg/nm3	CS2	56.3	BDL	180
		Mancozeb / Antracol	mg/nm3	SPM	17.9	11.3	20
		Mancozeb	mg/nm3	SPM	18.4	14.6	20
		Glyphosate /	GLUfocina		ZATE	Plant	
		Glyphosate /	mg/nm3	HCL	14.8	4.9	20
		Fosthiazate (IKI 1145)/	mg/nm3	NH3	27.5	14.2	30
		Sulfentrazone/Boscalid Tech	mg/nm3	HC	BDL	BDL	20
		Glyphosate /	mg/nm3	NH3	17.2	BDL	30
		GLUfOSINATE	mg/nm3	HC	BDL	BDL	20
			mg/nm3	HCL	16.6	BDL	20
		Carbo Carbon Di Sulphide		hide (CS2) Pl		1	1
		(CS2) Plant	mg/nm3	H2S	BDL	BDL	10
			DVACL	. PLANT			
		DVACL	mg/nm3	HCI	8.9	7.4	30
		DVACI/TEP	mg/nm3	SO2 OR NH3	56.2	BDL	175
		DVACI-/	mg/nm3	HCI	BDL	BDL	20
		ACROLEIN	mg/nm3	VOC BAL	BDL	BDL	20
		PESTICIDE		H2S	BDL	BDL	10
		INTERMEDIATE	mg/nm3				
		PLANT (N Alkylated	mg/nm3	CS2	60.2	BDL	180
		Xyledene OR HRT Ketone OR 2 Ethyl 6	mg/nm3	NOX	14.5	BDL	25
		Methyl N N Aniline OR	mg/nm3	CO	BDL	BDL	100
		MPBAL) / UPDT (Saponified		OR			
		Polyacrylonitrile Starch Graft Polymer)	mg/nm3	NH3	85.1	15.8	175

Sr. No.	Condition	Compliance Status			
	At least three ambient air quality monitoring stations should be established in the downwind as well as where maximum ground level concentrations of SPM, SO ₂ , NO _x and Cl ₂ are anticipated. The selection of the AAQ monitoring stations should be based on modeling exercise to represent short term ground level concentrations sensitive targets etc. in consultation	monitoring of PM10, PM2.5, SO2, I in all stacks to meet the stipulation submit AAQ & stack monitoring o Pollution Control Board (GPCB) e Ankleshwar is given below;	NOX and Cl2. Adequate scrubben on given by State Pollution Contr data to the Ministry every six	er system is provided ol Board (GPCB). We month and to State	
	with the SPCB. Stack emissions should also be regularly monitored by installing stack monitoring devices in consultation	Parameter	Average Monitoring Results (Apr-Sep 2019)	GPCB Permissible Limit (mg/nm3)	
	with the State Pollution Control Board.	Flue Gas Stack En	nissions- Fuel as Coal & Natural	Gas	
	Data on AAQ and stack emission should be submitted regularly to this Ministry once in six months and the		attached to power plant		
	State Pollution Control Board once in three months		19.1 – 48.6 mg/nm3	100	
	along with the statistical analysis and interpretation.	SO2	17.5- 38 ppm	100	
		Nox	13.3-27.5 ppm	50	
		Stack attached	to Thermic fluid heater-TPPI pla	nt	
		SPM	9.4-29.7 mg/nm3	150	
		Sox	5.9-21 ppm	100	
		Nox	7.7-15.8 ppm	50	
		Process Stack Emissio	n – Please Refer Compliance Poi	int No 3	
		AAQ monitoring result:			
		PARAMETERS	Avg Monitoring Result (Apr-Sep 2019)	GPCB Permissible Limit (µg/m3)	
		PM10	36.5-75.4 μg/m3	100	
		PM2.5	15-42 μg/m3	60	
		SOx	14.7-35.9 μg/m3	80	
		NOx	11.7-25.7 μg/m3	80	
		CO (AIR)	BDL	4 mg/m3	
		AMMONIAB(AIR)	BDL	400	
		OZONE (O3)	BDL	180	
		ARCENIC as As	BDL	6 ng/m3	
		LEAD as Pb	BDL	1	
		NICKEL as Ni	BDL	20 ng/m3	
		BENZENE as C6H6	BDL	5 ng/m3	
		BENZOPYRENE (BaP)	BDL	1 ng/m3	
		Detail report is attached as Annext All parameters are well within G Complied.			

Sr. No.	Condition	Compliance Status				
	Fugitive emissions should be controlled, regularly monitored and data recorded. Chlorine sensors should be installed in the chlorine storage area at lower level between the tanks.	guards, mechanical seals for pumps and reactors etc. We are monitoring fugiti emissions using portable monitors for Cl2, H2S and CS2. However, there are no su standards for fugitive emissions. We have installed 19 Chlorine sensors at various locations & monitored on D			and reactors etc. We are monitoring fugitive r Cl2, H2S and CS2. However, there are no such	
		The a Cl2 in H2S (CS2 i	regularly. The average monitored values are as follows; C12 in the range of 0 – 0.01 ppm against the limit @ 1 ppm. H2S @ NIL against the limit @ 10 ppm. CS2 in the range of 0 – 0.01 ppm against the limit @ 10 ppm. Additionally, we are also checking VOC for controlling fugitive emissions and VOC monitoring report is also attached herewith.			
VI	Liquid effluents coming out of the plant should		plied.			
	conform to the standards as prescribed by the State Pollution Control Board and the Ministry of Environment and Forests under the Environment (Protection) Act, 1986. Recycling and reuse of the treated waste water should be maximized to the extent possible.	eparty (BEIL, Ankleshwar) and all parameters are well within prescribed limit given fState Pollution Control Board (GPCB)/ MoEF.			neters are well within prescribed limit given by MoEF. ion reused in Brine make up & Cooling tower ter recycling system with total capacity of 1580 plant with 75% recovery). The recovered water s. Treated effluent is being discharged to deep beline system developed by NCT (CETP). The	
		SR. No.	PARAMETERS	GPCB PERMISSIBLE LIMIT	3rd PARTY AVERAGE RESULT (Apr-Sep 2018)	
		1	рН	6.5-8.5	6.6-7.14	
		2	COD (mg/L)	250	43-219	
		3	SS (mg/L)	100	24-63	
		4	Amm. Nitrogen (mg/L)	50	BDL-18.5	
		as Âr	arameters are wo nnexure-2. plied.	ell within GPCB ¡	permissible limit and detailed report is attached	
	Adequate measures for the control of noise should be taken so as to keep noise level below 85 dB in the work environment.		(BEIL, Ankleshw			
	blowers, compressors etc. should be provided with well-designed ear muffs/plugs. Besides, measures	gEar muffs & ear plugs are provided to the person working in high noise area like ${\rm H_2}$ compressor, & air compressor.				
viii	Occupational health surveillance programme should be undertaken as regular exercise especially with respect to exposure to chlorine, thermal stresses and noise pollution	Complied. The company is having full time medical doctor and Occupational Health & Safety. Pre-employment and routine medical examinations are being carried out. We are also doing full body medical checkup by external expert agency once in two years. All medical records are being maintained and attached herewith.				
		Com	plied.			

Sr. No.	Condition	Compliance Status
	A green belt of adequate width and density (2000- 2500 trees/ha.) covering 25 acres of land should be developed preferably using native plants species in consultation with the local DFO.	total 67.9 acre of the land has been developed as green belt area. We also do tree
	Final treated liquid effluent should be used for developing the greenery.	
	Suitable alarm system and standard procedure for transmitting the information on accidental release of chlorine to the nearby areas and proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided.	Disclosure of Information on CL2 to general public is given regularly. We have provided internet access to our control room for any weather updates. In addition, we have also installed 25 wind socks inside the factory premises.
	Necessary approval may be taken from the Explosive Department/ Chief Inspector of Factories regarding the safety of the pressure vessels, storage tanks etc.	
xi	Hazardous wastes should be handled as per the Hazardous Waste (Management & Handling) Rules, 1989 of the EPA, 1986	of the Authorization given by GPCB under the HWM Rules. In addition to this, Yearly Hazardous Waste return is being submitted to GPCB regularly.
		We are disposing our hazardous wastes (landfilling wastes and incineration wastes) to TSDF site of BEIL Ankleshwar. The summary of Hazardous Waste disposed for reporting period is enclosed with compliance report & Compliance of Hazardous Waste Rules 2016 is enclosed as Annexure 6.
		Complied.
xii	Handling, manufacture, storage and transportation of hazardous chemicals should be carries out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994	drills are conducted. MSDS of all materials are available in the premises. The compliance of MISHC Rules is enclosed as Annexure 7.
xiii		The unit has separate Environmental laboratory division & regular analysis is being done for waste water, stacks & ambient air, noise etc. and the results are well within limit prescribed by GPCB. The laboratory head is directly reporting to the respective Unit Head.
		Complied.
	suitably qualified people to carry out various functions should be set up under the control of Senior Executive, who will report directly to the Head of the Organization	Internal Environment management cell comprising of Unit Head, plant Head, SHE Head & Corporate Environment head is in operation for close monitoring. The environment cell verifies environmental performance and involves in environmental audit. The Environment Head reports to Chief Operating Officer. Complied.
	protection measures should not be diverted for any other purposes and year-wise expenditure should be	Project has been commissioned since 1997 with compliance of all environment related measures. Statement of expenditure is submitted along with this half yearly to MoEF. The investment for Environmental Protection Measures at the site is Rs 249.39 crores as on today. The list for total expenditures earmarked for EMP is attached as an attachment.
xvi	Six monthly reports on the compliance status of	Complied. The six monthly compliance report is being submitted regularly to the Ministry. Last
	project implementation vis-à-vis above environmental measures should also be submitted to regional Office	compliance report was submitted for the period of October 2018- March 2019.

Sr. No.	Condition	Compliance Status
3	This Ministry or any competent authority may stipulate any further condition (s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located in M.P. (Bhopal)	
4	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	
5	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974; the Air (Prevention & Control of Pollution) Act, 1981; the Environment (Protection) act, 1986 and the public Liabilities Insurance Act, 1991 with their amendments and rules	

Compliance Report for Environmental Clearance No. J.13011/26/96-IA.II, dated 24th December, 1996 of 50 MW Combined Cycle Co. Generation Power Plant for period Apr 2019 to Sep 2019

Sr. No.	Condition	Compliance Status
	The proposal for setting up of 50 MW Naphtha Based Captive Power Plant at Jhagadia, Dist. Bharuch, Gujarat, has been examined from environmental angle and clearance is hereby accorded subject to the following terms and conditions:	
	All the conditions stipulated by Gujarat Pollution Control Board vide their letter No. PC/NOC/BRCH/1600/7518 dated 31st July, 1996 should be strictly implemented	The compliance status for all conditions given by GPCB is as follows;

COMPLIANCE TO GPCB LETTER # PC/NOC/BRCH/1600/7518 dated 31st July, 1996 for 50 MW Naphtha based Co-Generation Power Plant

Sr No.	Sr. No	Description	Status as on October 2019
(A)	(i)	The following units shall be installed for the treatment of effluent: • Equalization tanks • Neutralization tanks	We have installed all effluent treatment systems mentioned in the letter. ETP plant is under operation & performance is satisfactory. Complied.
		 Settling tanks Heavy metal removal system Sludge drying beds Secondary treatment (if required) 	
	(ii)	Quantity of the effluent shall not exceed 4166 m3/day. Out of which 3800 m3/day of waste water generated from the stream like cooling tower blow down etc. shall be re-cycled to reduce the quantity of waste water to be discharged in to the environment.	Average 110.13 m3/ day of effluent is generated from the power plant and being sent to R.O system of 380 KL/day for treatment. The permeate is recycled back in to cooling tower to reduce overall effluent generation load. Complied.
	(iii)	The quantity of industrial effluent shall conform to the following standards:	We do wastewater (feed to R.O system) monitoring internally through lab and results are as follows:

Sr No.	Sr. No			Description				Status	s as on October 2	019	
		Sr No	Source	Parameters	Permissible Limit		SR. No.	PARAMETERS	Range (Apr- Sep 2019)	Unit	
		(-)	Candanasta	-11	C F += 0 F		1	рН	6.6-7.14		
		(a)	Condensate cooling	pH	6.5 to 8.5		2	Temperature	28.1-32.2	°C	
			water	Temperature	Not more than 5°C		3	SS (mg/L)	25-63	mg/L	
			(Once through	Free available	higher than		4	Free Chlorine	BDL - 0.96	mg/L	
			cooling	Chlorine	the receiving		5	Oil & Greece	BDL – BDL	mg/L	
			system)		water		6	Total Copper	BDL - 0.0571	mg/L	
					temperature		7	Total Iron	0.089-0.378	mg/L	
					0.5 mg/l		8	Total Chromium	BDL - 0.09	mg/L	
		(b)	Boiler blow	Suspended	100 mg/l		9	Phosphate as P	2.1-4.5	mg/L	
			down	solids	10 mg/l	mg/l	10	Zinc as Zn	0.105-0.083	mg/L	
				Oil & Greece Total Copper	1 mg/l		11	Total Hexavalent Chromium	BDL - 0.05	mg/L	
		(c)	Cooling water blowdowns	(as Cu) Total Iron (as Fe) Free available Chlorines Zn (as Zn) Hexavalent Chromium (as Cr) Total Chromium (as Cr) Phosphate (as P)	0.5 mg/l 1 mg/l 0.1 mg/l 0.2 mg/l 5 mg/l	att		d herewith.	in prescribed GP	CB limit. Analysis report	is
		(d)	Combined effluent	pH Oil & Greece Suspended solids Hexavalent Chromium (as Cr) Total Copper (as Cu) Total Iron (as	6.5 to 8.5 10 mg/l 100 mg/l 0.1 mg/l 1 mg/l 1 mg/l 1mg/l 5 mg/l						

Sr No.	Sr. No		D	escription			Status as on October 2	2019		
				Fe) Zinc (as Zn) Phosphate (as P)						
	(iv)	throug		eline into th	be disposed of e underground			deep sea directly through eveloped by NCT (CETP).		
	05	tank/so with i separa and	oak pit syster ndustrial efflu	n or it shall b ent or its sh m to the follo utilized or	through septic e treated along nall be treated owing standards n land for	Sewage water is treated along with industrial effluent in our full-pledge ETP. Complied.				
		BOD:	Less than 20 m	g/l						
		Susper	nded solids: Les	s than 30 mg/l						
		Residu	al Chlorine: mir	nimum 0.5 ppm	1					
(B)		The following shall be applicable for the emission of gases:								
	(i)	Neptha used as	-	and HSD- 1.67	KL/day shall be	We are not using Naphtha as fuel anymore. We have switched over to coal fired power plant now. Complied.				
	(ii)		height: 30 m ed to boiler/fur		e ground level	We have maintaine ground level. Complied.	ed all process stack height	at least 30 meter from the		
	(iii)	followi Parar	ng limits: neters	Permissi			d party (BEIL, Ankleshwar	captive power plant and) monitoring results are as		
			culate matter	150 mg/		Parameters	Range (Apr-Sep 2019)	GPCB Permissible Limit 100 mg/nm3		
		SO2 NOx		100 ppm 50 ppm		Particulate matter	19.1 – 48.6 mg/nm3	100 (118/111113		
				1 1-1-		SO2	17.5- 38 ppm	100 ppm		
						NOx	13.3-27.5 ppm	50 ppm		
						Complied.	well within permissible lim	it prescribed by GPCB.		
	(iv)	premises of the industry): Suspended particulate 200 microgram/m3			We do ambient air	monitoring internally throu (BEIL, Ankleshwar) and sui	_			
					Parameters	Range (Apr-Sep	2019)			
		Sulph	er nur dioxides	80 micros	gram/m3	PM10				
			gen oxides	80 micros		PM2.5	15-42 μg/n	13		
						SOX	14.7-35.9 μg,	/m3		
						NOX	11.7-25.7 μg,	/m3		

Sr No.	Sr. No	Description	Status as on October 2019
			*Ambient Air Monitoring is done as per CPCB guideline (AAQMs, 2009). All parameters are well within permissible limit prescribed by GPCB. The detailed report is attached as Annexure-2. Complied.
(C)		Green belt development: A green belt of at least 15 meters width shall be developed all along the East, West and North boundaries and 30 meter width along the Southern of plot in such a way so that density of tree shall be at least 1000 trees per acre of greenbelt area.	Presently we have about 1374.2 Nos. of trees (big trees) per hectare of total land and total 67.9 acre of the land has been developed as green belt area. We also do tree plantation in surrounding villages as CSR activity and the report is attached herewith.
(D)		Adequate arrangement for the management and handling of hazardous waste shall be made.	We have Constructed Hazardous/ Incinerable Waste Storage as per CPCB Guideline. Complied.
(E)		Important Note:	
	1.	This letter is issued to enable the applicant to be eligible for plot/shed allotment, N.A. permission, Sanction of full amount of financial loan/assistance. Based on this letter the applicant/entrepreneur is eligible for the receipt of financial assistance to the extent of 25% of the total project cost; so that the pollution control facilities can be installed prior to or simultaneously with the implementation of the main project.	
	2.	The Board will issue another letter to the applicant/entrepreneur certifying the completion of pollution control equipment / system after carrying out inspection in this regard to enable him to be eligible for the receipt of the rest of the sanctioned funds from the financial institutions.	
	3.	The applicant/entrepreneur shall be required to obtain the following from the Board prior to commencement of production. (a) Consent under the Water (Prevention & Control of Pollution) Act-1974. (b) Consent under the Air (Prevention & Control of Pollution) Act-1981. (c) Authorisation under the Hazardous Waste (Management and Handling) Rules-1989 under the Environment (Protection) Act-1986.	We have obtained a Consolidated Consent & Authorization (CC&A) from GPCB (CC&A # 53846 dated 07.05.2013 valid up to 19.11.2017), We have obtained CTO (CC&A) AWH 94827 dated 25.10.2018 valid up to 19.11.2024. Copy of CTO attached along with report. Complied.

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ii	An area of 103 acres should only be acquired for the project including 14 acres for green belt and installation of naphtha storage tanks	Presently we have about hectare of total land and developed as green belt surrounding villages as C herewith. Moreover, naphtha storage Complied.	total 67.89 acre of the area. We also do tree SR activity and the repo	land has been plantation in ort is attached
iii	Three stacks of height 30 m, 35 m and 7 m for gas turbines, heat	Total three nos. of stacks	as per EC condition w	as Installed &
	recovery steam generation and DG sets should be installed	commissioned.		
Iv	Air quality monitoring should be carried out regularly around the	Complied. We do ambient air moni	toring through our int	ernal lah and
1	power plant and records should be maintained. Complete analysis of the recorded data should be regularly undertaken and results should be submitted to the Ministry every six months for review	through external party (BE	IL, Ankleshwar) twice in imits prescribed by G ports to MOEF regular ird party (M/s BEII,	a month & all PCB. We are ly (every six Ankleshwar)
		PARAMETERS	Avg Monitoring Result (April-Sep 2018)	GPCB Permissible Limit (μg/m3)
		PM10	36.5-75.4 μg/m3	100
		PM2.5	15-42 μg/m3	60
		SOx	14.7-35.9 μg/m3	80
		NOx	11.7-25.7 μg/m3	80
		CO (AIR)	BDL	4 mg/m3
		AMMONIAB(AIR)	BDL	400
		OZONE (O3)	BDL	180
		ARCENIC as As	BDL	6 ng/m3
		LEAD as Pb	BDL	1
		NICKEL as Ni	BDL	20 ng/m3
		BENZENE as C6H6	BDL	5 ng/m3
		BENZOPYRENE (BaP)	BDL	1 ng/m3
		All parameters are well with report is attached as Annexu Complied.		it and detailed
V	Naphtha @ 240 tonnes/day should be used as main fuel with sulphur content not exceeding 0.15%	Naphtha to Natural Gas in based Power Plant as per EC	June 2002. The Unit h / CC&A obtained.	
vi	Suitable NOx control device such as Water/Steam Injection in the combustion chamber should be installed to ensure that NOx emissions shall not exceed 50 PPM	NOx control device is in plac chamber temperature 850- the range of 13.3-27.5 ppm complied.	ce and we are maintainir 900° C to control NOx. I against GPCB permissible I	NOx value is in imit of 50 ppm.
vii	Liquid effluent should be properly treated and used for raising of green belt	The inorganic effluent generecycled through R.O systen cooling tower. Complied.		

viii		
Ix		monitoring through third party (BEIL, Ankleshwar) is being done twice in a month and parameter range is as follows: During Day Time: 58.3-71 dB (GPCB Permissible limit- 75 dB) During Night time: 53.1-65.8 dB (GPCB Permissible limit- 70 dB) Ear muffs & ear plugs are provided to the person working in high noise area like H ₂ compressor, & air compressor.
X	Considering the wind rose pattern in the area, green belt should be developed covering an area of 14 acres with primary, secondary and curtain zones with selection of indigenous species. A norm of 1500-2000 trees per ha should be followed. Details should be submitted to the Ministry by January, 1997. The guidelines evolved by the CPCB on afforestation should be followed by formulating the afforestation programme	 available in 67.9 acres, out of which approx 16.43 acres of tree plantation has done in power plant area. Presently the unit has about 1374.2 Nos. of trees per hectare of land.
xi	The landfill site identified within the plant area for disposal of solid wastes should be properly lined and continuous monitoring of ground water should be undertaken in the project area and its impact zone for ascertaining the changes in the ground water quality	Not Applicable as no hazardous waste is being produced from the power plant. Fly Ash (non-hazardous) generated from the coal
xii	For ensuring that in worst case scenario of naphtha storage tanks on fire, the Switch Yard on the western side of the storage tank is not affected, a thermal proof wall should be provided. As proposed, on the eastern side of the plant only landfill activity should be taken up for disposal of waste material from the main plant as well as the sludge from the power project	Natural Gas.
xiii	The sludge from the common sludge tank should be incinerated and the ash generated be disposed of by land filling with proper lining	Not applicable as we are not using Naphtha at present.
xiv	Full co-operation should be extended to the Scientists/Officers of the Regional Office of the Ministry at Bhopal/CPCB/SPCB who would be monitoring the compliance of environmental status. Complete set of impact assessment report and the Management Plans should be forwarded to the Regional Office for their use during monitoring	during their visit to our unit and also submit the required data OR reports on their request.
xv	Financial provisions should be made for implementation of environmental mitigative measures with adequate scope for its enhancement in future and the funds so provided should be kept in a separate account and details intimated to this Ministry and the State Level authorities	measures is attached in the report and submitted to the Ministry & state level authorities every six monthly. The total investment
Xvi	Monitoring Committee should be constituted for reviewing the compliance in various safeguard measures by involving recognized local NGOs, Pollution Control Boards, Institutions, Experts etc.	As our plant is commissioned since long Internal Environment management cell comprising of Unit Head, plant head, Environment Head & Corporate Environment head is in operation for close monitoring. After implementation of the project, we have constituted a
		After implementation of the project, we have constituted a monitoring committee and the last meeting was conducted in September – 2019.
		Complied.

	The Ministry reserves the right to revoke the clearance if conditions	
3	stipulated, are not implemented to the satisfaction of the Ministry	
4	For any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be	subsequently raw material changes from Naphtha to Natural Gas
	made to the ministry to assess the adequacy of the conditions imposed	in 2002 for which we have already obtained an approval. Also, we
	and to add additional environmental protection measures required, if	have obtained CC&A for power plant using coal as fuel.
	any	Complied.
	The above stipulations would be enforced, inter-alia under the	
5	provisions of the water (Prevention & Control of Pollution) Act, 1974;	
	the Air (Prevention & Control of Pollution) Act, 1981; the Environment	
	(Protection) act, 1986 and the public Liabilities Insurance Act, 1991,	
	the Impact Assessment Notification of January, 1994 and its	
	amendments	

Compliance Report for Environmental Clearance No. J-11011/325/2006-IA II (I) dated 25th July, 2007 for various products for period for Apr 2019 to Sep 2019

Sr. No.		Conc	lition		Compliance Status				
-	The ministry of Env noted that the prop The expansion proj Pesticide Intermedi Chlor-alkali & Capti following Pesticides Products along with	osal is for expa ect comprise of ate & Technica ve Power Plant s Intermediate n their By – Prod	nsion of Unit – V at addition of new ur Products and expa s. Company propos Products, Technica lucts	Jhagadia Gujarat. nits for producing ansion of existing es to produce the					
Sr. No.		Pr	oducts				By Products		
1101		Quantity	in MT/Month			Qu	antity in MT/Mo	nth	
	Items	Existing Capacity	Additional Capacity	Overall capacity after expansion	Items	Existing capacity	Additiona l capacity	Overall capacity after expansion	
1	Triphenyl Phosphite	300	-	300	HCl (30%)	353	-	353	
2	Phosphorus Trichloride	2250	-	2250	-	-	-	-	
3	2,4Di Chlorophenol	166	-	166	Mix Chlorop henol	15	-	15	
4					HCl (30%)	250	-	250	
5	Phosphorus Oxychloride	150	-	150	-	-	-	-	
6	Phosphorus	900	-	900	Ferrous Phosph orus	150	-	150	
7					Calcium Silicate	6000	-	6000	
8	Phosphorus Acid	150	-	150	HCl (30%)	600	-	600	
9	Trinonyl Phenyl Phosphite	100	-	100					
10	Phenyl Di Iso Decyl Phosphite	100	-	100					
11	Amino Tri Methylene Phosphoric Acid	200	-	200					

12	Ethylene Diamine Tetra Phosphoric Acid- Penta Sodium Salt	100	-	100				
	I	I		PCl5 Plant		1		
13	Phosphorus Penta Chloride		150	150				
	1	I		DVACI Plant	I.	1		
14	DVACl	-	300	300	Spent Sulphur ic Acid	-	900	900
15					POC13	_	400	400
16					HCL	-	490	490
10					(28%)	_	490	490
17					Sodium Sulphit e	-	1200	1200
					(20%)			
	<u> </u>		Pesticides Intern	mediate Products	- Multi Pro	duct Plant		
18	n – Alkylated Xyledene	-	300	300	Pera Toluen e Sulpho nic Acid (PTSA)	-	94	94
	· ·		1	OR	, ,	JI.	1	
	HRT Ketone	-	200	200				
			•	OR			-	·
	2 – Ethyl 6 – Methyl – n – n Aniline	-	300	300				
	T	ı		OR		1	T	1
	MPBAL	-	300	300				
19	Caustic Soda Lye	4680	10500	Caustic Chlorine I	Sodium	225	525	750
19	48% (On 100 % Basis)				Hypoch lorite	223	323	730
20	Chlorine	3972	8537	12509	-	-	-	1
21	Hydrogen	225	263	488	-	-	-	-
22	Hydrochloric Acid (30%)	1200	2625	3825	-	-	-	-
	Electrical Davier	TO MINI/II.	27 C MM/III	Power Plant	Charm	20 MT / Hrs		20 MT/H
	Electrical Power	50 MW/Hrs	37.6 MW/Hrs.	87.6 MW/Hrs.	Steam	30 MT / Hrs.	-	30 MT/Hrs
1	Glyphosate	-	1000	1000	Toducts			
2	Pendimethylene	-	200	200				
3	Tebuconazole	-	200	200		1		
4	Metalochlor	-	200	200				
5	Aceflorfen	-	500	500	Acetic Acid (80%)	-	1185	1185
6	Mancozeb	-	4000	4000	Sodium Sulphat e 96% / Sodium Sulphat e Solutio n	-	4092/ 15680	4092/15680
7	Acephate	-	800	800	Ammon ium Acetate	-	464	464

8	Cypermethrin	-	500	500					
9	Permethrin	-	300	300	HCl	-	94.8	94.8	
					(30%)				
	•	'	F	esticides Formula	ation	•			
1	Isopropyl Amine	-	2600	2600					
	Salt of								
	Glyphosate (liq)								
	- Formulation								
	(Kl/Month)								
2	Ammonium Salt	-	2600	2600					
	of Glyphosate								
	(liq) -								
	Formulation								
	(Kl/Month)								
3	Sodium Salt of	-	1500	1500					
	Aceflorofen -								
	Formulation								
			CS2	(Carbon Disulfide	e) Plant				
1	Carbon Disulfide	-	3000	3000					
			MnSO-	4 (Manganese Sulf	ate) Plant				
2	MnSO4 (31%)	-	10000	10000					
Sr. No.	ì		Condition		-		Compliance	Status	
	The unit already ha			V CPP is proposal to	o be added.	The unit ha		for 50 MW & 37.5 MW and	
	Cooling Towers, N						ry systems, m	entioned in EC conditions	
	Fighting System etc	c. shall be added. T	Total cost of the ex	cpansion is Rs. 473	.74 Crores.	are provide	d.		
	Proposed Capital c	ost for environme	ntal management	will be Rs. 43.09	Crores and	The unit ha	s invested app	orox. INR 249.39 Crores for	
	recurring cost will					Environme		nent Systems which is	
	acres) of land and t						3 % more than	the committed.	
-	of this, about 91,65						mitment we ha	ave already developed total	
	1,12,091 sq m is pr					274808 m ²	274808 m2 (67.89 acres) against total 203746 m2		
	agricultural or fore						ind we are kee	p developing green belt.	
			e. However, about 21 Reserve Forests exist with			We have no	ot used any ag	ricultural or forest land for	
	10 to 24 km from th	ie site				any project	expansion. W	e have done all expansion	
						within indu	strial area onl	y.	
						Complied.			
	The project activitie								
	2006 and are of 'A'								
	for evaluation of the								
_	per Para 2.2.1 (b) o								
	by the Ministry. T								
	submitted by the Pr								
	not need Public Cor	nsultation as per Pa	ara 7(i). stage (3) (b)- Public Consulta	ition of EIA				
	Notification 2006		1 10 1 1 6 7		. 1 1				
	Based on the inform								
-	accords environme								
	Notification dated Specific and Genera		JU6 subject to the	compliance of the	e following				
	Specific and Genera	ii conditions:	Λ-	ACDECIEIC COMDI	TIONS				
i	The gaseous emissi	ione (SO2 MOv II		SPECIFIC CONDI		We do internal	nonitoring the	ough our lab and through	
1	and	ions (304, NOX, H	ы, ыz, ып4, rzU5,	, איז איז, 1143, חל, איז איז	15, IN115, CS			rough our lab and through	
	CO, HC and VOC alo	ng with SPM and R	SPM from various	nrocess units shall	conform to			ssible limit prescribed by	
	the standards preso							data of BEIL, Ankleshwar	
	the emission levels	,			,		cu momeorne	, data of Bell, minicaliwar	
	pollution control s								
	restarted until the o								
				ring Result (perio		2019)			
				ult (Average value o		<i>-</i>	GPCB Permissi	ble Limit	
	Parameter	•		2019)	, ,				
Flue Gas S	tack Emissions- Fuel (as Imported Coal	1	,		ı			
003 3	Table Lines Tues	porteu cour	Çta	ck attached to powe	er plant				
	PM			1 – 48.6 mg/nm3	piulit		100 mg/r	ım3	
-									
-	SO2			17.5- 38 ppm			100 pp		
	Nox			13.3-27.5 ppm		<u> </u>	50ppn	1	
		Stac		nic fluid heater-TPP	I plant- Fue	I as Natural Gas			
	SPM		9.4	4-29.7 mg/nm3			150 mg/r	nm3	

Sox	5.9-21 ppm	100 ppm
Nox	7.7-15.8 ppm	50 ppm

Process Stack Emission					
Process Stack Attached To	Unit	Parameter	Min	Max	GPCB Limit
Phospho	rus Trichloride Plant	(PCL3)			1
	mg/nm3	HCI	13.8	5.5	20
PCL3 Process	mg/nm3	Cl2	BDL	BDL	9
	mg/nm3	PCI3	BDL	BDL	9
PCL3 storage tank and drum filling station scrubber	mg/nm3	PCI3	BDL	BDL	9
	austic Chlorine plant		1 44	- PDI	
56 TPD CCP	mg/nm3	HCI	11	BDL	20
100 TPD CCP	mg/nm3	CI2	BDL	BDL	9
56 TPD CCP	mg/nm3	HCI	15.1	5.7	20
100 TPD CCP	mg/nm3	CI2	4.6	BDL	9
Т	PPA/BDP/DPMP Plant		I	I	ı
TPPa / BDP/ DPMP	mg/nm3	HCI	14.8	BDL	20
Phosphorus oxychlo	ride (POCI3) / Phosph		1	1	I.
POCL3/PSCL3	mg/nm3	HCI	7.3	BDL	20
MANO	OZEB / ANTRACOL p		1	1	
Mancozeb / Antracol	mg/nm3	H2S	BDL	BDL	5
Mancozeb / Antracol	mg/nm3	CS2	56.3	BDL	180
Mancozeb / Antracol	mg/nm3	SPM	17.9	11.3	20
Mancozeb	mg/nm3	SPM	18.4	14.6	20
Glyphosate / G	LUfocinate / FOSTHI		1	1	I.
	mg/nm3	HCL	14.8	4.9	20
Glyphosate / Fosthiazate (IKI 1145)/	mg/nm3	NH3	27.5	14.2	30
Sulfentrazone/Boscalid Tech	mg/nm3	HC	BDL	BDL	20
Church-seate /	mg/nm3	NH3	17.2	BDL	30
Glyphosate / GLUfOSINATE	mg/nm3	HC	BDL	BDL	20
	mg/nm3	HCL	16.6	BDL	20
	n Di Sulphide (CS2) P		I DDI	I DDI	10
Carbon Di Sulphide (CS2) Plant	mg/nm3 DVACL PLANT	H2S	BDL	BDL	10
DVACI		Luci	1 00	7.4	20
DVACL DVACI/TEP	mg/nm3 mg/nm3	HCI SO2 OR NH3	8.9 56.2	7.4 BDL	30 175
DVACI/1EF DVACI-/	mg/nm3	HCI	BDL	BDL	20
ACROLEIN	mg/nm3	VOC	BDL	BDL	20
	MPBAL	<u> </u>	И.	И.	II.
	mg/nm3	H2S	BDL	BDL	10
	mg/nm3	CS2	60.2	BDL	180
PESTICIDE INTERMEDIATE PLANT (N Alkylated Xyledene	mg/nm3	NOX	14.5	BDL	25
OR HRT Ketone OR 2 Ethyl 6 Methyl N N Aniline OR MPBAL) / UPDT (Saponified Polyacrylonitrile Starch Graft Polymer)	mg/nm3	СО	BDL	BDL	100
, S. S. (Superimod Corpus Hornital Cotaton Craft Confiner)	OR	OR	OR	OR	OR
	mg/nm3	NH3	85.1	15.8	175

All parameters are well within GPCB permissible limit. The detailed report is attached as Annexure-2.

Complied.

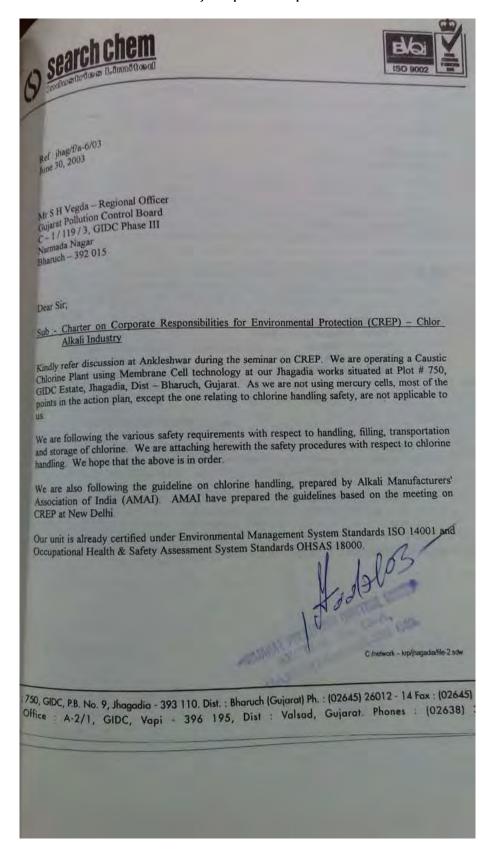
ii	·	We are following the new norms prescribed for pesticide sector. GPCB has already included new norms in CC&A as mentioned in sl. No. (i).		
		Complied.		
iii		has sufficient capacity as on today and remaining boilers will be installed based on coal fired, as per future requirement. In installed boiler, We are using only imported coal and for all other boilers/ D.G. sets are being operated only on natural gas/HSD/FO. Lignite coal is not being used. Complied.		
	Natural Gas, H2 and Cl2 shall be transported through pipelines. Present transportation mode of Hazardous Chemicals by road shall be switched over to railway line as soon as it is laid down. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989	are given to neighboring industries through pipe line		
v	23 additional Stacks shall be provided for dispersion of gaseous emissions. The height			
	of these shall be as per the prescribed Stack Height rules and CPCB guidelines. For process emissions like HCl, Cl2, SO2, PCl3, CS2 etc. scrubbers shall be provided with each reactor for quenching. Waste air de-chlorination system shall be provided in the Caustic chlorine Plant, Vent gases from 2, 4-Dichloro Phenol shall be subjected to two-stage absorption consisting of DM water and caustic jet. For Chlorine, 2 stages Scrubber with recovery of Sodium Hypo shall be provided.	of additional 23 stacks, we have provided 16 stacks as per process/product requirement. The height of the stacks are as per CPCB guidelines.		
		 In Caustic Chlorine Plant, two stage caustic scrubber is provided in de-chlorination section and DM water scrubber is provided in HCL furnace. The scrubbed liquor of Chlorine, Sodium Hypochlorite, is a by- product. Complied. 		
vi	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.	scrubbing system. One extra field of ESP is provided in design. Thermic Fluid Heaters are natural gas based only. DG Sets are only for emergency power in case of		
		 power failure. The scrubbed water generated from each process scrubber is being sent to ETP for further treatment. In certain cases, the scrubbed solution is by-product (Sodium Hypochlorite). Complied. 		
vii	Flare system shall be provided for burning of contaminated H2 and Fume incinerator shall be provided for decomposition of contaminated air/gas from the plant.	Flare stack & Fume incinerators are provided in new CS2 plant and are in operation. Complied.		
viii		Total 5 nos. of ESP are incorporated in coal based power plant & boiler to control SPM emission, against only 4 nos. of ESP required. During April-Sep 2019, PM range is 19.1 – 48.6 mg/nm3 which is well within the prescribed limit by SPCB (100 mg/nm3). Online monitoring devices has installed for PM, SOx, NOx and data is being transmitted to online CPCB website. Complied.		
ix	All liquid raw material shall be stored in storage Tanks and Drums	All liquid raw materials are being kept in rums & suitable storage tanks only. Complied.		

х		well as through ex	ternal party (BEIL, A arized third party	
		PARAMETERS	Range (Apr-Sep 2019)	GPCB Permissible Limit (µg/m3)
		PM ₁₀	36.5-75.4 μg/m3	100
		PM2.5	15-42 μg/m3	60
		SOx	14.7-35.9 μg/m3	80
		NOx	11.7-25.7 μg/m3	80
		CO	BDL	4 mg/m3
		AMMONIA	BDL	400
		OZONE (O3)	BDL	180
		ARCENIC as As	BDL	6 ng/m3
		LEAD as Pb	BDL	1
		NICKEL as Ni	BDL	20 ng/m3
		BENZENE as C6H6	BDL	5 ng/m3
		BENZOPYRE NE (BaP)	BDL	1 ng/m3
xi xii	The location of ambient air quality monitoring station 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. Use of toxic solvent 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. Bioassay test and toxicity index shall be carried out regularly.	The detailed repor Complied. We have installed to per SPCB guideline Complied. We are not usin Mercaptans at the process of manufa Recovery Unit (SRI Complied. We do Bioassay an well as through ex	t is attached as Anne three Ambient Air Me and are in operation g Methylene Chlori ne site. However, H cturing of CS2 which U) as per the Amenda d toxicity test throug ternal party (BEIL,	fonitoring stations as n. de OR Benzene or 2S is formed in the
xiv	All the storage tanks shall be under negative pressure to avoid any leakages. Breathers, N2 blanketing and condensers will be provided for all the storage tanks. Closed handling systems for chemicals and solvents will be provided. Mechanical 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.	obtained by keep effluent. Complied. Nitrogen blanketin Breather valves an necessary. Closed pumps are used Solvent traps/ Cosystem is provide monitoring is bein	ng is used for certaine provided for solven handling system is for hazardous/toxicondensers are provided for VOC emit g carried out throug	in material storages. It storages wherever also used .Seal-less chemical handling.

	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) programme for quantification and control of fugitive emissions. The detectors sensitivity will be in ppm levels.	All venting of equipment are connected to condensors/process Scrubbers to scrub excess vapour. LDAR (Leak Detection And Repairs) system is being followed to reduce VOC / HC omission. We also do third
	Spent solvents shall be recovered as possible & solvent recovery shall be further increased from the present 95% to at least 98%. Solvent vapours emitted during purification process from purification tanks as fugitive emissions shall be reduced as far as possible.	be further improved. With additional chilled water / brine
	Portable monitoring instruments for all relevant gases like Chlorine and Ammonia shall be provided.	
	Fugitive emissions in the work zone environment, product, raw materials storage area shall be regularly monitored for all relevant parameters. The emissions shall conform to the limits imposed by the State Pollution Boards/Central Pollution Control Board.	
xix	No ground water shall be used for the project. Water requirement will not exceed 10,000 m3/day, which will be met through GIDC Water supply.	

this Ministry as per the letter no. UJH/PRO/17/2007 dated 14th May 2007. On-site wastes (landfillable and incinerable) to BEIL regularly. We Incinerator shall be installed to incinerate incinerable waste. Otherwise the waste shall have not installed captive incinerator yet. The detail obe sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL-TSDF. Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT. Incineration waste @ 2270.6 MT against GPCB permitted quantity @ 2892.25 MT. Copy of the letter is attached as Annexure-4. Complied. xxii Emissions from the incinerator shall be within the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for Cement manufacturing as per the Fly Ash Utilization Notification. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.	XX	Daily waste water generation will not exceed to 4,575 m3/day. The whole waste water Average effluent discharge @ 1888 KLD against GPCB shall be treated in the proposed two ETPs. One Effluent Treatment Plant shall consist permissible limit of 2797 KLD for period April-Sep 2019. of primary, secondary and tertiary treatment units for the proposed Pesticide, CS2 and All effluent streams are being treated in ETP. Biodegradable MnSO4 Plants. The inorganic stream shall be sent to CETP after the primary treatment. Effluent treatment plant consists of primary, Secondary and The Biodegradable stream shall be treated up to tertiary treatment. High TDS and low tertiary treatment; and all parameters are well within limit. COD stream shall be taken to MEE System and High Organic (high COD) stream will be We are using C-Tech's SBR technology & Latest MBBR incinerated. The final treated effluent will be collected in collection sump and Technology for effluent treatment. We have proper discharged through GIDC drainage line. The effluent generated from the proposed 350 segregation system for inorganic effluent, organic TPD Caustic Chlorine and enhanced CPP shall be treated in the existing ETP of CPPBiodegradables effluent, high TDS effluent and toxic which will be modified. The effluent generated from the proposed pesticides effluent. We are segregating Mother Liquor containing intermediate and technical products, CS2 and MnSO4 shall be treated in the proposed Sodium Sulphate and taking to Multiple Effect Evaporation ETP. The treated effluent shall be sent to CETP of BEAIL for final discharge into the System (MEE). In another MEE, high TDS effluent is treated and the salt generated is disposed off to TSDF. All incinerabale streams are being sent for incineration at BEIL The inorganic effluent stream from caustic chlorine & captive power plant is being treated separately internally (ETP) and taken to RO System of 380 KLD capacity. The treated effluent from biodegradable streams) is being discharged to deep sea through closed abov				
All parameters are well within limit prescribed by GPCB Amm. Amm. Amm. Nitrogen 50 Mg/L) All parameters are well within limit prescribed by GPCB The detailed report is attached as Annexure-2. Complied.			No.	RS	PERMISSIBLE LIMIT	RESULTS (Apr- Sep2019)
Amm. BDL-18.5			1	-	6.5-8.5	
All parameters are well within limit prescribed by GPCB The detailed report is attached as Annexure-2. All parameters are well within limit prescribed by GPCB The detailed report is attached as Annexure-2. Complied. XXI Hazardous / Solid Waste generated shall be as per the list and quantities submitted toWe have taken membership of BEIL and sending hazardous this Ministry as per the letter no. UJH/PRO/17/2007 dated 14th May 2007. On-sitewastes (landfillable and incinerator) be BEIL regularly. We incinerator shall be installed to incinerate incinerable waste. Otherwise the waste shall have not installed captive incinerator yet. The detail of be sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL-wastes disposed off is given below (Apr-Sep 2019): TSDF. Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT. Incineration waste @ 2270.6 MT against GPCB permitted quantity @ 2892.25 MT. Complied. XXII Emissions from the incinerator shall be within the prescribed norms for the Not Applicable as Captive incinerator is not installed yet. Complied. XXII Fly ash generated from the CPP will be utilized for Brick manufacturing and for We have started selling fly ash for utilization – to brick manufacturers/ end users. Complied. XXIV All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure 4. Complied.			2		250	
All parameters are well within limit prescribed by GPCB The detailed report is attached as Annexure-2. Complied. xxi Hazardous / Solid Waste generated shall be as per the list and quantities submitted to this Ministry as per the letter no. UJH/PRO/17/2007 dated 14th May 2007. On-sitewastes (landfillable and incinerable) to BEIL regularly. We incinerator shall be installed to incinerate incinerable waste. Otherwise the waste shall have not installed captive incinerator yet. The detail of be sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL-wastes (landfillable and incineratory be EIL regularly. We incinerator shall be waste of the waste shall have not installed captive incinerator yet. The detail of be sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL-wastes disposed off is given below (Apr-Sep 2019): Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT. Incineration waste @ 2270.6 MT against GPCB permitted quantity @ 2892.25 MT. Complied. xxiii Emissions from the incinerator shall be within the prescribed norms for the Mot Applicable as Captive incinerator is not installed yet. Complied. xxivi All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.			3	SS (mg/L)	100	24-63
The detailed report is attached as Annexure-2. Complied. xxi Hazardous / Solid Waste generated shall be as per the list and quantities submitted to We have taken membership of BEIL and sending hazardous this Ministry as per the letter no. UJH/PRO/17/2007 dated 14th May 2007. On-sitewastes (landfillable and incinerable) to BEIL regularly. We Incinerator shall be installed to incinerate incinerable waste. Otherwise the waste shall have not installed captive incinerator yet. The detail o be sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL wastes disposed off is given below (Apr-Sep 2019): TSDF. Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT. Incineration waste @ 2270.6 MT against GPCB permitted quantity @ 2892.25 MT. Copy of the letter is attached as Annexure-4. Complied. xxiii Emissions from the incinerator shall be within the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for We have started selling fly ash for utilization – to brick manufacturers/ end users. Complied. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.			4	Nitrogen	50	BDL-18.5
this Ministry as per the letter no. UJH/PRO/17/2007 dated 14th May 2007. On-site wastes (landfillable and incinerable) to BEIL regularly. We Incinerator shall be installed to incinerate incinerable waste. Otherwise the waste shall have not installed captive incinerator yet. The detail obe sent to the Common Incinerator of BEIL. Land fillable waste shall be sent to BEIL-TSDF. Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT. Incineration waste @ 2270.6 MT against GPCB permitted quantity @ 2892.25 MT. Copy of the letter is attached as Annexure-4. Complied. xxii Emissions from the incinerator shall be within the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for Cement manufacturing as per the Fly Ash Utilization Notification. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.			The Comp	detailed report lied.	is attached as Ann	exure-2.
Copy of the letter is attached as Annexure-4. Complied. xxii Emissions from the incinerator shall be within the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for Cement manufacturing as per the Fly Ash Utilization Notification. xxiiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project for the solvent and reactants storage shall be implemented. Complied. Complied. Complied. Complied. Complied. Complied.	xxi	TSDF. Landfilling waste @ 25898 MT against GPCB permitted quantity @ 28262.5 MT.				
xxii Emissions from the incinerator shall be within the prescribed norms for the incinerators. Monitoring Protocol as prescribed in these standards shall be followed. xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for We have started selling fly ash for utilization – to brick manufacturing as per the Fly Ash Utilization Notification. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.						
xxiii Fly ash generated from the CPP will be utilized for Brick manufacturing and for We have started selling fly ash for utilization – to brick manufacturing as per the Fly Ash Utilization Notification. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied. Complied.	xxii				aptive incinerator	is not installed yet.
Cement manufacturing as per the Fly Ash Utilization Notification. xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project for the solvent and reactants storage shall be implemented. for the solvent and reactants storage shall be implemented. 4. Complied.	xxiii		We h	ave started sel	ling fly ash for u	itilization – to brick
xxiv All safety measures suggested in the letter no. UJH/PRO/17/2007 dated 14th May 2007 All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4. Complied.		Cement manufacturing as per the Fly Ash Utilization Notification. manufacturers/ end users.				
	xxiv	All safety measures suggested in the letter no. UJH/PRO/17/2007 dated $14^{\rm th}$ May 2007 for the solvent and reactants storage shall be implemented.	All safety measures considered during project implementation. Copy of the letter is attached as Annexure-4.			
xxv The company shall undertake following Waste Minimization measures.	XVV	The company shall undertake following Waste Minimization measures	Comp	ned.		

	a.	Metering and control of quantities of active ingredients to minimize waste.	We are using measured quantities for manufacturing and all
			records are maintained in SAP system for better control
			over waste generation.
			Complied.
			We are recovering various by-products from plants. List of
		in other processes.	by-products are included in our CC&A.
-		II C	Complied.
	c.	Use of automated filling to minimize spillage.	We are using Auto robots in solid products for packaging
			and looking for other possibilities in other area as well. Complied.
-	d.	Use of "Close Feed" system into batch reactors.	We are using closed feed systems with automatic feeding in
	u.	ose of close recu system into batem reactors.	all reactions.
			Complied.
	e.	Venting equipment through vapour recovery system.	All vents are linked with scrubbers to scrub excess vapour
		Safe by the second section of the second sec	through condensers.
			Complied.
	f.	Use of high pressure hoses for equipment clearing to reduce wastewater generation.	We are using high pressure hoses for equipment cleaning.
			Complied.
XX		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.	mock drills are also being conducted. Complied.
XXV	vii	The company shall develop rain water harvesting structures to harvest the run of	
AAV		water for recharge of ground water.	canteen area and utilized for gardening/nearby cooling
		water for recharge of ground water.	tower. We do not recharge ground water as per local
			restriction.
			Complied.
XXV	vii	Minimum 25% of the total area shall be developed as green belt as per the CPCB	We have covered approximate 30% (67.9 against 54.5 acre)
		guidelines. Additional 1,12,091 sq.m shall be developed as green belt.	area of the total area as a greenbelt and rest we are
			planning for coming monsoon. In addition, we have also
			planted approx. 43000 trees (92 acre) in nearby villages.
			Complied.
XX		Occupational health surveillance of the workers shall be done on a regular basis and	
		records maintained as per the Factories Act.	Occupational Health & Safety. Pre-employment and routine medical examinations are being carried out. We are also
			doing full body medical checkup by external expert agency
			once in year. All medical records are being maintained.
			Complied.
XX	ťΧ	Training shall be impaired 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	Safety Talk every day.
		undertaken on regular basis. Training to all employees on handling of chemicals shall	Complied.
		be imparted.	
XX	xi	Usage of PPEs by all employees/ workers shall be ensured.	Proper PPEs are given to all employees & workers.
			Complied.
XXX		The company shall strictly follow all the recommendations mentioned in the Charter	All points are implemented. Details are given below;
		on Corporate Responsibility for Environmental Protection (CREP).	Complied
		<u>l</u>	Complied.



SEARCH CHEM INDUSTRIES LTD

SAFETY PROCEDURES FOR CHLORINE HANDLING

have already provided two nos. Three Stage Chlorine Scrubber System to absorb any of Chlorine from the plant. In the Scrubbing System, Caustic solution he have already provided the plant. In the Scrubbing System, Caustic solution is used as a second the Scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the first stage of the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that in the scrubber System is designed in such a way that it is scrubber System in the scrubber System in the scrubber System is designed in such a way that it is scrubber System in the scrubber System in the scrubber System is designed in the scrubber System in the scrubber System is designed in the scrubber System in the scrubber System in t of Chlorine from the Scrubber System is designed in such a way that in the first stage of scrubber, the The Scrubber, the solution of Sodium Hypochlorite can go up to 10 % so that it can be sold as a by - product partial of Chlorine coming from first stage is scrubbed in the second opening of Soundary Product to the second one. The second one of t any unabsorbed character to third one. Fresh caustic is taken in the second one The second stage and third that chlorine coming out in the vent will be always less than the present that the recent stage and third that chlorine coming out in the vent will be always less than the present that the recent stage and third that the recent stage are the recent stage. student outlet is coming out in the vent will be always less than the permitted level of 9 mg / The caustic solution is cooled with chilled water for better absorption. At the stack, we The causus solutions for continuous monitoring. The chlorine concentration in the provided chlorine sensors for continuous monitoring. The chlorine concentration in the same provided in the control room. In addition to this chlorine sensors are provided cinetic control room. In addition to this, chlorine sensors are installed at various including storage area, filling area etc. The chlorine bands including storage area, said is moleculed at various including storage area, filling area etc. The chlorine header is connected to the following points;

- . Chlorine Compression and Liquefaction Area
- · Chlorine Filling Area
- · Chlorine Storage Area
- · All Safety Valves' Discharge Lines
- · Uncondensed Chlorine from Liquefaction section for making hypochlorite
- Various Vents
- · Emergency Chlorine Handling System

All safety aspects for Chlorine Bullets are also followed like; CCE approved storage tanks solated storage area. We always ensure that one tank is empty. Storage tanks are provided with high level alarm for over filling, double safety valve, bursting disc connected to hypochlorite

We always ensure positive pressure of Chlorine tonner before degassing of any chlorine tonner. Hydrotest of each Chlorine tonner is being carried out at regular intervals (two years). Mock drill sonducted at regular intervals and necessary PPEs like SCBA set, air line respirator are provided and two chlorine kits are also available for preventing any accidental release of chlorine from the tonner. We are regularly imparting training on the safety handling of chlorine to all our aployees of chlorine handling system.

xxxiii		building & canteen area and utilized fo gardening/nearby cooling tower. We do not recharg ground water as per local restriction. Complied.
xxxiv	All the recommendations made by the consultants in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	
		Environmental Cell – in operation Water Environment – segregation, proper treatmen and disposal.
		Air Environment – air pollution control system: installed and operated.
		Noise Environment – monitoring being done and within limits.
		Green belt development – developed green belt and further area being developed.
		Health and Safety – implemented OHSAS 18001, Risl Mitigation measures are implemented.
		On Site Emergency Plan updated – mock drills ard conducted regularly. Complied.
XXXV	The company shall 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.	Not applicable as Public Hearing was not conducted
xxvi		Various eco-development activities are undertaken Training programs on cleaner production wa
		Complied.
	B→GENERAL CONDITIONS	
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	We are complying with the all conditions of CC&A given by GPCB. Complied.
Ii	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	The Unit has not done any modification OR expansion without getting prior approval from the Ministry Valid EC/NOC/CC&A received from the Governmen Authorities for any expansion OR modification.
		Complied. We do internal monitoring through our lab as well a

S	tack Monito	ring Result (Period Apr-Sep	2019)			
Parameter	onitoring Re	sult (Average value of Apr-: 2019)	Sep	GPCB Pern	nissible Limit	
ue Gas Stack Emissions- Fuel as Imported Coal	Ci I					
DNA		2.1 – 48.6 mg/nm3	<u> </u>	100 m	na/nm2	
PM SO2	15	17.5- 38 ppm			ng/nm3 ppm	
Nox		13.3-27.5 ppm			ppm	
rocess Stack Emission		2010 2710 pp			PP	
Process Stack Attached To		Unit	Parameter	Min	Max	GPCB Limit
	Phosphor	us Trichloride Plant (PC	L3)	1		1
		mg/nm3	HCI	13.8	5.5	20
PCL3 Process		mg/nm3	Cl2	BDL	BDL	9
		mg/nm3	PCI3	BDL	BDL	9
PCL3 storage tank and drum filling station scrubbe		mg/nm3	PCI3	BDL	BDL	9
	Ca	ustic Chlorine plant		1	1	1
56 TPD CCP		mg/nm3	HCI	11	BDL	20
100 TPD CCP		mg/nm3	CI2	BDL	BDL	9
56 TPD CCP		mg/nm3	HCI	15.1	5.7	20
100 TPD CCP		mg/nm3	-	4.6	BDL	9
100 IFD CCF	TO	PA/BDP/DPMP Plant	CI2	4.0	DDL	9
TDD / DDD/ DDMD	IP			140	DD!	1 00
TPPa / BDP/ DPMP		mg/nm3	HCI	14.8	BDL	20
Phosphorus	s oxychlor	ide (POCI3) / Phosphoru	ıs Thiochloride			
POCL3/PSCL3		mg/nm3	LICI	7.3	BDL	20
	MANCO	DZEB / ANTRACOL plant	HCI •	1		
Mancozeb / Antracol	MANOC	mg/nm3	H2S	BDL	BDL	5
Mancozeb / Antracol		mg/nm3		56.3	BDL	180
		-	CS2			
Mancozeb / Antracol		mg/nm3	SPM	17.9	11.3	20
Mancozeb		mg/nm3	SPM	18.4	14.6	20
Glyph	nosate / GL	_Ufocinate / FOSTHIAZA	TE Plant			
		mg/nm3	HCL	14.8	4.9	20
Glyphosate / Fosthiazate (IKI 1145)/		mg/nm3		27.5	14.2	30
Sulfentrazone/Boscalid Tech			NH3			
		mg/nm3	HC	BDL	BDL	20
Glyphosate /		mg/nm3	NH3	17.2	BDL	30
GLUfOSINATE		mg/nm3	HC HC	BDL	BDL	20
	Carbon	mg/nm3 Di Sulphide (CS2) Plant	HCL F	16.6	BDL	20
Carbon Di Sulphide (CS2) Plant	Carbon	mg/nm3	H2S	BDL	BDL	10
	ļ	DVACL PLANT	•	_ ===		1 .0
DVACL	I		HCI	8.9	7.4	30
DVACI/TEP			SO2 OR NH3	56.2	BDL	175
DVACI-/		mg/nm3	HCI	BDL	BDL	20
ACROLEIN		mg/nm3	VOC	BDL	BDL	20
		MPBAL				
		mg/nm3	H2S	BDL	BDL	10
	ŀ	mg/nm3	CS2	60.2	BDL	180
PESTICIDE INTERMEDIATE PLANT (N Alky	lated		NOX	14.5	BDL	
Xyledene OR HRT Ketone OR 2 Ethyl 6 Methyl N	N Aniline	mg/nm3				25
OR MPBAL) / UPDT (Saponified Polyacrylonitrile Starch Graft Polymer)		mg/nm3	CO	BDL	BDL	100
2.2 3.j3. _j		OR	OR	OR	OR	OR
		mg/nm3	NH3	85.1	15.8	175
Ar	nbient Air N	mg/nm3 Nonitoring Result (Apr-Sep		85.1	15.8	175

PARAMETERS	Range	GPCB Permissible Limit
PM10	36.5-75.4 μg/m3	100
PM2.5	15-42 μg/m3	60
SOx	14.7-35.9 μg/m3	80
NOx	11.7-25.7 μg/m3	80
CO (AIR)	BDL	4
AMMONIAB(AIR)	BDL	400
OZONE (O3)	BDL	180
ARCENIC as As	BDL	6
LEAD as Pb	BDL	1
NICKEL as Ni	BDL	20
BENZENE as C6H6	BDL	5
BENZOPYRENE (BaP)	BDL	1
Manufacture, Storage and Import of Ha: October, 1994 and January, 2000. Auth collection, treatment, storage, and dispo	zardous Chemicals Rules, 1989 as amended ir orization from the SPCB shall be obtained for osal of hazardous wastes.	We are complying with the MSIHC Rules and Hazardous waste & other wastes (Handling & transboundary Movement) rules 2016. We have obtained valid Authorization from SPCB. Complied.
standards by providing noise control renclosures etc. on all sources of noise	measures including acoustic hoods, silencers e generation. The ambient noise levels shal l under Environment (protection) Act,1986	Noise monitoring is being done twice in a month through third party (BEIL, Ankleshwar). Ear muffs & ear plugs are provided to the person working in high noise area like H ₂ compressor, & air compressor. Acoustic enclosures are also provided. Noise parameter range is as follows: During Day Time: 58.8-70.0 dB (GPCB Permissible limit- 75 dB) During Night time: 53.8-65.4 dB (GPCB Permissible limit- 70 dB)
vi The project proponent shall also cor measures and safeguards recommende	nply with all the environmental protection d in the EIA/EMP report.	Environment Management Plan and Risk Assessment have been implemented.
		Environmental Cell – in operation. Water Environment – segregation, proper treatment and disposal.
		Air Environment – air pollution control systems installed and operated.
		Noise Environment – monitoring being done and within limits.
		Green belt development – developed green belt and further area being developed.
		Health and Safety – implemented OHSAS 18001, Risk Mitigation measures are implemented.
		On Site Emergency Plan updated – mock drills are conducted regularly. Complied.

vii	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	
viii	The project authorities shall earmark separate funds of Rs. 43.09 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. Rs. 07.00 crores will be the annual recurring expenditure for environmental protection measures. The funds so provided shall not be diverted for any other purpose.	environmental protection measures along with the projects implemented. The revenue expenditure for environmental protection measures is included in our budget and sufficient amount is available. The detail of expenditure is given separately. Complied.
Ix	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.	in February and August every year to the Ministry/SPCB/CPCB. Complied.
x	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.	Times of India- Surat Edition dated 7th August 2007 and Gujarat Samachar dated 5th August 2007 (English and Gujarati) and details submitted to GPCB and MoEF. Complied.
xi	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.	along with the half yearly report. We are giving below the details of the projects implemented. Mancozeb – 20.11.2012. Pendimethylene – 20.11.2012. CS2 – 16.05.2013. Glufosinate /Glyphosate – 08.05.2014. Coal-based power plant– November 2014. DMPAT- July 2015. MPBAL/UPDT- February 2016. DVACL/Acrolein/TEP- June 2016.
	The Ministry may revoke or suspend the clearance, if implementation of any of the	Complied.
_	above conditions is not satisfactory.	<u></u>
-	The Ministry reserves the right to stipulate additional conditions, if found necessary	
_	The company in a time bound manner will implement these conditions. 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 Waste (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	

Compliance Report for Environmental Clearance No. J-11011/325/2006-IA II (I) dated 18th September, 2009 for Amendment of Glyphosate Technical product for period Apr 2019 to Sep 2019

Sr. No.	Condition	Compliance Status
-	The production capacity of "Glyphosate- Tech" is mentioned as 1000 MT/month under pesticides technical. The company wants to start manufacturing of product (Glyphosate-Technical viz- 1st step-DSIDA preparation: 2nd step- Conversion of DSIDA to PMIDA and 3rd step- PMIDA conversion to Glyphosate Technical. Now 3rd step proposed to be modified as "Intermediate product from 2nd stage (PMDIA) will be reacted with Ammonia and clean air in the presence of a catalyst. Ammonium Salt formed is reacted with Sulphuric Acid to precipitate Glyphosate (Technical). Mother Liquor containing Ammonium Sulphate will be recovered as by-product. In the original process, oxidation of PMDIA with Oxygen giving Glyphosate (Technical) and by-product Formaldehyde and CO2 was given.	
-	It is noted that due to change in process, water consumption will reduce from 1,151 KL per day to 812 KL per day; effluent quantity will reduce from 813 KL per day to 98.54 KL per day, and solid waste (ETP sludge) quantity will be reduced from 2.39 TPD to 0.3 TPD. The emission to additional NH3 will be controlled by providing wet scrubber and company will recover Ammonium Sulphate 120 KLD (equivalent to 25 TPD Solid) generated and sold as by-product.	-
-	The proposal was considered during $93^{\rm rd}$ meeting of the Expert Appraisal Committee (Industry) held on $14^{\rm th}$ – $16^{\rm th}$ April, 2009. The Committee noted that change in process will reduce water pollution as well as hazardous waste generation with addition of NH3 pollution which will be controlled by providing wet scrubber and decided necessary amendment in environmental clearance may be made subject to stipulation of following additional conditions:	
1	The production of Glyphosate (Technical) shall not be more than 1000 TPM and the by product Ammonium Sulphate 120 KL per day (equivalent to 25 TPD Solid) generated during process shall be sold to actual user and record shall be produced with monitoring report to the Ministry's Regional Office at Bhopal.	manufactured Glyphosate during this period.
2		Glufosinate plant is approx 215 KL/day and wastewater generation is approx. 70 KL/day which is far less than the given limits in EC condition. All HW generated is disposed off to Common TSDF Site of BEIL Ankleshwar. Complied.
3	The company shall provide wet scrubber for control of NH3 emissions within the GPCB norms and monitoring arrangements shall be made in the vent.	Ankleshwar) stack monitoring twice in a month and All results are well within GPCB permissible limit. Complied.
4	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the State Pollution Control Board. The levels of SPM, RSPM, SO2, NOx, HCL and VOC (ambient level) and emissions from the stacks shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	half yearly report. The half yearly reports are uploaded on our Company web site. The monitoring results are also displayed on the display board kept at the company gate. Complied.
5	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copy as well as by e-mail) to the respective Regional office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	submitted to MoEF regional Office, CPCB Zonal

Sr. No.	Condition	Compliance Status
	The environment statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices to MoEF by e-mail.	for period April-2018 to March -2019. Half yearly reports are submitted and displayed on company web site. Soft copy is also sent to
-	The Ministry accepts the above recommendation of the Expert Appraisal Committee (Industry) with the additional conditional suggested for amendment of environment clearance and all other conditions and paras of environmental clearance issued by the Ministry vide letter no. J-11011/325/2006/IA. II (I) dated 25.07.2007 shall remain same.	Complied.

Compliance Report for Environmental Clearance No. J-11011/325/2006-IA II (I) dated 10th June, 2011 for CS2 process change use of natural gas instead of charcoal for period April 2019 to Sep 2019

Sr. No.	Condition	Compliance Status			
-	The Ministry has issued EC, subject to following conditions:				
	"Sulfur recovery Unit shall be installed to control H2S emissions	ions We have installed all EMS system as per EC -like Sulphur R ϵ			
	from the Furnace into elemental Sulfur and shall be recycled to	(SRU unit), Tail	Gas Treatment Unit (TGTU),	For removal of H2S from	
	the process. The "S" recovery shall be above 99.5 % (as per	the gas by Ami	ne treatment and Fume Incin	erator. We are achieving	
	Refinery Norms, Notification No. GSR 186(E) dated 18.03.2008)				
		he tail gasinternally through our lab as well through thir			
	from Clauss Unit shall be sent to Tail Gas Treatment Unit (TGTU)		d summarized data is as follov	ws:	
	for further treatment to reduce SO2 emissions. Tail Gas		ached to CS2 plant fume	GPCB Permissible Limit	
	Treatment Unit (TGTU) shall consist of Spot Hydrogeneration,		incinerator		
	removal of H2S from, the gas by Amine treatment and fume	H2S	BDL	10 mg/nm3	
	incinerator".				
		Complied.			
-	This letter may be kept with the original letter.	Noted and Con	iplied.		
-	This has been issued with prior approval from the Competent				
	Authority in the Ministry.				

Compliance Report for Environmental Clearance No. J-11011/80/2015-IA II (I) dated. 5th April, 2018 for expansion of Agro and other organic chemicals product for period Apr 2019 to Sep 2019

UPL	Limi	ted, Unit # 05, Jhaga	dia					
Compl	iance to	conditions mentioned in Enviro		ance issued	by Ministry	of Environme	nt, Forests & Cli	mate Change – vide letter
# J-11011/80/2015-IA-II(I) dated 05.04.2018 Condition							Compliance status	
No	Description							Compliance status
	This h	This has reference to online proposal # IA/GJ/IND2/27263/2015 dated 04.01.2017 along with project						Noted
02	documents namely EIA / EMP Report for the project MoEF&CC has examined the proposal for grant of Environmental Clearance to the project for expansion of							Noted
02	agro and other organic chemicals manufacturing unit by UPL Limited, Unit # 05, in a total plot area of							Noted
0.2		86.42 Sq M located at Plot # 746	Noted Francistics					
03	Different products / by-products, existing and proposed are reported to be as under; Sr							Noted. For existing products / by-
	No	Product	CAS No	TPM	TPM	TPM	Category	products, the
	A – PRODUCTS REQUIRING ENVIRONMENTAL CLEARANCE							production is well
	01	Mancozeb	8018-01- 07		8333.33	11633.33	Pesticide	Pesticide
	02	Antracol	12071-	4000	1000	1700	Pesticide	
			83-9 40487-		1000			
	03	Pendimethylene	42-1	400	833.33	1233.33	Pesticide	
	04	Glyfosinate	77182- 82-2	500	1250	1700	Pesticide	
	05	Glyphosate	38641- 94-0	300	Nil	100	Pesticide	
	06	CS2 (Carbon Di Sulphide)	000075- 15-0	3000	3750	6750	Pestiide intermediate	
	07	S Metolachlor	87392- 12-9	200	1666.67	1866.67	Pesticide	
	08	Acephate	30560- 19-1	800	1666.67	2466.67	Pesticide	
	09	Acrolein	107-02-9	Nil	666.67	666.67	Pesticide intermediate	
	10	CCITM (Di Methyl Cyanioinodithio Carbonate)	10191- 60-3	Nil	167.67	167.67	Pesticide intermediate	
	11	Tri Ethyl Phosphite	122-52-1	Nil	1000	1000	Pesticide intermediate	
	12	CS2 based products						
-	12.1	Potassium Ethyl Xanthate	140-89-6					
	12.3 12.3 12.4	Sodium Isopropyl Xanthate Potassium Isopropyl Xanthate	140-93-2 140-93-1	Nil	833.33	833.33	Intermediate chemicals	
		Potassium Amyl Xanthate	2720-73-					
	12.5	1 6 Bis (N N Dibenzuulthiocarbamyldithio) Hexane (Rubber chemicals)	151900- 44-6					
	12.6	1 Methylamino 1 Methyl Thio 2 Nitroethene (Pharma intermediate)	61832- 41-5					
	13	Clomazone	81777- 89-1	Nil	416.67	416.67	Pesticide	
	14	Mesotrion	104206- 82-8	Nil	416.67	416.67	Pesticide	
	15	Flonicamide IKI-220	158062- 67-0	Nil	166.67	166.67	Pesticide	
	16	H2S based products]
		Di Methyl Sulfoxide (DMSO)	67-68-5	Nil	1250	1250	Cyemical intermediate	
	17	156 TPD Caustic Chlorine Plant			T			_
		Caustic Soda Lye 48 % on 100 % basis	1310-73- 2	15180	Nil	15180	Chlor alkali industry	

UPL Limited, Unit # 05, Jhagadia
Compliance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Climate Change – vide letter

Descri 18 19 20 21 22 23 24 25 26	Chlorine Gas Hydrogen Gas Hydrochloric Acid 30 % Power Plant Electric Power Phenyl Di Iso Decyl Phosphite OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	7782-50-5 1333-74-0 7647-01-0 Not applicable 25550-98-5 2929-86-4 77745-66-5 7526-26-3 115-86-6 181028-79-5 98886-44-3 52314-67-7 1330-20-7	12509 488 3825 87.5 MW / HR 100 200 OR 200 OR 50 250 300	Nil Nil Nil Nil	12509 488 3825 87.5 MW / HR 100 200 OR 200 OR	1D Power Plant Chemical intermediate Chemical intermediate
19 20 21 22 23 24 25	Hydrogen Gas Hydrochloric Acid 30 % Power Plant Electric Power Phenyl Di Iso Decyl Phosphite OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	5 1333-74-0 7647-01-0 Not applicable 25550- 98-5 2929-86-4 77745- 66-5 7526-26-3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	488 3825 87.5 MW / HR 100 200 OR 200 OR 50 250	Nil Nil Nil	488 3825 87.5 MW / HR 100 200 OR 200 OR	Chemical intermediate Chemical
19 20 21 22 23 24 25	Hydrochloric Acid 30 % Power Plant Electric Power Phenyl Di Iso Decyl Phosphite OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	0 7647-01- 0 Not applicable 25550- 98-5 2929-86- 4 77745- 66-5 7526-26- 3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	3825 87.5 MW / HR 100 200 OR 200 OR 50 250	Nil Nil Nil	3825 87.5 MW / HR 100 200 OR 200 OR	Chemical intermediate Chemical
19 20 21 22 23 24 25	Power Plant Electric Power Phenyl Di Iso Decyl Phosphite OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	0 Not applicable 25550- 98-5 2929-86- 4 77745- 66-5 7526-26- 3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	87.5 MW / HR 100 200 OR 200 OR 50 250	Nil Nil	87.5 MW / HR 100 200 OR 200 OR	Chemical intermediate Chemical
19 20 21 22 23 24 25	Electric Power Phenyl Di Iso Decyl Phosphite OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	applicable 25550- 98-5 2929-86-4 77745- 66-5 7526-26-3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	/ HR 100 200 OR 200 OR 50 250	Nil Nil	/ HR 100 200 OR 200 OR	Chemical intermediate Chemical
20 21 22 23 23 24 25	OR Tri Decyl Phosphite (TDP) OR Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	25550- 98-5 2929-86- 4 77745- 66-5 7526-26- 3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	100 200 OR 200 OR 50 250	Nil	200 OR 200 OR	intermediate
20 21 22 23 23 24 25	Tris Tri Iso Decyl Phosphite (TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	4 77745- 66-5 7526-26- 3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	200 OR 200 OR 50 250	Nil	200 OR 200 OR	intermediate
21 22 23 23 24 25	(TTDP) Di Phenyl Methyl Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	66-5 7526-26-3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	200 OR 50 250	-	200 OR	
21 22 23 23 24 25	Phosphonate (DPMP) OR Tri Phenyl Phosphate (TPPa) OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	3 115-86-6 181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	200 OR 50 250	-	200 OR	
21 22 23 23 24 25	OR Bis Phenol Di Phosphate (BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	181028- 79-5 98886- 44-3 52314- 67-7 1330-20-	50 250	-		
22 23 24 25	(BDP) Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	79-5 98886- 44-3 52314- 67-7 1330-20-	250		50	
22 23 24 25	Fosthiazate IKI-1145 Di Chloro Vinyl Acid Chloride (DVACL) N Alkylated Xyledene OR HRT Ketone OR	98886- 44-3 52314- 67-7 1330-20-		27.1		
23 24 25	(DVACL) N Alkylated Xyledene OR HRT Ketone OR	52314- 67-7 1330-20-	300	Nil	250	Pesticide
24 25	N Alkylated Xyledene OR HRT Ketone OR	1330-20-	1	Nil	300	Pesticide intermediate
24 25			300			
24 25		108-10-1	300 Nil		Pesticide	
25	2 Ethyl 6 Methyl N N Aniline OR	24549- 06-2		Nil	300	intermediate
25	Meta Phenoxy Benzyl Alcohol (MPBAL)	13826- 35-2	300			
	Tebuconazole	107534- 96-3	200	Nil	200	Pesticide
26	Acifluorfen	50594- 66-6	500	Nil	500	Pesticide
ı T	Cypermethrin	52315- 07-9	500	Nil	500	Pesticide
27	Permethrin	52645- 53-1	300	Nil	300	Pesticide
28	Tri Phenyl Phosphite	101-02-0	300	Nil	300	Chemical intermediate
L B – PR	RODUCTS NOT REQUIRING ENVIR	ONMENTAL	43902 CLEARANCE	23418.68	67319.68	
29	NAHS 40 % Solution	1310-73-	Nil	2500	2500	Specialty chemical
30	Na2S Solution	1313-82-	Nil	2500	2500	Specialty chemical
31	Na2S Solid	1313-82-	Nil	2500	2500	Specialty chemical
32	Liquid formulation products (Pentimethylene, Glufosinate, S Metolachlor, Clomazone, Mesotrion, Acifluorfen, Cypermethrin, Permethrin)	-	Nil	4166.67	4166.67	Pesticide Formulation
33	Solid pesticide formulatio products (Mancozeb, Antracol, Glyphosate, Acephate, Flonicamide,		Nil 2550	7083.33 Nil	7083.33 2550	Pesticide formulation

UPL Limited, Unit # 05, Jhagadia
Compliance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Climate Change – vide letter

		/2015-IA-II(I) dated 05.04.2018							
Condi								Compliance status	
No	Descr	iption						-	
		Phosphorus Tri Chloride	2				chemical		
	35	Phosphorus	7723-14- 0	900	Nil	900	Specialty chemical		
	36	Phosphorus Acid	13598- 36-2	150	N:1	150	Specialty		
		Tri Butyl Phosphate (TBPO) Tri Iso Butyl Phosphite (TIBP)	126-73-8 126-71-7	150	Nil	150	chemical		
	37	Phosphorus Penta Cloride (PCL5)	10026- 13-8	200	Nil	200	Specialty chemical		
	38	Phosphorus Oxychloride (POCL3) OR	10025- 87-3	250 OR	Nil	250 OR	Specialty chemical		
	38	Phosphorus Thiochloride (PSCL3)	3982-91- 0	200	INII	200	Specialty chemical		
		Pesricide formulation products				·			
		Iso Propyl Amine Salt of Glyphosate Formulation		2600	Nil	2600			
	39	Ammonium Salt of Glyphosate Formulation		2600	Nil	2600	Pesticide formulation		
		Sodium Salt of Aceflorofen Formulation		1500	Nil	1500			
	40	MnSO4 (Manganese Sulphate) 31 % Solution	10124- 55-7	10000	Nil	10000	Intermediate chemical		
	TOTA			20750	18750	39500			
	C – BY	PRODUCTS		T		1			
	Sr No	By-product		NOC available TPM	CC&A available TPM	Additional TPM	Total TPM		
	01	HCL Solution		94.6	2732.02	440	3266.82		
	02	Dilute Sulphuric Acid		262.5	1655	1250	3167.5		
	03	Sodium Sulphate Powder OR			4092	9066.75	13158.75		
	3-a	Sodium Sulphate Solution			15680	35895.67	51575.67		
	04	MnOH2 (Manganese Hydroxide)			236	492	728		
	05	NnOH2 (Zinc Hydroxide)			39	9.75	48.75		
-	06	NASH Solution			1876 2070	16418.08	18294.08		
	07 08	Mangnesium Chloride Solution Ammonium Acetate OR		464		4702.5 3926.67	6772.50 4390.67		
	8-a	Acetic Acid and Ammonium Sul	nhate OR			4633.33	4633.33		
	8-b	Ammonium Sulphate and Sodi 30 %				5920	5920		
	09	Ammonium Chloride Powder Ol	₹		1034.25	3676.5	4710.75		
	9-a	Anhydrous Ammonia OR				415	415		
	9-b	20 % Aqueous Ammonia OR				2075	2075		
	9-с	CaCL2 Solution OR				4800	4800		
	9-d	CaCL2 Powder				1600	1600		
	10	Methyl Mercaptan				295.83	295.83		
	11	Sodium Bi Sulphite Solution				1276.58	1276.58		
	12	Ethanol Count Colvent (MDC)				37.83	37.83		
	13 14	Spent Solvent (MDC) Sodium Hypochlorite		 525	225	208.33	208.33 750		
	15	Ferrous Phosphorus			150		150		
	16	Calcium Silicate			6000		6000		
	17	Ti Phenyl Phosphate (TPPa)			66.51		66.51		
	18	Ammonium Sulphate Solution			3600		3600		
	19	Ammonium Sulphate Solid			750		750		
	20	Ethylene Chloride			44.5		44.5		
	21	Ammonium Hydroxide 20 %			116.75		116.75		
	22	POCL3			400		400		
	23	Sodium Sulphite			1200		1200		
	24	PTSA			94		94		

UPL	Limi	ted, Unit # 05, Jhagadia					
Comp	liance to	conditions mentioned in Environmental Clea	rance issue	ed by Ministr	y of Environ	iment, Forests & Clir	nate Change – vide letter
# J-11 Condi		/2015-IA-II(I) dated 05.04.2018					C1'
No		ription					Compliance status
110	25	Acetic Acid	1185			1185	
	26	Ammonia Solution		118		118	
	27	Ammonium Chloride		348		348	
	28	Steam		60		60	
04	Existing land area is 8,86,286.42 Sq M and no additional land will be required for proposed expansion. Green belt will be developed in an area of 2,21,571.6 Sq M. Estimated project cost is Rs 1923.68 Crores. Capital cost earmarked for pollution control measures is Rs 69.4 Crores and recurring cost (0&M) will be about Rs 1.4 Crores per annum					Rs 1923.68 Crores.	Noted for Compliance. There is no additional land required for proposed expansion. Estimated project cost is Rs 1923.68 Crores. Capital cost earmarked for pollution control measures is Rs 69.4 Crores and recurring cost (O&M) will be about Rs 1.4 Crores per annum. We have obtained provisional CTO for few products and once we receive final copy of CTO, we will start production activity
05	There are no national parks, wild life sanctuaries, biosphere, reserves, tiger / elephant reserves and wildlife corrodors etc within 10 kms of project site. Kaveri river is flowing at distance of 2.97 kms in north						Noted.
06	Fresh water requirement will be 10,000 KLD proposed to be met from GIDC supply. Treated effluent of 3000 KLD will be discharged to conveyance system of NCTL for disposal to deep sea Power requirement after expansion will be increased from 21 MWH to 71 MWH proposed to be sourced from DGVCL and captive power plant. Existing unit has five DG Sets of 625 KVA, 750 KVA, 1250 KVA, 1000 KVA and 320 KVA capacity. More six DG Sets of 1000 KVA each shall be used as standby during power failure. Stack of 20 meters height will be provided as per CPCB norms to proposed DG sets of 1000 KVA					osed to be sourced 0 KVA, 1250 KVA, as standby during ed DG sets of 1000	Noted for compliance. Fresh water requirement will be 10,000 KLD proposed to be met from GIDC supply. Treated effluent of 3000 KLD will be discharged to deep sea through NCT above ground pipeline. We have obtained provisional CTO and once we receive final copy of CTO, we will start production activity Noted for compliance
	bay, E 30 m emiss		oarticulate of of proc	emissions. T ess emission	wo stage wans of ammo	nia, HCL and SO2	Noted for compliance
		filter material, spent catalyst will be sent to CPPE and incineration ash will be sent to TSDF.					Noted for compliance Unit has membership for TSDF facility and CHWIF. Spent filter material, spent catalyst will be sent to CHWIF. Insulation wate, non recyclable plastic waste, used PPE and incineration ash will

UPL	Limited, Unit # 05, Jhagadia	
Compl: # J-110	iance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Clir 011/80/2015-IA-II(I) dated 05.04.2018	
Condit		Compliance status
No	Description	be sent to TSDF. Contaminated cotton waste to be sent to TSDF / CHWIF
07	Project covered under Category A of item 5b i.e. Pesticide Industry and Pesticide specific intermediates (excluding formulations)" of schedule to EIA Notification 2006 and requires appraisal at central level by sectoral WAC in MoEF&CC	Noted for compliance.
08	ToR for project was granted on 13th July 2015 followed by Amendment therein on 31st August 2015 providing exemption from Public Hearing	Noted
09	Proposal was considered by EAC (Industry2) in its meetings held during 8-9 December 2016, 27-28 February 2017, 17-18 April 2017 and 20-22 December 2017. PP and their consultant (Siddhi Green Excellence P Ltd) presented EIA / EMP report as per ToR. EAC found EIA / EMP Report to be satisfactory and in consonance with presented ToR. Committee has recommended the proposal for grant of EC	Noted
10	Based on proposed submitted by PP and recommendations of EAC, MoEF&CC hereby accords EC to project EXPANSION OF AGRO AND OTHER ORGANIC CHEMICALS manufacturing unit by UPL Ltd., Unit # 05 in total plot area of 8,86,286.42 Sq M located at Plot # 750 & 746, GIDC Estate, Jhagadia, Dist – Bharuch, Gujarat, under provisions of EIA Notification 2006 and amendments therein, subject to compliance of terms and conditions as under;	Noted for compliance
10.a	PP shall take stringent mitigating measures to minimize incremental concentration of air pollutants namely PM10 and PM 2.5 to the extent possible due to proposed industrial operations	Noted for compliance Unit has internal and external monitoring team and Unit will take mitigating measures to minimize incremental PM10 and PM 2.5
10.b	PP shall develop local air quality management plan in consultation with SPCB and implement to achieve desired standards	Complied. We have installed AAQM Monitoring location in consultation with GPCB and Monitoring results are given in Annexure 2. All Values are well within limit.
10.c	Incremental ground level concentrations for PM-10, PM-2.5, SO2 and NOX due to increased vehicular and other allied / developmental activities, shall be analyzed and reported for actual impact of the project, besides remedial measures	Complied. We have installed AAQM Monitoring location in consultation with GPCB and Monitoring results are given in Annexure 2. All Values are well within limit.
10.d	National Emission Standards for Pesticide Manufacturing and Formulation Industry, issued by MoEF&CC vide GSR 46(E) dated 03.02.2006 and amended from time to time, shall be followed by PP	Noted for compliance We are complying pesticide specific standards published by MoEF&CC.
10.e	Natural Gas / Imported Coal with less than 5 % Sulphur content / Biomass / Briquettes shall be used as fuel source for one no. New boiler of 150 TPH. Two stage water scrubbers with 30 meters stack height to be provided for control of process emissions of Ammonia, HCL and SO2 emissions separately	Noted for compliance We are using coal having sulfur less than 5%.
10.f	Two stage water scrubber followed by alkali scrubber to be provided to process vent to control process emissions like HCL, SO2, Cl2, Nox, HBr. Acidic scrubber to be provided to process vent to control process emissions of NH3 and HC. Scrubbered water to be sent to ETP For further treatment. Efficiency of scrubber to be monitored regularly and maintained properly. Scrubbers vent to be provided with online detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, emission levels to go beyond prescribed standards. System to be interlocked with pollution control equipment so that in case of any increase in pollutants beyond permissible, plant should be automatically stopped	Noted for compliance Two stage water scrubber followed by alkali scrubber will be provided to process vent to control process emissions like HCL, SO2, Cl2, Nox, HBr. Acidic scrubber will be

UPL	Limited, Unit # 05, Jhagadia	
Compli	iance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Clir 011/80/2015-IA-II(I) dated 05.04.2018	mate Change – vide letter
Condit	ion	Compliance status
No	Description	provided to process vent to control process emissions of NH3 and HC. Scrubbered water will be sent to ETP For further treatment. Efficiency of scrubber will be monitored regularly and
10.g	In plant control measures for checking fugitive emissions from all vulnerable sources to be provided. Fugitive emissions to be controlled by providing closed storage, closed handling and conveyance of chemicals / materials, multi cyclone separate and water sprinkling system. Dust suppression system including water sprinkling system to be provided at loading and unloading areas to control dust emissions. Fugitive emissions in work zone environment, product, raw materials storage area etc to be regularly monitored and records maintained	maintained properly. Complied We have started fugitive emission monitoring.
10.h	 For further control of fugitive emissions, following steps to be followed; Closed handling system to be provided for chemicals Reflux condenser to be provided over reactor System of LDAR of pump / pipeline based on preventive maintenance Acids to be taken from storage tanks to reactors through closed pipeline. Storage tanks to be vented through trap receiver and condenser operated on chilled water Cathodic protection to be provided with undergrond solvent storage tank Proper LDAR program for pesticide unit to be prepared and implemented as per CPCB guidelines. Focus 	Complied. We have provided closed handling system with reflux condenser, LDAR & suitable chilling system. Complied.
10.1	to be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are requuired. Proper maintenance of mechanical seals of pumps and valves to be given. Preventive maintenance schedule for each unit to be prepared and adhered to	We have provided closed handling system with reflux condenser, LDAR & suitable chilling system.
10.j	PP to take all measures in order to protect machineries and equipments for pesticide producing unit from ageing	Complied. We have implemented SAP Based Operation & Maintenance Schedule for Update / Fitness of Machinery.
10.k	Continuous monitoring system for CL2, HCL as well as Vocs to be installed at all important areas / places. Effective measures to be taken immediately when monitoring results indicate above the permissible limits. Alarm for chlorine leakage, if any, in liquid chlorine storage area is provided along with automatic start of scrubbing system	Complied. We have already implemented Online Cl2&HCL Monitoring system.
10.l	Gaseous emissions from DG Set to be dispersed through adequate stack height as per CPCB Standards. Acoustic enclosure to be provided to DG Sets to mitigate noise pollution	Noted for compliance
10.m	 Solvent management to be carried out as follows; Chilled brine circulation system to be provided to condensate solvent vapours and reduce solvent losses, ensuring that solvent recovery should not be less than 95 % Reactor and solvent handling pump to have mechanical seals to prevent leakages Condensers to be provided with sufficient HTA and residence time so as to achieve more than 95 % recovery Solvent to be stored in separate space specified with all safety measures Proper earthing to be provided inall electrical equipment wherever solvent handling is done Entire plant to be flameproof. Solvent storage tanks should be provided with breather valve to prevent losses 	Complied. Solvent recovery won't be less than 95 %. Solvent will be stored in separate space specified with all safety measures Reactor and solvent handling pump have mechanical seals to prevent leakages.
10.n	Fresh water demand after proposed expansion should be limited from 17,000 KLD to 10,000 KLD and prior permission to be obtained from competent authority	Complied. Fresh water demand after proposed expansion will be limited from 17,000

UPL	Limited, Unit # 05, Jhagadia	
Compli	ance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Clir	nate Change – vide letter
# J-110	111/80/2015-IA-II(I) dated 05.04.2018	Compliance status
No	Description	•
10		KLD to 10,000 KLD.
10.0	Effluent to be segregated into cyanide stream and high TDS / COD effluent streams. Cyanide effluent streams will be treated with Sodium Hypochlorite in alkaline medium, high TDS / COD effluent stream will be passed through steam stripper followed by concentrated in MEE. MEE condensate will be treated in ETP. Treated effluent from ETP will be passed through RO. RO permeate will be recycled / reused within plant premises. Domestic sewage should be treated in STP. Water quality of treated effluent should meet norms prescribed by CPCB / SPCB	Complied. We have implemented effluent segregation system in plant level.
10.p	Industry will reduce effluent quantity from $4768~\text{KLD}$ to $3000~\text{KLD}$ by adopting recycle / reuse. Treated effluent to be discharged to NCTL and disposed to deep sea	Complied. Effluent generation quantity is well within limit given by GPCB.
10.q	Process effluent / any wastewater shall not be allowed to mix with storm water. SWD to be passed through guard pond	Complied. We have separate storm water drainage network connected with CCTV Camera and Online pH Meters,
10.r	Hazardous chemicals to be stored in tanks in tank farm, drums, carboys etc. Flame arresters to be provided on tank farm. Solvent transfer to be by pumps	Complied. We have provided Hazardous Chemicals Storages in tank farm, drums, carboys with flame arrestors.
10.s	PP to obtain authorization for collection, storage and disposal of hazardous waste under Hazardous & Other Wastes (Management & Trans-Boundary Movement) Rules 2016 and amended as on date for management of HW and prior permission from GPCB to be obtained for disposal of solid / hazardous waste in TSDF. Measures to be taken for fire fighting facilities in case of emergency. Membership of TSDF for HW Disposal to be obtained	Complied Unit has obtained authorization for collection, storage and disposal of hazardous waste under Hazardous & Other Wastes (Management & Trans-Boundary Movement) Rules 2016 and amended as on date for management of hazardous waste in TSDF.
10.t	ETP sludge, inorganic waste to be sent to TSDF. High CV waste such as spent organic to be sent to cement factory / incinerated	Complied ETP sludge, inorganic waste will be sent to TSDF. High CV waste such as spent organic will be sent to cement factory / incinerated
10.u	PP to strictly comply with rules and guidelines under MSIHC Rules 1989 as amended in October 1994 and January 2000. All transportation of hazardous chemicals to be as per Motor Vehicle Act 1989	Noted for compliance
10.v	PP to make arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system to be as per norms	Complied Unit has made arrangement for protection of possible fire hazards during manufacturing process in material handling
10.w	Occupational health surveillance of workers to be done regularly and records maintained as per Factory's Act	Complied. The Unit maintains medical records for all employees as per Factory Act.
10.x	10 meters wide green belt of perennial trees like neem, seasam, teak etc to be developed inside along the plant periphery to mitigate effects of fugitive emissions all around the plant as per CPCB guidelines in consultatio with DFO	Complied. We have developed green belt within site for

UPL	Limited, Unit # 05, Jhagadia	
Compl # J-110	iance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Clin 011/80/2015-IA-II(I) dated 05.04.2018	
Condit		Compliance status
No	Description	mitigation of fugitive emissions.
10.y	At least 5 % of total cost of project to be earmarked towards Enterprise Social Commitment based on public hearing issues and itemwise details along with time bound action plan to be prepared and submitted to MoEF&CC Bhopal. Implementation of such program to be ensured accordingly in a time bound manner within 5 years	Complied. Public Hearing is exempted & least 5 % of total cost of project will be earmarked towards Enterprise Social Commitment
10.1	Grant of EC is further subject to compliance of other generic conditions as follows PP must strictly adhere to stipulations made by SPCB, State Government and other statutory authority	Natad fan aantalianaa
(i) (ii)	No further expansion or modification in plant to be carried out without prior approval of MoEF&CC. In case of deviations or alterations in project proposal from those submitted to this Ministry, fresh reference to be made to assess adequacy of conditions imposed and add additional environmental protectionn measures required, if any	Noted for compliance Noted for compliance
(iii)	Locations of AAQM stations to be decided in consultation with SPCB and ensured that at least one station is installed in upwind and downwind direction as well as where maximum ground level cooncentrations are anticipated	Complied. The Unit has established 3 AAQM Station as per GPCB Guidelines.
(iv)	National Ambient Air Quality Emissions Standards issued by MoEF vide GSR 826(E) Dated 16.11.2009 to be complied with	Complied. Unit is having internal & external monitoring and all values are well within limit.
(v)	Overall noise levels in and around plant area to be kept well within standards by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. Ambient noise levels to coonform to standard prescribed under EPA 1986 i.e. 75 dB(A) (day time) and 70 dB(A) (night time)	Noted for compliance. Unit is having internal & external monitoring and all values are well within limit
(vi)	PP to harvest rain water from roof tops of buildings and SWD to recharge ground water and utilize for different industrial operations within the plant	Complied. We have implemented Rain water harvesting at Canteen & Admin Building.
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Preemployment and routine peridoical medical examinations for all employees shall be undertaken on regularly. Training to all employees onn handling of chemicals shall be imparted	Complied. The safety and environmental training is given to all employees including contract workmen. Unit is having Preemployment and routine peridoical medical examinations for all employees
(viii)	PP to comply with all environmental protection measures and safeguards proposed in documents submitted to MoEF. All recommendations made in EIA / EMP in respect of environment management, risk mitigation measures and public hearing, shall be implemented	Noted for compliance. Public hearing is exempted as Unit falls under Notified Industrial Estate.
(ix)	PP to undertake all measures for improving socio-economic conditions of surrounding area. CSR Activities to be undertaken by involving local villagers, administration and other stake holders. Also, eco-developmental measures to be undertaken for overall improvement of the environment	Noted for compliance. We have already CSR Team working for lively hood of community surrounding our operation area
(x)	Separate Environment Management Cell equipped with full-fledged laboratory facilities to be set up to carry out environmental management and monitoring functions	Complied. We have separate Environment Management Cell in

	Limited, Unit # 05, Jhagadia	
	iance to conditions mentioned in Environmental Clearance issued by Ministry of Environment, Forests & Clir 011/80/2015-IA-II(I) dated 05.04.2018	nate Change – vide letter
Condit		Compliance status
No	Description	
		Place at site.
(xi)	PP to earmark sufficient funds towards capital cost and recurring cost per annum to implement conditions stipulated by MoEF as well as state government along with implementation schedule for all conditions stipulated herein. Funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose	Noted for compliance.
(xii)	Copy of clearance letter to be sent by PP to concerned Panchayat, Zila Parishad, Municipal Corporation, Urban local body and local NGO if any, from whom suggestions / representations, if any, were received while processing the proposal	Complied. EC copy has been shared with JIA / GIDC / nearby Gram Panchayat
(xiii)	PP shall also submit six monthly reports on status of compliance of stipulated EC conditions including results of monitored data (both in hard copy as well as by email) to respective RO of MoEF, respective ZO of CPCB and GPCB. Copy of EC and six monthly compliance status report shall be posted on web site of PP	Noted for compliance. Unit submits six monthly reports on status of compliance of stipulated EC conditions including results of monitored data to respective RO of MoEF, respective ZO of CPCB and GPCB and Copy of EC and six monthly compliance status report will be posted on web site
(xiv)	Environmental Statement for each financial year ending 31st March in Form V as is mandated to be submitted to SPCB as prescribed under EPA as amended subsequently, to be put on web site of PP along with status of compliance of EC conditions and to be sent to respective RO of MoEF by email	Noted for compliance. Unit submits Environmental Statement for each financial year ending 31st March in Form V to GPCB
(xv)	PP to confirm the public that project has been accorded EC byy MoEF and copies of EC are available with SPCB and may also be seen at web site of MoEF (http://moef.nic.in). This shall be advertised within seven days from date of issue of EC at least in two local news papers that are widely circulated in the region of which one shall be in vernacular language of the locality concerned and copy of the same shall be forwarded to concerned RO of MoEF	Complied. This is advertised within seven days from date of issue of EC in two local news papers i.e Times of India & Gujarat Samachar.
11	Ministry may revoke or suspend EC if implementation of any of above conditions is not found to be satisfactory	Noted for compliance
12	Ministry reserves the right to stipulate additional conditions if found necessary. PP in a time bound manner will implement these conditions	Noted for compliance
13	Above conditions will be enforced, inter-alia under provisions of Water Act 1974, Air Act 1981, EPA 1986, HWM Rules 2016 and PLI Act 1991 read with subsequent amendments therein	Noted for compliance

PRODUCTION DETAIL

(Apr-Sep 2019)

Sr. No.	Product / By-product	GPCB Consent Capacity (MT/Month)	Half yearly GPCB Consent Capacity in MT	Total Production in MT during the period Apr- Sep 2019
Α	Tri Phenyl Phosphite /Tri B	· ·	Butyl Phosphite	
	TPPI/TBPO OR	260 (Combined	1560	839
		Capacity) OR		
	TIBP	140		
	By Product	Г	T	
	HCI (30%)	620	3720	1138
В	PCl₃ Plant (Phosphorus Tric	hloride) Product		
	Phosphorus Trichloride	3050	18300	14947
С	156 TPD Caustic Chlorine P Caustic Soda Lye as 48%	ant Products 4680	28080	17197
	(On 100% Basis)			
	Chlorine Gas	3972	23832	17859
	Hydrogen Gas	225	1350	409
	Hydrochloric Acid (30%)	1200	7200	2903
	By Product	Γ	1	407
	Sodium Hypochlorite	225	1350	407
	Dilute Sulphuric Acid 78%	155	930	404.8
D	50 MW Power Plant Produc	ct (Natural Gas Based)		
	Electrical Power	50 MW/Hr		
	By Product	·		Not in Operation
	Steam	30 MT/hr		
	ı			
E	37.5 MW Power Plant Prod	· · · · · · · · · · · · · · · · · · ·		
	Electrical Power	37.5 MW/Hr	37.5 MW/Hr	29.92 MW/Hr
F	Phosphorus Oxychloride Pl	ant /PCL5/PSCL3		
	POCL3/PCL5/PSCL3	375	2250	1369
G	Phosphorous Plant Product		T	
	Phosphorous	300		Not in Operation

Sr. No.	Product / By-product	GPCB Consent Capacity (MT/Month)	Half yearly GPCB Consent Capacity in MT	Total Production in MT during the period Apr- Sep 2019
	By Product			
	Ferro Phosphorus	45		
	Calcium Silicate	2310		
	T			
Н	TDP/TTDP			
	Tri Decyl Phosphite (TDP) OR Phenyl Di-Iso Decyl	50 (Combined capacity)	300	
	Phosphite OR	. ,,		136
	Tris Tri Decyl Phosphite (TTDP)			
	Mancozeb Plant/ Antracol P	Plant		
'	Mancozeb	iant		13263
	Antracol	4000 (Combined Capacity)	24000	3161
	By Product			
	Sodium Sulphate 96% / sodium sulphate solution	4092 / 15680	118632	1734
J	Pendimethalin/Fipronil/ Buprofezin	400	2400	1356
К	CS2	3000	18000	13590
L	Glyphosate /Glufosinate	550 (Combined Capacity)	3300	2394
M	N Alkylated Xyledene OR	300 OR	1800 OR	
	HRT Ketone OR	200 OR	1200 OR	
	2 Ethyl 6 Methyl N N Aniline OR	300 OR	1800 OR	
	MPBAL OR	300 OR	1800 OR	
	UPDT	300	1800	712

Sr. No.	Product / By-product	GPCB Consent Capacity (MT/Month)	Half yearly GPCB Consent Capacity in MT	Total Production in MT during the period Apr- Sep 2019
N	DMPAT OR MO OR	600 OR 600 (Combined Capacity) OR	3600 OR	2906
	DESMP	300	1800	
	1		T	
0	DVACL/ Acrolein/ TEP	300/300/300 (Combined Capacity)	1800	1141
	,			
Р	Di Phenyl Methyl Phosphonate (DPMP) OR	15 OR		
	Tri Phenyl Phosphate (TPPA) OR	15 OR		
	Bisphenol Di Phosphate (BDP)	3.75		
Q	Fosthiazate (IKI-1145) OR Cyproconazole OR Atrazine (Combined Capacity) OR	250 (Combined Capacity) OR		
	2,4 D Technical	125		

WATER and WASTEWATER DETAIL

(April- Sep 2019)

	(April 3cp 2013)						
Month	Total G.I.D.C Fresh Water Consumption (KL)	GPCB Fresh Water Permissible Limit (KL/ Day)	Total Wastewater Discharged (including sewage water) to FETP,	GPCB Treated Effluent Discharge Permissible Limit (KL/ Day)			
			M/s NCT (KL)				
Apr'19	263350		54479				
May'19	272000		56242				
Jun'19	253723	8779	54300	2797			
July'19	276105		86473				
Aug'19	289016		70574				
Sep'19	209892		23409				
TOTAL	1564086		345477				
AVERAGE/DAY	8547	8779	1888	2797			

HAZARDOUS/ SOLID WASTE DETAIL

(Apr-Sep2019)

	Type of Waste	Category	Source of Generation	GPCB Consent Quantity (MT/Yr)	Actual Generation in MT during the period Apr-Sep 2018
1.	Brine sludge from Chloro- Alkali Plant	Z32	ССР	4672	1688
2.	Sludge from Old & New ETP	35.3	ETP Cleaning	2783	1240
3.	White Phosphorus Plant- Phosphorus Distillation Residue	B40	WP Plant	584	278
4.	Used Oil	5.1	Plants	8100 Liters	0 Liters
5.	Discarded Containers/ Barrels/ Liners	33.1	Unit is receiving some of the raw materials in drums (e.g. P4)	36500 Nos.	21940 Nos.
6.	Process Distillation Residue (Organic)	29.1	During process & cleaning of reactors	3920	2730
7.	Inorganic Solid Waste	B35	During process	100	7
8.	Batteries	A5	During maintenance of equipments	160 Nos.	130
9.	Filter Aids	36.2	During maintenance of equipments	1.5	0.4
10.	Contaminated Cotton Waste	33.2	During maintenance of equipments	12	0
11.	Waste Insulation Material	B01	During maintenance of equipments	23	2.1
12.	Used Contaminated Personal Protective Equipments	Z46	Plants	3	0.53
13.	Non-Recyclable Plastic Waste- Gaskets etc.	33.1	Plants	11	1.8
14.	Asbestos (Rope, Gland, PPE etc.)	B01	Plants	4	0.75
15.	Date Expired/ Off Specification Products	29.3	During Process Disturbance	14	0
	Solid Waste From Neutralization of Spent Acid	35.3	Inorganic from Pendimethylene Plant	9600	4418
	Aqueous Waste	29.1	During Operation in the Plants	1832	795
	Solid/Salt from MEE Plant	35.3	MEE	39729	13550
19.9	Spent Catalyst	29.5	Plants	5	1.5

Type of Waste	Category	Source of Generation	GPCB Consent Quantity (MT/Yr)	Actual Generation in MT during the period Apr-Sep 2018
20. Incinerator/Furnace Ash	37.2		22	NOT IN OPERATION
21. Flyash	Z14	Coal Fired Power Plant	61690	14390
22. Intact/Broken tube lights, Broken glass		Plants	1	NIL
23. Spent Resin from DM Plant	35.2	DM Plant	1	0.04

SUMMARY OF STACK MONITORING PARAMETERS (Apr – Sep 2019)

	()					
Stack Monitoring Result (period Apr-Sep 2019)						
Parameter	Monitoring Result (Average value of Apr-Sep 2019)	GPCB Permissible Limit				
lue Gas Stack Emissions- Fuel as Imported Co	pal					
	Stack attached to power plant					
PM	19.1 – 48.6 mg/nm3	100 mg/nm3				
SO2	17.5- 38 ppm	100 ppm				
Nox	13.3-27.5 ppm	50ppm				
Stack o	attached to Thermic fluid heater-TPPI plant- Fuel as Natural Gas					
SPM	9.4-29.7 mg/nm3	150 mg/nm3				
Sox	5.9-21 ppm	100 ppm				
Nox	7.7-15.8 ppm	50 ppm				

Process Stack Attached To	Unit	Parameter	Min	Max	GPCB Limit		
Phospho	rus Trichloride Plant	(PCL3)					
	mg/nm3	HCI	13.8	5.5	20		
PCL3 Process	mg/nm3	Cl2	BDL	BDL	9		
	mg/nm3	PCI3	BDL	BDL	9		
PCL3 storage tank and drum filling station scrubber	mg/nm3	PCI3	BDL	BDL	9		
	Caustic Chlorine plan	t					
56 TPD CCP	mg/nm3	HCI	11	BDL	20		
100 TPD CCP	mg/nm3	CI2	BDL	BDL	9		
56 TPD CCP	mg/nm3	HCI	15.1	5.7	20		
100 TPD CCP	mg/nm3	CI2	4.6	BDL	9		
Т	PPA/BDP/DPMP Plan	t					
TPPa / BDP/ DPMP	mg/nm3	HCI	14.8	BDL	20		
Phosphorus oxychlo	oride (POCI3) / Phosp	horus Thiochlori	de				
POCL3/PSCL3	mg/nm3	HCI	7.3	BDL	20		
	OZEB / ANTRACOL				•		
Mancozeb / Antracol	mg/nm3	H2S	BDL	BDL	5		
Mancozeb / Antracol	mg/nm3	CS2	56.3	BDL	180		
Mancozeb / Antracol	mg/nm3	SPM	17.9	11.3	20		
Mancozeb	mg/nm3	SPM	18.4	14.6	20		
Glyphosate / GLUfocinate / FOSTHIAZATE Plant							
Glyphosate / Fosthiazate (IKI 1145)/	mg/nm3	HCL	14.8	4.9	20		
Sulfentrazone/Boscalid Tech	mg/nm3	NH3	27.5	14.2	30		

	mg/nm3	HC	BDL	BDL	20
Glyphosate /	mg/nm3	NH3	17.2	BDL	30
GLUfOSINATE	mg/nm3	HC	BDL	BDL	20
020100114112	mg/nm3	HCL	16.6	BDL	20
Carbo	on Di Sulphide (CS2)	Plant			
Carbon Di Sulphide (CS2) Plant	mg/nm3	H2S	BDL	BDL	10
	DVACL PLANT				
DVACL	mg/nm3	HCI	8.9	7.4	30
DVACI/TEP	mg/nm3	SO2 OR NH3	56.2	BDL	175
DVACI-/	mg/nm3	HCI	BDL	BDL	20
ACROLEIN	mg/nm3	VOC	BDL	BDL	20
	MPBAL				
	mg/nm3	H2S	BDL	BDL	10
DESTICIDE INTERMEDIATE DI ANT (NI Allodotod	mg/nm3	CS2	60.2	BDL	180
PESTICIDE INTERMEDIATE PLANT (N Alkylated Xyledene OR HRT Ketone OR 2 Ethyl 6 Methyl N N	mg/nm3	NOX	14.5	BDL	25
Aniline OR MPBAL) / UPDT (Saponified	mg/nm3	CO	BDL	BDL	100
Polyacrylonitrile Starch Graft Polymer)	OR	OR	OR	OR	OR
	mg/nm3	NH3	85.1	15.8	175

^{*}Please Note: BDL= Below Detectable Limit

SUMMARY OF AMBIENT MONITORING PARAMETERS (Apr – Sep 2019)

SR. NO.	PARAMETERS	GPCB PERMISSIBLE LIMIT		AVERAGE	MAXIMUM	MINIMUM
	PARAIVIETERS		IIVIII	AVERAGE	IVIAAIIVIUIVI	IVIIIVIIVIOIVI
1	PM10	100	μg/m³	55.7	75.4	36.5
2	PM2.5	60	μg/m³	25.3	42	15
3	SOx	80	μg/m³	24.1	35.9	14.7
4	NOx	80	μg/m³	17.9	25.7	11.7
5	CO (AIR)	4	mg/m ³	BDL	BDL	BDL
6	AMMONIAB(AIR)	400	μg/m³	BDL	BDL	BDL
7	OZONE (O3)	180	μg/m³	BDL	BDL	BDL
8	ARCENIC as As	6	ng/m³	BDL	BDL	BDL
9	LEAD as Pb	1	μg/m³	BDL	BDL	BDL
10	NICKEL as Ni	20	ng/m³	BDL	BDL	BDL
11	BENZENE as C6H6	5	ng/m³	BDL	BDL	BDL
12	BENZOPYRENE (BaP)	1	ng/m³	BDL	BDL	BDL

^{*}Please Note: BDL= Below Detection Limit

SUMMARY OF EFFLUENT PARAMETERS (Apr-Sep 2019)

SR. No.	PARAMETERS GPCB PERMISSIBLE LIMIT 3rd PARTY (BI		3 rd PARTY (BEIL, ANK	EIL, ANKLESHWAR) ANALYSIS RESULT	
	PARAIVIETERS	GPCB PERIVIISS			MINIMUM
1	рН	6.5-8.5		7.14	6.6
2	COD (mg/L)	250 mg/L		219	43
3	TSS (mg/L)	100	mg/L	65	12
4	Ammonical Nitrogen (mg/L)	50 mg/L		18.5	BDL

NOTE: Treated water is being sent directly to deep sea through closed above ground pipeline systems developed by NCT (CETP).

TOTAL EXPENDITURE ON POLLUTION CONTROL MEASURES

Capital cost for Pollution Control Measures:

Sr. No.	Plant	Pollution Control Measures	EMS Cost in INR (Crores)		
1	PCL3/ POCL3	Scrubbers	0.5		
2	Caustic – Chlorine	Caustic & DM Scrubbers, RO (380 KLD), Solid Waste Storage Area & its shed	6.3		
3	PCI5 Scrubbers		0.2		
4	Mancozeb/ MEEs Scrubbers, MEES		39		
5	CS2 SRU (Sulphur Recovery Unit), TGTU (Tail Gas Treatment Unit), Fume Incinerator, Flare Stack, RO (350 KLD)		92.11		
6	Natural Gas based Power Plant	Heat Recovery Steam Generator (HRSG), Stack	0.5		
7	Coal Fired Power Plant	ESP, Dust Collectors	5.5		
8	Central ETP	ETP	0.53		
9	ETP	ETP, Guard Pond	13.5		
10	TOC / TKN Meter	TOC analyzer	0.42		
11	11 Glyphosatate/ Glufosinate Scrubbers, RO (250 KLD), Incineration Waste Storage Area		7.52		
12	Pendimethylene	Scrubbers	0.2		
	TOTAL				

Other EMS expenditure detail is as follows:

Sr. No.	Plant	EMS System	EMS Cost in INR (Crores)	
1	L Storm Water Drain CCTV Cameras & pH Meters		1.39	
2	CCP Plant & ETP	HCL analyzer for process stack & TSS sensor in ETP	0.13	
3	ETP New Three nos. of Bio-reactor		10.27	
4	All Plant	All Plant pH sensors for all process stacks; H2S analyzer for CS2 plant process stack; Online COD meter for ETP		
5	Mancozeb	New MEEs (2 nos. having 648 KLD each)	46	
6	MEE	Reverse Osmosis System (600 KLD)	1.8	
7	Storm Water Drain	SWD Upgradation	6	
8	Green Canteen	New Modernized Canteen	16	
9	BIO Gas Plant	New Modernized Canteen	0.32	
TOTAL				

Total capital investment cost for Pollution Control Measures is Rs. 249.39 crores.

<u>ANNEXURE – 3</u>

UPL CSR / Unit -5

	UPL CSR / Progress Report APRIL to SEPTEMBER 2019						
SI. No.	Month	Name of Activity	Unit / No.	Name Of Villages			
		3 Demonistration of Creeper Vegetable Cultivation of Half Acre Demonistrated in Fulwadi	3 Demo	Fulwadi			
		4-SHGs monthly meeting and 49 SHG members participated in Selod, Fulvadi, Sardarpura & Untiya	49 Women	Selod, Fulvadi, Sardarpura & Untiya			
1	April	62 AI (artificial insemination) have been performed in 8 villages.	62 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja			
		Meeting with farmer group at Selod, Sardarpura, Untia and Fulwadi and discussion on formation of Farmers Producer Company (FPO), NABARD support and benefits, planning on the training on Farmer Producer Organisation.	82 farmers	Selod, Sardarpura, Untia and Fulwadi			
	I		I	Γ			
		Completed the Sanitation Block in Dadheda Primary School, 200 Students benefited and acess safe and hyegine facilities in their own School Campus	1	Dadheda			
		Gap Filling (150 Plants Planted) in Fulwadi Social Forestry Site	150	Fulwadi			
2	N4	"4-SHGs monthly meeting and 59 SHG members participated in Kharchi, Fulvadi, Sardarpura & Untiya	59 women	Selod, Fulvadi, Sardarpura & Untiya			
2	May	2 Demonistration of Creeper Vegetable Cultivation of Half Acre Demonistrated in Fulwadi and 1 Demo of Rose Cultivation to increse the income of Farmers	3 Demo	Selod & Fulwadi			
		Meeting with farmer group at Selod, Sardarpura, Untia and Fulwadi and discussion on formation of Farmers Producer Company (FPO).	22 Farmers	Selod, Sardarpura, Untia and Fulwadi			

		"Cattle Breed Improvement Program- 52 AI (artificial insemination) have been performed in 8 villages.	52 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja
				L
		Celebrated environment day on 5th June, 2019. 25 volunteers participated and planted 3000 trees in the social forestry location.	25 Volunteers & 3000 Plants	Uchhali
2	"Cattle Breed Improvement Program- 58 AI (artif		48 Members	Fulwadi & Selod
3		3- Campain in schools to conserve natural resources	342 students	Fulwadi, Kharchi & Sardarpura
		"Cattle Breed Improvement Program- 58 AI (artificial insemination) have been performed in 8 villages.	58 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja
		Provide Drip irrigation in the 4250 plants in 9.5 acres of land in social forestry in Fulwadi	4250 Plants	Fulwadi
		"Distributed 2154 saplings in the schools of Sadarpura, Talodra, Untia, Kharchi, Selod, Fulvadi & Dadheda	2154 Plants	Sadarpura, Talodra, Untia, Kharchi, Selod, Fulvadi & Dadheda
		Gap filling of 120 plants planted in Fulvadi Plantation area.	120 Plants	Fulvadi
4	July	"4-SHGs monthly meeting and 51 SHG member participated in Selod, Fulvadi, Kharchi & Untiya	51 Members	Selod, Fulvadi & Untiya
		Conducted Awareness program in schools on sanitation hygiene	569 students	dadheda, kapalsadi, fulwadi, sardarpura, Unita
		3- Meeting with farmers group at Sardarpura & Untiya and discussed about horticulture plantation in	32 Farmers	Sardarpura, Untiya, Selod

		the farm land, Wadi Project & agriculture mechanization & mandap systems.		
		"Cattle Breed Improvement Program- 53 AI (artificial insemination) have been performed in 8 villages.	53 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja
				E Lady Manalas d
		Celebrated 15th August at Jhagadia block and distributed gifts (Gemetry box, Notebooks, Pencil, Scale, Sharpener, eraser to 1100 students of 9 schools)	9 Schools & 1100 Students	Fulvadi, Kapalsari, selod, Sardarpura, Dadheda, Kapalsadi, Gumanpura, Talodra & Unitiya
		"Conducted Awareness meeting with farmers group at Sardarpura, Untiya & Selod on Agro-Horti Forestry (Wadi) Project & agriculture mechanization & equipment & benefits of mandap systems for creeper vegetable. Conducted a special meeting on scope of medicinal plant plantation and marketing at Selod.	48 Farmers	Selod, Fulvadi & Unitia
5	August	"Cattle Breed Improvement Program- 49 AI (artificial insemination) have been performed in 8 villages.	49 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja
		Conducted Green Ganesh Workshop in 6 Primary School and 665 Students Participated and made Ganesha Idols in Mud	665 Students	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Dadheda
		3-SHGs monthly meeting and 43 SHG members participated and Facilitated to provision of Rs. 5 Lakh to the Federation of Fulwadi	43 Members	Fulvadi, Selod, & Untiya
	Septemb	Provided 1846 Plants to the Farmers 37 Farmers for	1846	Selod, Sardarpura,
6	er	Agro-Horti Model	Plants	& Fulwadi

Conducted 4 farmers meeting at Selod & Fulwadi, discussed about the procedure to form a new group and the additional benefits that UPL provide to them. Also discussed about the Agro-Horti Forestry (Wadi), Drip-irrigation Project & agriculture mechanization & equipment & benefits of mandap systems for creeper vegetable.	66 Farmers	Selod, Sardarpura, Kharchi & Fulwadi
25 Farmers visited to Vikram Farm for Exposer Visit from Jhagadia Cluster	25 farmers	Selod, Sardarpura & Fulwadi
3 Awareness program on Micro-Irrigation System conducted with collaboration with GGRD and MIS company. 43 Farmers from Selod & Fulwadi and 18 Farmers from Talodara Participated in the program 3- Meeting with SHGs members at Fulwadi and kharchi and discussed on saving, internal loan, scope and benefits of animal husbandry and requirement of skill development training for them.	51 Farmers 43 Members	Fulwadi, Selod & Talodra Kharchi, Untiya, & Fulwadi
"Cattle Breed Improvement Program- 58 AI (artificial insemination) have been performed in 8 villages.	58 AI	Sardarpura, Untiya, Fulvadi, Selod, Kharchi, Mulad, Nana Sanja, Mota Sanja



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)
CCA NO: AWH- 94827

NO: GPCB/ANK/CCA-134(24)/ID-25353/

DT:___/10/2018

In exercise of the power conferred under Section-25 of the Water (Prevention and Control of Pollution) Act-1974, under Section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under rule 6(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986.

And whereas Board has received consolidated application dated 24/02/2018 & 05/06/2018 and inward no.133240 & 138321 respectively for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

CONSOLIDATED CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid Environmental Acts)

To,
M/S. UPL LIMITED (UNIT-5)
PLOT NO. 750 & 746
GIDC NOTIFIED INDUSTRIAL ESTATE JHAGADIA,
DIST-BHARUCH.

1. Consent Order No.: AWH-94827 date of Issue 09/07/2018.

2. The consent under Water Act-1974 for conveying the industrial effluent discharge to the onshore effluent conveying underground pipeline for collection of treated effluent from member industrial units of Jhagadia industrial estates and conveyance of the collected effluent upto the Kantiyajal booster (Jhagadiya-to- Kantiyajal) Pumping Station, Village: Kantiyajal, Dist: Bharuch, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be valid up to 19/11/2024 to operate industrial plant to manufacture following products:

Sr	Product	Quantit	ty - MT /	Month	By-Product		ty - MT /	Month
Ņо	2000	Existing	Additi onal	Total after produc t mix change	(Hazardous Waste)	Existi ng	Addit ional	Total after produ ct mix chang e
01	PCL3 Plant						- 	1
	Phosphorus Tri Chloride	3050	NIL	3050		 		
02	156 TPD Caustic Ch	lorine Pla	nt			,	·	
	Caustic Soda Lye 48 % (on 100 %	4680	NIĻ	4680	Sodium Hypochlorite	225		225

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Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified Organisation

Product	Quantit	y - MT /	Month	By-Product	Quantit	ty – MT /	' Month
	Existing	Additi onal	Total after produc t mix change	(Hazardous Waste)	Existi ng	Addit ional	Total after produ ct mix chang e
basis)							
					155		155
(30 %)			1200	Acid (78 %)			
			1	T		T	1
Electric Power	50 MW / HR	NIL	50 MW / HR	Steam	60 MT / HR		60 MT / HR
Phosphorus	300	NIL	300	Ferrous Phosphorus	45		45
				Calcium Silicate	2310		2310
	T		T	T	T	Γ	
Phosphorus Penta Chloride (PCL5)	375 (Combin	NIL	375 (Combi	HCL (30 %)	17.33		17.33
Phosphorus Oxychloride OR Phosphorus Thiochloride	e Capacity)		ne Capacit y)				
Mancozeb / Antracol (combined	4000	NIL	4000	Sodium Sulphate Solution Manganese	1568 0		1568 0 236
capacity				Hydroxide			
NASH / Na2S	1276		1276	Zinc Hydroxide	39		39
Sodium Sulphate 96 % (Solid)	4092		4092				
Pendimethalin	400 OR	NIL OR	400	Spent HCL	200		200
Fipronil	400	NIL	ne	Spent H2SO4 Acid	600	NIL	600
Buprofezin OR Prothioconazole Tech OR Benoxacor	OR 400 OR NIL OR NIL	OR NIL OR 400 OR 400	y)	Nitric Acid	& 160	& NIL	& 160
	basis) Chlorine Gas Hydrogen Gas Hydrochloric Acid (30 %) 50 MW Power Plant Electric Power Phosphorus Phosphorus Penta Chloride (PCL5) Phosphorus Oxychloride OR Phosphorus Thiochloride Mancozeb / Antracol (combined capacity) NASH / Na2S Sodium Sulphate 96 % (Solid) Pendimethalin OR Fipronil OR Fipronil OR Prothioconazole Tech OR	basis) Chlorine Gas 3972 Hydrogen Gas 225 Hydrochloric Acid (30 %) 50 MW Power Plant (NG base) Electric Power 50 MW / HR Phosphorus 300 PCL5 Plant Phosphorus Penta Chloride (PCL5) Phosphorus 0xychloride OR Phosphorus Thiochloride Mancozeb / Antracol (combined capacity) NASH / Na2S 1276 Sodium Sulphate 4092 96 % (Solid) Pendimethalin 400 OR Fipronil 400 OR Buprofezin OR OR Prothioconazole OR Tech OR Tech OR	basis) Chlorine Gas Hydrogen Gas Hydrochloric Acid (30 %) 50 MW Power Plant (NG base) Electric Power Electric Power Fhosphorus Phosphorus Phosphorus Phosphorus Oxychloride OR Fipronil OR Fipronil OR Frech OR F	Existing Additi onal after produc t mix change Dasis Chlorine Gas 3972 NIL 3972	basis) Chlorine Gas 3972 NIL 3972 Dilute Hydrogen Gas 225 NIL 225 Sulphuric Hydrochloric Acid (30 %) 50 MW Power Plant (NG base) Electric Power 50 MW / HR / HR Phosphorus 300 NIL 300 Ferrous Phosphorus Calcium Silicate PCL5 Plant Phosphorus Penta Chloride (PCL5) (Combin Posphorus Poxychloride Oxychloride Capacity OR Phosphorus Thiochloride Mancozeb / Antracol (combined capacity) NASH / Na2S 1276 1276 Zinc Hydroxide Sodium Sulphate 400 NIL 4000 Sodium Capacity OR	Existing Additional Total after product timix change Existing product Existing product timix change Existing product timix change Existing product Existing product timix change Existing product Existing p	Existing Additt after product t mix change Existing Additt onal after product t mix change Existing Additt onal Additt onal

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Sr	Product	Quantit	y - MT /	Month	By-Product	Quantit	ty – MT /	' Month
No		Existing	Additi	Total	(Hazardous	Existi	Addit	Total
			onal	after	Waste)	ng	ional	after
				produc				produ
				t mix				ct mix
				change				chang
								e
09	Glyphosate	550	NIL	550	Ammonium	3600		3600
	OR				Sulphate			
	Glufosinate				Solution	750		750
	(combined				Ammonium	750		750
	capacity)				Sulphate Solid			
					Magnesium	2070		2070
					Chloride	2070		2070
					Solution			
					Ammonium	950	-	950
					Chloride(Soli			
					d)			
10	CS2 (Carbon Di	3000	NIL	3000				
	Sulphide)							
11		37.5	NIL	37.5			-	60
		MW/H		MW/H				MTH
	37.5 MW POWER	(Exising						
	PLANT (Coal Fired	- 23				60		
12)	MW/H)	NIII	F0	Steam	MTH		
12	Phenyl Di IsoDecyl	50	NIL	50				
	Phosphite OR							
	Tri Decyl Phosphite							
	(TDP)							
	OR							
	Tris Tri Decyl							
	Phosphite (TTD)	Ъ						
13	Di Phenyl Methyl	15	NIL	15	HCL (30%)	56.6	-	56.6
	Phosphonate \(\frac{1}{2}\)							
	(DPMP)	OR		OR				
	OR S	15		15	HCl (30%)	17.08	-	17.08
	Tri Phenyl							
	Phosphate (TPPA)	OR		OR	W. (0.00)			
	OR	3.75		3.75	HCL (30%)	6.64	-	6.64
	Bisphenol Di				TIDD A	F 4		F 4
4	Phosphate (BDP)				TPPA	5.1	-	5.1
6.	7							
14	Tri Phenyl	260	NIL	260	HCL (30 %)	620	-	620
42.14	Phosphite (TPPI)	200	14177	200	1101 (30 70)	020	-	020
	- 1.00pinco (1111)			l .	1	l .		l .

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Sr	Product	Quantit	y - MT /	Month	By-Product	Quantit	ty – MT /	Month
No		Existing	Additi onal	Total after produc t mix change	(Hazardous Waste)	Existi ng	Addit ional	Total after produ ct mix chang
15	Tri Butyl Phosphate (TBPO) OR Tri Iso Butyl Phosphite (TIBP) OR Phosphorus Acid	(Combin e Capacity) OR 140		(Combin e Capacit y) OR 140				e
16	Di Methyl PhosphoroAmido Thioate (DMPAT) OR Myristyl amine(MO) (Combine Capacity) OR Phosphonate Diethyl P – Toluene Sulfonyloxy Methyl Phosphonate (DESMP)	600 OR 600 (Combin e Capacity) OR 300	NIL	600 OR 600 (Combi ne Capacit y) OR 300	HCL (30 %) Ammonium Chloride (NH4CL)	998		998
17	Fosthiazate (IKI- 1145) OR	250 OR 250	NIL OR NIL	250 OR 250	Ethylene Chloride Ammonium	44.5 84.25		44.5 84.25
	Cyproconazole OR Atrazine (Combine Capacity)	OR 250 (Combin e Capacity)	OR NIL OR NIL	OR 250 (Combi ne Capacit y)	Chloride Ammonium Hydroxide (20 %)	116.7 5		116.7 5
	OR 2,4 D Technical (2, 4 DiChloroPhenoxy Acetic Acid) OR	OR 125 OR NIL	OR 125 OR	OR 125 OR 125	Sodium Hypochlorite (IKI – 1145)	NIL	130 64	130

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Sr	Product	Quantit	y - MT /	Month	By-Product	Quanti	ty – MT /	' Month
No		Existing	Additi	Total	(Hazardous	Existi	Addit	Total
			onal	after	Waste)	ng	ional	after
				produc				produ
				t mix				ct mix
				change				chang
	C IC +		125		1101 2007	NIII		e
	Sulfentrazone	ΔD	125	ΩD	HCl 30%	NIL		64
	OR	OR	OR	OR 125				
	Trifloxystrobin	NIL	125	125	OR		42	
	TTIIIOXYSUODIII	OR	123	OR	Succinimide	NIL	34	42
	OR	NIL		125	NaBr	NIL	34	34
	Boscalid	IVIL		123	Nabi	IVIL		31
	Dosculla				OR		44	
					30% HCl	NIL	_	44
18	Dichloro Vinyl Acid	300/30	NIL	300/30	Spent		-	
	Chloride (DVACL)/	0/300		0/300	Sulphuric			
	Acrolein/Triethyl	Combin		Combin	Acid	900		900
	Phosphite	e		e	POCl3	400	-	400
	(Combine capacity)	capacity		capacit	HCl (28%)	490	-	490
				У	Sodium		-	
					Sulphite	1200		1200
					Ammonia	37	-	
					Solution			37
					Ammonium	348	-	0.40
10	NT All 1 . 1		NIII		Chloride	01		348
19	N Alkylated	200	NIL	200	Ammonia	81	-	81
	Xyledene OR HRT Ketone OR	300		300	Solution			
	2 Ethyl 6 Methyl N	200		200				
	N Aniline OR	200		200				
	MPBAL OR	300		300				
	UPDT(Saponified	Ъ						
	Polyacrylo nitrile	300		300				
	Starch Graft							
	Polymer)	300		300				
20	Metolachlor (as per	NIL	200	200	NIL	NIL	NIL	NIL
	CTE No 49030							
	dated 04.01.2013)							
21	Mancozeb,							
	Antracol,							
	Glufosinate,		(5 00					
6.	Pendimethelen, S-		6700					
10.4	Metalachlor,							
127	Flonicamide							
	(IKI220),							

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Sr	Product	Quantit	ty – MT /	Month	By-Product	Quantit	ty – MT /	' Month
No		Existing	Additi onal	Total after produc t mix change	(Hazardous Waste)	Existi ng	Addit ional	Total after produ ct mix chang e
	Clomazone, Acephate (Combined capacity)							

SPECIFIC CONDITIONS:-

- a. Unit shall not carryout any activity / production without prior permission that attracts EIA Notification dated 14/09/2006 amended from time to time.
- b. Unit shall obtain permission from CPCB / GPCB under rule- 9 of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 for utilization of spent of other industry as Raw material.
- c. All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- d. Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9.
- e. The Hazardous Waste which are not being generated as their related products production is not yet started. But whenever unit is starting production of such products and Hazardous Waste being generated from those, have to be sold to only such units with whom unit has made MoU and have valid Rule-9 permision.
- f. Unit shall comply with central government pesticide (prohibition) order 2018 notified vide letter No. S.O.3951(E), dated:08/08/2018.

3. CONDITION UNDER THE WATER ACT:

3.1 The quantity of total water consumption shall not exceed 8779 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

a) Industrial: 8624 KL/Dayb) Domestic: 155 KL/Day

3.2 The quantity of total waste water generation shall not exceed 1820 KL/Day as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.

(a) Industrial: 1677.5 KL/Day b) Domestic: 142.5 KL/Day

3.3 Sewage shall be disposed off through septic tank/ soak pit system or shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation / plantation.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD ₃ , 27 ^o C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

Or Sewage shall be treated in ETP along with Industrial effluent and discharged into onshore effluent conveying underground pipeline for collection of treated effluent from member industrial units of Jhagadia industrial estates and conveyance of the collected effluent upto the Kantiyajal booster (Jhagadiya-to- Kantiyajal) Pumping Station, Village: Kantiyajal, Dist: Bharuch.

3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable)

Parameters	Max. permissible values (in milligram/liter except for pH and Temperature) for discharge of treated effluent into JPP
рН	6.5-8.5
Biological Oxygen Demand, BOD ₃ , 27 ^o C (For Technical grade unit)	100
Chemical Oxygen Demand (COD)	250
Total Suspended Solids (TSS)	100
Temperature, ⁰ C	Shall not exceed more than 5°C above ambient water temperature
Oil & Grease	10
Ammonical –Nitrogen	50
Total Kjeldahl Nitrogen (TKN)	50
Nitrate- Nitrogen	50
Flouride (F)	15
Sulphides, as S	5
Phenolic compounds (as C ₆ H ₅ OH)	1
Total Residual Chlorine	1
Zinc (Zn)	1
Iron (Fe)	3
Copper (Cu)	1
Manganese (Mn)	1
Cyanide (CN)	0.2
Vanedium	0.2
Hexavalent Chromium (Cr+6)	0.1
Selenium (Se)	0.05
Antimony (Sb)	0.1
Cadmium (Cd)	0.015
Lead (Pb)	0.05
Mercury (Hg)	0.005
Molybdenum (Mo)	0.35
Nickel (Ni)	0.1
Total arsenic (As)	0.05
Total chromium (Cr)	0.25

Phosphate (P)	5
Sulphur	0.03
Benzene Hexachloride (BHC)	0.01
Carbonyl	0.01
Copper Sulphate	0.05
Copper Oxychloride	9.6
DDT	0.01
Dimethoate	0.45
2,4 D	0.4
Endosulfan	0.01
Fenitothrion	0.01
Malathion	0.01
Methyl Parathion	0.01
Paraquat	2.3
Phenathoate	0.01
Phorate	0.01
Proponil	7.3
Pyrethrums	0.01
Ziram	1
Other Pesticide (individually)	0.1
Bio-assay test	90 % Survival of fish after 96 hours in
	100 % effluent.
Colour & Odor	All efforts shall be made to remove
	Colour & unpleasant odour as far as
	possible

- 3.5 The effluent conforming to the above standards shall be discharged into onshore effluent conveying underground pipeline for collection of treated effluent from member industrial units of Jhagadia industrial estates and conveyance of the collected effluent upto the Kantiyajal booster (Jhagadiya-to- Kantiyajal) Pumping Station, Village: Kantiyajal, Dist: Bharuch.
- 3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks/HDPE tanks.
- 3.7 Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.
- 3.8 Hydraulic Load given to member unit of NCT Jhagadia Pipeline Project is non-transferable i.e. member unit can not sell or buy hydraulic load to/from any other units. No addition \(\text{alteration of the booked volume shall be done without permission of the board.} \)
- 3.9 Hydraulic load of unit shall be as per hydraulic load freezed as on 10/01/17.
- 3.10 Unit shall provide online monitoring system for pH, TOC and TKN with recorder & magnetic flow meters for flow measurement of treated waste water.
- 3.11 Unit shall have only one authorized outlet over the ground with full access from outside the premises, as per design approved by NCT Jhagadia Pipeline Project authority.
- 3.12 In case of shut-down of plant for more than three (3) days for any reason, the NCT Jhagadia Pipeline Project member shall intimate to NCT Jhagadia Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.
- Jacob Junit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCT Jhagadia Pipeline. Unit

- shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCT Jhagadia Pipeline.
- 3.14 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the underground drainage network of NCT Jhagadia Pipeline.
- 3.15 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.16 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into NCT Jhagadia Pipeline.
- 3.17 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, NCT Jhagadia Pipeline Project membership number & date of joining of NCT Jhagadia Pipeline Project, the electricity consumer number as on the record of DGVCL.
- 3.18 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 3.19 Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of NCT Jhagadia Pipeline specified by GPCB.
- 3.20 The authorized representative of NCT Jhagadia Pipeline Project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.
- 3.21 Unit shall have to keep accurate records of quality & quantity of effluent discharged to NCT Jhagadia Pipeline on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.22 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.23 In case of incinerators or MEE, the flow measuring devices for mother liquor/toxic effluent/ Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
- 3.24 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.25 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the NCT Jhagadia Pipeline.
- 3.26 If the NCT Jhagadia Pipeline Project authority terminates the membership of Pipeline Project, the NCT Jhagadia Pipeline Project member unit shall have to close down the

- manufacturing activities/industrial operation of the process plant immediately until the NCT Jhagadia Pipeline Project membership is resumed.
- 3.27 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.
- 3.28 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th September every year.
- 3.29 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.30 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 3.31 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

4. **CONDITIONS UNDER THE AIR ACT:**

4.1 The following shall be used as fuel:

Sr. No.	Fuel Name	Quantity				
NO.		Existing	Proposed	Total		
1	Natural Gas	380164 m3/day	NIL	380164 m3/day		
2	HSD	7700 lit/day	NIL	7700 lit/day		
3	FO	19.7 KL/Day	50 KL/Day	69.7 KL/Day		
4	Coal for power Plant	25700 MT/M	NIL	25700 MT/M		

4.2 The flue gas emission through stack shall conform to the following standards:

Stack No.	Stack attached to	Stack Height in Meter (From G.L.)	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
Existir	ng				
1.	STEAM BOILER I&II	45		PM	150 mg/Nm3
				So2	100 ppm
				NOx	50 ppm
2.	Gas Turbine	30		PM	150 mg/Nm3
	Generator of Power			So2	100 ppm

	Plant			NOx	50 ppm
		0.5		D14	450 / 100
3.	Heat Recovery	35		PM	150 mg/Nm3
	steam boiler			So2	100 ppm
4	The contract of the	22		NOx	50 ppm
4.	Thermic fluid	33		PM C-2	150 mg/Nm3
	heater of TPPI			So2	100 ppm
5.	D.G Set	5		NOx PM	50 ppm
5.		5		So2	150 mg/Nm3
	(625 KVA)			NOx	100 ppm
6.	D.G Set	5		PM	50 ppm
о.		5		So2	150 mg/Nm3
	(750 KVA)			NOx	100 ppm
7	D.G Set	17		PM	50 ppm
7.		17			150 mg/Nm3
	(1250 KVA)			So2	100 ppm
	Cara lauren au	20		NOx	50 ppm
8.	Gas burner	30		PM C-2	150 mg/Nm3
	mounted furnace of			So2	100 ppm
0	WP Plant	20		NOx	50 ppm
9.	D.G Set	30		PM So2	150 mg/Nm3
	(1000 KVA)				100 ppm
10	D C Cot (220 IZVA)	07		NOx	50 ppm
10.	D. G Set (320 KVA)	07		PM So 2	150 mg/Nm3
	ETP Plant Backup			So2 NOx	100 ppm
11	power CS2 Plant STEAM	45		+	50 ppm
11	BOILER	45		PM So2	150 mg/Nm3
				NOx	100 ppm
	-7 MT/HR for CS2 Plant			NOX	50 ppm
12	ESP of Coal fired	100		PM	150 mg/Nm3
	Boiler-I of Power			So2	100 ppm
	plant (130 TPH)			NOx	50 ppm
Propo	sed &		•	•	
13	ESP of Coal fired	75		PM	150 mg/Nm3
	Boiler- II of Power			So2	100 ppm
	plant (114 TPH)			NOx	50 ppm
14	MNZ Utility (1010	30		PM	150 mg/Nm3
	KVA) (Mancozeb)			So2	100 ppm
,6				NOx	50 ppm
15	Near GF3000 PCC	11		PM	150 mg/Nm3
Dr	Room (900 KVA)			So2	100 ppm
P *	(WDG Phase I and			NOx	50 ppm
	II)				
16	Near GF3000 PCC	11		PM	150 mg/Nm3
	Room (900 KVA)	. =		So2	100 ppm

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	(GF3000)		NOx	50 ppm
17	Nr CS2 Fire Hydrant	11	PM	150 mg/Nm3
	System (600 KVA)		So2	100 ppm
	(For fire hydrant		 NOx	50 ppm
	system)			
18	Nr CS2 Fire Hydrant	6	PM	150 mg/Nm3
	System (750 KVA)		 So2	100 ppm
	(for Fire Hydrant		 NOx	50 ppm
	System)			
19	Nr CS2 Fire Hydrant	6	PM	150 mg/Nm3
	System (750 KVA)		 So2	100 ppm
	(for Fire Hydrant		 NOx	50 ppm
	System)			
20	At ETP Plant (600	11	PM	150 mg/Nm3
	KVA) (ETP + UPH		 So2	100 ppm
	ETP + Gate no. 3)		NOx	50 ppm
21	Nr GF 3000 PCC	11	PM	150 mg/Nm3
	Building (600 KVA)		 So2	100 ppm
	(DMPAT)		NOx	50 ppm
22	Nr GF 3000 PCC	11	PM	150 mg/Nm3
	Building (600 KVA)		 So2	100 ppm
	(DMPAT)		NOx	50 ppm
23	WDG MEE (900	11	PM	150 mg/Nm3
	KVA) (WDG MEE +		 So2	100 ppm
	UPH5000)		NOx	50 ppm

4.3 The Process emission through various stacks/ vent of reactors, process, vessel shall conform to the following standards:

Sr.	TYPE OF	AIR POLLUTION	HEIGHT	AIR EM	IISSION
No.	STACK	CONTROL SYSTEM	(M)	POLLUTANT	PERMISIBLE
					LIMIT.
Existi	ng	8			
(A	A) Phosphorus Tri	cHLORIDE PLANT (PCL3)			
1.	PCl3	Caustic scrubber for			
	Process-	distillation section	30		
	سي .		(Combine		
	,01		D stack)	HCl	20 mg/Nm3
	PCL3 Storage	Caustic scrubber for		Cl2	09 mg/Nm3
	tank & drum	storage Tank		PCl3	09 mg/Nm3
	filling station				
4	Scrubber-				
(F)	3) Caustic Chlorine	e (CCP) PLANT			

Sr.	TYPE OF	AIR POLLUTION	HEIGHT	AIR EMISSION		
No.	STACK	CONTROL SYSTEM	(M)	POLLUTANT	PERMISIBLE LIMIT.	
2	56 TPD CCP-	Caustic scrubber system for waste air dechlorination of 56 TPD CCP	30 (Combine D stack)	HCl Cl2	20 mg/Nm3 09 mg/Nm3	
	100 TPD CCP Plant-	Caustic scrubber system for waste air dechlorination of 100 TPD CCP				
3	56 TPD CCP Plant	DM water scrubber attached to HCl furnace 56 TPD furnaces CCP	30	HCl Cl2	20 mg/Nm3 09 mg/Nm3	
	100 TPD CCP	DM water scrubber attached to HCl furnace 100 TPD furnaces CCP	30	HCl Cl2	20 mg/Nm3 09 mg/Nm3	
(C) T	'PPA/BDP/DPMP I	PLANT				
4.	TPPA/BDP/DP MP	Stack attached to Process Scrubbers (water and alkali)	30	HCL	20 mg/nm3	
(D)PI	HOSPHORUS OXYO	CHLORIDE (POCL3)/PHOSPI	HORUS THIO	CHLORIDE	L	
5	POCl3 / Phosphorus Thio Chloride (PSCL3) –	Caustic two stage scrubber attached to distillation column	30	HCl	20 mg/Nm3	
(E) W	HITE PHOSPHORI	US PLANT		l		
6	White Phosphorus (WP) plant	Phosphorus Sludge pot vent reactor (distillation column)-Ventury scrubber for pot cleaning	10	P205 P203	5 mg/Nm3 9 mg/Nm3	
7.	White Phosphorus (WP) plant	Ventury scrubber for slag tapping	10	P205 P203	5 mg/Nm3 9 mg/Nm3	
8.	White Phosphorus (wp) plant	Furnace CO flare stack & pressure relief vent	28	P205 CO	5 mg/Nm3 100 mg/Nm3	
(F)P	HOSPHORIC ACID	PLANT	1	1	1	

Sr.	TYPE OF	AIR POLLUTION	HEIGHT	AIR EMISSION		
No.	STACK	CONTROL SYSTEM	(M)	POLLUTANT	PERMISIBLE LIMIT.	
09	Phosphoric Acid (H3PO4) Plant /TBP/TBPI ri Phenyl Phosphit	Water & Alkali Scrubber attached to reactor	30	HCl Cl2 NOx SO2	20 mg/Nm3 09 mg/Nm3 25 mg/Nm3 40 mg/Nm3	
10	Tri Phenyl	Water scrubber & venturi	30	HCl	20 mg/Nm3	
	Phosphite Plant (TPPI)	Scrubber attached to reactor	30	Her	20 mg/ mm3	
(H) P	CL5 PLANT					
11	PCl5 Process	Water scrubber and Caustic Scrubber (Two stage scrubber)	30(Combi	HCl	20 mg/Nm3	
	PCl5 Process	Water scrubber and Caustic Scrubber (Two stage scrubber)	neD stack)	Cl2	9 mg/Nm3	
(I) MANCOZEB	/ANTRACOL PLANT				
12	Mancozeb / Antracol	Caustic Scrubber Attached to D-14, Reactor	30 (Combine d stack)	H2S CS2	5 mg/Nm3 180 mg/Nm3	
	Mancozeb / Antracol	Caustic Scrubber attached to Precipitation reactor		H2S CS2	5 mg/Nm3 180 mg/Nm3	
13	Mancozeb / Antracol	Bag filter attached to RVDF	30 (Combine D stack)	SPM (Combined stack)	20 mg/Nm3	
	Mancozeb	Water Scrubber attached to Spray Dryer		-		
(J)G	lyphosate / GLUfo	cinate / FOSTHIAZATE Plan	t			
14	Glyphosate / Fosthiazate (IKI 1145)/ Sulfentrazone/	Water scrubber /Caustic scrubber attached to Reactor	30	NH3 HCL OR	30 mg/nm3 20 mg/nm3 OR	
÷.	Boscalid Tech			NOx HCl OR HCl	25 mg/nm3 20 mg/nm3 OR 25 mg/nm3	
10.50				S02	20 mg/nm3	

Sr.	TYPE OF	AIR POLLUTION	HEIGHT	AIR EM	IISSION
No.	STACK	CONTROL SYSTEM	(M)	POLLUTANT	PERMISIBLI LIMIT.
15	Glyphosate / GLUfOSINATE	Scrubber attached to DSIDA reactor	30	NH3 HC HCL	30 MG/NM3 20 MG/NM3 20 MG / NM3
(K) C	arbon Di Sulphide	(CS2) Plant		HCD	20 Ma / NM
16	Carbon Di Sulphide (CS2) Plant	Sulfur recovery Unit & Fume Incinerator	30	H2S	10 mg/nm3
17	Carbon Di Sulphide (CS2) Plant	Flare stack attached to CS2 plant for emergency	30	H2S CS2 CO	10 mg/nm3 180 MG/NM 100 MG/NM
(L) D'	VACL PLANT			•	
18	DVACL	General(Alkali) Scrubber	30	HCl	20 mg/Nm3
19	DVACI/TEP	Alkali Scrubber OR HCL scrubber	30	SO2 OR NH3	40 mg/Nm3 OR 175 mg/nm3
20	DVACI-/ ACROLEIN	DM water Scrubber OR Catalytic Convertor	30	HCl OR VOC	20 mg/Nm3
(M) M	IPBAL				
21	PESTICIDE INTERMEDIAT E PLANT (N Alkylated Xyledene OR HRT Ketone OR 2 Ethyl 6 Methyl N N Aniline OR MPBAL) / UPDT (Saponified Polyacrylonitril e Starch Graft Polymer)	Caustic Scrubber / Flare Stack OR Water scrubber	30	NOX H2S CO CS2 OR NH3	25 mg/nm3 10 mg/nm3 100 mg/nm3 180 mg/nm3 OR 175 mg/nm3
4.4	The concentration	on of the following paramet t exceed the limits specified	hereunder.	nbient air within	the premises
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Cu No	Dawamatana	Permissible Limit (microgram /m ³)			
Sr. No.	Parameters	Annual	24 Hours Average		
1.	Particulate Matter (PM ₁₀)	60	100		
2.	Particulate Matter (PM _{2.5})	40	60		
3.	Oxides of Sulphur (SO _x)	50	80		
4.	Oxides of Nitrogen (NO _x)	40	80		

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
- 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.5 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.6 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.7 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.8 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.9 All efforts shall be made to control VOC emissions and odor problem, if any.
- 5. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).
- 5.1 Number of authorization: AWH-94827 date of Issue 09/07/2018.
- 5.2 **M/s. UPL LIMITED (UNIT-5)** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO:750, 746, GIDC ESTATE IHAGADIA. DIST: BHARUCH.**

Sr.	Name of	SC	CATEGO	Quantity	Additiona	Additional	TOTAL	FACILITY	Disposal at
No.	hazardous	H	RY	MT/year	l	after	Qty		
	waste		NO.		AFTER	EXPANSION	MT/YR		
			5		PRODUCT	MT / YR			
			V		MIX				
	/	20			CHANGE				
	,3				MT/YR				
1	Brine 🗀	Z	Z32	4672 MT	NIL	NIL	4672 MT	Collection,	To M/s. BEIL
	Sludge from							generation,	for land
	Chloro -							disposal,	filling
	Alkali Plant							treatment,	
13	(chemical							storage,	
250	waste)							transportation	

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	Sludge from old ETP and New ETP (chemical sludge from Wastewater Treatment Plant)	I	35.3	2283 MT	NIL	500 MT	2783 MT	Collection, generation, disposal, treatment, storage, transportation	To M/s. BEII for land filling
	White and Red Phosphorus Plant Phosphorus Residue	II	Schd-II B-40	584 MT	NIL	NIL	584 MT	Collection, generation, disposal, treatment, storage, transportation	To M/s. BEII for land filling
	Used Oil (used or spent oil)	I	5.1	8100 lit	NIL	500 Lit	8600 lit	Collection, recycling, generation, disposal, reuse, storage, transportation	Sold to CPCE registered recycler
	Discarded containers / Barrels / Liners (Empty barrels / containers / liners contaminat ed with hazardous chemicals / wastes)	I	33.1	401 MT	NIL	NIL	401 MT		n and sold to GPCB
100	Process Distillation Residue (Organic) (process waste or	I	29.1	3920 MT	NIL	NIL	3920 MT	Collection, generation, incineration, disposal, storage, transportation	To M/s. BEIL for incineration

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	residue)								
	Inorganic Solid Waste (Phosphate compounds except phosphates of Aluminium, Calcium and Iron)	II	Schd-II B-35	100 MT	NIL	NIL	100 MT	Treatment, storage, transportation	To M/s. BEIL for land filling
	Batteries (Lead)	II	Schd-II A5	145 Nos (7 MT)	NIL	25 Nos	160 NOs	Collection, recycling, generation, disposal, storage, transportation	Send to recycler
	Filter Aids (spent carbon or filter medium)	I	36.2	1.5 MT	NIL	NIL	1.5 MT	Collection, generation, incineration, disposal, treatment, storage, transportation	To m/s BEIL for incineration
	Contaminat ed cotton waste (contaminat ed cotton rags or other cleaning materials)	I	33.2	12 MT	NIL	NIL	12 MT	Collection, generation, disposal, treatment, storage, transportation	To M/s. BEIL for land filling/incine ration
11	Waste insulation material (Asbestos)	II	Schd-II B01	20 MT	NIL	3 MT	23 MT	Collection, generation, disposal, storage, treatment, transportation	To M/s. BEIL for land filling

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	Used contaminat ed personal protective equipments (PVC and Plastic	Z	Z46	3 MT	NIL	NIL	3 MT	Collection, generation, disposal, storage, transportation	To M/s. BEII for land filling
13	Waste) Non- recyclable plastic waste Gaskets (empty barrels / containers / liners contaminat ed with hazardous chemicals / wastes)	I	33.1	11 MT	NIL	NIL	11 MT	Collection, decontaminatio n, generation, utilization, disposal, reuse, storage, transportation	To M/s. BEIL for land filling
14	Asbestos (Rope, gland, PPE etc.) (Asbestos)	II	SCH-II B01	04 MT	NIL	NIL	04 MT	Treatment, storage, transportation	To M/s. BEII for land filling
15	Date expired/Off specificatio n product (Date expired and off specificatio n pesticides)	I	29.3	13 MT	NIL	1 MT	14 MT	Collection, generation, incineration, disposal, storage, transportation	To M/s. BEIL for incineration
16	Solid waste from Neutralizati	Ι	35.3	9600 MT	NIL	NIL	9600 MT	Collection, generation, disposal,	To M/s. BEII for land filling

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	on of Spent Acid (chemical sludge from waste water treatment)							treatment, storage, transportation	
17	Aqueous waste (process waste or residue)	I	29.1	1832 MT	NIL	NIL	1832 MT	Collection, generation, incineration, disposal, storage, transportation	To M/s. BEIL for incineration
	Solid/Salt from MEE /Evaporatio n Plant (chemical sludge from wastewater treatment)	I	35.3	39225 MT	NIL	504 MT	39729 MT	Collection, generation, disposal, treatment, storage, transportation	To M/s BEIL for Landfilling
19	Spent catalyst (spent catalysts)	I	29.5	5 MT	NIL	NIL		generation,	To M/s. BEIL for incineration
	Incineration / Furnace Ash (ash from incineration and flue gas cleaning residue)	I	37.2	22 MT	NIL	NIL	22 MT	Collection, generation, disposal, treatment, storage, transportation	To M/s. BEIL for land filling
21	Fly Ash from Coal fired Power plant (fire ash)	Z	Z14 Non Hazard ous	61690 MT	NIL	NIL	61690 MT	Collection, disposal, storage, transportation	To bricks manufactur es /end users /BEIL Ankleshwar

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	1	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	BY-				,				
22	PRODUCTS Sodium Hypochlorit e	II	SCH-II B7	4260	NIL	NIL	4260	Collection, recycling, storage,	Recycle or sale to actua end-users
23	Dilute Sulphuric Acid 78 % (Spent Acids)	Ι	29.6	1860	NIL	NIL	1860	transportation Collection, generation, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
24	Ferro Phosphorus (Ferro Silicate and Alloys)	II	SCH-II B9	540	NIL	NIL	540	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
25	Calcium Silicate (Ferro	II	SCH-II B9	27720	NIL	NIL	27720	Collection, disposal, storage,	Recycle or Unit shall send their

Sr. No.	Name of hazardous waste		CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	Silicate and Alloys)							transportation	Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
26	HCL 30 % (Spent Acids)	I	29.6	26388	NIL	NIL	26388	Collection, generation, disposal, storage, transportation	Recycle or Unit shall send their Hazardous
27	Sodium Sulphate Solution (Metal Hydrogen Sulphates)	II	SCH-II B32	188160	NIL	NIL	188160	Collection, generation, disposal, treatment storage, transportation	Recycle or Unit shall send their Hazardous Waste to only

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
									from CPCB/GPCB under Rule-9
28	Manganese Hydroxide (Manganese)		SCH-II A6	2832	NIL	NIL	2832	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
	Zinc Hydroxide (Oxides and hydroxides except those of hydrogen carbon, silicon, iron, aluminium, titanium, manganese, magnesium, calcium)		SCH-II B32	468	NIL	NIL	468	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
30	Spent H2SO4 Acid (Spent Acids)	I	29.6	18000	NIL	NIL	18000	Collection, generation, disposal, storage, transportation	Recycle or Unit shall send their Hazardous

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year		Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
									whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
31	Nitric Acid (Spent Acids)	I	29.6	1632	NIL	NIL	1632	Collection, generation, disposal, storage, transportation	Recycle or Unit shall send their Hazardous
	Ammonium Sulphate Solution (Ammonia)		SCH-II A10	43200	NIL	NIL	43200	Collection, generation, treatment, storage, transportation	Recycle or Unit shall send their Hazardous

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
33	Ammonium Sulphate Solid (Ammonia)	II	SCH-II A10	9000	NIL	NIL	9000	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
	Magnesium Chloride Solution (Halogen containing compounds which produce acidic vapours on contact with humid air or water e.g. silicon tetrachlorid e, aluminium chloride, titanium tetrachlorid e)		SCH-II B10	24840	NIL	NIL	24840	Collection, disposal, storage, transportation	Recycle or Unit shall send their
35	Ammonium Chloride Solid (Halogen	II	SCH-II B10	15576	NIL	NIL	15576	Collection, generation, disposal, storage,	Recycle or Unit shall send their Hazardous

Sr. No.	Name of hazardous waste		CATEGO RY NO.	Quantity MT/year	1	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	containing compounds which produce acidic vapours on contact with humid air or water e.g. silicon tetrachlorid e, aluminium chloride, titanium tetrachlorid e)							transportation	Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
36			SCH-II B35	61.2	NIL	NIL	61.2	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
37	Ammonium Chloride (NH4CL) (Halogen containing compounds which produce	NLJ	SCH-II B10	3542.88	NIL	NIL	3542.88	Collection, generation, storage, treatment, transportation	Recycle or Unit shall send their Hazardous

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	acidic vapours on contact with humid air or water e.g. silicon tetrachlorid e, aluminium chloride, titanium tetrachlorid								MoU and receptor uni- has permission from CPCB/GPCB under Rule-9
38	e) Ethylene Chloride (Hexachlor oethane)	II	SCH-III B4010	534	NIL	NIL	534	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
	Ammonium Hydroxide 20 % (Oxides and hydroxides except those of hydrogen, carbon, silicon, iron, aluminium, titanium,	II	SCH-II	1401	NIL	NIL	1401	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor uni has permission

Sr. Name of No. hazardou waste		CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
manganese magnesiun calcium)				,				from CPCB/GPCE under Rule-
40 POCL3 (Halogen containing compound which produce acidic vapours or contact with humicair or wate e.g. silicon tetrachlori e, aluminium chloride, titanium tetrachlori e)	g s s d d d	SCH-II B10	4800	NIL	NIL	4800	Collection, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor uni has permission from CPCB/GPCB under Rule-9
41 Spent HCI (Spent Acids)		29.6	2400	865	NIL	3265	Collection, generation, disposal, storage, transportation	Recycle or Unit shall send their Hazardous Waste to onl those with whom unit has made MoU and receptor uni has permission from CPCB/GPCE under Rule-6
42 Sodium Sulphite (Metal	II	SCH-III B23	14400	NIL	NIL	14400	Collection, generation, disposal,	Recycle or Unit shall send their

Sr. No.	Name of hazardous waste		CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
	Hydrogen Sulphates)							treatment, storage, transportation	Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB
43	Ammonia Solution (Ammonia)	II	SCH-II A10	1416	NIL	NIL	1416	Collection, recycling, disposal, treatment, storage, transportation	under Rule-9 Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9
	Succinimide (Trifloxystr obin)	II	SCH-II C15	*	4044	NIL	4044	Collection, recycling, disposal, treatment, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from

Sr. No.	Name of hazardous waste	SC H	CATEGO RY NO.	Quantity MT/year	l	Additional after EXPANSION MT / YR	TOTAL Qty MT/YR	FACILITY	Disposal at
									CPCB/GPCB under Rule-9
45	Sodium Bromide (Trifloxystr obin)	III	SCH-III B2040		3252	NIL	3252	Collection, recycling, disposal, treatment, storage, transportation	Recycle or Unit shall send their Hazardous Waste to only those with whom unit has made MoU and receptor unit has permission from CPCB/GPCB under Rule-9

- 5.3 The authorization is granted to operate a facility as above.
- 5.4 The authorization shall be in force for a period up to 19/11/2024.
- 5.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

6. TERMS AND CONDITIONS OF AUTHORISATION:

- 6.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 6.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 6.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 6.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
 - The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone: (079) 23222425

(079) 23232152

Fax: (079) 23232156

Website: www.gpcb.gov.in

- 6.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 6.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 6.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 6.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
- 6.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 6.12 An application for the renewal of an authorisation shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 6.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 6.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 6.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.

For and on behalf of GUJARAT POLLUTION CONTROL BOARD

SR. ENVIRONMENT ENGINEER

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Barcode ID: 4450503a38 Report No/Sample ID: 5936178725 R			Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission Sample Received Date 15-Apr-19				
Sample Quantity	01	1 Sample Received Date			
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
Packing Detail	**	Analysis Completion Date	20-Apr-19		
r dening betail		Fuel Used	Furnace Oil		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	*	-
2	Stack Diameter	Meter	0.6	-	
3	Stack Temperature	°C	130	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	9.3	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm ³	29.7	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	21.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	Ppm	15.8	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
END OF REPOR	
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Barcode ID: cee52f6d30	Report No/Sar	nple ID: 5936178726	Report Date: 25-Apr-19
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch		
Sample Description	Stack - Flue Gas Emiss	sion (Coal Fired Boiler-II of Pov	werplant - 114 TPH)
Sample Quantity	01	Sample Received Date	15-Apr-19
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19
717 19 17 19 19 19 19 19 19 19 19 19 19 19 19 19	By BEIE Team	Analysis Completion Date	20-Apr-19
Packing Detail	-	Fuel	Imported Coal

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	**	
2	Stack Diameter	Meter	2.97		-
3	Stack Temperature	°C	146	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.1	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	25.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	30.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	20.5	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters are not covered in NABL scope	
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Sample Collected By

Packing Detail

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20-Apr-19

Imported Coal

Page: 1 of 1

Barcode ID: 74e8380703	Report No/Sa	mple ID: 5936178727	Report Date: 25-Apr-19	
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)		
Address of Customer	The state of the s			
Sample Description	Stack - Flue Gas Emiss			
Sample Quantity	01	Sample Received Date		
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19	

Analysis Completion Date

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75		-
2	Stack Diameter	Meter	3.86		-
3	Stack Temperature	°C	131	IS:11255(Part-3), 2008	**
4	Average Velocity	m/s	8.4	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	38.0	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	50
6	Sulphur Dioxide (SO ₂)	mg/Nm³	37.5	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	600
7	Oxides of Nitrogen (NOx)	mg/Nm³	24.2	IS:11255(Part-7), 2005	300
8	*Mercury	mg/Nm ³	BDL	By EPA	0.03

BDL: Below Detectable Limit

*Paramet	ers are not covered in NABL scope
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Barcode ID: 63beb65ea5	Report N	Report No/Sample ID: 5936178728 R		
Name of Customer	UPL Limited (Unit-5)	lic.		
Address of Customer	Plot No. 750, GIDC, Dist.: Bharuch			
Sample Description	Process Stack - Bag	Filter of Spray Dryer	To also assessed the second	
Sample Quantity	01	Sample Received Date	15-Apr-19	
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19	
Packing Detail	-	Analysis Completion Date	22-Apr-19	
I deking betain				

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	**
2	Stack Diameter	Meter	0.8		44
3	Stack Temperature	°C	55	IS:11255(Part-3), 2008	
4	Velocity	m/s	6.98	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm ³	15.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 1aa9d5cc70	Report No/Sam	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - CS2 In	V Color Color Color			
Sample Quantity	01 Sample Received Date		15-Apr-19		
Sampling Location	CS2 Plant (H-5202)				
Sample Collected By	By BEIL Team	The second secon			
Packing Detail	-	Analysis Completion Date	20-Apr-19		
		Fuel	1444		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		(**)
2	Stack Diameter	Meter	2.5	**	44
3	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part – 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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Barcode ID: 726b97c093	Report No/S	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Causti	Process Stack – Caustic scrubber (plant 2)			
Sample Quantity	01	Sample Received Date			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
	by bein ream	Analysis Completion Date	20-Apr-19		
Packing Detail	201	Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8	***	1.6%
3	*HCI	mg/Nm ³	16.6	USEPA -0050	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

rameters are not covered in NABL scope	
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Barcode ID: 1ed5fb2f30	Report No/Sample ID: 5936178733		Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Comn	Process Stack - Common Scrubber (Plant 1)-Liquid			
Sample Quantity	01	Sample Received Date			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
Packing Detail	Dy DEIL TOURS	Analysis Completion Date	20-Apr-19		
Packing Detail		Fuel	*		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	**	
2	Stack Diameter	Meter	0.8		*
2	*HCl	mg/Nm ³	14.8	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 94f22d47a8	Report No	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Cau				
Sample Quantity	O1 Sample Received Date		15-Apr-19 IS 11255		
Sampling Location	PCl ₃ Plant	PCl ₃ Plant Sampling Procedure			
Sample Collected By	By BEIL Team				
Packing Detail		Analysis Completion Date	20-Apr-19		
racking Detail		Fuel	*		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	94	
2	Stack Diameter	Meter	0.2	**	- AM
3	Stack Temperature	°C.	38	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	9.2	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*CI2	mg/Nm³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 20b35df439	Report No/Samp	ole ID: 5936178737	Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
Packing Detail	-	Analysis Completion Date			
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.15	+	
3	Stack Temperature	°C	37	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	11.0	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: e3681444f7	Report No/San	Report No/Sample ID: 5936178738			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - HCl furn	ace Section of 56 & 100 TPI	15-Apr-19		
Sample Quantity	01	Control Date			
Sampling Location	Caustic Chlorine Plant	Caustic Chlorine Plant Sampling Procedure			
Sample Collected By	By BEIL Team	W - W - W - W - W - W - W - W - W - W -			
Packing Detail		Analysis Completion Date	18-Apr-19		
Tacking Detail		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.2		CHE .
3	Stack Temperature	°C	32	IS:11255(Part-3), 2008	~ (40)
Δ	*HCl	mg/Nm ³	11.8	USEPA 0050	20
5	*CI2	mg/Nm³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameter	s are not covered in NABL scope
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Barcode ID: cf349d7979	Report No/San	nple ID: 5936178741	Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attac	hed to D-14 Reactor & Prec	15-Apr-19		
Sample Quantity	01	Cample Paceived Date			
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255		
- 1 0 U 1 Dec	By BEIL Team	Analysis Start Date	16-Apr-19		
Sample Collected By	By DEIL TEATH	Analysis Completion Date	20-Apr-19		
Packing Detail		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.8		-
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	56.3	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 77eb6bb176	Report No/S	ample ID: 5936178742	Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to Pr	ocess Scrubber (Water & Alkali S	Scrubber)		
Sample Quantity	01	C In Proceived Date			
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
Packing Detail	-	Analysis Completion Date	18-Apr-19		
rueiming permi		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	*HCI	mg/Nm ³	11.7	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: af6d26aaed	Report N	lo/Sample ID: 5936178743	Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber		T		
Sample Quantity	01	Sample Received Date	15-Apr-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
	By BEIL Team	Analysis Start Date	16-Apr-19		
Sample Collected By		Analysis Completion Date	20-Apr-19		
Packing Detail		Fuel	4		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	, with	24
1	Stack neight			IS: 11255 (Part - 1), 1985	175
2	*NH ₃	mg/Nm³	17.9	(Reaffirmed 1999)	1,0

BDL: Below Detectable Limit

Parameters are not covered in NABL scope		
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Barcode ID: 32e6cd7f6c	Report No/	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (The state short words to			
Sample Quantity	01	Sample Received Date	15-Apr-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By			16-Apr-19		
Packing Detail		Analysis Completion Date	20-Apr-19		
Tacking Decan		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	60.2	IS: 11255 (Part - 4)	180
Δ	Oxides of Nitrogen (NOx)	ppm	14.5	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 10042637ce	Report No/S	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	HCL Scrubber		T45 4 10		
Sample Quantity	01	Sample Received Date	15-Apr-19		
Sampling Location	TEP Plant	Sampling Procedure	IS 11255 16-Apr-19		
Sample Collected By	By BEIL Team	1 101 1 10110			
		Analysis Completion Date	20-Apr-19		
Packing Detail		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
1		°C	37	IS:11255(Part-3), 2008	-
2	Stack Temperature	-			20
3	*HCI	mg/Nm ³	7.4	USEPA 0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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Barcode ID: e04ce0394a	Report No.	Report Date: 25-Apr-19						
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)						
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch							
Sample Description	TEP Scrubber		Tar A = 40					
Sample Quantity	01	Sample Received Date	15-Apr-19					
Sampling Location	TEP Plant	Sampling Procedure	IS 11255					
	By BEIL Team							
Sample Collected By	By BLIL Team	Analysis Completion Date	20-Apr-19					
Packing Detail		Fuel	•					

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Temperature	°C	36	IS:11255(Part-3), 2008	126
2	SO2	mg/Nm³	BDL	IS: 11255 (Part - 4)	40
3	*NH3	mg/Nm³	16.0	IS: 11255 (Part - 4)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 828023eec9 Report No/Sample ID: 5936178750			Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Plant (PCL3 Scru	bber)			
Sample Quantity	01	Sample Received Date	15-Apr-19		
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Apr-19		
Packing Detail		Analysis Completion Date	20-Apr-19		
0		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.25	-	-
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 3b3cbeb53c	Report No/Sa	mple ID: 5936178751	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	DM water Scrubber	Tue de la companya della companya della companya de la companya della companya de				
Sample Quantity	01	Sample Received Date	15-Apr-19			
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255			
	By BEIL Team	Analysis Start Date	16-Apr-19			
Sample Collected By	By BLIL I Calli	Analysis Completion Date	e 20-Apr-19			
Packing Detail	-	Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
	*1100	mg/Nm³	5.3	By Photovac	20
1	*VOC		Printed Barrier	USEPA -0050	20
2	*HCI	mg/Nm ³	BDL	USEFA 0030	7.5

BDL: Below Detectable Limit

*Parameters a	re not covered in NABL scope
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Barcode ID: be97126536 Report No/Sample ID: 5936178629			Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Description Stack - Flue Gas Emission					
Sample Quantity	01	Sample Received Date	04-Apr-19			
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19			
Packing Detail		Analysis Completion Date	11-Apr-19			
racking betail		Fuel Used	Natural Gas			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	**	1
2	Stack Diameter	Meter	0.6		**
3	Stack Temperature	°C	115	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.1	IS: 11255 (Part-3), 2008	
5	*Particulate Matter	mg/Nm³	9.7	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	*Sulphur Dioxide (SO ₂)	ppm	7.5	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	*Oxides of Nitrogen (NOx)	Ppm	13.3	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are in NABL scope	
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Barcode ID: b9c9e54f4b Report No/Sample ID: 5936178630 Report Date: 13-Apr-19

	nepore 110/3011/pic 15: 33301/0030		Meport Date. 13-Apr-13			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	mple Description Stack - Flue Gas Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)					
Sample Quantity	01 Sample Received Date 04-Apr-19					
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19			
Packing Detail	=	Analysis Completion Date	11-Apr-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75		22
2	Stack Diameter	Meter	2.97		
3	Stack Temperature	°C	139	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	9.1	IS:11255(Part-3), 2008	
5	*Particulate Matter	mg/Nm³	19.1	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	*Sulphur Dioxide (SO ₂)	ppm	24.6	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	*Oxides of Nitrogen (NOx)	ppm	19.3	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

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Barcode ID: 487493ffc8	Report No/Sa	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jh. Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emiss				
Sample Quantity	01	Sample Received Date	04-Apr-19		
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail		Analysis Completion Dat	e 12-Apr-19		
racking Detail		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100	**	-
2	Stack Diameter	Meter	3.86		**.
3	Stack Temperature	°C	147	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.3	IS:11255(Part-3), 2008	
5	*Particulate Matter	mg/Nm³	38.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	*Sulphur Dioxide (SO ₂)	ppm	32.5	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	*Oxides of Nitrogen (NOx)	ppm	22.9	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are in NABL scope		
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Barcode ID: 0f4824a53c	Report No	/Sample ID: 5936178632	Report Date: 13-Apr-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch				
Sample Description	Process Stack - Bag Filter of Spray Dryer				
Sample Quantity	01	Sample Received Date	04-Apr-19		
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail	-	Analysis Completion Date	08-Apr-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	••	-
2	Stack Diameter	Meter	0.8	-	-
3	Stack Temperature	°C.	64	IS:11255(Part-3), 2008	-
4	Velocity	m/s	7.3	IS: 11255 (Part-3), 2008	-
5	*Particulate Matter	mg/Nm³	16.1	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

*Parameters are in NABL scope

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Barcode ID: badd20a91	Report No/Sample ID: 5936178634 Report Date: 13-				
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - CS2 In	Process Stack – CS2 Incinerator			
Sample Quantity	01	1 Sample Received Date			
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail	-	Analysis Completion Date	09-Apr-19		
		Fuel	***		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5		1969
3	*Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part – 4)	5

BDL: Below Detectable Limit

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Barcode ID: 5bdc76e841	Report No	Report Date: 13-Apr-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - Cau	Process Stack – Caustic Scrubber of Distillation		
Sample Quantity	01	01 Sample Received Date		
Sampling Location	PCl ₃ Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19	
Packing Detail		Analysis Completion Date	09-Apr-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		44
2	Stack Diameter	Meter	0.2	-	-
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	HCI	mg/Nm ³	6.8	USEPA -0050	20
5	PCI3	mg/Nm³	BDL	USEPA	9
6	CI2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are in NABL scope	
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Barcode ID: 516e6b15f4	Report No/	Sample ID: 5936178636	Report Date: 13-Apr-19	
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack – Caustic scrubber (plant 2)			
Sample Quantity	01	Sample Received Date	04-Apr-19	
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19	
Packing Detail	-	Analysis Completion Date	09-Apr-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.8	(##)	
3	HCI	mg/Nm ³	5.1	USEPA -0050	20
4	NH ₃	mg/Nm³	19.5	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are in NABL scope		
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Barcode ID: ea7t2t79b0	Report No	Report Date: 13-Apr-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - Common Scrubber (Plant 1)-Liquid			
Sample Quantity	01	Sample Received Date		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19	
Packing Detail	-	Analysis Completion Date	09-Apr-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	-	
2	Stack Diameter	Meter	0.8		
3	HCI	mg/Nm³	7.9	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are in NABL scope	
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Barcode ID: f54182c1c9	Report No/Sai	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - HCl furn	04-Apr-19			
Sample Quantity	01	C L Deseived Date			
Sampling Location	Caustic Chlorine Plant	c Chlorine Plant Sampling Procedure			
Sample Collected By	By BEIL Team				
Packing Detail		Analysis Completion Date	09-Apr-19		
I deking betan		Fuel	+		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.2	-	
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	-
Δ	HCI	mg/Nm³	8.4	USEPA 0050	20
5	CI2	mg/Nm³	4.6	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are	e in NABL scope
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Barcode ID: 0923e3e33	Report No/Sam	Report Date: 13-Apr-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - De-chlorination Section of 56 & 100 TPD					
Sample Quantity	01	Sample Received Date	04-Apr-19			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19			
Packing Detail		Analysis Completion Date	09-Apr-19			
		Fuel	*			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.15	-	-
3	Stack Temperature	°C,	34	IS:11255(Part-3), 2008	· ·
4	HCI	mg/Nm³	4.9	USEPA 0050	20
5	Cl2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are in NABL scope		
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Barcode ID: 09d8567605	Report No/Sample ID: 5936178644		Report Date: 13-Apr-19		
Name of Customer	UPL Limited (Unit-5		Report Date. 13-Apr-19		
Address of Customer	Plot No. 750, GIDC. Dist.: Bharuch				
Sample Description	DM water Scrubber / Catalytic Convertor				
Sample Quantity	01	Sample Received Date	05-Apr-19		
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	A STATE OF THE STA		
Packing Detail		Analysis Completion Date	06-Apr-19 08-Apr-19		
		Fuel	 00-Whi-13		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	VOC	mg/Nm ³	5.3	By Photovac	The second second
2	HCI		12000	The state of the s	20
DI. D-I	Ow Detectable Limit	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are in NABL scope

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Barcode ID: d29026c550	Report No/Sa	Report Date: 13-Apr-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhag Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attac	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor				
Sample Quantity	01	Sample Received Date	05-Apr-19			
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19			
Packing Detail	-	Analysis Completion Date	08-Apr-19			
		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8	,	
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5
4	Carbon Di-Sulphide (CS ₂)	mg/Nm ³	25.9	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are in NABL scope	
END C	OF REPORT
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Barcode ID: 621ad39d5e	Report No	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (UPDT Plant)				
Sample Quantity	01	Sample Received Date	05-Apr-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail		Analysis Completion Date	08-Apr-19		

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	H-1	
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	Carbon Di-Sulphide (CS ₂)	mg/Nm ³	38.6	IS: 11255 (Part - 4)	180
Δ	*Oxides of Nitrogen (NOx)	ppm	8.6	IS:11255(Part-7), 2005	25
5	Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Parameters

are in NABL scope	
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Barcode ID: f439be1450	Report N	o/Sample ID: 5936178647	Report Date: 13-Apr-19	
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC J Dist.: Bharuch			
Sample Description	Water Scrubber	4		
Sample Quantity	01	Sample Received Date	05-Apr-19	
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19	
Packing Detail		Analysis Completion Date	08-Apr-19	
Lacking becan		Fuel	-	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter		<u> </u>	-
3	NH ₃	mg/Nm³	67.5	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

*Parameters ar	in NABL scope		
		ND OF REPORT	
		For Bharuch Enviro Infrastructure I	Ltd.

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Barcode ID: f27d34a01b	Report No/S	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC JI Dist.: Bharuch	nagadia,			
Sample Description	TEP Plant (PCL3 Scrubber)				
Sample Quantity	Quantity 01 Sample Received Date		05-Apr-19		
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Apr-19		
Packing Detail		Analysis Completion Date	08-Apr-19		
		Fuel	1 46 0		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	100	42
2	Stack Diameter	Meter	0.25		
3	PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters a	re in NABL scope		
		END OF REPORT	

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Barcode ID: f2b7fcca91	Report No	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	HCL Scrubber				
Sample Quantity	01	Sample Received Date			
Sampling Location	TEP Plant	TEP Plant Sampling Procedure			
Sample Collected By	By BEIL Team	/ BEIL Team Analysis Start Date			
Packing Detail		Analysis Completion Date	08-Apr-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
3	HCI	mg/Nm ³	8.9	USEPA 0050	20

BDL: Below Detectable Limit

*Parameters are in NABL scope

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Barcode ID: 5cf11379ea	Report No	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Scrubber				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	TEP Plant	TEP Plant Sampling Procedure			
Sample Collected By	By BEIL Team	Analysis Start Date	06-Apr-19		
Packing Detail	-	Analysis Completion Date	11-Apr-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
3	SO2	mg/Nm ³	BDL	IS: 11255 (Part - 4)	40
4	NH3	mg/Nm ³	21.9	IS: 11255 (Part - 4)	175

BDL: Below Detectable Limit

*Parameters are in NABL scope
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UPL Limited /Unit	Report Date:	Page: 1 of 1 13-Apr-19	
Plot No. 750, GIDO	Jhagadia,		
		The state of the s	
	Sample Received Date	05-Apr-19	
	Sampling Procedure		
By BEIL Team	Analysis Start Date	T Jane 20 Jan	
-	Analysis Completion Date	The state of the s	
	Fuel Fuel	10-Ape-19	
	UPL Limited (Unit-	UPL Limited (Unit-5) Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Scrubber O1 Sample Received Date TEP Plant Sampling Procedure By BEIL Team Analysis Start Date Analysis Completion Date	UPL Limited (Unit-5) Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Scrubber 01 Sample Received Date 05-Apr-19 TEP Plant Sampling Procedure IS 11255 By BEIL Team Analysis Start Date 06-Apr-19 Analysis Completion Date 10-Ape-19

ir. No.	Parameters	Unit	Result	Method Ref.	Permissible
1	Stack Height	NA-A-		Wethou Ref.	Limit
2	Stack Temperature	Meter	30		- Innic
3	SO2	°C	34	IS:11255(Part-3), 2008	7-
4	NH3	mg/Nm ³	BDL	IS: 11255 (Part - 4)	-
N. Pal-		mg/Nm³		IS: 11255 (Part - 4)	40
Dr. Beig	ow Detectable Limit			(1011-4)	175

*Parameters are in NABL scope	
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Barcode ID: eed7bd6a6f	Report No/Sample ID: 5936178654		Report Date: 13-Apr-19		
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC J Dist.: Bharuch	hagadia,			
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01 Sample Received Date		05-Apr-19		
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Apr-19		
Packing Detail	Analysis Completion Date		10-Apr-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	+-	
2	Stack Diameter	Meter	0.15		-
3	HCI	mg/Nm ³	5.9	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are in NABL scope

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Barcode ID: 7df3f282d5	Report No/Sai	mple ID: 5936178883	Page: 1 of 1 Report Date: 09-May-19
Name of Customer	UPL Limited (Unit-5)	Report Bate: 03-Way-13	
Address of Customer	Plot No. 750, GIDC Jha	agadia,	
Sample Description	Stack - Flue Gas Emiss	sion (Coal Fired Boiler-II of Po	Wormlant 444 TDU
Sample Quantity	01	Sample Received Date	01-May-19
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	CONTROL AND ADDRESS OF THE PARTY OF THE PART
Packing Detail		Analysis Completion Date	02-May-19 05-May-19
		Fuel	Imported Coal

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75		
2	Stack Diameter	Meter	2.97	W.	-
3	Stack Temperature	°C	143	IS:11255(Part-3), 2008	***
4	Average Velocity	m/s	9.1	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	28.3	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	23.8	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	16.9	IS:11255(Part-7), 2005	50

Below Detectable Limit

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Barcode ID: 61a340125a	Report No/Sa	Report Date: 09-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch	agadia,			
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	01-May-19			
Sampling Location	CFBC Boiler Stack	Sample Received Date Sampling Procedure	IS 11255		
Cample Collected By	By BEIL Team	Analysis Start Date	02-May-19		
Packing Detail	**	Analysis Completion Date	05-May-19		
ALDIU .		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		
2	Stack Diameter	Meter	3.86		
3	Stack Temperature	°C	147	IS:11255(Part-3), 2008	22
4	Average Velocity	m/s	8.2	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	32.7	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	28.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	26.6	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not co	vered in NABL scope
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Barcode ID: 81feccaf25	Report No	/Sample ID: 5936178885	Page: 1 of 1 Report Date: 09-May-19		
Name of Customer	UPL Limited (Unit-5	UPI Limited (Unit 5)			
Address of Customer	Plot No. 750, GIDC, Dist.: Bharuch				
Sample Description	Process Stack – Bag Filter of Spray Dryer				
Sample Quantity	01				
Sampling Location	Antracol Plant	Sample Received Date	03-May-19		
S mple Collected By		Sampling Procedure	-IS 11255		
	By BEIL Team	Analysis Start Date	04-May-19		
Packing Detail	Mar	Analysis Completion Date	07-May-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible
1	Stack Height	Meter	30	No.	Limit
2	Stack Diameter	Meter	0.8		-
3	Stack Temperature	°C			
4	Velocity		65	IS:11255(Part-3), 2008	-
5	Particulate Matter	m/s	6.2	IS: 11255 (Part-3), 2008	**
	ow Detectable Limit	mg/Nm³	12.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 5908d0185c	Report No/Sar	mple ID: 5936178887	Page: 1 of 1 Report Date: 09-May -19
Name of Customer	UPL Limited (Unit-5)		*
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	gadia,	
Sample Description	Process Stack - CS2 In	cinerator	
Sample Quantity	01	Sample Received Date	03-May-19
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255
Emple Collected By	By BEIL Team	Analysis Start Date	04-May-19
Packing Detail		Analysis Completion Date	07-May-19
		Fuel	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5	44	-
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 6a08a64966	Report No	Report Date: 09-May-19					
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC. Dist.: Bharuch	Plot No. 750, GIDC Jhagadia,					
Sample Description	Process Stack – Caustic Scrubber of Distillation						
Sample Quantity	01	Sample Received Date	03-May-19				
Sampling Location	PCI ₃ Plant	Sampling Procedure	IS 11255				
્રાણીલ Collected By	By BEIL Team	Analysis Start Date	04-May-19				
Packing Detail		Analysis Completion Date	07-May-19				
47.117		Fuel					

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	- 44	
2	Stack Diameter	Meter	0.2	-	-
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	5.5	USEPA -0050	20
5	*PCI3	mg/Nm³	BDL	USEPA	9
6	*CI2	mg/Nm³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in NABI scope

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Barcode ID: c476915d5f	Report No/	Report No/Sample ID: 5936178889		
Name of Customer	UPL Limited (Unit-5)		Report Date: 09-May-19	
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	ngadia,		
Sample Description	Process Stack - Caust	ic scrubber (plant 2)		
Sample Quantity	01	Sample Received Date	03-May-19	
Sampling Location	Glufosinate Plant	Sampling Procedure	-IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	04-May-19	
Parking Detail	*	Analysis Completion Date	07-May-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8	-	-
3	*HCI	mg/Nm³	6.2	USEPA -0050	20
4	*NH ₃	mg/Nm³	17.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

Parameters are	not covered in	NABL scope	

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te: 09-May-19	

Barcode ID: Ofcc3742ae	Report No.	/Sample ID: 5936178890	Report Date: 09-May-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jha				
Sample Description	Process Stack - Comr	non Scrubber (Plant 1)-Liquid	-		
Sample Quantity	01				
Sampling Location	Glufosinate Plant	Sampling Procedure	03-May-19 IS 11255		
Emple Collected By	By BEIL Team	Analysis Start Date	04-May-19		
Packing Detail	**	Analysis Completion Date	07-May-19		
ALIP - Y		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	*	
2	Stack Diameter	Meter	0.8		
3	*HCI	mg/Nm ³	7.2	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	Parameters are not covered in NABL scope			
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Barcode ID: 2ccc128dc8	Report No/Sample ID: 59361/8893	Report Date: 09-May-19
Name of Customer	UPL Limited (Unit-5)	
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch	
Sample Description	Process Stack - HCl furnace Section of 56 & 100	TPD

Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – HCl furnace Section of 56 & 100 TPD					
Sample Quantity	01 Sample Received Date 03-May-19					
Sampling Location	Caustic Chlorine Plant Sampling Procedure IS 11255					
Sample Collected By	By BEIL Team	By BEIL Team Analysis Start Date 04-May-19				
Packing Detail		Analysis Completion Date	07-May-19			
		Fuel	*			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	44
4	*HCI	mg/Nm ³	12.7	USEPA 0050	20
5	*Cl2	mg/Nm ³	3.6	USEPA 0050	9

BDL: Below Detectable Limit

Parameters are not covered in NABL scope		
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D D DESCRIPTION	Andrew Control of the	rage. I UI I
Barcode ID: 356268084b	Report No/Sample ID: 5936178894	Report Date: 09-May-19

Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01	03-May-19			
Jumpling Location	Caustic Chlorine Plant Sampling Procedure		IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-May-19		
Packing Detail	-	Analysis Completion Date	07-May-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.15		-
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm³	5.9	USEPA 0050 .	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: e8260422a9	Report No/Sample ID: 5936178897 Re		Report Date: 09-May-19			
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	DM water Scrubber	/ Catalytic Convertor				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	02-May-19			
Packing Detail	++	Analysis Completion Date	9 04-May-19			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm ³	2.8	By Photovac	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

Fuel

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 9021784008	Report No/Sa	Report Date: 09-Apr-19	
Name of Customer	UPL Limited (Unit-5)		8
Address of Customer	Plot No. 750, GIDC Jhag Dist.: Bharuch	radia,	
Sample Description	Caustic Scrubber attac	ched to D-14 Reactor & Precip	oitation Reactor
Sample Quantity	01	Sample Received Date	
Sampling Location	Mancozeb/ Antracol Plant		
Sample Collected By	By BEIL Team	Analysis Start Date	04-May-19
Packing Detail	-	Analysis Completion Date	07-May-19
		Fuel	**

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.8		
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm³	31.8	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are	not covered in NABL scope		
	************************	END OF REPORT	

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Barcode ID: 30aa19a3b7	7 Report No.	Report Date: 09-May-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (General Scrubber (UPDT Plant)				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	UPDT Plant	UPDT Plant Sampling Procedure				
Sample Collected By	By BEIL Team	Analysis Start Date	04-May-19			
Packing Detail		Analysis Completion Date	07-May-19			
		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	22.6	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	7.4	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

END OF REPORT ---

For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: cf55e9ea93	Report N	Report Date: 09-May-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber	Water Scrubber				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	UPDT Plant Sampling Procedure		IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	04-May-19			
Packing Detail	*	Analysis Completion Date	07-May-19			
		Fuel	*			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	2	-	
3	*NH ₃	mg/Nm³	48.3	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	175

---- END OF REPORT ----

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 1c2c29132d	Report No/Sample ID: 5936178902		Report Date: 09-May-19
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Ji Dist.: Bharuch	hagadia,	
Sample Description	TEP Plant (PCL3 Scru	ibber)	
Sample Quantity	01	Sample Received Date	03-May-19
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255
	By BEIL Team	Analysis Start Date	04-May-19
Packing Detail	44	Analysis Completion Date	
Harris and the second		Fuel	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.25	*	
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 8ffdf3f177	Report No/	Report Date: 09-May-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	TEP Scrubber	TEP Scrubber				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	TEP Plant Sampling Procedure		IS 11255			
Sumple Collected By	By BEIL Team	Analysis Start Date	04-May-19			
Packing Detail		Analysis Completion Date	07-May-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Temperature	°C	35	IS:11255(Part-3), 2008	4
3	SO2	mg/Nm³	BDL	IS: 11255 (Part - 4)	40
4	*NH3	mg/Nm ³	34.1	IS: 11255 (Part - 4)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 80d2e9208 Name of Customer	UPL Limited (Unit-	- 100 t NO/3ample ID: 5936178906			
Address of Customer	Plot No. 750, GIDC Dist.: Bharuch	Jhagadia,	Report Date: 09-May-19		
Sample Description	Process Scrubber				
Sample Quantity	01				
Sampling Location	TEP Plant	Sample Received Date	⁻ 03-May-19		
Sample Collected By	The state of the s	Sampling Procedure	IS 11255		
Packing Dutail	By BEIL Team	Analysis Start Date	04-May-19		
- G F Ctuli		Analysis Completion Date	07-May-19		
THE STATE OF THE S		Fuel	4. Mdy 15		

Sr. No.	Parameters	Unit	Result	Mathad D. C	Permissible
1	Stack Height			Method Ref.	Limit
2	Stack Temperature	Meter	30	77	Little
3	SO2	°C	35	IS:11255(Part-3), 2008	
4	*NH3	mg/Nm ³	BDL	IS: 11255 (Part - 4)	**
DI- DI		mg/Nm³		IS: 11255 (Part – 4)	40
Dr. Beld	ow Detectable Limit		55.0	15. 11205 (Part - 4)	175

- END OF REPORT -

Parameters are not	covered in NABL scope	-

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Barcode ID: dc8d3cf330	Report No	Report No/Sample ID: 5936178907			
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Ammonia Scrubber				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	TEP Plant	Sampling Procedure	IS 11255		
Collected By	By BEIL Team	Analysis Start Date	04-May-19		
Packing Detail		Analysis Completion Date	07-May-19		
MAN THE RESERVE OF THE PARTY OF		Fuel	+		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.25	22	
3	*NH3	mg/Nm³	66.3	IS: 11255 (Part - 4) "	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 6be3f42a06	Report No/S	Report Date: 09-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01 Sample Received Date		03-May-19		
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	. 04-May-19		
Packing Detail	-	Analysis Completion Date	07-May-19		
		Euol	The state of the s		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.15	**	
3	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 825168d71d	Report No/Samp	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team Analysis Start Date		18-May-19		
Packing Detail	4-	Analysis Completion Date	20-May-19		
		Fuel Used	Natural Gas		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	22	44
2	Stack Diameter	Meter	0.6		-
3	Stack Temperature	°C	112	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.1	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm ³	9.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	6.8	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	Ppm	10.3	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters are not covered in NABL scope	
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Sample Collected By

Packing Detail

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By BEIL Team

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50

Barcode ID: 6b0a970369	Report No/Sar	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emiss	sion (Coal Fired Boiler-II of F	Powerplant - 114 TPH)		
Sample Quantity	01	Sample Received Date	17-May-19		
S. ling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255		

Fuel

Analysis Start Date
Analysis Completion Date

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	44	
2	Stack Diameter	Meter	2.97	and the same of th	
3	Stack Temperature	°C	151	IS:11255(Part-3), 2008	**
4	Average Velocity	m/s	8.9	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	35.2	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	28.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100

17.3

IS:11255(Part-7), 2005

BDL: Below Detectable Limit

Oxides of Nitrogen (NOx)

*Parameters are not covered in NABL scope		
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ppm

For Bharuch Enviro Infrastructure Ltd.

18-May-19

20-May-19

Imported Coal

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Barcode ID: e35b21b76f	Report No/Sa	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01 Sample Received Date		17-May-19		
Sampling Location	CFBC Boiler Stack Sampling Procedure		IS 11255		
S ,ie Ollected By	By BEIL Team Analysis Start Date		18-May-19		
Packing Detail	**	Analysis Completion Date	20-May-19		
		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit	
1	Stack Height	Meter	100			
2	Stack Diameter	Meter	3.86	-		
3	Stack Temperature	°C	138	IS:11255(Part-3), 2008		
4	Average Velocity	m/s	8.1	IS:11255(Part-3), 2008		
5	Particulate Matter	mg/Nm ³	42.3	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150	
6	Sulphur Dioxide (SO₂)	ppm	29.1	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100	
7	Oxides of Nitrogen (NOx)	ppm	22.7	IS:11255(Part-7), 2005	50	

BDL: Below Detectable Limit

*Paramete	ers are	not	covered	in	NABL	scope
I di di licte	cio aic	HOL	COVELEG	111	INADL	SCUDE

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For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 764c897b5e	Report N	Report Date: 23-May-19		
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC, Dist.: Bharuch	Jhagadia		
Sample Description	Process Stack - Bag	Filter of Spray Dryer		
Sample Quantity	01	Sample Received Date	17-May-19	
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	18-May-19	
Facking Detail		Analysis Completion Date	20-May-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	èn	-
2	Stack Diameter	Meter	0.8	***	
3	Stack Temperature	°C	67	IS:11255(Part-3), 2008	-
4	Velocity	m/s	6.8	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	15.9	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Report No/Sample ID: 5936179011		Report Date: 23-May -19	
UPL Limited (Unit-5)	UPL Limited (Unit-5)		
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Process Stack - CS2 In			
01	Sample Received Date	17-May-19	
CS2 Plant (H-5202)	Sampling Procedure	IS 11255	
By BEIL Team	Analysis Start Date	18-May-19	
	Analysis Completion Date	e 20-May-19	
	Fuel	**	
	UPL Limited (Unit-5) Plot No. 750, GIDC Jha Dist.: Bharuch Process Stack – CS2 In 01 CS2 Plant (H-5202) By BEIL Team	UPL Limited (Unit-5) Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Stack – CS2 Incinerator O1 Sample Received Date CS2 Plant (H-5202) Sampling Procedure By BEIL Team Analysis Start Date Analysis Completion Date	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45	++	**
2	Stack Diameter	Meter	2.5		-
3	Hydrogen Sulphide (H₂S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

-- END OF REPORT --

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Page: 1 of 1

Barcode ID: c88aa76cad	Report No/S	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – Caustic Scrubber of Distillation					
Sample Quantity	01	Sample Received Date	17-May-19			
Sampling Location	PCl₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	18-May-19			
Packing Detail		Analysis Completion Date	e 20-May-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	44
4	*HCI	mg/Nm ³	6.3	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*CI2	mg/Nm ³	BDL	IS 11255	9

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BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: f5ce6df06f	Report No/Sar	Report No/Sample ID: 5936179013		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - Caust	ic scrubber (plant 2)		
Sample Quantity	01	Sample Received Date	17-May-19	
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	18-May-19	
Packing Detail		Analysis Completion Date	20-May-19	
OLINE THE P		Fuel	+	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8	-	
3	*HCI	mg/Nm ³	4.9	USEPA -0050	20
4	*NH ₃	mg/Nm³	14.2	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: a779420fbe	Report No/	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	agadia,			
Sample Description	Process Stack – Common Scrubber (Plant 1)-Liquid				
Sample Quantity	01	Sample Received Date	17-May-19		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	18-May-19		
Pucking Detail		Analysis Completion Date	20-May-19		
		Fuel	(44)		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	ue .	-
2	Stack Diameter	Meter	0.8	-	
3	*HCI	mg/Nm ³	8.4	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

eters are not covered in NABL scope		
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Barcode ID: 1ad87fc564	Report No/Sample ID: 5936179017 Re		Report Date: 23-May-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhaga Dist.: Bharuch	ndia,			
Sample Description	Process Stack – HCl furnace Section of 56 & 100 TPD				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	18-May-19		
Packing Detail	24	Analysis Completion Date	20-May-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	4-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	37	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	10.8	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 9465700055	Report No/Samp	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – De-chlorination Section of 56 & 100 TPD					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Caustic Chlorine Plant Sampling Procedure		IS 11255			
Sample Collected By	By BEIL Team Analysis Start Date		18-May-19			
Packing Detail	(44)	Analysis Completion Date	20-May-19			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		***
2	Stack Diameter	Meter	0.15	-	
3	Stack Temperature	°C	36	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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Barcode ID: 611aaae297	Report No/Sa	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	DM water Scrubber / Catalytic Convertor					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	By BEIL Team Analysis Start Date				
Packing Detail		Analysis Completion Date	21-May-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm ³	3.1	By Photovac	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 73c34ddfe8	Report No/Sar	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-May-19			
Packing Detail	**	Analysis Completion Date	21-May-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.8	*	
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part – 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	25.4	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
*************************	END OF REPORT	***************************************

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Barcode ID: de811e58f6	Report No.	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (UPDT Plant)				
Sample Quantity	01	Sample Received Date	18-May-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	19-May-19		
Packing Detail	-	Analysis Completion Date	21-May-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	4-
2	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	5.9	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Paramete	ers are not covered in NABL scope
Taraniece	15 die not dote led in this 2 stape
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Barcode ID: cf55e9ea93	Report N	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Water Scrubber	Water Scrubber				
Sample Quantity	01	Sample Received Date				
Sampling Location	UPDT Plant	PDT Plant Sampling Procedure				
Sample collected By	By BEIL Team	Analysis Start Date	19-May-19			
Packing Detail	-	Analysis Completion Date	21-May-19			
		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	9		45
3	*NH ₃	mg/Nm³	67.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

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BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 7bcb77b803	Report No/Sa	Report Date: 23-May-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Ji Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	TEP Plant (PCL3 Scru	TEP Plant (PCL3 Scrubber)			
Sample Quantity	01	Sample Received Date			
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	19-May-19		
Packing Detail		Analysis Completion Date	21-May-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.25		**
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: f07a9160ec	Report No/S	Report Date: 09-May-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack attached to Pi	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	TPPA Plant	TPPA Plant Sampling Procedure				
San pie 7 Hected By	By BEIL Team	By BEIL Team Analysis Start Date				
Packing Detail		Analysis Completion Date	21-May-19			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.15	**	
3	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 163b8e164	6 Report N	lo/Sample ID: 5936179034	Report Date: 24-Mar-19			
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC. Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Cau	Process Stack – Caustic Scrubber of Distillation column				
Sample Quantity	01	Sample Received Date	18-Mar-19			
Sampling Location	POCl ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-Mar-19			
Packing Detail	44	Analysis Completion Date	22-Mar-19			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	-
4	HCI	mg/Nm³	5.8	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are in NARI scope

, arameters a	Te iii iiiibe scope		
		END OF REPORT	

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Barcode ID: d6b8dccaab	Report No/S	Report Date: 23-May-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – Wet Spray Dryer					
Sample Quantity	01	1 Sample Received Date				
Sampling Location	Mancozeb Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	BEIL Team Analysis Start Date				
Packing Detail		Analysis Completion Date	21-May-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	ate.	25
2	Stack Diameter	Meter	1.8		
3	Stack Temperature	°C	61	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	9,4	IS:11255(Part-3), 2008	
5	*Particulate Matter	mg/Nm³	16.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

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Barcode ID: 3ff2e1f115	Report No/Samp	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission		1 - 2 - 2 -		
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team				
	D) DEIG (COM)	Analysis Completion Date	10-Jun-18		
Packing Detail		Fuel Used	Natural Gas		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	44	
2	Stack Diameter	Meter	0.6	-	***
3	Stack Temperature	°C	111	IS:11255(Part-3), 2008	***
4	Average Velocity	m/s	7.9	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm ³	14.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	10.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	7.7	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: f4fe0446d5	Report No/Sample ID: 5936179113 Re		Report Date: 10-Jun-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emiss	ion (Coal Fired Boiler-II of Po	werplant - 114 TPH)		
Sample Quantity	01	1 2 Company of the Co			
Sampling Location	AFBC Boiler Stack	FBC Boiler Stack Sampling Procedure			
Sample Collected By	By BEIL Team	y BEIL Team Analysis Start Date			
Packing Detail		Analysis Completion Date	10-Jun-18		
An open many and Grant and Miles		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75		
2	Stack Diameter	Meter	2.97	-	-20
3	Stack Temperature	°C	145	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.62	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	32.0	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO₂)	ppm	17.5	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	13.3	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 9f63773832	Report No/Sai	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emiss	sion			
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255		
	By BEIL Team	Analysis Start Date	05-Jun-18		
Sample Collected By	By BEIL Team	Analysis Completion Date	10-Jun-18		
Packing Detail	***	Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		+
2	Stack Diameter	Meter	3.86		**
3	Stack Temperature	°C	150	IS:11255(Part-3), 2008	-
1	Average Velocity	m/s	8.6	IS:11255(Part-3), 2008	355
5	Particulate Matter	mg/Nm³	38.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	33.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	21.5	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters are not covered in NABL scope		
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Barcode ID: e4447681c8	Report No	/Sample ID: 5936179115	Report Date: 10-Jun-19		
Name of Customer	UPL Limited (Unit-5)	1			
Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch				
Sample Description	Process Stack - Bag	Filter of Spray Dryer	1		
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18		
	by Dele Team	Analysis Completion Date	10-Jun-18		
Packing Detail		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	44
2	Stack Diameter	Meter	0.8		-
3	Stack Temperature	°C	68	IS:11255(Part-3), 2008	
1	Velocity	m/s	6.5	IS: 11255 (Part-3), 2008	- 64
5	Particulate Matter	mg/Nm³	16.3	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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Barcode ID: ebf16e4000	Report No/	/Sample ID: 5936179116	Report Date: 10-Jun-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Cau	stic Scrubber of Distillation colu	umn		
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	POCI ₃ Plant	Sampling Procedure	IS 11255		
	By BEIL Team	Analysis Start Date	05-Jun-18		
Sample Collected By	By BLIL Team	Analysis Completion Date	05-Jun-18		
Packing Detail		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
7	Stack Diameter	Meter	0.2	++	99
3	Stack Temperature	°C	39	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm³	6.2	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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Barcode ID: f3033c7f3f	Report No/	Report Date: 10-Jun-19				
Name of Customer	UPL Limited (Unit-5					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Cau	ess Stack – Caustic Scrubber of Distillation				
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	PCl ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	-	Analysis Completion Date	05-Jun-18			
r deming becom		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	-
2	Stack Diameter	Meter	0.2	-	
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	7.4	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*CI2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: fa9a6ee12c	Report No/S	Report Date: 10-Jun-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch			
Sample Description	ample Description Process Stack - Caustic scrubber (plant 2)			
Sample Quantity	01	Sample Received Date	04-Jun-18	
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18	
Packing Detail	-	Analysis Completion Date	05-Jun-18	
1 Activity Resign		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	77.	25
2	Stack Diameter	Meter	0.8		***
3	*HCI	mg/Nm ³	11.0	USEPA -0050	20
4	*NH ₃	mg/Nm³	14.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

Parameters are not covered in NABL scope	
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Barcode ID: 5f9d57e8f2	Report No/	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Common Scrubber (Plant 1)-Liquid				
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18		
	Dy DEIE TOUTH	Analysis Completion Date	06-Jun-18		
Packing Detail		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	77	
2	Stack Diameter	Meter	0.8	**	-
3	*HCI	mg/Nm ³	7.2	IS 11255	20
4	*NH ₃	mg/Nm³	5.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not cove	red in NABL scope
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Barcode ID: 4a428fc674	Report No/Sar	Report No/Sample ID: 5936179123 Report Date: 10-Jun-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - HCl furn	ss Stack – HCI furnace Section of 56 & 100 TPD				
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	45	Analysis Completion Date	06-Jun-18			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.2	-	24
3	Stack Temperature	°C	42	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	9.1	USEPA 0050	20
5	*CI2	mg/Nm³	3.6	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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10-Jun-19

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	-
2	Stack Diameter	Meter	0.15	-	
3	Stack Temperature	°C	36	IS:11255(Part-3), 2008	**
4	*HCI	mg/Nm ³	7.0	USEPA 0050	20
5	*Cl2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 75ad51d15	0 Report No/S	Report No/Sample ID: 5936179125 R				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Wet Spray Dryer					
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	Mancozeb Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	4-	Analysis Completion Date	06-Jun-18			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	u.	**
2	Stack Diameter	Meter	1.8		30
3	Stack Temperature	°C	64	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	6.7	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	14.6	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

*Parameters are not co	vered in NABL scope
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Report No/Sam	iple ID: 5936179127	Report Date: 10-Jun-19		
UPL Limited (Unit-5)				
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Process Stack - CS2 In	cinerator			
01	Sample Received Date	03-Jun-18		
CS2 Plant (H-5202)	Sampling Procedure	IS 11255		
By BEIL Team	Analysis Start Date	04-Jun-18		
	Analysis Completion Date	e 04-Jun-18		
	Fuel			
	UPL Limited (Unit-5) Plot No. 750, GIDC Jha Dist.: Bharuch Process Stack – CS2 In 01 CS2 Plant (H-5202) By BEIL Team	UPL Limited (Unit-5) Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Stack — C52 Incinerator O1 Sample Received Date C52 Plant (H-5202) Sampling Procedure By BEIL Team Analysis Start Date — Analysis Completion Date		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45	+	
2	Stack Diameter	Meter	2.5	400	-
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 5670807598	Report No/Sam	ple ID: 5936179127	Report Date: 10-Jun-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - CS2 In		Transaction WE as yearles		
Sample Quantity	01	Sample Received Date	03-Jun-18		
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jun-18		
Packing Detail		Analysis Completion Date	e 04-Jun-18		
racking betail		Fuel	(353		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45	HF	***
2	Stack Diameter	Meter	2.5	-	**
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters	are	not	covered	in	NABL	scope
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Barcode ID: Obb0cb86ac	Report No/Sa	Report Date: 10-Jun-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attac	thed to D-14 Reactor & Precip	04-Jun-18			
Sample Quantity	01	Sample Received Date				
Sampling Location	Mancozeb/ Antracol	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	2	Analysis Completion Date	07-Jun-18			
Facking Detail		Fuel	22			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.8	97	**
3	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part – 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	25.6	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 52b171a321	Report No	Report Date: 10-Jun-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	General Scrubber (UPDT Plant)					
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	-	Analysis Completion Date	10-Jun-18			
The state of the s		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		He
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	34.3	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	6.0	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: f3ae1710a5	Report N	Report No/Sample ID: 5936179130				
Name of Customer	UPL Limited (Unit-5	JPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Water Scrubber					
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail		Analysis Completion Date	05-Jun-18			
1 440 =		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		22
2	Stack Diameter	Meter	-		**
3	*NH ₃	mg/Nm³	15.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

----- END OF REPORT -----

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 2c9d01ec17	Report No/Sar	mple ID: 5936179131 F	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	TEP Plant (PCL3 Scrubber)					
Sample Quantity	01	Sample Received Date	04-Jun-18			
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail		Analysis Completion Date	e 06-Jun-18			
1 down B down		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		**
2	Stack Diameter	Meter	0.25	***	49
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 6801f4beee	Report No	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Scrubber				
Sample Quantity	01	Sample Received Date	04-Jun-18		
Sampling Location	TEP Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	By BFIL Team Analysis Start Date			
Packing Detail		Analysis Completion Date	06-Jun-18		
Turning Passing		Fuel	44		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	46	(min
2	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
3	SO2	mg/Nm³	17.3	IS: 11255 (Part - 4)	40
4	*NH3	mg/Nm³	23.5	IS: 11255 (Part – 4)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 5b95c2b19f	Report No/Sample ID: 5936179137		Report Date: 10-Jun-18			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)					
Sample Quantity	01	Sample Received Date	03-Jun-18			
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jun-18			
	by bell ream	Analysis Completion Date	04-Jun-18			
Packing Detail	/**	Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.15	*	
3	*HCI	mg/Nm³	14.8	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: b798f386e3	Report No/Sa	mple ID: 5936179187	Report Date: 10-Jun-18			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	DM water Scrubber / Catalytic Convertor					
Sample Quantity	01 Sample Received Date		04-Jun-18			
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	05-Jun-18			
Packing Detail	by bell realit	Analysis Completion Dat	e 06-Jun-18			
		Fuel	***			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm³	1.6	By Photovac	20
1				USEPA -0050	20
2	*HCl	mg/Nm ³	BDL	USEPA -0030	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 0b734a7fe3	rcode ID: 0b734a7fe3 Report No/Sample ID: 5936179372		Report Date: 07-Jul-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	Sample Received Date	01-Jul-19		
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19		
Packing Detail		Analysis Completion Date	04-Jul-19		
		Fuel Used	Natural Gas		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	· mw	
2	Stack Diameter	Meter	0.6		**
3	Stack Temperature	°C	118	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	7.8	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	10.3	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	8.5	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	12.8	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID. 321a2430a3	LIDI Limited (Unit E)	
Barcode ID: 521a2436a5	Report No/Sample ID: 5936179373	Report Date: 07-Jul-19

Daicone in astastanaa	report no ou	mipic ibi occorrios.	THE RESIDENCE OF THE PARTY OF T			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack - Flue Gas Emiss	Stack - Flue Gas Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)				
Sample Quantity	01	04 1.410				
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19			
Packing Detail		Analysis Completion Date	04-Jul-19			
		Fuel	Imported Coal			
		1 7 7 7 7				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	***	-
2	Stack Diameter	Meter	2.97	-	-
3	Stack Temperature	°C	139	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.6	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	42.0	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	25.6	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	19.9	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameter	s are not covered in NABL scope
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Barcode ID: 978740bfa2	Report No/Sample ID: 5936179374 Report Date: 07-Jul-1					
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack - Flue Gas Emiss	Stack - Flue Gas Emission				
Sample Quantity	01	Sample Received Date	01-Jul-19			
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19			
Packing Detail	**	Analysis Completion Date	04-Jul-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100	**	-
2	Stack Diameter	Meter	3.86	(Mark	
3	Stack Temperature	°C	147	IS:11255(Part-3), 2008	**
4	Average Velocity	m/s	8.6	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	48.6	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	33.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	25.7	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covere	d in NABL scope	
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Barcode ID: be38606f9f	Report No/Sample ID: 5936179375 Report Date: 07-Jul-19					
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch					
Sample Description	Process Stack - Bag	Process Stack – Bag Filter of Spray Dryer				
Sample Quantity	01	Sample Received Date	01-Jul-19			
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19			
Packing Detail		Analysis Completion Date	04-Jul-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.8	-	
3	Stack Temperature	°C	69	IS:11255(Part-3), 2008	-
4	Velocity	m/s	7.1	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	17.9	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: ba6e744c39	Report No/Sample ID: 5936179376 Report Date: 07-Ju					
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Cau	Process Stack – Caustic Scrubber of Distillation column				
Sample Quantity	01	Sample Received Date	01-Jul-19			
Sampling Location	POCI ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19			
Packing Detail	4-	Analysis Completion Date	04-Jul-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	MATE AND ADDRESS OF THE PARTY O	-
2	Stack Diameter	Meter	0.2	. William	-
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	***
4	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

rameters	are not covered in NABL scope	
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Barcode ID: 037f8f0582	Report No	Report Date: 07-Jul-19		
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Jhagadia,		
Sample Description	Process Stack – Caustic Scrubber of Distillation			
Sample Quantity	01	1 Sample Received Date		
Sampling Location	PCl ₃ Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19	
Packing Detail		Analysis Completion Date	04-Jul-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	An .	
2	Stack Diameter	Meter	0.2	*	
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	6.9	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*CI2	mg/Nm ³	BDL	IS 11255	9

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BDL: Below Detectable Limit

*Parameters	are not	covered	in	NABL	scope		

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Barcode ID: a4fcc6b5df	Report No/	Report Date: 07-Jul-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack – Caustic scrubber (plant 2)			
Sample Quantity	01	Sample Received Date	01-Jul-19	
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19	
Packing Detail		Analysis Completion Date	04-Jul-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.8		-
3	*HCI	mg/Nm ³	8.3	USEPA -0050	20
4	*NH ₃	mg/Nm³	21.9	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 644c52468c	Report No	/Sample ID: 5936179380	Report Date: 07-Jul-19		
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	agadia,			
Sample Description	Process Stack - Comr	rocess Stack – Common Scrubber (Plant 1)-Liquid			
Sample Quantity	01	Sample Received Date	01-Jul-19		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	03-Jul-19		
Packing Detail		Analysis Completion Date	05-Jul-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18		-
2	Stack Diameter	Meter	0.8	44	
3	*HCI	mg/Nm ³	9.4	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL sco	ppe
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Barcode ID: 9d8ef861b8	Report No/Sar	Report Date: 07-Jul-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhaga Dist.: Bharuch	adia,			
Sample Description	Process Stack - HCl furnace Section of 56 & 100 TPD				
Sample Quantity	01	Sample Received Date			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19		
Packing Detail	il u	Analysis Completion Date	06-Jul-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	39	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	12.7	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 5e7483e3c0	Report No/Sample ID: 5936179384		Report Date: 07-Jul-19	
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - De-chlo			
Sample Quantity	01	Sample Received Date	02-Jul-19	
Sampling Location	Caustic Chlorine Plant	austic Chlorine Plant Sampling Procedure		
Sample Collected By	By BEIL Team	v BEIL Team Analysis Start Date		
Packing Detail	Analysis Completion Date		06-Jul-19	
A DESCRIPTION OF THE PROPERTY OF		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	***	-
2	Stack Diameter	Meter	0.15	-	-
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 5513ee33e1	Report No/Sa	Report Date: 07-Jul-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - CS2 Incinerator				
Sample Quantity	01	Sample Received Date	02-Jul-19		
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	EIL Team Analysis Start Date			
Packing Detail		Analysis Completion Date			
		Fuel	/ ***		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		**
2	Stack Diameter	Meter	2.5	-	-
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 6f31b4f166	Report No/Sa	Report Date: 07-Jul-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor				
Sample Quantity	01	Sample Received Date	01-Jul-19		
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19		
Packing Detail		Analysis Completion Date	06-Jul-19		
A ANTONOMIC TO THE STATE OF		Fuel	**		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	-
2	Stack Diameter	Meter	0.8		-
3	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	31.6	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 4aac98984b	Report No	Report Date: 07-Jul-19			
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (UPDT Plant)				
Sample Quantity	01	Sample Received Date	02-Jul-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19		
Packing Detail	_	Analysis Completion Date	06-Jul-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	## T	-
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	BDL	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

----- END OF REPORT -----

For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 02934fd140	Report N	Report Date: 07-Jul-19				
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber					
Sample Quantity	01	Sample Received Date	02-Jul-19 IS 11255			
Sampling Location	UPDT Plant					
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19			
Packing Detail		Analysis Completion Date	06-Jul-19			
racking Detail		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	-	440	
3	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

*Parameters are not	covered in NABL scope	
---------------------	-----------------------	--

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Barcode ID: 8b177fc025	Report No/Sa	Report Date: 07-Jul-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	TEP Plant (PCL3 Scru		T-2 - 3-16 - 5-16	
Sample Quantity	01	Sample Received Date	02-Jul-19	
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19	
Packing Detail	44	Analysis Completion Date	06-Jul-19	
rucking betain		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	Table 1	-
2	Stack Diameter	Meter	0.25		-
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 0525907965	Report N	No/Sample ID: 5936179394	Report Date: 07-Jul-19	
Name of Customer	UPL Limited (Unit-5			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	TEP Scrubber		T = 0 a a a a a a a a a a a a a a a a a a	
Sample Quantity	01	Sample Received Date	02-Jul-19	
Sampling Location	TEP Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19	
Packing Detail	••	Analysis Completion Date	06-Jul-19	
Tacking Desait		Fuel	-	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	200	+
2	Stack Temperature	°C	34	IS:11255(Part-3), 2008	-
3	SO2	mg/Nm ³	13.9	IS: 11255 (Part - 4)	40
4	*NH3	mg/Nm³	BDL	IS: 11255 (Part – 4)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
***************************************	END OF REPORT
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Barcode ID: d379ec1cbd	Report No/S	Report Date: 07-Jul-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to P	Stack attached to Process Scrubber (Water & Alkali Scrubber)			
Sample Quantity	01	Sample Received Date	02-Jul-19		
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19		
Packing Detail		Analysis Completion Date	06-Jul-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.15	22	
3	*HCI	mg/Nm ³	8.2	USEPA -0050	20

BDL: Below Detectable Limit

Parameters	are not	covered	IN NABL	scope		

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Barcode ID: d379ec1cb	Report No/S	Report No/Sample ID: 5936179397				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC J Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	DM water Scrubber	DM water Scrubber / Catalytic Convertor				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jul-19			
Packing Detail		- Analysis Completion Date 06-Jul-19				
127		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm ³	BDL	By Photovac	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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Barcode ID: d369f919f7	Report No/	Report Date: 25-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Scrubber		10 1-2 10		
Sample Quantity	01	Sample Received Date	19-Jun-18		
Sampling Location	TEP Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	20-Jun-18		
		Analysis Completion Date	21-Jun-18		
Packing Detail		Fuel	per la		

Parameters	Unit	Result	Method Ref.	Permissible Limit
Stack Height	Meter	30	-	
- Market State Carlot Market	°C	36	IS:11255(Part-3), 2008	
1 - W1000	77	12.1	IS: 11255 (Part - 4)	40
	0.		IS: 11255 (Part - 4)	175
	Stack Height Stack Temperature SO2	Stack Height Meter Stack Temperature °C SO2 mg/Nm³	Stack Height Meter 30 Stack Temperature °C 36 SO2 mg/Nm³ 12.1	Stack Height Meter 30

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
	END OF REPORT	

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Barcode ID: e0bf0b7b1b	Report No/San	rple ID: 5936179269 Re	port Date: 25-Jun-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Plant (PCL3 Scru	bber)	T 22 (26		
Sample Quantity	01	Sample Received Date	19-Jun-18		
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255		
	By BEIL Team	Analysis Start Date	20-Jun-18		
Sample Collected By	by DEIL Team	Analysis Completion Date	21-Jun-18		
Packing Detail					
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.25		
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	

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Barcode ID: e58c33038e	Report N	Report No/Sample ID: 5936179268			
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber				
Sample Quantity	01	Sample Received Date	19-Jun-18		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	20-Jun-18		
	By DEIL FEGIT	Analysis Completion Date	21-Jun-18		
Packing Detail		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	##	48
2	Stack Diameter	Meter	-	er.	
3	*NH ₃	mg/Nm³	71.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 58d2fd9a91	Report No	o/Sample ID: 5936179267	Page: 1 of 1 Report Date: 25-Jun-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber	UPDT Plant)			
Sample Quantity	01	Sample Received Date	19-Jun-18		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	20-Jun-18		
Packing Detail	-	Analysis Completion Date	21-Jun-18		
		Fuel	**		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm³	16.5	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	7.3	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

Parameters are	not covered in	NABL scope		

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			Page: 1 of 1	
Barcode ID: eda23ce1f7	Report No/Sa	mple ID: 5936179266	Report Date: 25-Jun-19	
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch			
Sample Description	Process Stack – CS2 Incinerator			
Sample Quantity	01	Sample Received Date	19-Jun-18	
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	20-Jun-18	
Packing Detail	-	Analysis Completion Date	21-Jun-18	
		Fuel		
			-A	

r. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5		
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 119ac01f43	Report No/Sam	ple ID: 5936179262	Page: 1 of 1
Name of Customer	UPL Limited (Unit-5)	, , , , , , , , , , , , , , , , , , , ,	Report Date: 25-Jun-19
Address of Customer	Plot No. 750, GIDC Jhag Dist.: Bharuch	adia,	144
Sample Description		rination Section of 56 & 100	700
Sample Quantity	01		
Sampling Location	Caustic Chlorine Plant	Sample Received Date	18-Jun-18
Sample Collected By		Sampling Procedure	IS 11255
Packing Detail	By BEIL Team	Analysis Start Date	19-Jun-18
racking Detail		Analysis Completion Date	20-Jun-18
		Fuel	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible
1	Stack Height	Meter	30		Limit
2	Stack Diameter	Meter	0.15	2	
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm³	BDL	USEPA 0050	
5	*CI2	mg/Nm³	BDL	USEPA 0050	20
DI: Beld	ow Detectable Limit	1118/14111	DUL	USEPA 0050	9

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^{*}Parameters are not covered in NABL scope



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arcode ID: b901d4a4a6 Report No/Sample ID: 5936179261			Report Date: 25-Jun-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – HCl furnace Section of 56 & 100 TPD					
Sample Quantity	01	Sample Received Date	18-Jun-18			
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-18			
Packing Detail		Analysis Completion Date	20-Jun-18			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.2	946	
3	Stack Temperature	°C	39	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	5.7	USEPA 0050	20
5	*CI2	mg/Nm ³	2.6	USEPA 0050	9

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BDL: Below Detectable Limit

Parameters are	not covered	in NABL	scope		

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	Page: 1 of 1
t Date:	25-Jun-19

Barcode ID: 5c507c04c2	Report No	Report Date: 25-Jun-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jh. Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Comr	Process Stack - Common Scrubber (Plant 1)-Liquid				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-18			
Packing Detail	-	Analysis Completion Date	20-Jun-18			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	-	
2	Stack Diameter	Meter	0.8		22
3	*HCI	mg/Nm ³	7.2	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 05e43fda20	Report No/	Report Date: 25-Jun-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Caust	Process Stack – Caustic scrubber (plant 2)				
Sample Quantity	01	Sample Received Date	18-Jun-18			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-18			
Packing Detail	-	Analysis Completion Date	20-Jun-18			
		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	44.0	-
2	Stack Diameter	Meter	0.8		-
3	*HCI	mg/Nm³	7.3	USEPA -0050	20
4	*NH ₃	mg/Nm³	16.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 31797861d7	Report N	Report Date: 25-Jun-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack – Caustic Scrubber of Distillation			
Sample Quantity	01	Sample Received Date	18-Jun-18	
Sampling Location	PCl ₃ Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-18	
Packing Detail		Analysis Completion Date	20-Jun-18	
		Fire		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.2	-	-
3	Stack Temperature	°C	37	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm ³	BDL	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*Cl2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

Parameters are no	ot covered in	NABL scope	

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Barcode ID: bc48dbc68e	Report No/S	Report Date: 25-Jun-18			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-18		
Packing Detail		Analysis Completion Date	20-Jun-18		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.15	-	
3	*HCI	mg/Nm ³	9.2	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 00062d48c	a Report No	/Sample ID: 5936179254	Page: 1 of : Report Date: 25-Jun-19			
Name of Customer	UPL Limited (Unit-5					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Cau	Process Stack – Caustic Scrubber of Distillation column				
Sample Quantity	01	Sample Received Date	18-Jun-19			
Sampling Location	POCl ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-19			
Packing Detail		Analysis Completion Date				
		Fuel	1			

ir. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	ine.	
2	Stack Diameter	Meter	0.2	- 	
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	7.3	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 0578124179	Report No/Sample ID: 5936179253		Report Date: 25-Jun-18		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	DM water Scrubber	DM water Scrubber / Catalytic Convertor			
Sample Quantity	01	Sample Received Date	18-Jun-19		
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	19-Jun-19		
Packing Detail		Analysis Completion Date			
The state of the s		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm ³	0.7	By Photovac	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 9fd98aa5d1	Report No/Sam	Report Date: 25-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	Sample Received Date	18-Jun-19 IS 11255		
Sampling Location	Thermic Fluid Heater	Thermic Fluid Heater Sampling Procedure			
Sample Collected By	By BEIL Team				
Packing Detail		Analysis Completion Date			
Deciding beatter		Fuel Used	Natural Gas		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	4-	
2	Stack Diameter	Meter	0.6		***
3	Stack Temperature	°C	117	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	7.5	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	12.7	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	8.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	12.8	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	e e
	- END OF REPORT
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Barcode ID: c272572b9	a Report No/Sam	Report Date: 24-Jul-19					
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch						
Sample Description	escription Stack - Flue Gas Emission						
Sample Quantity	01	1 Sample Received Date					
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19				
Packing Detail	1	Analysis Completion Date	19-Jul-19				
		Fuel Used	Natural Gas				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33		-
2	Stack Diameter	Meter	0.6	=======================================	J
3	Stack Temperature	°C	127	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	7.7	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	9.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	7.3	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	14.0	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: e1e9883d2d	Report No/Sar	mple ID: 5936179522	Report Date: 24-Jul-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	er Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack - Flue Gas Emiss	s Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)				
Sample Quantity	01	Sample Received Date	16-Jul-19			
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19			
Packing Detail		Analysis Completion Date	19-Jul-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	70	4, -
2	Stack Diameter	Meter	2.97	#0	
3	Stack Temperature	°C	142	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.9	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	46.0	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	29.7	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	21.2	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters a	re not covered in NABL scope	0.0
	END OF REPORT	

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Barcode ID: 68b0361b46	Report Date: 24-Jul-19					
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	ress of Customer Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description						
Sample Quantity	01	Sample Received Date	16-Jul-19			
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method			
Sample Collected By	By BEIL Team	Analysis Start Date	16-Jul-19			
Packing Detail	-	Analysis Completion Date	16-Jul-19			
3 20 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Fuel	-			

65.5	Parameters	Unit	Re	sult	Method Ref.
Sr. No.			Day	Night	
1	Primary Brine	dB(A)	68	64	By Sound Level Meter
2	Secondary Brine	dB(A)	67	58	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	68	62	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70	65	By Sound Level Meter
5	Power Plant	dB(A)	71	65	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	68	64	By Sound Level Meter
7	Nr. Main Gate	dB(A)	65	62	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	72	68	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	69	65	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	66	63	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not cove	arameters are not covered in NABL scope					
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Barcode ID: c272572b9	a Report No/Sam	Report Date: 24-Jul-19					
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch						
Sample Description	escription Stack - Flue Gas Emission						
Sample Quantity	01	1 Sample Received Date					
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19				
Packing Detail	1	Analysis Completion Date	19-Jul-19				
		Fuel Used	Natural Gas				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33		
2	Stack Diameter	Meter	0.6	=======================================	J
3	Stack Temperature	°C	127	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	7.7	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	9.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	7.3	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	14.0	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: e1e9883d2c	Report No/Sar	mple ID: 5936179522	Report Date: 24-Jul-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)				
Sample Quantity	01	Sample Received Date	16-Jul-19		
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail	-	Analysis Completion Date	19-Jul-19		
		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	70	4, -
2	Stack Diameter	Meter	2.97	#0	
3	Stack Temperature	°C	142	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.9	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	46.0	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	29.7	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	21.2	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameter	rs are not covered in NABL scope	
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Barcode ID: da4b33e5c8	Report No/Sa	Report Date: 24-Jul-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail		Analysis Completion Date	19-Jul-19		
		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		
2	Stack Diameter	Meter	3.86	NAME OF THE PARTY	, , , , ,
3	Stack Temperature	°C	140	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.9	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	40.9	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	27.3	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	23.8	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Pa	arameters are not covered in NABL scope
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Barcode ID: 6cb61a616c	Report No.	Report Date: 24-Jul-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch				
Sample Description	Process Stack - Bag Filter of Spray Dryer				
Sample Quantity	01	10 10 100			
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail		Analysis Completion Date	19-Jul-19		
		Eugl	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		1 100
2	Stack Diameter	Meter	0.8		
3	Stack Temperature	°C	73	IS:11255(Part-3), 2008	
4	Velocity	m/s	7.2	IS: 11255 (Part-3), 2008	-
5	Particulate Matter	mg/Nm³	14.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 70a821fbb9	Report N	Report Date: 24-Jul-19			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Caustic Scrubber of Distillation column				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	POCl ₃ Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail	44	Analysis Completion Date	19-Jul-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	700
2	Stack Diameter	Meter	0.2	-	1 4 - 1-1
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCl	mg/Nm³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters	are not covered in NABL scope
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Barcode ID: d0c014701	a Report N	Report No/Sample ID:5936179527			
Name of Customer	UPL Limited (Unit-5) [
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Caustic Scrubber of Distillation				
Sample Quantity	01	Sample Received Date	16-Jul-19		
Sampling Location	PCI ₃ Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail		Analysis Completion Date	19-Jul-19		
		Fuel	47		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	2	11
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	13.8	USEPA -0050	20
5	*PCI3	mg/Nm³	BDL	USEPA	9
6	*CI2	mg/Nm³	BDL	IS 11255	9

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BDL: Below Detectable Limit

*Parameters are not covered i	n NABL scope	

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Barcode ID: b6b59630a6	Report No/	Sample ID: 5936179528	Report Date: 24-Jul-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Caustic scrubber (plant 2)				
Sample Quantity	01	Sample Received Date	16-Jul-19		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19		
Packing Detail	-	Analysis Completion Date	19-Jul-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	77	* 44
2	Stack Diameter	Meter	0.8	S.A.	-
3	*HCI	mg/Nm ³	6.2	USEPA -0050	20
4	*NH₃	mg/Nm³	27.5	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: b9b63e4307	Report No	Report Date: 24-Jul-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Common Scrubber (Plant 1)-Liquid					
Sample Quantity	01	Sample Received Date	16-Jul-19			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19			
Packing Detail	-	Analysis Completion Date				
2		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	+-	-
2	Stack Diameter	Meter	0.8	A CONTRACTOR OF THE CONTRACTOR	
3	*HCI	mg/Nm ³	10.4	IS 11255	20
4	*NH ₃	mg/Nm ³	17.2	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Paramet	ters are not covered in NABL scope
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	Market of the Control	
Barcode ID: cc45e126dc	Report No/Sample ID: 5936179532	Report Date: 24-Jul-19

Duitouc ID, COTSCILLOUG	ricport ito/ our	O'a barra a ment a l'ann an					
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch						
Sample Description	Process Stack - HCI furnace Section of 56 & 100 TPD						
Sample Quantity	01	Sample Received Date	16-Jul-19				
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19				
Packing Detail	-	Analysis Completion Date	19-Jul-19				
		Fuel	A				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	(m)	they con
2	Stack Diameter	Meter	0.2	-	
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	1
4	*HCI	mg/Nm ³	15.1	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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Barcode ID: f9b4e2a9fc	Report No/Sample ID: 5936179533	Report Date: 24-Jul-19
Name of Customer	UPL Limited (Unit-5)	
Address of Customer	Plot No. 750, GIDC Jhagadia,	

Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - De-chlo	Process Stack - De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01	16-Jul-19				
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	17-Jul-19			
Packing Detail	***	Analysis Completion Date	19-Jul-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.15	4	- 1
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 7c86ee675e	Report No/Sa	Report Date: 24-Jul-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – CS2 Incinerator Sample Received Date 17-Jul-19					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Packing Detail		Analysis Completion Date	21-Jul-19			
		Fuel				

5r. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5	-	**
3	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Report No/Sample ID: 5936179537	Report Date: 24-Jul-19
	Report No/Sample ID: 5936179537

Barcode ID: 0104209000	trebott (40) of	imple for obcuzioner			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attac	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor			
Sample Quantity	01	Description of Data			
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	18-Jul-19		
Packing Detail		Analysis Completion Date	21-Jul-19		
Tucking Detail		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8		14
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	39.5	IS: 11255 (Part - 4)	180

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BDL: Below Detectable Limit

Parameters are not covered in NABL scope	

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Barcode ID: 052c302f2a	Report No.	Report Date: 24-Jul-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	General Scrubber (UPDT Plant)					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	UPDT Plant	UPDT Plant Sampling Procedure				
Sample Collected By	By BEIL Team Analysis Start Date		18-Jul-19			
Packing Detail	-	Analysis Completion Date	21-Jul-19			
		Fuel	_			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		,
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	BDL	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

Parameters are not covered in NABL scop	e
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Barcode ID: 2010c18bd	e Report N	lo/Sample ID: 5936179539	Report Date: 24-Jul-19			
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Water Scrubber					
Sample Quantity	01	Sample Received Date	17-Jul-19			
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	18-Jul-19			
Packing Detail	-	Analysis Completion Date	21-Jul-19			
		Fuel	+			

5r. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	CBC #	en.	
3	*NH ₃	mg/Nm³	68	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

arameters are not covered in NABL scope	
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arcode ID: b749250c1d Report No/Sample ID: 5936179540			Report Date: 24-Jul-18				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch						
Sample Description	Process Stack – Wet Spray Dryer						
Sample Quantity	01	Sample Received Date	17-Jul-19				
Sampling Location	New WDG Plant (Phase II)	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	18-Jul-19				
Packing Detail	**	Analysis Completion Date	21-Jul-19				
		Fuel					

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	MW.	
2	Stack Diameter	Meter	1.8		-
3	Stack Temperature	°C	80	IS:11255(Part-3), 2008	(A)
4	Average Velocity	m/s	6.5	IS:11255(Part-3), 2008	
5	*Particulate Matter	mg/Nm³	15.9	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	20

^{*}Parameters are in NABL scope

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Page: 1 of 1 Barcode ID: cffa5c1efa Report No/Sample ID: 5936179691 Report Date: 08-Aug-19 Name of Customer UPL Limited (Unit-5) Address of Customer Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Stack - HCI furnace Section of 56 & 100 TPD Sample Description Sample Quantity 01 Sample Received Date 02-Aug-19 Sampling Location **Caustic Chlorine Plant** Sampling Procedure IS 11255 Sample Collected By By BEIL Team Analysis Start Date 03-Aug-19 Packing Detail Analysis Completion Date 05-Aug-19

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	38	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	13.5	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	0

BDL: Below Detectable Limit

Parameters are not covered in NABL scope	

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Barcode ID: c8b070dba0	Report No/	Report Date: 08-Aug-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	DM water Scrubber / Catalytic Convertor					
Sample Quantity	01	Sample Received Date	05-Aug-19			
Sampling Location	Acrolein Plant	Sampling Procedure	15 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19			
Packing Detail	4	Analysis Completion Date	08-Aug-19			
		Fuel	***			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm³	BDL	By Phocheck Tiger	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: cab5899feb	Report No/San	Report Date: 08-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission				
Sample Quantity	01	Sample Received Date	02-Aug-19		
Sampling Location	Thermic Fluid Heater	Sampling Procedure	IŠ 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19		
Packing Detail	-	Analysis Completion Date	05-Aug-19		
*		Fuel Used	Natural Gas		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33		J
2	Stack Diameter	Meter	0.6	(44)	
3	Stack Temperature	°C	121	IS:11255(Part-3), 2008	40
4	Average Velocity	m/s	7.9	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	9.4	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	7.8	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	11.5	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters a	re not covered in NABL scope		
		END OF REPORT	

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Barcode ID: 53a3f00551	Report No/Sa	Report Date: 08-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)				
Sample Quantity	01	Sample Received Date	02-Aug-19		
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19		
Packing Detail	· em	Analysis Completion Date	05-Aug-19		
I demily permi		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	44	1
2	Stack Diameter	Meter	2.97		(in the case of t
3	Stack Temperature	°C	131	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.9	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	39.2	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO₂)	ppm	29.6	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	22.7	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parame	eters are not covered in NABL scope
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Page: 1 of 1

Report No/Sample ID: 5936179682	Report Date: 08-Aug-19
	Report No/Sample ID: 5936179682

Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack - Flue Gas Emission					
Sample Quantity	01	Sample Received Date	02-Aug-19			
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19			
Packing Detail		Analysis Completion Date	05-Aug-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Wethod Ref.	Permissible Limit
1	Stack Height	Meter	100	NH)	
2	Stack Diameter	Meter	3.86		
3	Stack Temperature	°C	138	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.6	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	45.2	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	37.9	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	23.1	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameter	are	not	covered	in	NABL scope	
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Barcode ID: 0c0db66e56 Report No/Sample ID: 5936179683 Report Date: 08-Aug-19

Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch						
Sample Description	Process Stack - Bag Filter of Spray Dryer						
Sample Quantity	01	Sample Received Date	05-Aug-19				
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19				
Packing Detail	MM.	Analysis Completion Date	08-Aug-19				
		Fuel					

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.8	#4	
3	Stack Temperature	°C	70	IS:11255(Part-3), 2008	
4	Velocity	m/s	7.2	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	15.0	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: c3b5dcb43c	Report No	Report Date: 08-Aug-19				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Caustic Scrubber of Distillation column					
Sample Quantity	01	1 Sample Received Date				
Sampling-Location	POCI ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19			
Packing Detail	-	Analysis Completion Date	05-Aug-19			
*		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.2	-	
3	Stack Temperature	°C	33	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters	are not covered in NABL scope	
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Report No.	Report Date: 08-Aug-19				
UPL Limited (Unit-5	UPL Limited (Unit-5)				
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Process Stack - Cau					
01	Sample Received Date	02-Aug-19			
PCl₃ Plant	Sampling Procedure	IS 11255			
By BEIL Team	Analysis Start Date	03-Aug-19			
	Analysis Completion Date	05-Aug-19			
	Fuel	**			
	UPL Limited (Unit-5 Plot No. 750, GIDC J Dist.: Bharuch Process Stack – Cau O1 PCl₃ Plant	Dist.: Bharuch Process Stack – Caustic Scrubber of Distillation O1 Sample Received Date PCI ₃ Plant Sampling Procedure By BEIL Team Analysis Start Date Analysis Completion Date			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	***	0.4-2
2	Stack Diameter	Meter	0.2		1
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	1
4	*HCI	mg/Nm³	6.9	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*C12	mg/Nm³	BDL	IS 11255	9

BDL: Below Detectable Limit

arameters are not covered in NABL scope		
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Packing Detail

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Barcode ID: 180735853f	Report No/	Report Date: 08-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Caustic scrubber (plant 2)				
Sample Quantity	01	Sample Received Date	02-Aug-19		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19		

Fuel

Analysis Completion Date

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	(44)	P00
2	Stack Diameter	Meter	0.8		44
3	*HCl	mg/Nm³	6.3	USEPA -0050	20
4	*NH ₃	mg/Nm³	24.5	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

arameters are not covered in NABL scop	ie	
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05-Aug-19

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Barcode ID: f0ba421350	Report No	Report No/Sample ID: 5936179688				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Common Scrubber (Plant 1)-Liquid					
Sample Quantity	01	Sample Received Date	02-Aug-19			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19			
Packing Detail		Analysis Completion Date	05-Aug-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	WE .	
2	Stack Diameter	Meter	8.0	6-	140
3	*HCI	mg/Nm³	7.0	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

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Barcode ID: eddb952638	Report No/Sar	Report Date: 08-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01	Sample Received Date	02-Aug-19		
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	BEIL Team Analysis Start Date			
Packing Detail	-	Analysis Completion Date	05-Aug-19		

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	•	
2	Stack Diameter	Meter	0.15	-	
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	WW.
4	*HCI	mg/Nm³	BDL	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 9ec3487099	Report No/Sar	Report Date: 08-Aug-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor					
Sample Quantity	01	1 Sample Received Date				
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19			
Packing Detail	40	Analysis Completion Date	08-Aug-19			
		Fuel	149			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	4-	3-8.
2	Stack Diameter	Meter	0.8	-	(eq.
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm³	27.0	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 6c0d81f431	Report No.	Report No/Sample ID: 5936179697			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (UPDT Plant)				
Sample Quantity	01	Sample Received Date	05-Aug-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19		
Packing Detail	-	Analysis Completion Date	08-Aug-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	* *	ww.
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	BDL	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 019c61e0db	Report N	Report No/Sample ID: 5936179698			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber .				
Sample Quantity	01	Sample Received Date	05-Aug-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19		
Packing Detail	-	Analysis Completion Date	08-Aug-19		
		Fuel	4		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	1.767		Sec. 1
3	*NH ₃	mg/Nm³	85.1	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

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BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 1005ebad45	Report No/Sa	Report Date: 08-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	TEP Plant (PCL3 Scru				
Sample Quantity	01	Sample Received Date	05-Aug-19		
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19		
Packing Detail	-	Analysis Completion Date			
		Fuel	**		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	54	
2	Stack Diameter	Meter	0.25	7	
3	*PCI3	mg/Nm³	BDL	ŲSEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: b311841596	Report No	Report No/Sample ID: 5936179703			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Scrubber				
Sample Quantity	01	Sample Received Date	05-Aug-19		
Sampling Location	TEP Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19		
Packing Detail		Analysis Completion Date	08-Aug-19		
		Fuel	40.00		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
3	SO2	mg/Nm ³	BDL	IS: 11255 (Part - 4)	40
4	*NH3	mg/Nm³	56.2	IS: 11255 (Part - 4)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 2a970cf8b0	Report No/Sample ID: 5936179705		Report Date: 08-Aug-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01	Sample Received Date	05-Aug-19		
Sampling Location	TPPA Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	06-Aug-19		
Packing Detail	- Analysis Completion Date		08-Aug-19		
		Fuel	14		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.15	100	
3	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 2d55ce3f2a	Report No/Sa	Report Date: 08-Aug-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - CS2 Incinerator					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	CS2 Plant (H-5202)	Plant (H-5202) Sampling Procedure				
Sample Collected By	By BEIL Team	BEIL Team Analysis Start Date				
Packing Detail		Analysis Completion Date	08-Aug-19			
		Fuel				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		-
2	Stack Diameter	Meter	2.5		
3	Hydrogen Sulphide (H ₂ S)	mg/Nm³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 603c585472	Report No/Sa	imple ID : 5936179805	Page: 1 of 1
Name of Customer	UPL Limited (Unit-5)	1	Report Date: 27-Aug-19
Address of Customer	Plot No. 750, GIDC Jhag Dist.: Bharuch	gadia,	
Sample Description	Stack - Flue Gas Emission	on.	
Sample Quantity	01		T-Vanna
Sampling Location	Thermic Fluid Heater	Sample Received Date	21-Aug-19
Sample Collected By		Sampling Procedure	IS 11255
Packing Detail	By BEIL Team	Analysis Start Date	21-Aug-19
acking Detail		Analysis Completion Date	23-Aug-19
		Fuel Used	Natural Gas

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible
1	Stack Height	Meter	33	-	Limit
2	Stack Diameter	Meter	0.6		
3	Stack Temperature	°C	118	ICHTOEF(D-+ D) DOOR	**
4	Average Velocity	m/s	7.5	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	12.2	IS: 11255 (Part-3), 2008 IS: 11255 (Part - 1), 1985	150
6	Sulphur Dioxide (SO₂)	ppm	5.9	(Reaffirmed 1999) IS: 11255 (Part – 2), 1985	
7	Oxides of Nitrogen (NOx)	ppm	8.0	(Reaffirmed 2003) IS:11255(Part-7), 2005	100
DL: Belo	ow Detectable Limit	The state of	0.0	13.11233(Part-7), 2005	50

*Parameters are not covered in NABL scope

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Barcode ID: 1338e16ee0	Report No/Sample ID: 5936179806		Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	agadia,				
Sample Description	Stack - Flue Gas Emiss	sion (Coal Fired Boiler-II of Po	werplant - 114 TPH)			
Sample Quantity	01	Sample Received Date	21-Aug-19			
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19			
Packing Detail	-	Analysis Completion Date	23-Aug-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	22	**
2	Stack Diameter	Meter	2.97		-
3	Stack Temperature	°C	129	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.4	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	31.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	26.3	IS: 11255 (Part - 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	21.0	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters are not covered in NABL sco	pe
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Barcode ID: f528dd4f72	Report No/Sa	Report Date: 27-Aug-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Stack - Flue Gas Emission					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	CFBC Boiler Stack	CFBC Boiler Stack Sampling Procedure				
Sample Collected By	By BEIL Team	21-Aug-19				
Packing Detail	-	By BEIL Team Analysis Start Date Analysis Completion Date				
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		
2	Stack Diameter	Meter	3.86		
3	Stack Temperature	°C	142	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.8	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	35.5	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO₂)	ppm	33.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	25.4	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parameters	are not covered in NABL scope		
		END OF REPORT	

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Page: 1 of 1 Barcode ID: 9d84e80802 Report No/Sample ID: 5936179808 Report Date: 27-Aug-19 Name of Customer **UPL Limited (Unit-5)** Address of Customer Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Sample Description Process Stack - Caustic Scrubber of Distillation column Sample Quantity 01 Sample Received Date 21-Aug-19 Sampling Location POCI₃ Plant Sampling Procedure IS 11255 Sample Collected By By BEIL Team **Analysis Start Date** 21-Aug-19 **Packing Detail Analysis Completion Date** 23-Aug-19

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 938faf53d3	Report No/	Report Date: 27-Aug-19		
Name of Customer	UPL Limited (Unit-5			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack – Caustic Scrubber of Distillation			
Sample Quantity	01	Sample Received Date	21-Aug-19	
Sampling Location	PCI ₃ Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19	
Packing Detail		Analysis Completion Date	23-Aug-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	7.4	USEPA -0050	20
5	*PCl3	mg/Nm ³	BDL	USEPA	9
6	*CI2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in	NABL scope	
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Barcode ID: 76d95ab0c6	Report No/	Report Date: 27-Aug-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Common Scrubber (Plant 1)-Liquid					
Sample Quantity	01	Sample Received Date				
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19			
Packing Detail		Analysis Completion Date	23-Aug-19			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18	***	-
2	Stack Diameter	Meter	0.8		-
3	*HCI	mg/Nm ³	5.4	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not	covered in NABL scope
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Barcode ID: fa16525818	Report No/Sample ID: 5936179814 Re		Report Date: 27-Aug-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack attached to Process Scrubber (Water & Alkali Scrubber)				
Sample Quantity	01 Sample Received Date		21-Aug-19		
Sampling Location	TPPA Plant	TPPA Plant Sampling Procedure			
Sample Collected By	By BEIL Team	By BEIL Team Analysis Start Date			
Packing Detail	**	Analysis Completion Date	23-Aug-19		
ACTIVITY OF THE PERSON OF THE		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	-
2	Stack Diameter	Meter	0.15	**	-
3	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NAB	L scope
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Barcode ID: 73bcef7d73	Report No/Sam	Page: 1 of 1 Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – HCl furnace Section of 56 & 100 TPD				
Sample Quantity	01	Sample Received Date	21-Aug-19		
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team Analysis Start Date		21-Aug-19		
Packing Detail	Analysis Completion Date		23-Aug-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	*	
2	Stack Diameter	Meter	0.2		-
3	Stack Temperature	°C	36	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	7.0	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

*Parameters	are not covered in NABL scope	
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Barcode ID: 3fb9efc900	Report No/Sam	Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01 Sample Received Date		21-Aug-19		
Sampling Location	Caustic Chlorine Plant				
Sample Collected By	By BEIL Team Analysis Start Date		21-Aug-19		
Packing Detail		Analysis Completion Date	23-Aug-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.15	-	-
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*Cl2	mg/Nm³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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Barcode ID: 1f8996e3b9	Report No	Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	General Scrubber (UPDT Plant)				
Sample Quantity	01	01 Sample Received Date			
Sampling Location	UPDT Plant				
Sample Collected By	By BEIL Team				
Packing Detail		Analysis Completion Date	23-Aug-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	## ·	
2	Hydrogen Sulphide (H₂S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	BDL	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	ppm	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

*Parameters a	re not covered in NABL scope		
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arcode ID: b2a06a2a5a Report No/Sample ID: 5936179818			Report Date: 27-Aug-19		
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber				
Sample Quantity	01	Sample Received Date	21-Aug-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19		
Packing Detail		Analysis Completion Date	23-Aug-19		
racking Detail		Fuel	.44		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	••	
2	Stack Diameter	Meter	-	**	wa.
3	*NH ₃	mg/Nm³	62.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scop	oe .	
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Barcode ID: 81a1f511c9	Report No/Sa	Report Date: 27-Aug-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	TEP Plant (PCL3 Scrubber)					
Sample Quantity	01	Sample Received Date	21-Aug-19			
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19			
Packing Detail		Analysis Completion Date				
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.25	-	
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope ----- END OF REPORT -----

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Barcode ID: 49362f1144	Report No	Report No/Sample ID: 5936179823					
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC. Dist.: Bharuch	Plot No. 750, GIDC Jhagadia,					
Sample Description	Process Scrubber						
Sample Quantity	01	Sample Received Date	21-Aug-19				
Sampling Location	TEP Plant	Sampling Procedure	IS 11255				
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19				
Packing Detail	**	Analysis Completion Date	23-Aug-19				
***		Fuel					

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	-
2	Stack Temperature	°C	35	IS:11255(Part-3), 2008	-
3	SO2	mg/Nm ³	BDL	IS: 11255 (Part - 4)	40
4	*NH3	mg/Nm ³	32.9	IS: 11255 (Part - 4)	175

BDL: Below Detectable Limit

*Parameters are not	covered in NABL scope	
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Barcode ID: 8f5b394634	Report No/Sa	Report Date: 27-Aug-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – CS2 Incinerator					
Sample Quantity	01	01 Sample Received Date				
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team					
Packing Detail	-	Analysis Completion Date	23-Aug-19			
		Fuel	and .			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5	-	
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 099fbc1e52	Report No/Sample ID: 5936179828 Report Date: 27				
Name of Customer	UPL Limited (Unit-5)				
Address of Customer Plot No. 750, GIDC , Jhagadia Dist.: Bharuch					
Sample Description	Process Stack - Bag Filter	of Spray Dryer			
Carlo Service Administration of the Control of the			04 4 40		

Address of Customer	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch				
Sample Description	Process Stack - Bag	ck – Bag Filter of Spray Dryer			
Sample Quantity	01	Sample Received Date	21-Aug-19		
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19		
Packing Detail	-	Analysis Completion Date	23-Aug-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8		
3	Stack Temperature	°C	71	IS:11255(Part-3), 2008	-
4	Velocity	m/s	7.0	IS: 11255 (Part-3), 2008	-
5	Particulate Matter	mg/Nm ³	11.3	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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Barcode ID: a66921a34e	Report No/	Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5)		The first and the state of the		
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – Caustic scrubber (plant 2)				
Sample Quantity	01	Sample Received Date	21-Aug-19		
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19		
Packing Detail		Analysis Completion Date	23-Aug-19		
140.42		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8		**
3	*HCI	mg/Nm ³	11.0	USEPA -0050	20
4	*NH ₃	mg/Nm³	16.2	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Report No/San	Report Date: 17-Sep-19			
UPL Limited (Unit-5)				
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Stack - Flue Gas Emission	02-Sep-19			
01	Saith pio Tital Tital			
Thermic Fluid Heater	Sampling Procedure	IS 11255		
By BEIL Team	IL Team Analysis Start Date			
	Analysis Completion Date	05-Sep-19		
	Fuel Used	Natural Gas		
	UPL Limited (Unit-5) Plot No. 750, GIDC Jhaga Dist.: Bharuch Stack - Flue Gas Emissio 01 Thermic Fluid Heater By BEIL Team	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Stack - Flue Gas Emission O1 Sample Received Date Thermic Fluid Heater Sampling Procedure By BEIL Team Analysis Start Date Analysis Completion Date		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	33	-	
2	Stack Diameter	Meter	0.6	20	-
3	Stack Temperature	°C	124	IS:11255(Part-3), 2008	**
4	Average Velocity	m/s	7.8	IS: 11255 (Part-3), 2008	
5	Particulate Matter	mg/Nm³	11.4	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	9.4	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	14.3	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parame	ers are not covered in NABL scope
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Barcode ID: 122b1876cc	Report No/Sa	Report Date: 17-Sep-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emission (Coal Fired Boiler-II of Powerplant - 114 TPH)				
Sample Quantity	01	Sample Received Date	02-Sep-19		
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19		
Packing Detail		Analysis Completion Date	05-Sep-19		
		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75	***	
2	Stack Diameter	Meter	2.97	ere:	
3	Stack Temperature	°C	139	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.95	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	35.7	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	28.6	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	23.7	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

*Parame	eters are not covered in NABL scope
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Barcode ID: 1b55133652	Report No/Sa	Report Date: 17-Sep-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Stack - Flue Gas Emiss	sion			
Sample Quantity	01 Sample Received Date		02-Sep-19		
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team				
Packing Detail		Analysis Completion Date	05-Sep-19		
I devine betail		Fuel	Imported Coal		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		***
2	Stack Diameter	Meter	3.86		- 19
3	Stack Temperature	°C	141	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	8.5	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	47.3	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	36.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	25.5	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

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Barcode ID: d71d4dbad	e Report No	Report Date: 17-Sep-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC, Dist.: Bharuch	Plot No. 750, GIDC , Jhagadia Dist.: Bharuch				
Sample Description	Process Stack – Bag Filter of Spray Dryer					
Sample Quantity	01	Sample Received Date	·02-Sep-19			
Sampling Location	Antracol Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19			
Packing Detail	-	Analysis Completion Date	05-Sep-19			
		Fuel	+			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	-	
2	Stack Diameter	Meter	0.8		146
3	Stack Temperature	°C	72	IS:11255(Part-3), 2008	-
4	Velocity	m/s	7.3	IS: 11255 (Part-3), 2008	-
5	Particulate Matter	mg/Nm³	16.8	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 20b7b1e823	Report No	Report No/Sample ID: 5936179932				
Name of Customer	UPL Limited (Unit-5	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Caustic Scrubber of Distillation column					
Sample Quantity	01	Sample Received Date	02-Sep-19			
Sampling Location	POCI ₃ Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19			
Packing Detail		Analysis Completion Date	05-Sep-19			
		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	33	IS:11255(Part-3), 2008	-
4	*HCI	mg/Nm³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not cov	ed in NABL scope
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Report No/Sample ID: 5936179934		Report Date: 17-Sep-19		
UPL Limited (Unit-5				
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Process Stack - Caustic Scrubber of Distillation				
01	01 Sample Received Date			
PCl₃ Plant	Sampling Procedure	IS 11255		
By BEIL Team	Analysis Start Date	03-Sep-19		
-	Analysis Completion Date	05-Sep-19		
	Fuel	**		
	UPL Limited (Unit-5 Plot No. 750, GIDC J Dist.: Bharuch Process Stack – Cau 01 PCl ₃ Plant By BEIL Team	UPL Limited (Unit-5) Plot No. 750, GIDC Jhagadia, Dist.: Bharuch Process Stack – Caustic Scrubber of Distillation O1 Sample Received Date PCI ₃ Plant Sampling Procedure By BEIL Team Analysis Start Date Analysis Completion Date		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	*	
2	Stack Diameter	Meter	0.2	-	-
3	Stack Temperature	°C	32	IS:11255(Part-3), 2008	**
4	*HCI	mg/Nm ³	8.6	USEPA -0050	20
5	*PCl3	mg/Nm³	BDL	USEPA	9
6	*CI2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in	n NABL scope	
	END OF REPORT	
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Barcode ID: e6b1e2f00c	Report No/S	Report No/Sample ID: 5936179935			
Name of Customer	UPL Limited (Unit-5)		*		
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Caust	ic scrubber (plant 2)			
Sample Quantity	01	Sample Received Date			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	EIL Team Analysis Start Date			
Packing Detail	**	Analysis Completion Date	05-Sep-19		
		Fuel	**		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	188	
2	Stack Diameter	Meter	0.8		-
3	*HCI	mg/Nm ³	6.3	USEPA -0050	20
4	*NH ₃	mg/Nm³	24.5	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

arame	ters are not covered in NABL scope
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Barcode ID: 8928058b26	Report No	Report Date: 17-Sep-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack – Common Scrubber (Plant 1)-Liquid					
Sample Quantity	01	Sample Received Date				
Sampling Location	Glufosinate Plant	sinate Plant Sampling Procedure				
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19			
Packing Detail	4"	Analysis Completion Date	05-Sep-19			
		Fuel	_			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18		
2	Stack Diameter	Meter	0.8		
3	*HCI	mg/Nm ³	7.5	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Paramet	ters are not covered in NABL scope	
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Barcode ID: 4ce2e952cb	Report No/Sample ID: 5936179939 F		Report Date: 17-Sep-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – HCl furnace Section of 56 & 100 TPD				
Sample Quantity	01	Sample Received Date	03-Sep-19		
Sampling Location	Caustic Chlorine Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Sep-19		
Packing Detail	**	Analysis Completion Date	06-Sep-19		
TOTAL PROPERTY OF THE PROPERTY		Fuel	4		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	-
2	Stack Diameter	Meter	0.2	also and a second	-
3	Stack Temperature	°C	37	IS:11255(Part-3), 2008	**
4	*HCI	mg/Nm ³	11.7	USEPA 0050	20
5	*Cl2	mg/Nm³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

	END OF REPORT	
		For BEIL Infrastructure Lt
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Barcode ID: 3d5e74fea0	Report No/Sample ID: 5936179943		Report Date: 17-Sep-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhaga Dist.: Bharuch				
Sample Description	Process Stack - De-chlorination Section of 56 & 100 TPD				
Sample Quantity	01 Sample Received Date		03-Sep-19		
Sampling Location	Caustic Chlorine Plant				
Sample Collected By	By BEIL Team Analysis Start Date		04-Sep-19		
Packing Detail			06-Sep-19		
			the state of the s		

Fuel

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.15	-	-
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*CI2	mg/Nm³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 884d0ba697	Report No/Sample ID: 5936179944		Report Date: 17-Sep-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Caustic Scrubber attached to D-14 Reactor & Precipitation Reactor				
Sample Quantity	01	Sample Received Date	03-Sep-19		
Sampling Location	Mancozeb/ Antracol Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Sep-19		
Packing Detail	-	Analysis Completion Dat	The second secon		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.8		
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5
4	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	31.5	IS: 11255 (Part - 4)	180

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope		
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Barcode ID: afe785a294	Report No	Report Date: 17-sep-19			
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Plot No. 750, GIDC Jhagadia,			
Sample Description	General Scrubber	(UPDT Plant)			
Sample Quantity	01	Sample Received Date	03-Sep-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	.04-Sep-19		
Packing Detail	**	Analysis Completion Date	05-Sep-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	29	
2	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	10
3	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180
4	Oxides of Nitrogen (NOx)	ppm	BDL	IS:11255(Part-7), 2005	25
5	*Carbon Monoxide as CO	PPM	BDL	EPA Method 3C	100

BDL: Below Detectable Limit

Parameters	are not	covered	in	NABL	scope
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Barcode ID: 1b922c2136	Report N	Report Date: 17-Sep-19			
Name of Customer	UPL Limited (Unit-5	()			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Water Scrubber				
Sample Quantity	01	Sample Received Date	·03-Sep-19		
Sampling Location	UPDT Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Sep-19		
Packing Detail	**	Analysis Completion Date	05-Sep-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		**
2	Stack Diameter	Meter			-
3	*NH ₃	mg/Nm³	82.3	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	175

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	4
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Report No/S	ample ID: 5936179947	Report Date: 17-Sep-19		
Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
tack attached to Pro	ocess Scrubber (Water & Alkali	Scrubber)		
	Sample Received Date	03-3eh-13		
	Sampling Procedure	IS 11255		
		04-Sep-19		
SY BEIL TEATH	Analysis Completion Date	05-Sep-19		
•	Fuel			
	PL Limited (Unit-5) lot No. 750, GIDC Jh	PL Limited (Unit-5) lot No. 750, GIDC Jhagadia, sist.: Bharuch tack attached to Process Scrubber (Water & Alkali Sample Received Date PPA Plant Sy BEIL Team Analysis Start Date Analysis Completion Date		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	/**	**
2	Stack Diameter	Meter	0.15		**
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 83ab1b555	4 Report No/	Report Date: 17-Sep-19	
Name of Customer	UPL Limited (Unit-5		
Address of Customer	Plot No. 750, GIDC J Dist.: Bharuch		·
Sample Description	DM water Scrubber	/ Catalytic Convertor	
Sample Quantity	01	Sample Received Date	02-Sep-19
Sampling Location	Acrolein Plant	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19
Packing Detail		Analysis Completion Date	
		Fuel	44

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*VOC	mg/Nm ³	BDL	By Phocheck Tiger	20
2	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: f729746c73	Report No/Sa	mple ID: 5936179949	Page: 1 of 1 Report Date: 17-Sep-19
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	gadia,	
Sample Description	Process Stack - CS2 In	cinerator	
Sample Quantity	01	Sample Received Date	02-Sep-19
Sampling Location	CS2 Plant (H-5202)	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19
Packing Detail	-	Analysis Completion Date	
		Fuel	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5		
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 9b5364904	4 Report No/	Report No/Sample ID: 5936180195				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	Process Stack - Caust	Process Stack – Caustic scrubber (plant 2)				
Sample Quantity	01	Sample Received Date	25-Sep-19			
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	26-Sep-19			
Packing Detail	_	Analysis Completion Date	28-Sep-19			
7 11 11		Fuel	-			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.8	-	-
3	*HCI	mg/Nm ³	9.4	USEPA -0050	20
4	*NH ₃	mg/Nm³	21.0	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm ³	BDL	By GC	20

BDL: Below Detectable Limit

*Paramet	ers are not covered in NABL scope
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Barcode ID: a11776ea9	2 Report No/Sa	Report Date: 29-Sep-19				
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch	*				
Sample Description	Stack - Flue Gas Emiss	Stack - Flue Gas Emission				
Sample Quantity	01	01 Sample Received Date				
Sampling Location	CFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	18-Sep-19			
Packing Detail	-	Analysis Completion Date	19-Sep-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	100		2.
2	Stack Diameter	Meter	3.86		-
3	Stack Temperature	°C	139	IS:11255(Part-3), 2008	-
4	Average Velocity	m/s	8.7	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm ³	42.7	IS: 11255 (Part - 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO₂)	ppm	38.0	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	27.5	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters are not cove	red in NABL scope
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Barcode ID: 66ba739746	Report No/S	Report No/Sample ID: 5936180090				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	agadia,				
Sample Description	Stack - Flue Gas Emiss	sion (Coal Fired Boiler-II of Po	werplant - 114 TPH)			
Sample Quantity	01					
Sampling Location	AFBC Boiler Stack	Sampling Procedure	IS 11255			
Sample Collected By	By BEIL Team	Analysis Start Date	18-Sep-19			
Packing Detail		Analysis Completion Date	19-Sep-19			
		Fuel	Imported Coal			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	75		-
2	Stack Diameter	Meter	2.97	-	4-
3	Stack Temperature	°C	128	IS:11255(Part-3), 2008	440
4	Average Velocity	m/s	8.3	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	38.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	150
6	Sulphur Dioxide (SO ₂)	ppm	32.6	IS: 11255 (Part – 2), 1985 (Reaffirmed 2003)	100
7	Oxides of Nitrogen (NOx)	ppm	25.7	IS:11255(Part-7), 2005	50

BDL: Below Detectable Limit

Parameters are r	ot covered in N	IABL scope
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Barcode ID: 51d3026482	Report No/Sa	imple ID: 5936180091	Page: 1 of 1 Report Date: 29-Sep-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack – CS2 Incinerator				
Sample Quantity	01	Sample Received Date	17-Sep-19		
Sampling Location	CS2 Plant (H-5202)	A CONTRACTOR OF THE CONTRACTOR			
Sample Collected By	By BEIL Team	Analysis Start Date	IS 11255 18-Sep-19		
Packing Detail	-	Analysis Completion Date	19-Sep-19		
R a		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	45		
2	Stack Diameter	Meter	2.5	-	-
3	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: b0242ac2d4	Report No/Sar	Report Date: 29-Sep-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack – PPT Scrubber (New WDG)			
Sample Quantity	01	Sample Received Date	17-Sep-19	
Sampling Location	New WDG Plant (Liq.)			
Sample Collected By	By BEIL Team Analysis Start Date		IS 11255 18-Sep-19	
Packing Detail		19-Sep-19		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		<u> </u>
2	Stack Diameter	Meter	0.1		
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	6.3	IS:11255(Part-3), 2008	
5	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	5
6	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180

*Parameters are not o	covered i	in	NABL	scope
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Barcode ID: c3b75e2ca6	Report No/S	Report Date: 29-Sep-19	
Name of Customer	UPL Limited (Unit-5)		10 per 1 2 dep 15
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch	agadia,	*
Sample Description	Process Stack - Alkal	i Scrubber of D-14 Reacter	
Sample Quantity	01	Sample Received Date	17-Sep-19
Sampling Location	New WDG Plant	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	D. DEIL T	
Packing Detail		Analysis Completion Date	18-Sep-19 19-Sep-19
/ while it		Fuel	-4

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.1	N.	_
3	Stack Temperature	°C	35	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	6.6	IS:11255(Part-3), 2008	-
5	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	
6	*Carbon Di-Sulphide (CS ₂)	mg/Nm ³	BDL	IS: 11255 (Part - 4)	180

Parameters are not covered in NABL scope

END OF REPORT ---

For BEIL Infrastructure Ltd.

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Barcode ID: 1a6dbbcf2f	Report No/S	Report Date: 29-Sep-18				
Name of Customer	UPL Limited (Unit-5)		*			
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Process Stack - Wet	Process Stack – Wet Spray Dryer				
Sample Quantity	01	Sample Received Date				
Sampling Location	New WDG Plant (Phase I)	SCREET SECURITY OF THE PERSONNEL AND THE PERSONN				
Sample Collected By	By BEIL Team	Analysis Start Date	18-Sep-19			
Packing Detail		Analysis Completion Date	19-Sep-19			
		Fuel	**			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	22
2	Stack Diameter	Meter	1.8	***	-
3	Stack Temperature	°C	83	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	6.7	IS:11255(Part-3), 2008	
5	*Particulate Matter	mg/Nm³	18.5	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

^{*}Parameters are in NABL scope

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Barcode ID: fb72eee0d8	Report No/S	Report Date: 29-Sep-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	TEP Plant (PCL3 Scru	ibber)		
Sample Quantity	01			
Sampling Location	PCL3 Scrubber	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	18-Sep-19	
Packing Detail	-	Analysis Completion Date	19-Sep-19	
		Fuel	-	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	200	
2	Stack Diameter	Meter	0.25		
3	*PCI3	mg/Nm ³	BDL	USEPA	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope

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Barcode ID: 9e48da119f	Report No/San	Report Date: 29-Sep-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhaga Dist.: Bharuch	adia,		
Sample Description	Process Stack – De-chlorination Section of 56 & 100 TPD			
Sample Quantity	01			
Sampling Location	Caustic Chlorine Plant	Caustic Chlorine Plant Sampling Procedure		
Sample Collected By	By BEIL Team			
Packing Detail	Analysis Completion Date		26-Sep-19 28-Sep-19	
ar ar many		Fuel	www.	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	0.15		_
3	Stack Temperature	°C	33	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA 0050	20
5	*CI2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

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^{*}Parameters are not covered in NABL scope



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Barcode ID: 492278269e	Report No/Samp	Report Date: 28-Sep-19		
Name of Customer	UPL Limited (Unit-5)	The state of the s		
Address of Customer	Plot No. 750, GIDC Jhaga Dist.: Bharuch			
Sample Description	Process Stack - HCl furn	Process Stack – HCl furnace Section of 56 & 100 TPD		
Sample Quantity	01	Sample Received Date	25-Sep-19	
Sampling Location	Caustic Chlorine Plant Sampling Procedure		IS 11255	
Sample Collected By	By BEIL Team Analysis Start Date		26-Sep-19	
Packing Detail	Analysis Completion		28-Sep-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	**	1
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	24
4	*HCI	mg/Nm ³	12.5	USEPA 0050	20
5	*Cl2	mg/Nm ³	BDL	USEPA 0050	9

BDL: Below Detectable Limit

arameters are i	not	covered i	n	NABL scope	

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Barcode ID: 3381faabb8	Report N	Report Date: 29-sep-19		
Name of Customer	UPL Limited (Unit-5			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - Cau	Process Stack – Caustic Scrubber of Distillation column		
Sample Quantity	01	Sample Received Date	25-Sep-19	
Sampling Location	POCI ₃ Plant	Sampling Procedure	IS 11255	
Sample Collected By	By BEIL Team	Analysis Start Date	26-Sep-19	
Packing Detail	-	Analysis Completion Date	28-Sep-19	
A1		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30	40	
2	Stack Diameter	Meter	0.2		
3	Stack Temperature	°C	32	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	BDL	USEPA -0050	20

BDL: Below Detectable Limit

*Parameters are not covered in NABI scope

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Barcode ID: 0c2ef678d6	Report No/	Report Date: 29-sep-19			
Name of Customer	UPL Limited (Unit-5		*		
Address of Customer	Plot No. 750, GIDC . Dist.: Bharuch	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	Process Stack - Cau	stic Scrubber of Distillation			
Sample Quantity	01	Sample Received Date	25-Sep-19		
Sampling Location	PCI ₃ Plant	Sampling Procedure	IS 11255		
Sample Collected By	By BEIL Team	Analysis Start Date	26-Sep-19		
Packing Detail	+	Analysis Completion Date	28-Sep-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		-
2	Stack Diameter	Meter	0.2	· ·	-
3	Stack Temperature	°C	34	IS:11255(Part-3), 2008	
4	*HCI	mg/Nm ³	12.9	USEPA -0050	20
5	*PCI3	mg/Nm ³	BDL	USEPA	9
6	*Cl2	mg/Nm ³	BDL	IS 11255	9

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 988ff3c7a4	Report No/S	Report Date: 29-Sep-19	
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	* -	
Sample Description	Process Stack - Comm	non Scrubber (Plant 1)-Liquid	
Sample Quantity	01	Sample Received Date	25-Sep-19
Sampling Location	Glufosinate Plant	Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	26-Sep-19
Packing Detail		Analysis Completion Date	28-Sep-19
		Fuel	-

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	18		-
2	Stack Diameter	Meter	0.8	now.	
3	*HCI	mg/Nm ³	7.6	IS 11255	20
4	*NH ₃	mg/Nm³	BDL	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	30
5	*HC	mg/Nm³	BDL	By GC	20

BDL: Below Detectable Limit

*Parameters are not covered in	NABL scope
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Barcode ID: 3824a75918	Report No/S	Report Date: 29-Sep-19	
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch		
Sample Description	Process Stack - Wet		
Sample Quantity	01	25-Sep-19	
Sampling Location	Mancozeb Plant	Sample Received Date Sampling Procedure	IS 11255
Sample Collected By	By BEIL Team	Analysis Start Date	26-Sep-19
Packing Detail		Analysis Completion Date	
		Fuel	28-Sep-19

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	Stack Height	Meter	30		
2	Stack Diameter	Meter	1.8		
3	Stack Temperature	°C	68	IS:11255(Part-3), 2008	
4	Average Velocity	m/s	7.5	IS:11255(Part-3), 2008	
5	Particulate Matter	mg/Nm³	18.4	IS: 11255 (Part – 1), 1985 (Reaffirmed 1999)	20

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Barcode ID: b4d5dcc80a	Report No/Sai	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Noise Monitoring				
Sample Quantity	01	Sample Received Date	05-Apr-19		
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail		Analysis Completion Date	05-Apr-19		
A PARTICIPATION OF THE PARTICI		Fuel	-		

4		CO. (A)	Re	sult	naulual Bas
Sr. No.	Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	69.5	64.7	By Sound Level Meter
2	Secondary Brine	dB(A)	66.4	60.8	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	65.7	60.3	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70.9	67.2	By Sound Level Meter
5	Power Plant	dB(A)	69.3	65.5	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	73.4	67.3	By Sound Level Meter
7	Nr. Main Gate	dB(A)	63.0	53.8	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	71.5	67.5	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	68.6	63.4	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	65.9	62.1	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters	are in	NABL	scope
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Barcode ID: 98fd766cb0	Report No/Sa	Report Date: 25-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	*Noise Monitoring	1 - 1/2 - 1/2			
Sample Quantity	01	Sample Received Date	15-Apr-19		
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method		
Sample Collected By	By BEIL Team	Analysis Start Date	15-Apr-19		
Packing Detail	***	Analysis Completion Date	15-Apr-19		
i down D a aran		Fuel			

		Jan de	Re	sult	Method Ref.
Sr. No.	Parameters	Unit	Day	Night	
1	Primary Brine	dB(A)	69	62.0	By Sound Level Meter
2	Secondary Brine	dB(A)	68	61.5	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	67	60.0	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	71	63.1	By Sound Level Meter
5	Power Plant	dB(A)	68	62.5	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	70	64.0	By Sound Level Meter
7	Nr. Main Gate	dB(A)	62	55.3	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	73	64.5	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	68	61.8	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	65	59.4	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

arameters are not covered in NABL scope	
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Barcode ID: f0d517f37c	Report No/San	Report Date: 09-May-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	*Noise Monitoring				
Sample Quantity	01	Sample Received Date	01-May-19		
Sampling Location	As per Below Table	Sampling Procedure	.Instrumental Method		
Sample Collected By	By BEIL Team	Analysis Start Date	01-May-19		
Packing Detail		Analysis Completion Date	01-May-19		
		Fuel	-		

	Parameters	Unit	Re	sult	Method Ref.
Sr. No.			Day	Night	
1	Primary Brine	dB(A)	68.2	60.3	By Sound Level Meter
2	Secondary Brine	dB(A)	65.5	58.6	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	69.3	60.9	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70.0	63.7	By Sound Level Meter
5	Power Plant	dB(A)	71.0	62.6	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	69.8	61.7	By Sound Level Meter
7	Nr. Main Gate	dB(A)	65.0	59.4	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	72.6	66.0	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	70.5	62.5	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	67.0	61.2	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not covered in NABI scope

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Durcouc in To To Locato	tiopoit ito/outilpic in coordinate	- MARINE CONTRACTOR OF THE
Barcode ID: 464e2f3ea8	Report No/Sample ID: 5936179005	Report Date: 23-May-19
		The second less than the second

Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	*Noise Monitoring					
Sample Quantity	01	Sample Received Date	17-May-19			
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method			
Sample collected By	By BEIL Team	Analysis Start Date	17-May-19			
Packing Detail	44	Analysis Completion Date	17-May-19			
		Fuel				

200 1000	Marie Control of the		Re	sult		
Sr. No.	lo. Parameters	o. Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	66.5	59.4	By Sound Level Meter	
2	Secondary Brine	dB(A)	63.2	57.2	By Sound Level Meter	
3	Nr. Caustic Chlorine Plant	dB(A)	70.4	62.8	By Sound Level Meter	
4	Utility Block Mechanical	dB(A)	69.8	61.7	By Sound Level Meter	
5	Power Plant	dB(A)	71.0	64.8	By Sound Level Meter	
6	Mancozeb Plant- Nr. D-14	dB(A)	68.3	64.3	By Sound Level Meter	
7	Nr. Main Gate	dB(A)	64.2	57.2	By Sound Level Meter	
8	Nr. ETP Plant	dB(A)	71.5	62.6	By Sound Level Meter	
9	Nr. Antralcol Plant	dB(A)	69.0	61.4	By Sound Level Meter	
10	Nr. CS2 Plant	dB(A)	66.1	58.8	By Sound Level Meter	

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not covered in NABL scope	
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Packing Detail

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Barcode ID: 02f739aec5	Report No/San	Report Date: 010-Jun-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch			
Sample Description	*Noise Monitoring		Towns we	
Sample Quantity	01	Sample Received Date	03-Jun-19	
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method	
Sample Collected By	By BEIL Team	Analysis Start Date	03-Jun-19	
Packing Detail		Analysis Completion Date	03-Jun-19	

Fuel

		Result		sult	Bashed Dof
Sr. No.	p. Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	65.3	59.3	By Sound Level Meter
2	Secondary Brine	dB(A)	64.1	60.7	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	68.0	63.2	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	69.7	62.5	By Sound Level Meter
5	Power Plant	dB(A)	70.8	64.1	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	68.4	62.0	By Sound Level Meter
7	Nr. Main Gate	dB(A)	66.0	60.5	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	71.4	67.8	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	71.2	65.4	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	66.9	66.6	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night-Not More Than 70 dB(A)

*Parameters are not covered in NABL scope		
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Barcode ID: b73e454aea	Report No/Sa	Report Date: 25-Jun-19			
Name of Customer	UPL Limited (Unit-5)	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	*Noise Monitoring				
Sample Quantity	01	Sample Received Date	18-Jun-19		
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method		
Sample Collected By	By BEIL Team	Analysis Start Date	18-Jun-19		
Packing Detail	-	Analysis Completion Date	18-Jun-19		
		Fuel	-		

			Result			
Sr. No.	No. Parameters	o. Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	67.5	65.9	By Sound Level Meter	
2	Secondary Brine	dB(A)	65.4	61.1	By Sound Level Meter	
3	Nr. Caustic Chlorine Plant	dB(A)	68.9	64.8	By Sound Level Meter	
4	Utility Block Mechanical	dB(A)	68.4	66.7	By Sound Level Meter	
5	Power Plant	dB(A)	69.3	64.0	By Sound Level Meter	
6	Mancozeb Plant- Nr. D-14	dB(A)	69.7	65.3	By Sound Level Meter	
7	Nr. Main Gate	dB(A)	65.6	59.8	By Sound Level Meter	
8	Nr. ETP Plant	dB(A)	70.8	67.3	By Sound Level Meter	
9	Nr. Antralcol Plant	dB(A)	70.9	64.7	By Sound Level Meter	
10	Nr. CS2 Plant	dB(A)	64.7	62.8	By Sound Level Meter	

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are no	t covered i	in NABL	scope
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Barcode ID: 7d121e5ad	4 Report No/Sa	ample ID: 5936179371	Page: 1 of 1 Report Date: 07-Jul-19
Name of Customer	UPL Limited (Unit-5)		
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	gadia,	
Sample Description	*Noise Monitoring		
Sample Quantity	01	Sample Received Date	02-Jul-19
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method
Sample Collected By	By BEIL Team	Analysis Start Date	02-Jul-19
Packing Detail	-	Analysis Completion Date	02-Jul-19
		Fuel	

Sr. No.	Parameters	Result		sult	And the local Cold
31, 140,	Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	67.5	62.4	By Sound Level Meter
2	Secondary Brine	dB(A)	66.7	64.3	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	68.0	64.9	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70.1	65.7	By Sound Level Meter
5	Power Plant	dB(A)	70.5	65.8	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	68.0	63.4	By Sound Level Meter
7	Nr. Main Gate	dB(A)	67.5	62.6	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	71.8	68.8	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	72.2	63.7	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	65.9	64.6	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not covered in NABL scope	e not covered in NABL scope	
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Barcode ID: 68b0361b4	6 Report No/Sai	Report No/Sample ID: 5936179520			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	*Noise Monitoring				
Sample Quantity	01	Sample Received Date	16-Jul-19		
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method		
Sample Collected By	By BEIL Team	Analysis Start Date	16-Jul-19		
Packing Detail	-	Analysis Completion Date	16-Jul-19		
		Fuel			

ar.a.	200.000	Result		sult	22.11.12.2
Sr. No.	Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	68	64	By Sound Level Meter
2	Secondary Brine	dB(A)	67	58	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	68	62	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70	65	By Sound Level Meter
5	Power Plant	dB(A)	71	65	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	68	64	By Sound Level Meter
7	Nr. Main Gate	dB(A)	65	62	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	72	68	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	69	65	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	66	63	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

"Parameters are not covered in NABL scope		
	END OF REPORT	

For Bharuch Enviro Infrastructure Ltd.

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ANALYTICAL RESEARCH LABORATORY TEST REPORT

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Page: 1 of 1

Barcode ID: a1120ba63d	Report No/S	Report No/Sample ID: 5936179804		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC Jha Dist.: Bharuch	gadia,		
Sample Description	*Noise Monitoring			
Sample Quantity	01	Sample Received Date	21-Aug-19	
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method	
Sample Collected By	By BEIL Team	Analysis Start Date	21-Aug-19	
Packing Detail	-	Analysis Completion Date		
		Fuel		

		Result		sult		
Sr. No.	. Parameters	o. Parameters U	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	61.0	55.0	By Sound Level Meter	
2	Secondary Brine	dB(A)	64.3	58.4	By Sound Level Meter	
3	Nr. Caustic Chlorine Plant	dB(A)	66.7	60.5	By Sound Level Meter	
4	Utility Block Mechanical	dB(A)	56.4	52.7	By Sound Level Meter	
5	Power Plant	dB(A)	58.3	53.1	By Sound Level Meter	
6	Mancozeb Plant- Nr. D-14	dB(A)	54.4	50.2	By Sound Level Meter	
7	Nr. Main Gate	dB(A)	58.0	52.0	By Sound Level Meter	
8	Nr. ETP Plant	dB(A)	58.5	53.6	By Sound Level Meter	
9	Nr. Antralcol Plant	dB(A)	50.8	48.0	By Sound Level Meter	
10	Nr. CS2 Plant	dB(A)	60.1	54.6	By Sound Level Meter	

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not covered in NABL scope	
	END OF REPORT

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Page: 1 of 1

Barcode ID: b2a3b7dc39	Report No/Sa	mple ID:5936179927	Report Date: 17-Sep-19			
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	*Noise Monitoring		02 5 10			
Sample Quantity	01	Sample Received Date	02-Sep-19			
	As per Below Table	Sampling Procedure	Instrumental Method			
Sampling Location		Analysis Start Date	02-Sep-19			
Sample Collected By	By BEIL Team		02-Sep-19			
Packing Detail		Analysis Completion Date	02 3cp 23			
I demily potati		Fuel				

				sult	Method Ref.
Sr. No.	Parameters	Unit	Day	Night	
	D. Carama Daine	dB(A)	69	63	By Sound Level Meter
1	Primary Brine	dB(A)	66	63	By Sound Level Meter
2	Secondary Brine	dB(A)	67	64	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	72	68	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	70	64	By Sound Level Meter
5	Power Plant Mancozeb Plant- Nr. D-14	dB(A)	67	62	By Sound Level Meter
6	Nr. Main Gate	dB(A)	68	55	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	72	67	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	69	66	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	65	63	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters are not covered in NABL scope		
	END OF REPORT	

For BEIL Infrastructure Ltd.

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Barcode ID: 71ec20520c	Report No/S	Report No/Sample ID: 5936180088				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch					
Sample Description	*Noise Monitoring					
Sample Quantity	01	Sample Received Date	17-Sep-19			
Sampling Location	As per Below Table	Sampling Procedure	Instrumental Method			
Sample Collected By	By BEIL Team	Analysis Start Date	17-Sep-19			
Packing Detail		Analysis Completion Date				
		Fuel	-			

		Result		sult	
Sr. No.	Parameters	Unit	Day	Night	Method Ref.
1	Primary Brine	dB(A)	63.0	59.0	By Sound Level Meter
2	Secondary Brine	dB(A)	64.0	58.0	By Sound Level Meter
3	Nr. Caustic Chlorine Plant	dB(A)	67.0	58.0	By Sound Level Meter
4	Utility Block Mechanical	dB(A)	69.0	65.0	By Sound Level Meter
5	Power Plant	dB(A)	62.0	60.0	By Sound Level Meter
6	Mancozeb Plant- Nr. D-14	dB(A)	61.0	53.0	By Sound Level Meter
7	Nr. Main Gate	dB(A)	66.0	52.0	By Sound Level Meter
8	Nr. ETP Plant	dB(A)	71.0	68.0	By Sound Level Meter
9	Nr. Antralcol Plant	dB(A)	68.0	56.0	By Sound Level Meter
10	Nr. CS2 Plant	dB(A)	60.0	54.0	By Sound Level Meter

Permissible Limit:

Day- Not More Than 75 dB(A) Night- Not More Than 70 dB(A)

*Parameters	are	not	covered	in	NABL scope	
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8arcode ID: ccdc7cbe24	Report No/Sa	imple ID: 5936179926	Page: 1 of 3 Report Date: 17-Sep-19			
Name of Customer	UPL Limited (Unit-5)	7,20	vehout pare: 17-360-13			
Address of Customer	Plot No. 750, GIDC JI Dist.: Bharuch					
Sample Description	Industrial Treated Effluent					
Sample Quantity	5 Ltr.	Sample Received Date	02-Sep-19			
Sampling Location	Discharge Point	Sampling Procedure	As per IS 3025			
Sample Collected By	By BEIL Team	Analysis Start Date	03-Sep-19			
Packing Detail	Plastic Carboy	Analysis Completion Date	07-Sep-19			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	рН	54	6.60	APHA* 4500H+-B, 4-95 to 4-99, 23rd Edition 2017	6.5 to 8.5
2	*Temperature	°C	28.8	APHA 2550 8 23rd Edition 2017	>5 °C above Ambient Water Temperature
3	*Odor	Agreeable	Agreeable	APHA 2150 B, 23rd Ed. 2017	remperature
4	Color	Pt. Co. Scale	68,4	APHA 2120 C, 2-7 to 2-8, 23rd Ed. 2017	-
5	Total Suspended Solids	mg/Ltr.	49	APHA-2540-D 2-70 to 2-71, 23rd Ed.2017	100
6	BOD (3 day @27°C)	mg/l,tr.	45	BIS :3025 (part 44)	100
7	COD	mg/Ltr.	183	APHA 5220-8, 5-18 to 5-19, 23rd Ed.2017	250
8	Oil & Grease	mg/Ltr.	BDL	APHA 5520-8, 5-42 to 5-44, 23rd Ed.2017	10
9	*Phenolic Compound	mg/Ltr.	BDL	APHA, 5530-D, 5-52, 23rd Ed.2017	5
10	Sulphides, as S	mg/Ltr.	BDL	APHA 4500-S-2-F 4-187 , 23rd Ed 2017	5
11	Ammonical Nitrogen	mg/Ltr.	18.5	APHA 4500-NH3-C, 4-116, 23rd Ed., 2017	50
12	*Total kjeldahl Nitrogen	mg/Ltr.	36.4	APHA 4500 Norg C, 23rd Ed., 2017	50
13	*Cyanide ,as CN	mg/Ltr.	BDL	APHA 4500-CN, 23rd Ed., 2017	0.2
14	*Fluoride	mg/Ltr.	BDL	APHA 4500-F- C, 4-89 to 4-90, 23rd Ed.2017	15
15	*Nitrate-Nitrogen	mg/Ltr.	17.8	APHA 4500-NH3-B, 4-112, 23 rd Ed., 2017	50
16	*Total Residual Chlorine	mg/Ltr.	0.53	APRA 4500 CI- 8, 23rd Ed., 2017	1.0
17	*Hexavalent Chromium	mg/Ltr.	BDL	APHA 3500 CR B, 23rd Ed.2017	0.1



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Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible
18	Total Chromium	mg/Ltr.	BOL	APHA 3111-Cr-B	Limit
			1000	3-20 to 3-21, 23rd Ed.2017	0.25
19	Copper	mg/Ltr.	0.0529	APHA 3111-Cu-B	1.0
20	DE-LOY	-		3-20 to 3-21, 23rd Ed 2017	3.0
700	Nickel	mg/itr.	BDL	APHA 3111-Ni- B, 3-20 to 3-21, 23rd Ed. 2017	0.1
21	Zinc	mg/Ltr.	0,1353	APHA 3111-Zn- B, 3-20 to 3-21, 23rd Ed.2017	1.0
22	*Mercury	mg/Lir	RDL	APHA 3312-Hg- B, 3 25 to 3-27, 23rd Ed.2017	0.005
23	Iron	mg/Ltr.	0.0897	APHA 3111-Fe- B, 3-20 to 3-21, 23rd Ed. 2017	3.0
24	Lead	mg/Ltr.	0.0468	APHA 3111-Pb-B, 3-20 to 3-21, 23rd Ed.2017	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3111-AS-B, 23rd Ed.2017	0.05
26	*Cadmium	mg/Ltr.	0.0136	APHA 3111-CD B, 23rd Ed. 2017	0.05
27	*Vanadium	mg/Ltr.	8DL	APHA 3111 A, 23rd Ed, 2017	0.015
28	*Selenium	mg/Ltr.	BDL	APHA 3500-SE- B-C, 23rd Ed. 2017	0.05
29	*Manganese	mg/Ltr.	0.0158	APHA 3111 A, 23rd Ed. 2017	10
30	*Antimony	mg/Ltr.	8DL	APHA 3500 Sb, 23rd Ed. 2017	0.1
31	*Molybdenum (Mo)	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.35
32	*Phosphate	mg/Ltr.	2.1	APHA ,4500-P-C , 23rd-Ed. 2017	5.0
33	*Sulphur	mg/Ltr.	BDL	Elementai Analysis	444
	"Pesticides	T mild work	Dire	and the state of t	0.03
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23rd Edition 2017	221
35	Carbonyl	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0,01
36	Copper Sulphate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.05
38	DOT	mg/Ltr.	Absent	APHA 23rd Edition 2017	9.6
39	Dimethoate	mg/Ltr.	Absent	APHA 23rd Edition 2017	
40	2,4 D	mg/Ltr.	Absent	APHA 23 th Edition 2017	0.45
41	Endosulfan	mg/Ltr.	Absent	APHA 23rd Edition 2017	The second second
42	Fenitothrion	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
43	Malathion	mg/Ltr.	Absent	APHA 23 ^{rt} Edition 2017	0.01
	Methyl Parathion	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
	Paraquet	mg/Ltr.	Absent	APHA 23 rd Edition 2017	
	Phenathoate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
47	Phorate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01



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		mg/Ltr.	Absent	APHA 23 rd Edition 2017	7.3
49	Pyrethrums	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
50	Ziram	mg/Ltr.	Absent	APHA 23rd Edition 2017	1.0
51	Other Pesticide (individually)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0,1
52	*Bio Assay	Observation	90% Fish survive in 100% Effluent after 96 Hrs.	APHA 8910 23rd Edition 2017.	90% Fish survive in 100% Effluent after 96 Hrs.

BDL: Below Detectable Limit

- END OF REPORT -

For BEIL Infrastructure Ltd.

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^{*}Parameters are not covered in NABL scope



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

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ISD 14001 & BS CHSAS 18601 Certifled Laborator Page: 1 of 3

Barcode ID: 4b2b96104f	Report No/S	Report Date: 08-Aug-19					
Name of Customer	UPL Limited (Unit-5)						
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch						
Sample Description	Industrial Treated Ef	Industrial Treated Effluent					
Sample Quantity	5 Ltr.	Sample Received Date	02-Aug-19				
Sampling Location	Discharge Point	Sampling Procedure	As per IS 3025				
Sample Collected By	By BEIL Team	Analysis Start Date	03-Aug-19				
Packing Detail	Plastic Carboy	Analysis Completion Date	08-Aug-19				

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1.	рН	-	7,14	APHA* 4500H+-B, 4-95 to 4-99, 23rd Edition 2017	6.5 to 8.5
2	*Temperature	"C	28.1	APHA 2550 B 23rd Edition 2017	>5 °C above Ambient Water Temperature
3	*Odor	Agreeable	Agreeable	APHA 2150 B, 23rd Ed. 2017	
4	Color	Pt. Ca. Scale	65	APHA 2120 C, 2-7 to 2-8, 23rd Ed. 2017	-
5	Total Suspended Solids	mg/Ltr.	24	APHA-2540-D 2-70 to 2-71, 23rd £d,2017	100
6	BOD (3 day @27°C)	mg/Ltr.	12	BIS:3025 (part 44)	100
7	COD	mg/Ltr.	43	APHA 5220-B, 5-18 to 5-19, 23rd Ed.2017	250
8	Oil & Grease	mg/Ltr.	BDL	APHA 5520-8, 5-42 to 5-44, 23rd Ed.2017	10
9	*Phenolic Compound	mg/Ltr.	BDL	APHA, 5530-D, 5-52, 23rd Ed.2017	5
10	Sulphides, as S	mg/Ltr.	BDL	APHA 4500-5-2-F 4-187 , 23rd Ed.2017	5
11	Ammonical Nitrogen	mg/Ltr.	4.0	APHA 4500-NH3-C, 4-116, 23rd Ed.,2017	50
12	*Total kieldahl Nitrogen	mg/Ltr.	29	APHA 4500 Nore C. 23rd Ed., 2017	50
13	*Cyanide ,as CN	mg/Ltr.	BDL	APHA 4500-CN, 23rd Ed., 2017	0.2
14	*Fluoride	mg/Ltr.	BDL	APHA 4500-F- C, 4-89 to 4-90, 23rd Ed.2017	15
15	*Nitrate-Nitrogen	mg/Ltr.	18	APHA 4500-NH3-B, 4-112, 23** Ed., 2017	50
16	*Total Residual Chlorine	mg/Ltr.	BDL	APHA 4500 CI- 8, 23 rd Ed., 2017	1.0
17	*Hexavalent Chromium	mg/Ltr.	BDL	APHA 3500 CR B, 23rd Ed.2017	0.1
18	Total Chromlum	mg/Ltr.	0.0223	APHA 3111-Cr-8 3-20 to 3-21, 23rd Ed.2017	0.25



ANALYTICAL RESEARCH LABORATORY

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Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
19	Copper	mg/Ltr.	0.0112	APHA 3111-Cu-8 3-20 to 3-21, 23rd Ed.2017	1.0
20	Nickel	mg/Ltr.	BDL	APHA 3111-Ni-B, 3-20 to 3-21, 23rd Ed. 2017	0.1
21	Zinc	mg/Ltr.	0.8359	APHA 3111-Zn- B, 3-20 to 3-21, 23rd Ed, 2017	1.0
22	*Mercury	mg/Ltr.	BDL	APHA 3112-Hg- B, 3-25 to 3-27, 23rd Ed.2017	0.005
23	Iron	mg/Ltr.	0.3787	APHA 3111-Fe-B, 3-20 to 3-21, 23rd Ed. 2017	3.0
24	Lead	mg/Ltr.	0.0094	APHA 3111-Pb-B, 3-20 to 3-21, 23rd Ed.2017	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3111-AS-B, 23rd Ed.2017	0.05
26	*Cadmium	mg/Ltr.	0.004	APHA 3111-CD B, 23rd Ed.2017	0.025
27	*Vanadium	mg/l.tr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.2
28	*Selenium	mg/Ltr.	BDL	APHA 3500-SE- B-C, 23rd Ed. 2017	0.05
29	*Manganese	mg/Ltr.	0.0196	APHA 3111 A, 23rd Ed. 2017	1.0
30	*Antimony	mg/Ltr.	BDL	APHA 3500 Sb, 23rd Ed. 2017	0.1
-31	*Molybdenum (Mo)	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.35
32	*Phosphate	mg/Ltr.	2.8	APHA ,4500-P-C , 23rd Ed. 2017	5.0
33	*Sulphur	mg/Ltr.	BDL	Elemental Analysis	0.03
_	*Pesticides				1
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
35	Carbonyl	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
36	Copper Sulphate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.05
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23% Edition 2017	9.6
38	DDT	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
39	Dimethoate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.45
40	2,4 D	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.4
41	Endosulfan	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
42	Fenitothrion .	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
43	Malathion	mg/Ltr.	Absent	APHA 23rs Edition 2017	0.01
44	Methyl Parathion	mg/Ltr.	Absent	APHA 23F Edition 2017	0.01
45	Paraquat	mg/Ltr.	Absent	APHA 23 rd Edition 2017	2.3
46	Phenathoate:	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
47	Phorate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01



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	e ID: 4b2b96104f	Report No/Sa	mple ID: 59	36179678	Page: 3 of
48	Proponil	mg/Ltr.	Absent	APHA 23rd Edition 2017	Date: 08-Aug-19
49	Pyrethrums	mg/Ltr.	Absent	APHA 23 st Edition 2017	7.3
50.	Ziram	mg/Ltr.	Absent		0.01
51	Other Pesticide	mg/Ltr.		APHA 23rd Edition 2017	1.0
	(individually)	mg/cu.	Absent	APHA 23rd Edition 2017	0.1
52	*Bio Assay	Observation	90% Fish survive in 100% Effluent after 96 Hrs.	APHA 8910 23rd Edition 2017.	90% Fish survive in 100% Effluent after 96 Hrs.

: Below Detectable Limit

END OF REPORT

For Bharuch Enviro Infrastructure Ltd.

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^{*}Parameters are not covered in NABL scope



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Report No.	/Sample ID: 5936179370	Page: 1 of 3 Report Date: 07-Jul-19			
UPL Limited (Unit-5)		1738 107 100 107 100 100			
Plot No. 750, GIDC Jh Dist.: Bharuch	nagadia,				
Industrial Treated Effluent					
5 Ltr.	Sample Received Date	01-Jul-19			
Discharge Point		As per IS 3025			
By BEIL Team	The second secon	02-Jul-19			
Plastic Carboy	Analysis Completion Date	07-Jul-19			
	UPL Limited (Unit-5) Piot No. 750, GIDC Ji Dist.: Bharuch Industrial Treated El 5 Ltr. Discharge Point By BEIL Team	UPL Limited (Unit-5) Piot No. 750, GIDC Jhagadia, Dist.: Bharuch Industrial Treated Effluent 5 Ltr. Sample Received Date Discharge Point Sampling Procedure By BEIL Team Analysis Start Date			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	pH	-2	8.39	APHA* 4500H+-8, 4-95 to 4-99, 23rd Edition 2017	6.5 to 8.5
2	*Temperature	*C	28.5	APHA 2550 8 23rd Edition 2017	>5 °C above Ambient Water Temperature
3	*Odor	Agreeable	Agreeable	APHA 2150 B, 23rd Ed. 2017	-
4	Calor	Pt. Co. Scale	114.3	APHA 2120 C, 2-7 to 2-8, 23rd Ed, 2017	8
5	Total Suspended Solids	mg/Ltr.	25	APHA-2540-0 2-70 to 2-71, 23rd Ed.2017	100
6	BOD (3 day @27°C)	mg/Ltr.	51	8IS 3025 (part 44)	100
7	COD	mg/Ltr.	172	APHA 5220-B, 5-18 to 5-19, 23rd Ed.2017	250
8	Oil & Grease	mg/Ltr.	BDL	APHA 5520-8, 5-42 to 5-44, 23rd Ed.2017	10
9	*Phenolic Compound	mg/Ltr.	BDL	APHA, 5530-D, 5-52, 23rd Ed.2017	5
10	Sulphides, as S	mg/Ltr.	BDL	APHA 4500-S-2-F 4-187 , 23rd Ed.2017	5
11	Ammonical Nitrogen	mg/Ltr.	7.6	APHA 4500-NH3-C, 4-116, 23rd Ed., 2017	50
12	*Total kjeldahl Nitrogen	mg/Ltr,	39	APHA 4500 Norg C, 23rd Ed., 2017	50
13	*Cyanide ,as CN	mg/Ltr:	BDL	APHA 4500-CN, 23rd Ed., 2017	0.2
14	*Fluoride	mg/Ltr.	BOL	APHA 4500-F- C, 4-89 to 4-90, 23rd Ed 2017	15
15	*Nitrate-Nitrogen	mg/Ltr.	31	APHA 4500-NH3-B, 4-112, 23 th Ed., 2017	50
16	*Total Residual Chlorine	mg/Ltr.	0.82	APHA 4500 CI- B, 23rd Ed., 2017	1.0



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		leport No/S	Sample ID:	5936179370 Report Dat	Page: 2 of 3 e: 07-Jul-19
Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
17	*Hexavalent Chromium	mg/Ltr_	0.0515	APHA 3500 CR B, 23rd Ed.2017	0.1
18	Total Chromium	mg/Ltr.	0.0889	APHA 3111-Cr-8 3-20 to 3-21, 23rd Ed.2017	0.25
19	Copper	mg/Ltr.	0.0961	APHA 3111-Cu-B 3-20 to 3-21, 23rd Ed.2017	1.0
20	Nickel	mg/Ltr.	0.0422	APHA 3111-Ni- B, 3-20 to 3-21, 23rd Ed. 2017	0.1
21	Zinc	mg/Ltr.	0.2188	APHA 3111-Zn- B, 3-20 to 3-21, 23rd Ed.2017	1,0
22	*Mercury	mg/Ltr.	BDL	APHA 3112-Hg- B, 3-25 to 3-27, 23rd Ed,2017	0.005
23	Iron	mg/Ltr.	0.1236	APHA 3111-Fe- B, 3-20 to 3-21, 28rd Ed. 2017	3.0
24	Lead	mg/Ltr.	0.0412	APHA 3111-Pb-8, 3-20 to 3-21, 23rd Ed.2017	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3111-AS-8, 23rd Ed.2017	0.05
26	*Cadmium	mg/Ltr.	BOL	APHA 3111-CD B, 23rd Ed.2017	0.015
27	*Vanadium	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.2
28	*Selenium	mg/Ltr.	BDL	APHA 3500-SE- B-C, 23rd Ed. 2017	0.05
29	*Manganese	mg/Ltr.	0.0164	APHA 3111 A, 23rd Ed. 2017	1.0
30	*Antimony	mg/Ltr.	BDL	APHA 3500 Sb, 23rd Ed. 2017	0.1
31	*Molybdenum (Mo)	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.35
32	*Phosphate	mg/Ltr.	BDL	APHA ,4500-P-C , 23rd Ed. 2017	5.0
_	*Pesticides				
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
35	Carbonyl	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
36	Copper Sulphate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.05
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23 rd Edition 2017	9.6
38	DDT	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
39	Dimethoate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.45
40	2,4 D	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.4
42	Endosulfan	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
43	Fenitothrion Atalashi	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
The second second	Malathion	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
45	Methyl Parathion	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
	Paraquat	mg/Ltr.	Absent	APHA 23 rd Edition 2017	2.3
	Phenathoate Phorate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
41.	riipiate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

(SO 14001 & BS ORSAS 18001 Cartified) at

48	e ID: 769c32e019 Proponil	meport No/		5936179370 Repor	Page: 3 of Date: 07-Jul-19
49	Pyrethrums	mg/Ltr.	Absent	- 101 23 Edibon 2017	
50	Ziram	mg/Ltr.	Absent	APHA 23 rd Edition 2017	7.3
51	Other Pesticide	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
	(individually)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	1.0
52				Cologi 2017	0.1
36	*Bio Assay	Observation	90% Fish	ABULL ON	
ii - Rail	ow Detectable Limit		survive in 100% Effluent after 96 Hrs.	APHA 8910 23rd Edition 2017.	90% Fish survive in 100% Effluent after 96 Hrs.

^{*}Parameters are not covered in NABL scope

END OF REPORT -

For Bharuch Enviro Infrastructure Ltd.

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ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

ISO 14001 & BS DRSAS 16001 Cortilled Laboratory

Page: 1 of 2

Barcode ID: 826abdc46e	Report No/S	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jhagadia, Dist.: Bharuch				
Sample Description	Industrial Treated Effluent				
Sample Quantity	5 Ltr.	Sample Received Date	03-Jun-19		
Sampling Location	Discharge Point	Sampling Procedure	As per IS 3025		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jun-19		
Packing Detail	Plastic Carboy	Analysis Completion Date	10-Jun-19		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	pH	-	6.91	APHA* 4500H+-B, 4-95 to 4-99, 23rd Edition 2017	6.5 to 8.5
2	*Temperature	*C	31.1	APHA 2550 B-23rd Edition 2017	>5 "Cabove Ambiem Water Temperature
3	*Odor	Agreeable	Agreeable	APHA 2150 B, 23rd Ed. 2017	-
4	Color	Pt. Co. Scale	44.0	APHA 2120 C, 2-7 to 2-8, 23rd Ed. 2017	**
5	Total Suspended Solids	mg/Ltr.	63	APHA-2540-0 2-70 to 2-71, 23rd Ed.2017	100
6	BOD (3 day @27°C)	mg/Ltr.	45	BIS:3025 (part 44)	100
7	COD	mg/Ltr.	150	APHA 5220-B, 5-18 to 5-19, 23rd Ed.2017	250
8	Oil & Grease	mg/Ltr.	BOL	APHA 5520-8, 5-42 to 5-44, 23rd Ed.2017	10
9	*Phenolic Compound	mg/Ltr.	0.077	APHA, 5580-D, 5-52, 23rd Ed.2017	5
10	Sulphides, as S	mg/Ltr.	BDL	APHA 4500-S-2-F 4-187 , 23rd Ed.2017	5
11	Ammonical Nitrogen	mg/Ltr.	3.08	APHA 4500-NH3-C, 4-116, 23rd Ed., 2017	50
12	*Total kjeldahl Nitrogen	mg/Ltr.	. 30	APHA 4500 Norg C, 23rd Ed., 2017	50
13	*Cyanide ,as CN	mg/Ltr.	BDL	APHA 4500-CN, 23rd Ed., 2017	0.2
14	*Fluoride	mg/Ltr.	BDL	APHA 4500-F- C, 4-89 to 4-90, 23rd Ed.2017	15
15	*Nitrate-Nitrogen	mg/Ltr.	23	APHA 4500-NH3-8, 4-112, 23 rd Ed., 2017	50
16	*Total Residual Chlorine	mg/Ltr.	0.96	APHA 4500 CI- B, 23 rd Ed.,2017	1.0



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

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Sr. No.	Parameters	Unit	Result	36179110 Report Date Method Ref.	Permissible Limit
17	*Hexavalent Chromium	mg/Ltr.	0.0236	APHA 3500 CR B, 23rd Ed.2017	0.1
18	Total Chromium	mg/Ltr.	0.0938	APHA 3111-Cr-8 3-20 to 3-21, 23rd Ed 2017	0.25
19	Copper	mg/Ltr.	BDL	APHA 3111-Cu-B 3-20 to 3-21, 23rd Ed.2017	1.0
20	Nickel	mg/Ltr	BDL	APHA 3111-Ni-B, 3-20 to 3-21, 23rd Ed. 2017	0.1
21	Zinc	mg/Ltr.	0.1045	APHA 3111-Zn- 8, 3-20 to 3-21, 23rd Ed.2017	1.0
22	*Mercury	mg/Ltr.	BDL	APHA 3112-Hg- B. 3-25 to 3-27. 23rd Ed.2017	0.005
23	Iron	mg/Ltr.	0.3561	APHA 3111-Fe- B, 3-20 to 3-21, 23rd Ed. 2017	3.0
24	Lead	mg/Ltr.	BDL	APHA 3111-Pb-8, 3-20 to 3-21, 23rd Ed.2017	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3111-AS-8, 23rd Ed.2017	0.05
26	*Cadmium	mg/Ltr.	BDL	APHA 3111-CD B, 23rd Ed.2017	0.015
2.7	*Vanadium	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.2
28	*Selenium	mg/Ltr.	BDL	APHA 3500-SE- B-C, 23rd Ed. 2017	0.05
29	*Manganese	mg/Ltr.	0.0096	APHA 3111 A, 23rd Ed. 2017	1.0
30	*Antimony	mg/Ltr.	BDL	APHA 3500 Sb, 23rd Ed. 2017	0.1
31	*Molybdenum (Mo)	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.35
32	*Phosphate	mg/Ltr.	3.3	APHA ,4500-P-C , 23rd Ed, 2017	5.0
33	*Sulphur	mg/Ltr.	BDL	Elemental Analysis	0.03
	*Pesticides				-
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
35	Carbonyl	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
36	Copper Suiphate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.05
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23rd Edition 2017	9.6
38	DDT	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
-39	Dimethoate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.45
40	2,4 D	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.4
41	Endosulfan	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
42	Fenitothrion	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
43	Malathion	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
44	Methyl Parathion	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
45	Paraquat	mg/Ltr.	Absent	APHA 23 rd Edition 2017	2.3
46	Phenathoate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
47	Phorate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

ISO 14881 & B2 OKSAS 18801 Cartified Laboratory

arcod	e ID: 826abdc46e	Report No/Sar	mple ID: 593	36179110 Report I	Page: 3 of 3 Date: 10-Jun-19
48	Proponil	mg/Ltr.	Absent	APHA 23rd Edition 2017	7.3
49	Pyrethrums	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
50	Ziram	mg/Ltr.	Absent	APHA 23 rd Edition 2017	1.0
51	Other Pesticide (individually)	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.1
52	*Bio Assay	Observation	90% Fish survive in 100% Effluent after 96 Hrs.	APHA 8910 23rd Edition 2017.	90% Fish survive in 100% Effluent after 96 Hrs.

BDL: Below Detectable Limit

-- END OF REPORT --

For Bharuch Enviro Infrastructure Ltd.

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^{*}Parameters are not covered in NABL scope



Packing Detail

BEIL INFRASTRUCTURE LIMITED

ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

Plastic Carboy

(SO 1480) & BS OHSAS 18801 Certified Luberatory

Analysis Completion Date

Page: 1 of 2

07-May-19

Barcode ID: 4fb51a1426	Report No/S	Report Date: 09-May-19				
Name of Customer	UPL Limited (Unit-5)					
Address of Customer	Plot No. 750, GIDC Ji Dist.: Bharuch	agadia,				
Sample Description	Industrial Treated Ef	fluent	A STATE OF THE STA			
Sample Quantity	5 Ltr.	Sample Received Date	01-May-19			
Sampling Location	Discharge Point	Sampling Procedure	As per IS 3025			
Sample Collected By	By BEIL Team	Analysis Start Date	02-May-19			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	pH	7	7.05	APHA* 4500H+-B, 4-95 to 4-99, 23rd Edition 2017	6.5 to 8.5
2:	*Temperature	*C	30.3	APHA 2550 B 23rd Edition 2017	>5 °C above Ambient Water Temperature
3	*Odor	Agreeable	Agreeable	APHA 2150 B, 23rd Ed. 2017	-
4	Color	Pt. Co. Scale	19.5	APHA 2120 C, 2-7 to 2-8, 23rd Ed. 2017	
5	Total Suspended Solids	mg/Ltr.	57	APHA-2540-D 2-70 to 2-71, 23rd Ed.2017	100
6	BOD (3 day @27°C)	mg/Ltr.	21	BIS :3025 (part 44)	100
7	COD	mg/Ltr.	80	APHA 5220-8, 5-18 to 5-19, 23rd Ed.2017	250
8	Dil & Grease	mg/Ltr.	BDL	APHA 5520-B, 5-42 to 5-44, 23rd Ed.2017	10
9	*Phenolic Compound	mg/Ltr.	0.065	APHA, 5530-D, 5-52, 23rd Ed.2017	5
10	Sulphides, as 5	mg/Ltr.	BDL	APHA 4500-S-2-F 4-187 , 23rd Ed.2017	5
11	Ammonical Nitrogen	mg/Ltr.	BDL	APHA 4500-NH3-C, 4-116, 23rd Ed., 2017	50
12	*Total kjeldahi Nitrogen	mg/Ltr.	BDL	APHA 4500 Norg C, 23rd Ed.,2017	50
13	*Cyanide ,as CN	mg/Ltr	BDL	APHA 4500-CN, 23rd Ed., 2017	0.2
14	*Fluoride	mg/Ltr.	BDL	APHA 4500-E-C, 4-89 to 4-90, 23rd Ed.2017	15
15	*Nitrate-Nitrogen	mg/Ltr;	14.2	APHA 4500-NH3-B, 4-112, 23 rd Ed.,2017	50
16	*Total Residual Chlorine	mg/Ltr.	0.88	APHA 4500 CI- 8, 23 rd Ed., 2017	1.0



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

Mosf Approved Laboratory

150 14001 5 B3 OHSAS 10001 Cartified Laborator Page: 2 of 3

Sr. No.	Parameters		1000		te: 09-May-1
31.140	7.50 00000000000000000000000000000000000	Unit	Result	Method Ref.	Permissit Limit
17	*Hexavalent Chromium	mg/Ltr	BDL	APHA 3500 CR 8, 23rd Ed.2017	0.1
18	Total Chromium	mg/Ltr.	0.0901	APHA 3111-Cr-9 3-20 to 3-21, 23rd Ed.2017	0.25
19	Copper	mg/Ltr.	0.0571	APHA 3111-Cu-8 3-20 to 3-21, 23rd Ed. 2017	1.0
20	Nickel	mg/Ltr.	BDL	APHA 3111-Ni-B, 3-20 to 3-21, 23rd Ed. 2017	0.1
21	Zinc	mg/Ltr.	0.1050	APHA 3111-2n- 8, 3-20 to 3-21, 23rd Ed.2017	01
22	*Mercury	mg/Ltr.	BDL	APHA 3112-Hg-B, 3-25 to 3-27, 23rd Ed:2017	0.005
23	Iron	mg/Ltr.	0.2520	APHA 3111-Fe- 8, 3-20 to 3-21, 23rd Ed. 2017	3.0
24	Lead	mg/Ltr.	0.0294	APHA 3111-Pb-B; 3-20 to 3-21, 23rd Ed.2017	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3111-AS-B, 23rd Ed 2017	0.05
26	*Cadmium	mg/Ltr.	BDL	APHA 3111-CD B, 23rd Ed.2017	
27	*Vanadium	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.015
28	*Selenium	mg/Ltr.	BOL	APHA 3500-SE-B-C, 23rd Ed. 2017	0,2
29	*Manganese	mg/Ltr.	0.0692	APHA 3111 A, 23rd Ed. 2017	4.4
30	*Antimony	mg/Ltr.	BDL	APHA 3500 Sb, 23rd Ed. 2017	1.0
31	*Molybdenum (Mo)	mg/Ltr.	BDL	APHA 3111 A, 23rd Ed. 2017	0.1
32	*Phosphate	mg/Ltr.	4.5	APHA ,4500-P-C , 23rd Ed. 2017	0.35 5.0
33	*Sulphur	mg/Ltr.	BDL	Elemental Analysis	220
	⁴ Pesticides			200	0.03
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
35	Carbonyl	mg/Ltr.	Absent	APHA 23rd Edition 2017	-
36	Copper Sulphate	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.05
38	DDT	mg/Ltr.	Absent	APHA 23 rd Edition 2017	9.6
	Dimethoate	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
7.7	2,4 D	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.45
	Endosulfan	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.4
	Fenitothrion	mg/Ltr.	Absent	APHA 23 rd Edition 2017	0.01
	Malathion	mg/Ltr.	The second second second	APHA 23 rd Edition 2017	0.01
	Methyl Parathion	mg/Ltr.	The second second second	APHA 23rd Edition 2017	0.01
	Paraquat	mg/Ltr.		APHA 23 th Edition 2017	0.01
	Phenathoate	mg/Ltr.	Absent	APHA 23rd Edition 2017	2.3
7 1	Phorate	mg/Ltr.		APHA 23 rd Edition 2017	0.01
		34	Transcript.	TOTAL ECONOMISTORY	0.01



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MaEF Approved Laboratory

ISO 14001 & BE OHSAS 18001 Certified Laboratory

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Barcod	e ID: 4fb51a1426	Report No/Sar	mple ID: 593	36178880 Report	Date: 09-May-19
48	Proponil	mg/Ltr.	Absent	APHA 23 rd Edition 2017	7.3
49	Pyrethrums	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.01
50	Ziram	mg/Ltr.	Absent	APHA 23rd Edition 2017	01
51	Other Pesticide (Individually)	mg/Ltr.	Absent	APHA 23rd Edition 2017	0.1
52	*Bio Assay	Observation	90% Fish survive in 100% Effluent after 9G Hrs.	APHA 8910 23rd Edition 2017.	90% Fish survive in 100% Effluent after 96 Hrs.

BDL: Below Detectable Limit

END OF REPORT -

For Bharuch Enviro Infrastructure Ltd.

VERIFIED BY

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^{*}Parameters are not covered in NABL scope



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MicEF Approved Enhantery

ISO 14001 & BS DRSAS 10001 Certified Laboratory

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Barcode ID: 7fcb28d9b3	Report No/S	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC Jh Dist.: Bharuch				
Sample Description	Industrial Treated Effluent				
Sample Quantity	5 Ltr.	Sample Received Date	04-Apr-19		
Sampling Location	Discharge Point	Sampling Procedure	As per IS 3025		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail	Plastic Carboy	Analysis Completion Date	12-Apr-19		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*pH	-	7.12	APHA 4500H+-B, 4-92 to 4-96, 23rd Ed., 2012	6.5 to 8.5
2	Temperature	*C	32.2	APHA 2550	>5 °C above Ambient Water Temperature
3	Odor	Agreeable	Agreeable	AS PER APHA	
4	*Color	Pt. Co. Scale	34.4	APHA 2120 C, 2-7 to 2-8, 23rd Ed., 2012	-
5	*Total Suspended Solids	mg/Ltr.	32.8	APHA-2540-D 2-66 to 2-67, 23rd Ed.,2012	100
6	*BOD (3 day @27*C)	mg/Ltr.	65	APAH 5210-B, 5-5 to 5-10, 23rd Ed.,2012 & BIS:3025 (Part 44)	100
7	*COD	mg/Ltr.	219	APHA 5220-B, 5-17 to 5- 18, 23rd Ed., 2012	250
8	*Oil & Grease	mg/Ltr.	BDL	APHA 5520-B, 5-40 to 5- 41, 23rd Ed., 2012	10
9	*Phenolic Compound	mg/Ltr.	0.005	APHA, 5530-D, 5-49 to 5- 50, 23rd Ed, 2012	5
10	*Sulphides, as S	mg/Ltr.	BDL	APHA 4500-5°2-F	5
11	*Ammonical Nitrogen	mg/Ltr.	3,8	APHA 4500-NH3-C, 4-112, 23rd Ed.,2012	50
12	Total kjeldahl Nitrogen	mg/Ltr.	21	APHA, 23rd Ed. 2012	50
13	Cyanide ,as CN	mg/Ltr.	BDL	APHA 4500- CN	0.2
14	*Fluoride	mg/Ltr.	BDL	APHA 4500-F- C, 4-85 to 4-87, 23rd Ed. 2012	15
15	Nitrate-Nitrogen	mg/Ltr.	15.7	APHA 4500-NH3-B, 4-112, 23rd Ed., 2012	50
16	Total Residual Chlorine	mg/Ltr.	0.9	APHA 4500 CI- B	1.0



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

150 14001 & BS OHSAS 10001 Carolled Luburnit Page: 2 of 3

Sr. No.	Parallel San Control	Report No/Sa			ete: 13-Apr-19 Permissibl
Sr. No.	Parameters	Unit	Result	Method Ref.	Limit
17	Hexavalent Chromium	mg/Ltr.	BDL	APHA 3111-Cr-B, 3-18 to 3-20, 23rd Ed. 2012	0.1
18	Total Chromium	mg/Ltr.	BDL	APHA 3111-Cr-B, 3-18 to 3-20, 23rd Ed. 2012	0.25
19	*Copper	mg/Ltr	BDL	APHA 3111-Cu-B 3-18 to 3-20, 23rd Ed. 2012	1.0
20	*Nickel	mg/Ltr.	BDL	APHA 3111-N= B, 3-18 to 3-20, 23rd Ed. 2012	0.1
21	*Zinc	mg/Ltr.	0.1686	APHA 3111-Zn- 8, 3-18 to 3-20, 23rd Ed. 2012	01
22	*Mercury	mg/Ltr.	BDL	APHA 3112-Hg- 8, 3-23 to 3-25, Z3rd Ed. 2012	0.005
23	* Iron	mg/Ltr.	0.1370	APHA 3112, 23rd Ed. 2012	3.0
24	*Lead	mg/Ltr.	0.0385	APHA 3111-Pb-B, 3-18 to 3-20, 23rd Ed. 2012	0.05
25	*Total Arsenic	mg/Ltr.	BDL	APHA 3114-As- B, 3-34 to 3-38, 23rd Ed. 2012	0.05
26	*Cadmium	mg/Ltr.	BDL	APHA 3111-Cd- B, 3-18 to 3-20, 23rd Ed, 2012	0.015
27	Vanadium	mg/Ltr.	BDL	APHA 3111	0.2
28	Selenium	mg/Ltr.	BDL	APHA 3500-Se- B-C, 3-89 23rd Ed. 2012	0,05
29	Manganese	mg/Ltr.	BDL	APHA 4500, 23rd Ed. 2012	1.0
30	Antimony	mg/Ltr.	BDL	APHA 23rd Edition, 2012	0.1
31	Molybdenum (Mo)	mg/Ltr.	BDL	APHA 23rd Edition,2012	0.35
32	Phosphate	mg/Ltr.	3.8	APHA ,4500-PC-E , 4-153, 23rd Ed.,	5,0
33	Sulphur	mg/Ltr.	BDL	APHA 23rd Edition,2012	0.03
34	Benzine Hexachloride (BHC)	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
35	Carbonyl	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
36	Copper Sulphate	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.05
37	Copper Oxychloride	mg/Ltr.	Absent	APHA 23rd Edition,2012	9.6
38	DDT	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
39	Dimethoate	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.45
40	2,40	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.4
41	Endosulfan	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
42	Fenitothrion	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
43	Malathion	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
44	Methyl Parathion	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
45	Paraguat	mg/Ltr.	Absent	APHA 23rd Edition,2012	2.3
46	Phenathoate	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
47	Phorate	mg/Ltr:	Absent	APHA 23rd Edition,2012	0.01



ANALYTICAL RESEARCH LABORATORY

TEST REPORT

MoEF Approved Laboratory

ISO 14001 & BS OHSAS 18001 Certified Laboratory Page: 3 of 3

Barcod	e ID: 7fcb28d9b3	Report No/Sar	nple ID: 593	36178627 Report (Date: 13-Apr-19
48	Proponil	mg/Ltr.	Absent	APHA 23rd Edition,2012	7.3
49	Pyrethrums	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.01
50	Ziram	mg/Ltr.	Absent	APHA 23rd Edition,2012	1
50	Other Pesticide (individually)	mg/Ltr.	Absent	APHA 23rd Edition,2012	0.1
51	Bio Assay	Observation	90% Fish survive in 100% Effluent after 96 Hrs.	APHA 8910 23rd Edition.	90% Fish survive in 100% Effluent after 96 Hrs.

BDL: Below Detectable Limit *Parameters are in NABL scope

END OF REPORT

For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: ed9d8c071b	Report No/Sai	Report Date: 07-Nov-19	
Name of Customer	UPL Limited (Unit-5		
Address of Customer	Plot No. 750, GIDC, Dist.: Bharuch		
Sample Description	Ambient Air Monit		
Sampling Location	Near ETP Sample Received Date		02-Nov-19
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual
Sampling Start Date & Time	01-Nov-19 10:30	Analysis Start Date	03-Nov-19
Sampling End Date & Time	02-Nov-19 10:30	Analysis Completion Date	05-Nov-19
Sampling Duration	24 Hrs	E to W	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	69.4	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	28.4	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	24.9	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	15.1	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters a	re not	covered	in	NABL	scope
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Barcode ID: fd4682f536	Report No/Samp	le ID: 5936180312	Report Date: 12-Oct-19		
Name of Customer	UPL Limited (Unit-5				
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sampling Location	Near Main Gate	Sample Received Date	07-Oct-19		
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual		
Sampling Start Date & Time	05-Aug-19 10:00	Analysis Start Date	08-Oct-19		
Sampling End Date & Time	06-Aug-19 10:00	Analysis Completion Date	09-Oct-19		
Sampling Duration	24 Hrs	Wind Direction	E to W		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	52.3	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	21.8	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	20.4	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	17.5	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 2151f03c76	Report No/Samp	Report Date: 22-Oct-19		
Name of Customer	UPL Limited (Unit-5	5)		
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitoring			
Sampling Location	Near Main Gate	Sample Received Date	17-Oct-19	
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual	
Sampling Start Date & Time	05-Aug-19 10:00	Analysis Start Date	18-Oct-19	
Sampling End Date & Time	06-Aug-19 10:00	Analysis Completion Date	22-Oct-19	
Sampling Duration	24 Hrs	Wind Direction	E to W	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	62.5	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	26.3	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	22.0	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	18.4	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m ³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters a	re not covered in N	IABL scope		
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Barcode ID: ef7aa21dd0	Report No/Sample	Report Date: 17-Sep-19		
Name of Customer	UPL Limited (Unit-5	5)		
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitoring			
Sampling Location	Near Main Gate	Sample Received Date	03-Sep-19	
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual	
Sampling Start Date & Time	02-Sep-19 10:.30	Analysis Start Date	04-Sep-19	
Sampling End Date & Time	03-Sep-19 10:30	Analysis Completion Date	06-Sep-19	
Sampling Duration	24 Hrs	Wind Direction	E to W	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	38.5	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	22.3	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	15.4	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	11.7	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Paramete	ers are not covered in N	ABL scope	
		END OF REPO	ORT
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Barcode ID: fe57bb01cf	Report No/Sam	Page: 1 of 1 Report Date: 29-Sep-19		
Name of Customer	UPL Limited (Unit-5			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitoring			
Sampling Location	Near Main Gate	Sample Received Date	17-Sep-19	
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual	
Sampling Start Date & Time	05-Aug-19 10:00	Analysis Start Date	18-Sep-19	
Sampling End Date & Time	06-Aug-19 10:00	Analysis Completion Date	20-Sep-19	
Sampling Duration	24 Hrs	Wind Direction	E to W	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	45.1	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	18.6	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	16.9	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	15.2	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: faf5fc2154	Report No/Sam	Report Date: 08-Aug-19		
Name of Customer	UPL Limited (Unit-5	5)		
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitoring			
Sampling Location	Near Main Gate	Sample Received Date	05-Aug-19	
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual	
Sampling Start Date & Time	05-Aug-19 10:00	Analysis Start Date	06-Aug-19	
Sampling End Date & Time	06-Aug-19 10:00 Analysis Completion Date		08-Aug-19	
Sampling Duration	24 Hrs	Wind Direction	E to W	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	45.3	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	20.4	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	19.1	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	13.7	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
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Barcode ID: 9ae71d2cb5	Report No/San	Report Date: 27-Aug-19			
Name of Customer	UPL Limited (Unit-5	5)			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sampling Location	Near Main Gate	Sample Received Date	21-Aug-19		
Sample Collected By	By BEIL Team	Sampling Procedure	IS 5182 & Inst. Manual		
Sampling Start Date & Time	05-Aug-19 10:00	Analysis Start Date	22-Aug-19		
Sampling End Date & Time	06-Aug-19 10:00	Analysis Completion Date	26-Aug-19		
Sampling Duration	24 Hrs	Wind Direction	E to W		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	36.5	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	15.0	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	14.7	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	16.4	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameter	s are not covered in NABL scope	
	END OF REPORT	
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Barcode ID: ef0ace094f	Report No/Sai	mple ID:5936179518	Report Date: 23-July-19		
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sample Quantity	01	Sample Received Date	16-July-19		
Sampling Location	Near Main Gate Area	Sampling Procedure	IS 5182 & Inst. Manual		
Sample Collected By	By BEIL Team	Analysis Start Date	17-July-19		
Packing Detail	Analysis Completion Date		20-July-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	65.3	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	26.2	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	21.0	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	15.4	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m ³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Paramete	ers are not covered in NABL scope
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Barcode ID: 81fc790858	Report No/	Report Date: 07-July-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sample Quantity	01	Sample Received Date	02-July-19		
Sampling Location	Near ETP Area	Sampling Procedure	IS 5182 & Inst. Manual		
Sample Collected By	By BEIL Team	Analysis Start Date	03-July-19		
Packing Detail	**	- Analysis Completion Date			
		Fuel	06-July-19		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	58.7	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	25.6	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	23.5	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	19.8	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m ³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not	overed in NABL scope
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Barcode ID: ffa6cf4f5a	Report No/Sa	Report Date: 10-Jun-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sample Quantity	01 Sample Received Date		03-Jun-19		
Sampling Location	Near Main Gate	Sampling Procedure	IS 5182 & Inst. Manual		
Sample Collected By	By BEIL Team	Analysis Start Date	04-Jun-19		
Packing Detail		Analysis Completion Date	10-Jun-19		
		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	65.3	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	31.2	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	35.0	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	25.7	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Paramete	ers are not covered in NABL scope	
		END OF REPORT
		For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 3738d81d6e	Report No/S	Report Date: 21-Jun-19			
Name of Customer	UPL Limited (Unit-5)	Hoport Butc. 21-Juli-13			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch				
Sample Description	Ambient Air Monitoring				
Sample Quantity	01 Sample Received Date		18-Jun-19		
Sampling Location	Near Main Gate				
Sample Collected By	By BEIL Team	DELL Taran			
Packing Detail		Analysis Completion Date	19-Jun-19 21-Jun-19		
		Fuel	-		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	55.4	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	23.6	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	28.0	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	21.3	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m ³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m ³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	20
12	*Benzopyrene (BaP)	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	5.0 1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
END OF REPORT -	
	For Bharuch Enviro Infrastructure Ltd.

ANALYSED BY

VERIFIED BY

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Page: 1 of 1

Barcode ID: 9dc46dbce7	Report No/	Report Date: 09-May-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitor	Ambient Air Monitoring		
Sample Quantity	01	01 Sample Received Date		
Sampling Location	Near Main Gate	Sampling Procedure	IS 5182 & Inst. Manual	
Sample Collected By	By BEIL Team	Analysis Start Date	02-May-19	
Packing Detail		Analysis Completion Date	07-May-19	
		Fuel	-	

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	59.9	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m ³	27.4	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	28.5	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	19.3	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

Parameters	are not covered in NABL scope
	END OF REPORT
	For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 9afff0f872	Report No/Sam	Report Date: 23-May-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitor	ring		
Sample Quantity	01 Sample Received Date		18-May-19	
Sampling Location	Near Main Gate	Sampling Procedure	IS 5182 & Inst. Manual	
Sample Collected By	By BEIL Team			
Packing Detail		Analysis Completion Date	19-May-19 22-May-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	65.2	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	25.6	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	22.7	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	18.2	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	
END OF REPO	DRT
	For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 3390b0fe8c	Report No	Report Date: 25-Apr-19		
Name of Customer	UPL Limited (Unit-5)			
Address of Customer	Plot No. 750, GIDC, Jhagadia, Dist.: Bharuch			
Sample Description	Ambient Air Monitoring			
Sample Quantity	01	01 Sample Received Date		
Sampling Location	Near ETP Area	Sampling Procedure	15-Apr-19 IS 5182 & Inst. Manual	
Sample Collected By	By BEIL Team			
Packing Detail	44	Analysis Completion Date	16-Apr-19 24-Apr-19	
		Fuel		

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	PM ₁₀	μg/m³	75.4	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	PM _{2.5}	μg/m³	42.0	CPCB Guideline –Volume-I	60
3	Sulphur Dioxide (SOx)	μg/m³	35.9	IS: 5182 (Part- 2)-2001	80
4	Oxides of Nitrogen (NOx)	μg/m³	19.9	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	*Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	Lead as Pb	μg/m ³	BDL	CPCB Method (vol.I,may-2011)	1.0
10	Nickel as Ni	ng/m ³	BDL	CPCB Method (vol.I,may-2011)	20
11	*Benzene C ₆ H ₆	ng/m ³	BDL	IS:5182 (part XI) 2006	5.0
12	*Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters are not covered in NABL scope	· ·
	END OF REPORT

For Bharuch Enviro Infrastructure Ltd.

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Barcode ID: 6167a74965	Report No/S	Report Date: 13-Apr-19			
Name of Customer	UPL Limited (Unit-5)				
Address of Customer	Plot No. 750, GIDC, JI Dist.: Bharuch	hagadia,			
Sample Description	Ambient Air Monitoring				
Sample Quantity	01	Sample Received Date	04-Apr-19		
Sampling Location	Near Main Gate	Sampling Procedure	IS 5182 & Inst. Manual		
Sample Collected By	By BEIL Team	Analysis Start Date	05-Apr-19		
Packing Detail		Analysis Completion Date	11-Apr-19		
97-4		Fuel			

Sr. No.	Parameters	Unit	Result	Method Ref.	Permissible Limit
1	*PM ₁₀	μg/m³	58.3	IS: 5182 (Part- 23)-2006 (Reaffirmed 2012)	100
2	*PM _{2.5}	μg/m³	25.7	CPCB Guideline –Volume-I	60
3	*Sulphur Dioxide (SOx)	μg/m³	28.5	IS: 5182 (Part- 2)-2001	80
4	*Oxides of Nitrogen (NOx)	μg/m³	18.3	IS: 5182 (Part- 6)- 2006	80
5	*CO (AIR)	mg/m ³	BDL	NDIR Digital Gas Analyzer.	4.0
6	*Ammonia (AIR)	μg/m³	BDL	CPCB Method (vol.I,may-2011)	400
7	Ozone (O ₃)	μg/m³	BDL	IS: 5182 (Part-IX) 1974	180
8	*Arsenic as As	ng/m³	BDL	CPCB Method (vol.I,may-2011)	6.0
9	*Lead as Pb	$\mu g/m^3$	BDL	CPCB Method (vol.I,may-2011)	1.0
10	*Nickel as Ni	ng/m³	BDL	CPCB Method (vol.I,may-2011)	20
11	Benzene C ₆ H ₆	μg/m³	BDL	IS:5182 (part XI) 2006	5.0
12	Benzopyrene (BaP)	ng/m³	BDL	CPCB Method (vol.I,may-2011)	1.0

BDL: Below Detectable Limit

*Parameters	are in NABL scope		
		END OF REPORT	

For Bharuch Enviro Infrastructure Ltd.

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ANNEXURE – 3

				NNEXURE – 3
		UPL CSR / Unit -5		
		UPL CSR / Progress Report OCTOBE	R'18 to MARC	H'19
S. No	Month	Name of Activity	Unit / No.	Name Of Villages
1	October, 2018	Conducted farmers meeting at Selod & Fulwadi, discussed about winter vegetable crop cultivation and market linkage of the vegetable crop.	44 Farmers	Selod, Fulvadi
		Organized Agriculture training on orchard (WADI) and different vegetable crop. In training given knowledge of crop till sowing to harvesting treatment IPM (Integrated past Management) INM (Integrated Nutarians Management) technological. Participated farmers 25 of Selod villages.	25 Farmers	Selod
		Conducted 3 awareness program in Sardarpura, Fulwadi and Daheda Primary School, Elocution and drawing competition organized on Swachchhata Abhiyan. Total 353 students participated in the three event.	353 studnets	Sardarpura, Fulwadi & Dadheda
		Meeting with SHG (2 Groups & 32 Members)	32 women	Fulvadi & Kharchi
		Organized farmers training on "ZEBA Uses & Benefits" at UPL Niyojaniy, Farmers from Ankleshwar Participated. Also distributed 60 Kgs ZEBA to the Farmers.	40 Farmers	Fulwadi, Selod & Sardarpura
2	November,	Meeting with farmer group at Selod and Fulwadi and discussion on discussion on winter vegetable crop.	30 Farmers	Fulwadi, Selod & Sardarpura
	2018	Exposure visit of farmers to Vikram Farm Vapi	25 Farmers	Fulwadi & Selod
		Exposure visit of farmers to KVK Chaswad	32 Garmers	Fulwadi, Sardarpura & Selod
		Artificial Insemination (AI) under AH project.	73 AI	8 villages
		Meeting with SHG (4 Groups & 45 Members)	3 Villages	Selod, Fulvadi, & Untiya
		Organised farmers meeting on vegetable & cash crop farming	45 farmer	Untiya, selod, fulwadi, Selod
		Crop demonstration on creepier vegetable	2 villages	Sardarpura, & Selod
3	December,	Nature & Energy Conservation in 6 Schools through Puppet Show, Celebrated Signature Campain, Oath Ceremony, more than 600 studnets participated	5 Schools	Fulvadi, selod, Sardarpura, Kharchi, Kapalsadi, Dadheda
	2018	Artificial Insemination (AI) under AH project.	35 AI	8 villages
		40 farmers participated in the celebration "Kisan Divas" at Unit -1, 6 best farmers awarded for best agriculture practices	40 farmers	Fulvadi, Selod, sardarpura
		Meeting with SHG (3 Groups & 45 Members)	3 Villages	Fulvadi, selod, sardarpura

Half Yearly Environmental Clearance Compliance Report by UPL Limited, Unit # 05, Jhagadia, Gujarat Period from Oct'18 to Mar'19

		Organised 4 farmers meeting group at Selod, Sardarpura, Untia and Fulwadi and discussion on formation of Farmers Producer Company (FPO), what are winter vegetable crop, planning on the training on Farmer Producer Organization.	46 farmer	Selod, Sardarpura, Untia and Fulwadi
		Crop demonstration on creepier vegetable (3 Farmers)	3 villages	Sardarpura, Fulwadi & Selod
4	January, 2019	Conducted energy conservation Campaign at Kapalsadi (371), Fulwadi (209), Selod (135), Sardarpura (86), Talodra (110). Students were motivated through Puppet Show on water conservation, maintain hygiene. A total 911 students and 15 teachers, 12 volunteers participated in the campaign.	6 Schools	Fulvadi, selod, Sardarpura, Kharchi, Kapalsadi, Dadheda
		Artificial Insemination (AI) under AH project.	28 AI	9 villages
		Meeting with SHG (4 Groups & 44 Members)	1 Village	Fulvadi
	-			
		Meeting with farmer group at Selod, Sardarpura, Untia and Fulwadi and discussion on formation of Farmers Producer Company (FPO), what are winter vegetable crop, planning on the training on Farmer Producer Organisation.	54 farmer	Selod, Sardarpura, Untia and Fulwadi
		Crop demonstration on creepier vegetable (2 Farmers)	3 villages	Sardarpura, Fulwadi & Selod
		Artificial Insemination (AI) under AH project.	39 AI	9 villages
5	February, 2019	Completed the construction at Dadheda Primary Schools , 290 students will be benefited.	1 Village	Dadheda
		60 students get benefited from the Motivational training to 9th & 10th Students of Kapalsadi High School.	1 Village, 60 Students	Kapalsadi
		Meeting conducted at Sardarpura, Fulwadi, Kharchi on understanding the role of Federation and how a federation can be work in different sector. (4 Groups & 56 Members)	3 Villages	Fulvadi, Sardarpura & Kharchi
		Meeting with farmer group at Selod, Sardarpura, Untia and Fulwadi and discussion on formation of Farmers Producer Company (FPO), NABARD support and benefits, planning on the training on Farmer Producer Organisation.	72 farmers	Selod, Sardarpura, Untia and Fulwadi
6	March, 2019	Crop demonstration on creepier vegetable (3 Farmers)	1 Village	Fulwadi
		Artificial Insemination (AI) under AH project.	42 AI	9 villages
		Meeting conducted with SHGs at Sardarpura, Unitia Fulwadi, Kharchi on understanding the role of Federation and how a federation can be work in different sector. Exploring different opportunities for increasing income. (5 Meetings, 62 Beneficiaries)	4 Villages	Sardarpura, Unitia Fulwadi, Kharchi



750,G.I.D.C., P.B. No. 9, Phone : (02645), 226011-15 Jhagadia 393110 Fax : (02645) 226017-18 Dist. Bharuch, Gujarat.

Mumbai Office: "UNIPHOS" House C.D.Marg, 11th Road, Khar (W), Mumbai,

Phone (022) 26040462, 26041111

Fax : (022) 26040467

Ref: UJH/PRO/17/2007 May 14, 2007

UNITED PHOSPHORUS LTD, Unit # 5 Plot #750, GIDC, Jhagadia, Dist - Bharuch, Gujarat

To, Ministry of Environment and Forests Paryavaran Bhavan CGO Complex, Lodhi Road New Delhi - 110 003

Kind attn :- Dr (Mrs) Sanchita Jindal

Dear Madam;

Sub.: New Pesticides Intermediate and Technical Products and Expansion of Chlor Alkali along with a Captive Power Plant in Existing Unit in GIDC Industrial Estate, Jhagadia, Bharuch, Gujarat by M/s United Phosphorus Ltd. (Additional TORs)

Ref :- MoEF Ref. No. J -11011/325/2006-IA.II(I)

With respect of above mentioned subject and MoEF reference no., we are submitting herewith various clarifications (point by point with bold format) and separate note desired by the Expert Appraisal Committee.

- 1) Fly ash management is poor. Ash can not be left in the disposal pond neither should be in TSDF. Utilization plan as per the Fly Ash Utilization Notification needs to be submitted.
- → We will be utilizing 100 % quantity of ash generated from the Power Plant for making bricks or use in cement industries.
- 2) The unit will be transporting large amount of Hazardous Chemicals by road. It was informed that a separate railway line is being laid down. A note on the same may be provided giving possible date for the same. The unit needs to follow rules for transportation of Hazardous Chemicals under the MVA, 1989.
- → At present, Jhagadia Industrial Estate is connected by road through national highway and state highway. There is a proposal from Jhagadia Industrial Association for connection of rail-line to Jhagadia Industrial Estate. Once the rail-line is available, substantial quantity of raw materials and finished goods will be transported by rail.
- 3) Existing data on compliance of EC, Stack monitoring, ambient air quality etc. may also be asked for.
- → Please find enclosed as Annexure # 1.

- 4) Water requirement and waste water generation is many folds in comparison to the expansion. Justification for the same needs to be provided.
- → With the expansion, the water consumption will be increasing by 10,000 kl per day on full capacity. GIDC has given permission for supply of water. The higher water consumption is mainly due to cooling tower evaporation loss, water going along with product (we are making 48 % Caustic Lye).
- → Waste water generation We have given details of the water balance which is included in the EIA Report. The treated wastewater will be disposed off to the Final Effluent Treatment Plant of BEAIL for further treatment and disposal. We have got membership of BEAIL. The wastewater, after treatment, will be disposed at deep sea.
- 5) Occupational Safety and surveillance program need to be submitted.
- → We are having surveillance program for occupational health and safety. Full fledged safety department is existing in the Unit. Safety department is headed by senior manager. Also, we are having safety officer and other staff required. In the Company, pre-employment and periodical medical examinations are carried out regularly. We also have our own ambulance and fire tender. We have also implemented Occupational Health and Safety Assessment Standards OHSAS 18001. More details of the occupational health and safety are attached as Annexure # 2.
- 6) The quantities of solid and hazardous wastes especially the inorganic wastes may be rechecked and resubmitted.
- → Solid / Hazardous Wastes' generation
 - We have re-worked the solid / hazardous wastes' generation. By oversight, we have included some of the by-product streams also in the EIA / presentation matter which has projected a high quantity of solid / hazardous wastes. The revised detail of hazardous waste generation is given as Annexure # 3. It may be noted that there is a considerable reduction in the generation of hazardous waste quantity, by way of classifying properly the by-products, non hazardous waste, landfillable waste and incinerable waste. The additional generation of non hazardous waste (brine sludge) quantity is 8,945 MT / Year; hazardous waste quantity for secured landfilling is 14937 MT / Year and quantity of incinerable waste will be 7066 MT / Year. Inorganic waste for secured landfilling consists of inorganic salt and ETP sludge.
- 7) A note on safety measures for the solvent and reactants storage.
- → For proposed expansion, following points will be considered for the solvent and reactants storage.
- (a) Provision of flame proof electrical equipment
- (b) Dyke wall enclosure

- (c) Fire hydrant, foam pouring
- (d) Fire extinguishers, foam trolley
- (e) Safety shower & eye wash fountain
- (f) Separate fencing, isolated storage area
- (g) Bonding & double earthling
- (h) Another hazardous chemical (i.e. CS₂), it will be stored under water, with all the required safety precautions.
- (i) Provision of Smoke detectors & continuous monitoring sensors
- (j) Carry out HAZOP Study through external team consisting of experts before commission.
- 8) Data on Fugitive emissions on strategic points. Measured concentration of solvents (HC and VOC), Cl2, CS2 etc. in the storage area.
- → For existing product manufacturing, we are not using any volatile organic compound as raw material. We are monitoring fugitive emissions, HC and Cl2 in existing scenario.
- → We have provided 14 Cl2 sensors at our Chlor Alkali plants which gives indication at our DCS
- → High volume samplers are also provided at strategic locations to monitor emissions, which we are doing twice in a week and records of the same are available in Annexure # 1.
- → After proposed expansion, we will be monitored VOC & CS2 also.
- 9) The Lignite may not be used as it has more sulphur content and if enough gas is available, it may be continued. A confirmation for the same may be submitted.
- → For proposed boiler is designed for coal fired and our main fuel is imported coal. If there is shortage of imported coal, we will be used the lignite. At the same time our boiler is designed for fuel as lignite. We have considered the stack height as per CPCB guideline.

We hope that the above details will be sufficient for processing our application for Environmental Clearance. In case you need any additional information, we can furnish the same on hearing from you.

Thanking you

Yours faithfully For, United Phosphorus Ltd

RAJESH SHARMA

General Manager (Works)

Encl: a/a

F. No. J-11011/80/2015-IA-II(I) Government of India Ministry of Environment, Forest and Climate Change (IA Division)

Indira Paryavaran Bhawan Jor Bagh Road, N Delhi - 3 Dated: 5th April. 2018

To.

M/s UPL Ltd (Unit-V)
Plot No. 750 & 746, GIDC Jhagadia,
District Bharuch-393110 (Gujarat)

Sub: Expansion of agro and other organic chemicals manufacturing unit by M/s UPL Ltd (Unit-V) at plot No.746&750, Jhagadia Industrial Estate, Taluka Jhagadia, District Bharuch (Gujarat) - Environmental Clearance - reg.

Ref: Online proposal no. IA/GJ/IND2/27263/2015 dated 4th January, 2017

Sir,

This has reference to your online proposal No.IA/GJ/IND2/27263/2015 dated 4th January, 2017 along with project documents namely, EIA/EMP Report for the above mentioned project.

- 2. The Ministry of Environment, Forest and Climate Change has examined the proposal for grant of environmental clearance to the project for expansion of agro and other organic chemicals manufacturing unit by M/s UPL Ltd (Unit-V) in a total plot area of 886286.42 sqm, located at plot No.746 & 750, Jhagadia Industrial Estate, Taluka Jhagadia, District Bharuch (Gujarat).
- 3. Different products/by-products, existing and the proposed are reported to be as under:-

S. No.	Product	CAS No.	Existing (MTPM)	Proposed (MTPM)	Total (MTPM)	Category
Α	. Products requiring Environ	mental Clearanc	e	<u> </u>		
1	Mancozeb	8018-01- 07	4000	8333.33	11633.33	Pesticide
2	Antracol	12071- 83-9	4000	1000	1700	Pesticide
3	Pendimethalin	40487- 42-1	400	833.33	1233.33	Pesticide
4	Glufosinate	77182- 82-2	550	1250	1700	Pesticide
5	Glyphosate	38641- 94-0	550	NIL	100	Pesticide
6	CS ₂ (Carbon Di Sulfide)	000075- 15-0	3000	3750	6750	Pesticide Intermediate
7	S Metolachlor	87392- 12-9	200	1666.67	1866.67	Pesticide
8	Acephate	30560- 19-1	800	1666.67	2466.67	Pesticide
9	Acrolein	107-02-8	NIL	666.67	666.67	Pesticide Intermediates

Page 1 of 10

10	CCITM (Di Methyl Cyaniominodithio Carbonate)	10191- 60-3	NIL	167.67	167.67	Pesticide Intermediate
11	Tri Ethyl Phosphite	122-52-1	NIL	1000	1000	Pesticide Intermediates
12	CS₂ based Products					
12.1	Potassium Ethyl Xanthate	140-89-6				
12.2	Sodium isopropyl Xanthate	140-93-2				
12.3	Potassium isopropyl Xanthate	140-93-1				
12.4	Potassium amyl Xanthate	2720-73- 2				Intermediates
12.5	1,6-Bis (N,N- dibenzylthiocarbamyldithio)hexane (Rubber Chemicals)	151900- 44-6	NIL	833.33	833.33	Chemicals
12.6	1-METHYLAMINO-1- METHYLTHIO-2-NITROETHENE (Pharma Intermediates)	61832- 41-5				
13	Clomazone	81777- 89-1	NIL	416.67	416.67	Pesticide
14	Mesotrione	104206- 82-8	NIL	416.67	416.67	Pesticide
15	Flonicamide (IKI220)	158062- 67-0	NIL	166.67	166.67	Pesticide
	H₂S based Products					
16	Di Methyl Sulfoxide (DMSO)	67-68-5	NIL	1250	1250	Chemical Intermediates
	156 TPD caustic Chlorine Plant					
4.7	1) caustic soda lye 48% (on 100 % basis)	1310-73- 2	15180	NIL	15180	
17	2) Chlorine Gas	7782-50- 5	12509	NIL	12509	Chlor Alkali
	3) Hydrogen Gas	1333-74- 0	488	NIL	488	Industry
	4) Hydrochloric Acid 30%	7647-01- 0	3825	NIL	3825	
18	Power plant		87.5 MW /	NIL	87.5MW/Hrs	1(d) Power
10	(Electrical Power)	NA	HR	INIL	OT.SIVIVV/FITS	Plant
	Phenyl Di IsoDecylPhosphite OR	25550- 98-5				
19	Tri DecylPhosphite (TDP) OR	2929-86- 4	100	NIL	100	Chemical Intermediates
	Tris Tri IsoDecylPhosphite (TTDP)	77745- 66-5				
	Tris Tri IsoDecylPhosphite (TTDP) Di Phenyl Methyl Phosphonate OR	L .	200 OR		200 OR	
20	Di Phenyl Methyl Phosphonate	66-5 7526-26-	200 OR 200 OR	NIL	200 OR 200 OR	Chemical Intermediates
20	Di Phenyl Methyl Phosphonate OR	66-5 7526-26- 3		NIL		

21	Fosthiazate (IKI 1145)	98886- 44-3	250	NIL	250	Pesticide
22	Dichloro Vinyl Acid Chloride (DVACL)	5231 4 - 67-7	300	NIL	300	Pesticide Intermediate
	N Alkylated XyledeneOR	1330-20- 7	300		300	
	HRT Ketone OR	108-10-1	200		200	-
23	2 Ethyl 6 Methyl N NANILineOR	24549- 06-2	300	NIL	300	Pesticide Intermediate
	Meta Phenoxy Benzyl Alcohol (MPBAL)	13826- 35-2	300		300	
24	Tebuconazole	107534- 96-3	200	NIL	200	Pesticide
25	Acifluorfen	50594- 66-6	500	NIL	500	Pesticide
26	Cypermethrin	52315- 07-8	500	NIL	500	Pesticide
27	Permethrin	52645- 53 - 1	300	NIL	300	Pesticide
28	Tri Phenyl Phosphite	101-02-0	300	NIL	300	Chemical Intermediates
	Total		43902	23418.68	67319.68	
В	. Products not requiring Environm		ance	Y ¹³ ************************************		
29	NaHS (40%) Solution	1310-73- 2	NIL	2500	2500	Specialty Chemicals
30	Na2S solution	1313-82- 2	NIL	2500	2500	Specialty Chemicals
31	Na2S Solid	1313-82- 2	NIL	2500	2500	Specialty Chemicals
32	Liquid Formulation Products (Pendimethalin, Glufosinate, S Metolachlor, Clomazone, Mesotrione, Acifluorfen, Cypermethrin, Permethrin)		NIL	4166.67	4166.67	Pesticide Formulation products
33	Solid Pesticide Formulation products (Mancozeb, Antracol, Glyphosate, Acephate, Flonicamide, Fosthiazate, Tebuconazole)		NIL	7083.33	7083.33	Pesticide Formulation products
34	PCL ₃ Plant	7719-12-	2550	NIL	2550	Specialty
	(Phosphorous Tri Chloride)	2				Chemicals
35	Phosphorous	7723-14- 0	900	NIL	900	Specialty Chemicals
200	Phosphorus Acid	13598- 36-2	450	NIII	450	Specialty
36	Tri butyl phosphate (TBPO)	126-73-8	150	NIL	150	Chemicals
	Tri Iso butyl Phosphite (TIBP)	126-71-7				
37	Phosphorous Penta Chloride (PCl ₅)	10026- 13-8	200	NIL	200	Specialty Chemicals
38	Phosphorous Oxychloride (POCI3) OR	10025- 87-3	250 OR	NIL	250 OR	Specialty Chemicals
		1				Page 3 of 10

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	Phosphorous Thiochloride (PSCI3)	3982-91- 0	200		200	
	Pesticide Formulation Products			** ,		
	Iso Propyl Amine Salt of Glyphosate Formulation		2600	NIL	2600	Pesticide
39	Ammonium Salt of Glyphosate Formulation		2600	NIL	2600	Formulation
	Sodium Salt of Aceflorofen Formulation		1500	NIL	1500	
40	MNSO4 (MAGANESE Sulphate) Solution 31%	10124- 55-7	10000	NIL	10000	Intermediates Chemicals
	Total		20750	18750	39500	

C. By-products

S. No.	By Product	NOC (available) (TPM)	CC&A Available (TPM)	Additional (TPM)	Total (TPM)
1	HCl solution	94.8	2732.02	440	3266.82
2	Dilute Sulphuric Acid	262.5	1655	1250	3167.5
3	Sodium sulphate (Powder) Or	-	4092	9066.75	13158.75
3.a	Sodium Sulphate Solution	-	15680	35895.67	51575.67
4	Mn(OH) ₂ (manganese Hydroxide)	-	236	492	728.00
5	Zn(OH) ₂ (Zinc Hydroxide)	-	39	9.75	48.75
6	NaSH solution	-	1876	16418.08	18294.08
7	Magnesium Chloride Solution	-	2070	4702.5	6772.50
8	Ammonium Acetate Or	464	NIL	3926.67	4390.67
8.a	Acetic Acid & Ammonium Sulphate or	-	NIL	4633.33	4633.33
8.b	Ammonium sulphate & Sodium Acetate (30%	-	NIL	5920.00	5920.00
9	Ammonium Chloride (Powder) Or	-	1034.25	3676.5	4710.75
9.a	Anhydrous Ammonia or	-	NIL	415.00	415.00
9.b	20 % AQ Ammonia or	-	NIL	2075.00	2075.00
9.c	CaCl ₂ SOL or	-	NIL	4800.00	4800.00
9.d	CaCl ₂ POWDER	-	NIL	1600.00	1600.00
10	METHYL MERCAPTANT	-	NIL	295.83	295.83
11	Sodium Bisulphite SOL	-	NIL	1276.58	1276.58
12	ETHANOL	<u>-</u>	NIL	37.83	37.83
13	Spent Solvent (MDC)	-	NIL	208.33	208.33



14	Sodium Hypochlorite	525	225	NIL	750
15	Ferrous Phosphorous	-	150	NIL	150
16	Calcium Silicate	-	6000	NIL	6000
17	Tri Phenyl Phosphate (TPPA)	-	66.51	NIL	66.51
18	Ammonium Sulphate Solution	-	3600	NIL	3600
19	Ammonium Sulphate Solid	-	750	NIL	750
20	Ethylene Chloride	-	44.5	NIL	44.5
21	Ammonium Hydroxide (20%)	~	116.75	NIL	116.75
22	POCI ₃	-	400	NIL	400
23	Sodium Sulphite	-	1200	NIL	1200
24	PTSA	-	94	NIL	94
25	Acetic Acid	1185	NIL	NIL	1185
26	Ammonia solution	-	118*		118*
27	Ammonium Chloride	-	348*		348*
28	Steam	-	60	NIL	60

- **4.** Existing land area is 886286.42 sqm and no additional land will be required for the proposed expansion. Green belt will be developed in an area of 221571.6 sqm. The estimated project cost is Rs.1923.68 crore. Total capital cost earmarked for pollution control measures is Rs.69.4 crore and the recurring cost (O&M) will be about Rs.1.40 Crore per annum.
- 5. There are no National Parks, Wildlife Sanctuaries, Biosphere, Reserves, Tiger/Elephant Reserves, and Wildlife Corridors etc within 10 km of the project site. Kaveri river is flowing at a distance of 2.97 km in the North.
- **6.** Fresh water requirement will be 10,000 cum/day, proposed to be met from GIDC supply. Treated effluent of 3000 cum/day will be discharged to the conveyance system of M/s Narmada Clean Tech Ltd for disposal to deep sea.

Power requirement after expansion will be increased from 21 MWH to 71 MWH, proposed to be sourced from DGVCL & Captive power plant respectively. Existing unit has five DG sets of 625 kVA, 750 kVA, 1250 kVA, 1000 kVA, 320 kVA capacity. More six DG sets of 1000 kVA each shall be used as standby during power failure. Stack of 20 m height will be provided as per CPCB norms to the proposed DG sets of 1000 KVA.

One new Natural Gas/Coal/Biomass/briquettes fired boiler of 150 TPH will be equipped with bunker bay, ESP and stack of 100 m height to control the particulate emissions. Two stage water scrubbers with 30 m stack height shall be provided for control of process emissions of ammonia, HCL and SO₂ emissions separately.

Spent filter material, spent catalyst will be sent to Common Hazardous Wastes Incineration Facility (CHWIF). Insulation waste, non recyclable plastic waste, used PPE, and incineration ash will be sent to TSDF. Contaminated cotton waste will be sent to TSDF/incineration site.

- 7. The project/activities are covered under category A of item 5(b) 'Pesticides industry and pesticide specific intermediates (excluding formulation)' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.
- **8.** The ToR for the project was granted on 13th July, 2015 followed by amendment therein on 31st August, 2015, providing exemption from public hearing.
- 9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held during 8-9 December, 2016, 27-28 February, 2017, 17-18 April, 2017 and 20-22 December, 2017. The project proponent and their accredited consultant M/s Siddhi Green Excellence Pvt Ltd presented EIA/EMP report as per the ToR. The EAC found the EIA/ EMP report to be satisfactory and in consonance with the presented ToR. The Committee has recommended the proposal for grant of environmental clearance.
- 10. Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to project 'Expansion of Agro and other Organic Chemicals' manufacturing unit by M/s UPL Ltd (Unit-V) in a total plot area of 886286.42 sqm, located at plot No.746&750, Jhagadia Industrial Estate, Taluka Jhagadia, District Bharuch (Gujarat), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to the compliance of the terms and conditions as under:
- (a) The project proponent shall take stringent mitigating measures to minimize the incremental concentration of air pollutants (mainly PM_{10} & $PM_{2.5}$) to the extent possible due to the proposed industrial operations.
- (b) The project proponent shall develop local air quality management plan in consultation with SPCB and implemented to achieve desired standards.
- (c) The incremental ground level concentrations for PM_{10} , $PM_{2.5}$, SO_2 & NO_x due to the increased vehicular and other allied/developmental activities, shall be analysed and reported for actual impact of the project, besides remedial measures.
- (d) National Emission Standards for Pesticide Manufacturing and Formulation Industry issued by the Ministry vide G.S.R. 46(E) dated 3rd February, 2006 and amended time to time shall be followed by the unit.
- (e) Natural Gas/imported coal with less than 5% sulphur content/Biomass/briquettes shall be used as fuel source for One no. new boiler of 150 TPH. Two stage water scrubbers with 30 m stack height shall be provided for control of process emissions of ammonia, HCl and SO₂ emissions separately.
- (f) Two stage water scrubber followed by alkali scrubber shall be provided to process vent to control process emissions viz. HCl, SO₂, Cl₂, NO_x, HBr. Acidic scrubber shall be provided to process vent to control process emissions viz. NH3 & HC. The scrubbed water should be sent to ETP for further treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with online detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system should be interlocked with the pollution control equipment so that in case of any increase in pollutants beyond permissible limits, plant should be automatically stopped.

- (g) In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records maintained.
- (h) For further control of fugitive emissions, following steps shall be followed:
 - Closed handling system shall be provided for chemicals.
 - Reflux condenser shall be provided over reactor.
 - System of leak detection and repair of pump/pipeline based on preventive maintenance.
 - The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.
 - Cathodic protection shall be provided to the underground solvent storage tanks.
- (i) A proper Leak Detection and Repair (LDAR) Program for pesticide unit shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.
- (j) Company shall take all the measures in order to protect the machineries and equipments for pesticide producing unit from ageing.
- (k) Continuous monitoring system for chlorine, HCl as well as VOCs shall be installed at all important places/areas. Effective measures shall be taken immediately, when monitoring results indicate above the permissible limits. Alarm for chlorine leakage if any in the liquid chlorine storage area is provided along with automatic start of the scrubbing system.
- (I) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- (m) Solvent management shall be carried out as follows:
 - Chilled brine circulation system shall be provided to condensate solvent vapors and reduce solvent losses, ensuring that solvent recovery should not be less than 95%.
 - Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
 - The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery
 - Solvents shall be stored in a separate space specified with all safety measures.
 - Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. vi. Entire plant shall be flame proof. The solvent storage tanks should be provided with breather valve to prevent losses.
- (n) Fresh water demand after the proposed expansion should be limited to 17,000 cum/day to 10,000 cum/day and prior permission should be obtained from the competent authority.
- (o) The effluent shall be segregated into cyanide stream and High TDS/COD effluent streams. Cyanide effluent stream will be treated with sodium hypochlorite in alkaline medium. High TDS/COD effluent stream will be passed through steam stripper followed by concentrated

in MEE. MEE condensate will be treated in the ETP. Treated effluent from ETP will be passed through RO. RO permeate will be recycled/reused within plant premises. Domestic sewage should be treated in STP. Water quality of treated effluent should meet the norms prescribed by CPCB/SPCB.

- (p) The industry will reduce the effluent quantity from 4,768 KL/Day to 3,000 KL/Day by adopting recycle/reuse. Treated effluent will be discharged to Conveyance System of Narmada Clean Tech and disposed to deep sea.
- (q) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (r) Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps.
- (s) The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous & Other Wastes (Management & Trans-Boundary Movement) Rules 2016 and amended as on date for management of Hazardous wastes and prior permission from GPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.
- (t) ETP sludge, inorganic waste shall be sent to TSDF site. High calorific value waste such as spent organic shall be sent to cement factory/incinerated.
- (u) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 11989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (v) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (w) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (x) 10 m wide Green belt of perennial trees like neem, seasam, teak etc should be developed inside along the plant periphery to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.
- (y) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner within 5 years.
- **10.1** The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-
- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

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- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry, a fresh reference shall be made to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
- (v) 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).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. 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.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

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- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.
- (xv) 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://moef.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.
- 11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not found to be satisfactory.
- 12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- 13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.

(S. K. Srivastava)
Scientist E

Copy to:-

- 1. The APCCF, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, **Bhopal**-462016 (MP)
- 2. The Principal Secretary, Environment Department, Government of Gujarat, Block 14, 8th floor, Sachivalaya, **Gandhinagar**-382 010 (Gujarat)
- 3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi 32
- **4.** The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382 010, Gujarat.
- **5.** Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi**

6. Guard File/Monitoring File/Record File

(S. K. Srivastava) Scientist E

HAZARDOUS AND OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES, 2016 COMPLIANCE

<u> </u>	COMPLIAN	
RULE NO.	CONDITIONS OF RULE	COMPLIANCE
CHAPT	TER I - PRELIMINARY	
1.	Short title and commencement	
	 (1) These rules may be called the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. (2) They shall come into force on the date of their publication in the Official Gazette. 	Noted.
2.	Application	
	These rules shall apply to the management of hazardous and other wastes as specified in the Schedules to these rules but shall not apply to - (a) waste-water and exhaust gases as covered under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder and as amended from time to time; (b) wastes arising out of the operation from ships beyond five kilometres of the relevant baseline as covered under the provisions of the Merchant Shipping Act, 1958 (44 of 1958) and the rules made thereunder and as amended from time to time; (c) radio-active wastes as covered under the provisions of the Atomic Energy Act, 1962 (33 of 1962) and the rules made thereunder and as amended from time to time; (d) bio-medical wastes covered under the Bio-Medical Wastes (Management and Handling) Rules, 1998 made under the Act and as amended from time to time; and (e) wastes covered under the Municipal Solid Wastes (Management and Handling) Rules, 2000 made under the Act and as amended from time to time.	Noted.
3.	Definitions	
J.	(1) In these rules, unless the context otherwise requires,-	
	1. "Act" means the Environment (Protection) Act, 1986 (29 of 1986);	Noted.

- 2. "actual user" means an occupier who Noted. procures and processes hazardous and other waste for reuse, recycling, recovery, pre-processing, utilisation includina coprocessing:
- 3. "authorisation" means permission for generation. handling, collection, reception, treatment, transport, storage, reuse, recycling, recovery, preprocessing, utilisation including processing and disposal of hazardous wastes granted under sub-rule (2) of rule 6:
- 4. "Basel Convention" means the United Programme Nations Environment Convention Control on the Transboundary Movement of Hazardous Wastes and their Disposal:
- "captive treatment, storage and disposal facility" means a facility developed within the premises of an occupier for treatment, storage and disposal of wastes generated during manufacture, processing, treatment, package, storage, transportation, use, collection. destruction, conversion. offering for sale, transfer or the like of hazardous and other wastes;
- 6. "Central Pollution Control Board" means the Central Pollution Control Board constituted under sub-section (1) of section 3 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974); 7. "common treatment, storage and
- disposal facility" means a common facility identified and established individually or jointly or severally by the State Government, occupier, operator of a facility or any association of occupiers that shall be used as common facility by multiple occupiers or actual users for treatment, storage and disposal of the hazardous and other wastes:
- 8. "co-processing" means the use of waste materials in manufacturing processes for the purpose of energy or resource recovery or both and resultant reduction in the use of conventional fuels or raw materials or both through substitution:
- 9. "critical care medical equipment" means life saving equipment and includes such equipment as specified by the Ministry of Health and Family Welfare from time to time:

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

10. "disposal" means any operation which does not lead to reuse, recycling, utilisation including recovery, processing and includes physicochemical treatment, biological treatment, incineration and disposal in secured landfill;

grammatical 11. "export", with its variations and cognate expressions, means taking out of India to a place outside India:

12. "exporter" means any person or occupier under the jurisdiction of the exporting country who exports hazardous or other wastes, including the country which exports hazardous or other waste;

13. "environmentally sound management of hazardous and other wastes" means taking all steps required to ensure that the hazardous and other wastes managed in a manner which shall protect health and the environment against the adverse effects which may result from such waste:

14. "environmentally sound technologies" means any technology approved by the Central Government from time to time;

15. "facility" means any establishment wherein the processes incidental to the generation. handling, collection, reception, treatment, storage, reuse, recycling, recovery, preprocessing,

co-processing, utilisation and disposal of hazardous and, or, other wastes are carried out:

16. "Form" means a form appended to these rules:

17. "hazardous waste" means any waste which by reason of characteristics such biological, physical, chemical, reactive, toxic, flammable, explosive or corrosive, causes danger or is likely to cause danger to health or environment. whether alone or in contact with other wastes or substances, and shall include -(i) waste specified under column (3) of

Schedule I;

(ii) waste having equal to or more than the concentration limits specified for the constituents in class A and class B of Schedule II or any of the characteristics as specified in class C of Schedule II; and (iii) wastes specified in Part A of Schedule III in respect of import or export of such wastes or the wastes not specified in Part Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

A but exhibit hazardous characteristics specified in Part C of Schedule III; 18. "import", with its grammatical variations and cognate expressions, means bringing into India from a place outside India;	Noted.
19. "importer" mean any person or occupier who imports hazardous or other waste:	Noted.
20. "manifest" means transporting document prepared and signed by the sender authorised in accordance with the provisions of these rules;	Noted.
21. "occupier" in relation to any factory or premises, means a person who has, control over the affairs of the factory or the premises and includes in relation to any hazardous and other wastes, the person in possession of the hazardous or other waste:	Noted.
22. "operator of disposal facility" means a person who owns or operates a facility for collection, reception, treatment, storage and disposal of hazardous and other wastes:	Noted.
23. "other wastes" means wastes specified in Part B and Part D of Schedule III for import or export and includes all such waste generated indigenously within the country;	Noted.
24. "pre-processing" means the treatment of waste to make it suitable for coprocessing or recycling or for any further processing;	Noted.
25. "recycling" means reclamation and processing of hazardous or other wastes in an environmentally sound manner for the originally intended purpose or for other purposes;	Noted.
26. "reuse" means use of hazardous or other waste for the purpose of its original use or other use;	Noted.
27. "recovery" means any operation or activity wherein specific materials are recovered;	Noted.
28. "Schedule" means a Schedule appended to these rules;	Noted.
29. "State Government" in relation to a Union territory means, the Administrator thereof appointed under article 239 of the Constitution;	Noted.
30. "State Pollution Control Board" means	Noted.

the State Pollution Control Board constituted under section 4 of the Water (Prevention and Control of Pollution) Act,

1974 (6 of 1974) and includes, in relation to a Union territory, the Pollution Control Committee;

- 31. "storage" mean storing any hazardous or other waste for a temporary period, at the end of which such waste is processed or disposed of;
- 32. "transboundary movement" means any movement of hazardous or other wastes from an area under the jurisdiction of one country to or through an area under the jurisdiction of another country or to or through an area not under the jurisdiction of any country, provided that at least two countries are involved in the movement;
- 33. "transport" means off-site movement of hazardous or other wastes by air, rail, road or water;
- 34. "transporter" means a person engaged in the off-site transportation of hazardous or other waste by air, rail, road or water:
- 35. "treatment" means a method, technique or process, designed to modify the physical, chemical or biological characteristics or composition of any hazardous or other waste so as to reduce its potential to cause harm;
- 36. "used oil" means any oil-
- (i) derived from crude oil or mixtures containing synthetic oil including spent oil, used engine oil, gear oil, hydraulic oil, turbine oil, compressor oil, industrial gear oil, heat transfer oil, transformer oil and their tank bottom sludges; and
- (ii) suitable for reprocessing, if it meets the specification laid down in Part A of Schedule V but does not include waste oil;
- 37. "utilisation" means use of hazardous or other waste as a resource;
- 38. "waste" means materials that are not products or by-products, for which the generator has no further use for the purposes of production, transformation or consumption.

Explanation.- for the purposes of this clause.

(i) waste includes the materials that may be generated during, the extraction of raw materials, the processing of raw materials into intermediates and final products, the consumption of final products, and through other human activities and Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

Noted.

excludes residuals recycled or reused at the place of generation; and (ii) by-product means a material that is not intended to be produced but gets produced in the production process of intended product and is used as such; 39. "waste oil" means any oil which Noted. includes spills of crude oil, emulsions, tank bottom sludge and slop oil generated from petroleum refineries, installations or ships and can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule V either as such or after reprocessing. (2) Words and expressions used in these rules and not defined but defined in the Act shall have the meanings respectively assigned to them in the Act. CHAPTER II - PROCEDURE FOR MANAGEMENT OF HAZARDOUS AND OTHER **WASTES** Responsibilities of the occupier for management of hazardous and 4. other wastes.-(1) For the management of hazardous The unit follows steps prescribed in the namely, and other wastes, an occupier shall follow rules prevention, the following steps, namely: minimization: and safe disposal of (a) prevention; generated hazardous waste (b) minimization; authorized common TSDF - Bharuch (c) reuse, Enviro Infrastructure Ltd. (BEIL) (d) recycling; Ankleshwar or given to approved end (e) recovery, utilization including user based on applicability. co-processina: (f) safe disposal. (2) The occupier shall be responsible for The unit practices safe and environmentally sound environmentally sound management safe and management of hazardous and other by safely collecting wastes, storing the wastes in separate storage areas and wastes. transporting to the common TSDF facility of BEIL, Ankleshwar. (3) The hazardous and other wastes The unit generates hazardous and generated in the establishment of an other wastes and sends to an occupier shall be sent or sold to an authorized actual user having valid authorised actual user or shall be approval as per rule 9 or is sent to disposed of in an authorised disposal Common Hazardous facility. Treatment Facility - BEIL Ankleshwar for disposal through Incineration or Landfilling. The copy of Membership of BEIL. Ankleshwar is attached as

Annexure 05.

	 (4) The hazardous and other wastes shall be transported from an occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules. (5) The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a 	Based on applicability, UPL Unit 5 transports hazardous and other waste safely to authorised actual user or authorised TSDF, BEIL Ankleshwar in accordance with the provision in these rules. The UPL Unit 5 is authorised for collection, storage, transportation of Hazardous waste by GPCB Vide CCA No – AWH-102834. Complied. The unit provides details of hazardous and other wastes to be treated and
	treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.	disposed of in form 8 and Form 10. The copy of Form 8 & Form 10 is attached as Annexure - 6 & 8.
	(6) The occupier shall take all the steps while managing hazardous and other wastes to (a) contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.	The unit has implemented safe collection practices of Hazardous wastes and separate confined hazardous waste storage area for temporary storage of Hazardous waste. The unit has prepared On-site Emergency plan covering all activities including hazardous waste management accidents. The unit also provides appropriate training like Safety Training level 0, 1, and 2, operational training, etc. to the persons working in site. Also, appropriate PPEs are provided for the persons to work safely. The attendance sheet of training for water and wastewater plant operation with inclusion of Hazardous waste management is attached as Annexure - 1
5.	Responsibilities of State Government for environmentally sound management of hazardous and other wastes. –	NOT APPLICABLE
(1)	Department of Industry in the State or any other government agency authorised in this regard by the State Government, to ensure earmarking or allocation of industrial space or shed for recycling, preprocessing and other utilization of hazardous or other waste in the existing and upcoming industrial park, estate and industrial clusters;	NOT APPLICABLE
(2)	Department of Labor in the State or any other government agency authorised in	NOT APPLICABLE

	this regard by the State Government shall, -	
	(a) ensure recognition and registration of workers involved in recycling,	
	preprocessing and other utilization activities;	
	(b) assist formation of groups of such	
	workers to facilitate setting up such facilities;	
	(c) undertake industrial skill development activities for the workers involved in	
	recycling, pre-processing and other utilization;	
	(d) undertake annual monitoring and to ensure safety and health of workers	
	involved in recycling, pre-processing and other utilization.	
	Every State Government may prepare integrated plan for effective	
(3)	implementation of these provisions and to submit annual report to the Ministry of	NOT APPLICABLE
	Environment, Forest and Climate Change, in the Central Government.	
	Grant of authorization for	
6.	managing hazardous and other	
	wastes	
	Every occupier of the facility who is	Complied.
	engaged in handling, generation, collection, storage, packaging,	The unit has obtained authorization and is operated as per GPCB
	collection, storage, packaging, transportation, use, treatment,	and is operated as per GPCB Consent to Operate (CC&A) vide
	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, preprocessing, co-processing, utilization,	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024
	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, preprocessing, co-processing, utilization, offering for sale, transfer or disposal of	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024
	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: - (a) consent to establish granted by the	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: -	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: - (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: - (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution)	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: - (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981); (b) Consent to operate granted by the	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached
(1)	collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the hazardous and other wastes shall be required to make an application in Form 1 to the State Pollution Control Board and obtain an authorization from the State Pollution Control Board within a period of sixty days from the date of publication of these rules. Such application for authorization shall be accompanied with a copy each of the following documents, namely: - (a) consent to establish granted by the State Pollution Control Board under the Water (Prevention and Control of Pollution) Act, 1974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981);	and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached

Air (Prevention and Control of Pollution) Act, 1981, (21 of 1981); (c) in case of renewal of authorization, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes: Provided that an application for renewal of authorization may be made three months before the expiry of such authorization: Provided further that-(i) any person authorised under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, prior to the date of commencement of these rules, shall not be required to make an application for authorisation till the period of expiry of such authorisation; (ii) any person engaged in recycling or reprocessing of the hazardous waste specified in Schedule IV and having registration under the provisions of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, shall not be required to make an application for authorisation till the period of expiry of such registration. On receipt of an application complete in Noted. all respects for the authorisation, the State Pollution Control Board may, after such inquiry as it considers necessary, and on being satisfied that the applicant possesses appropriate facilities collection, storage. packaging. transportation, treatment, processing, use, destruction, recycling, recovery, preprocessing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other waste, as the (2) case may be, and after ensuring technical capabilities and equipment complying with the standard operating procedure or other guidelines specified by the Central Pollution Control Board from time to time and through site inspection, grant within a period of one hundred and twenty days, an authorisation in Form 2 to the applicant, which shall be valid for a period of five years subject to such conditions as may be laid down therein. For commonly recyclable hazardous waste as given in Schedule IV, the guidelines already

	prepared by the Central Pollution Control Board shall be followed: Provided that in the case of an application for renewal of authorisation, the State Pollution Control Board may, before granting such authorisation, satisfy itself that there has been no violation of the conditions specified in the authorisation earlier granted by it and same shall be recorded in the inspection report.	
(3)	The authorisation granted by the State Pollution Control Board under sub-rule (2) shall be accompanied by a copy of the field inspection report signed by that Board indicating the adequacy of facilities for collection, storage, packaging, transportation, treatment, processing, use, destruction, recycling, recovery, pre-processing, co-processing, utilisation, offering for sale, transfer or disposal of the hazardous and other wastes and compliance to the guidelines or standard operating procedures specified by the Central Pollution Control Board from time to time.	Noted.
(4)	The State Pollution Control Board may, for the reasons to be recorded in writing and after giving reasonable opportunity of being heard to the applicant, refuse to grant any authorisation under these rules.	Noted.
(5)	Every occupier authorised under these rules, shall maintain a record of hazardous and other wastes managed by him in Form 3 and prepare and submit to the State Pollution Control Board, an annual return containing the details specified in Form 4 on or before the 30th day of June following the financial year to which that return relates.	The unit maintains record of hazardous and other wastes generated in Form 3. The monthly generation, storage and disposal quantities with manifest Form 10 have been submitted to GPCB. The copy of covering letter with Hazardous waste quantities is given as Annexure 3 A & latest submitted Annual Return (Form 4) is attached as Annexure 3B .
(6)	The State Pollution Control Board shall maintain a register containing particulars of the conditions imposed under these rules for management of hazardous and other wastes and it shall be open for inspection during office hours to any interested or affected person.	Not Applicable.
(7)	The authorised actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorisation.	Not Applicable.

	Handing over of the hazardous and other	Not Applicable.
(8)	wastes to the authorised actual user shall	
(0)	be only after making the entry into the	
	passbook of the actual user.	
7.	Power to suspend or cancel an authorisation	
(1)	The State Pollution Control Board, may, if in its opinion the holder of the authorisation has failed to comply with any of the conditions of the authorisation or with any provisions of the Act or these rules and after giving him a reasonable opportunity of being heard and after recording reasons thereof in writing cancel or suspend the authorisation issued under rule 6 for such period as it considers necessary in the public interest.	Noted.
(2)	Upon suspension or cancellation of the authorisation, the State Pollution Control Board may give directions to the person whose authorisation has been suspended or cancelled for the safe storage and management of the hazardous and other wastes, and such occupier shall comply with such directions.	Noted.
8.	Storage of hazardous and other wastes	
(1)	The occupiers of facilities may store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection: Provided that the State Pollution Control Board may extend the said period of ninety days in following cases, namely:- (i) small generators (up to ten tonnes per annum) up to one hundred and eighty days of their annual capacity; (ii) actual users and disposal facility operators up to one hundred and eighty days of their annual capacity, (iii) occupiers who do not have access to any treatment, storage, disposal facility in the concerned State; or (iv) the waste which needs to be specifically stored for development of a process for its recycling, recovery, pre-processing, co-processing or utilisation;	Complied. The unit has provided Hazardous waste storage area as per CPCB Guidelines. The photograph showing Hazardous Waste Storage area is attached as Annexure — 4. The hazardous waste generated is disposed off on regular basis. The monthly statement of generation, collection, storage and disposal has been submitted to GPCB. The copy of statement is attached as Annexure 3A.

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	(v) in any other case, on justifiable grounds up to one hundred and eighty days.	
9.	Utilisation of hazardous and other wastes	
(1)	The utilisation of hazardous and other wastes as a resource or after preprocessing either for co-processing or for any other use, including within the premises of the generator (if it is not part of process), shall be carried out only after obtaining authorisation from the State Pollution Control Board in respect of waste on the basis of standard operating procedures or guidelines provided by the Central Pollution Control Board.	Complied. The unit has obtained authorisation and is operated as per GPCB Consent to Operate (CC&A) vide GPCB CC&A # 102834 dated 17.10.2019 valid up to 19.11.2024 (The copy of valid CC& A is attached as Annexure-1 of EC Compliance Report). The unit is no in process of coprocessing or other use of Hazardous waste. The generated by products are given to authorised end users based on applicability of rules.
(2)	Where standard operating procedures or guidelines are not available for specific utilisation, the approval has to be sought from Central Pollution Control Board which shall be granting approval on the basis of trial runs and thereafter, standard operating procedures or guidelines shall be prepared by Central Pollution Control Board: Provided, if trial run has been conducted for particular waste with respect to particular utilisation and compliance to the environmental standards has been demonstrated, authorisation may be granted by the State Pollution Control Board with respect to the same waste and utilisation, without need of separate trial run by Central Pollution Control Board and such cases of successful trial run, Central Pollution Control Board shall intimate all the State Pollution Control Board regarding the same.	Noted.
(3)	No trial runs shall be required for co- processing of waste in cement plants for which guidelines by the Central Pollution Control Board are already available; however, the actual users shall ensure compliance to the standards notified under the Environment (Protection)	Not Applicable.

Act,1986 (29 of 1986), for cement plant	
with respect to co-processing of waste:	
Provided that till the time the standards	
are notified, the procedure as applicable	
to other kind of utilisation of hazardous	
and other waste, as enumerated above	
shall be followed.	
Standard Operating Procedure or	
guidelines for actual users	
The Ministry of Environment, Forest and Noted.	
Climate Change or the Central Pollution	
Control Board may issue guidelines or	
standard operating procedures for	
environmentally sound management of	
hazardous and other wastes from time to	
time.	
CHAPTER III - IMPORT AND EXPORT OF HAZARDOUS AND OTHER	D WASTES
	VVASIES
Import and export (transboundary Not Applicable.	
movement) of hazardous and other	
wastes The Ministry of Environment,	
Forest and Climate Change shall be the	
11. nodal Ministry to deal with the	
transboundary movement of the	
hazardous and other wastes in	
accordance with the provisions of these	
accordance with the provisions of these rules.	
accordance with the provisions of these rules. Strategy for Import and export of Not Applicable	
accordance with the provisions of these rules. Strategy for Import and export of hazardous and other wastes Not Applicable.	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other	
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accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including co-	
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accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change.	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change. (4) The import of other wastes in Part B of	
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accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change. (4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change. (4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change.	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change. (4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change. (5) The import of other wastes in Part D	
accordance with the provisions of these rules. 12. Strategy for Import and export of hazardous and other wastes (1) No import of the hazardous and other wastes from any country to India for disposal shall be permitted. (2) The import of hazardous and other wastes from any country shall be permitted only for recycling, recovery, reuse and utilisation including coprocessing. (3) The import of hazardous waste in Part A of Schedule III may be allowed to actual users with the prior informed consent of the exporting country and shall require the permission of the Ministry of Environment, Forest and Climate Change. (4) The import of other wastes in Part B of Schedule III may be allowed to actual users with the permission of the Ministry of Environment, Forest and Climate Change.	

	(6) No import of the hazardous and other wastes specified in Schedule VI shall be permitted. (7) The export of hazardous and other wastes from India listed in Part A and Part B of Schedule III and Schedule VI shall be with the permission of Ministry of Environment, Forest and Climate Change. In case of applications for export of hazardous and other waste listed in Part A of Schedule III and Schedule VI, they shall be considered on the basis of prior informed consent of the importing country. (8) The import and export of hazardous and other wastes not specified in Schedule III, but exhibiting the hazardous characteristics outlined in Part C of Schedule III shall require prior written permission of the Ministry of Environment, Forest and Climate Change before it is imported to or exported from India, as the case may be. Procedure for import of hazardous and	
13.	other wastes	Not Applicable.
	(1) Actual users intending to import or transit for transboundary movement of hazardous and other wastes specified in Part A and Part B of Schedule III shall apply in Form 5 along with the documents listed therein, to the Ministry of Environment, Forest and Climate Change for the proposed import together with the prior informed consent of the exporting country in respect of Part A of Schedule III waste, and shall send a copy of the application, simultaneously, to the concerned State Pollution Control Board for information and the acknowledgement in this respect from the concerned State Pollution Control Board shall be submitted to the Ministry of Environment, Forest and Climate Change along with the application.	Not Applicable.
	(2) For the import of other wastes listed in Part D of Schedule III, the importer shall not require the permission of the Ministry of Environment, Forest and Climate Change. However, the importer shall furnish the required information as per Form 6 to the Customs authorities, accompanied with the following documents in addition to those listed in Schedule VIII, wherever applicable. For	Not Applicable.

lis So no ur (a Go (b (P 19 ar 19 ru th Ri (c wa ob ar	sed electrical and electronic assemblies sted at serial numbers 4 (e) to 4(i) of chedule VIII (Basel No. B1110), there is a specific requirement of documentation nder these rules: a) the import license from Directorate teneral of Foreign Trade, if applicable; b) the valid consents under the Water Prevention and Control of Pollution) Act, 974 (25 of 1974) and the Air (Prevention and Control of Pollution) Act, 1981 (21 of 1981) and the authorisation under these also as well as the authorisation under the E-Waste (Management and Handling) rules, 2011, as amended from time to me, whichever applicable; b) importer who is a trader, importing raste on behalf of actual users, shall betain one time authorisation in Form 7 and copy of this authorisation shall be ppended to Form 6.	
(3 im elecco ur (M 20 im pr pr (N	B) For Part B of Schedule III, in case of any used electrical and lectronic assemblies or spares or part or amponent or consumables as listed and schedule I of the E-Waste Management and Handling) Rules, 011, as amended from time to time, the apporter need to obtain extended roducer responsibility-authorisation as roducer under the said E-Waste Management and Handling) Rules, 011.	Not Applicable.
Wa Cu do	Prior to clearing of consignment of castes listed in Part D of Schedule III, the sustom authorities shall verify the ocuments as given in column (3) of chedule VIII.	Not Applicable.
wi So Fo ex co re Bo im su ha (i) (ii)	ith respect to Part A and Part B of chedule III, the Ministry of Environment, orest and Climate Change shall xamine the application considering the omments and observations, if any, eccived from the State Pollution Control oards, and may grant the permission for aport within a period of sixty days ubject to the condition that the importer as — 1) the environmentally sound facilities; 1) adequate arrangements for treatment and disposal of wastes generated; 11) a valid authorisation and consents om the State Pollution Control Board;	Not Applicable.

` ' '	ed consent from the in case of Part A of	
(6) The Ministry of and Climate Chan of the permission and Customs Pollution Controconcerned State F for ensuring compatheir	,	Not Applicable.
other wastes shall hazardous and ot him in Form 3 and	of the hazardous and maintain records of the her waste imported by I the record so be made available for	Not Applicable.
other wastes shall Form 4 to the S Board on or before	of the hazardous and file an annual return in State Pollution Control te the 30th day of June cial year to which that	Not Applicable.
wastes being im research and dev to 1000 gm or 100	hazardous and other ported for testing or elopment purposes up 0 ml shall be exempted g permission for import	Not Applicable.
shall ensure accompanied w document as giver report of analy consignment, whe laboratory accred	rever applicable, from a ited or recognised by untry. In case of any	Not Applicable.
	port of hazardous from India	Not Applicable.
waste specified in Part B of Schedul shall make an appl with insurance co Environment, Fore for the prop movement of the wastes together w	r intending to export Part A of Schedule III, e III and Schedule VI, lication in Form 5 along over to the Ministry of est and Climate Change osed transboundary hazardous and other with the prior informed g from the importing	Not Applicable.

	country in respect of wastes specified in	
	Part A of Schedule III and Schedule VI.	
	(2) On receipt of an application under sub-rule (1), the Ministry of Environment, Forest and Climate Change may give permission for the proposed export within a period of sixty days from the date of submission of complete application and may impose such conditions as it may consider necessary.	Not Applicable.
	(3) The Ministry of Environment, Forest and Climate Change shall forward a copy of the permission granted under sub-rule (2) to the State Pollution Control Board of the State where the waste is generated and the Pollution Control Board of the State where the port of export is located and the concerned Port and Customs authorities for ensuring compliance of the conditions of the export permission.	Not Applicable.
	(4) The exporter shall ensure that no consignment is shipped before the prior informed consent is received from the importing country, wherever applicable.	Not Applicable.
	(5) The exporter shall also ensure that the shipment is accompanied with movement document in Form 6 .	Not Applicable.
	(6) The exporter of the hazardous and other wastes shall maintain the records of the hazardous or other waste exported by him in Form 3 and the record so maintained shall be available for inspection.	Not Applicable.
15.	Illegal traffic	Not Applicable since the unit is not involved in import or export of any hazardous or other wastes generated in the unit.
	(1) The export and import of hazardous or other wastes from and into India, respectively shall be deemed illegal, if,- (i) it is without permission of the Central Government in accordance with these rules; or (ii) the permission has been obtained through falsification, mis-representation or fraud; or (iii) it does not conform to the shipping details provided in the movement documents; or (iv) it results in deliberate disposal (i.e., dumping) of hazardous or other waste in contravention of the Basel Convention and of general principles of international or domestic law.	Not Applicable.

	,	
	(2) In case of illegal import of the hazardous or other waste, the importer shall re-export the waste in question at his cost within a period of ninety days from the date of its arrival into India and its implementation will be ensured by the concerned Port and the Custom authority. In case of disposal of such waste by the Port and Custom authorities, they shall do so in accordance with these rules with the permission of the Pollution Control Board of the State where the Port exists.	Not Applicable.
	(3) In case of illegal import of hazardous or other waste, where the importer is not traceable then the waste either can be sold by the Customs authority to any user having authorisation under these rules from the concerned State Pollution Control Board or can be sent to authorised treatment, storage and disposal facility.	Not Applicable.
	FER IV - TREATMENT, STORAGE AND RDOUS AND OTHER WASTES	DISPOSAL FACILITY FOR
IIALAI	Treatment, storage and disposal	
16.	facility for hazardous and other wastes	
	(1) The State Government, occupier, operator of a facility or any association of occupiers shall individually or jointly or severally be responsible for identification of sites for establishing the facility for treatment, storage and disposal of the hazardous and other waste in the State.	The Ankleshwar GIDC area is facilitated by Common Hazardous Waste Treatment & Disposal Facility Operated by Bharuch Enviro Infrastructure Limited (BEIL). The unit has obtained membership of Bharuch Enviro Infrastructure Ltd. (BEIL) Ankleshwar, an authorised Common Hazardous Treatment, Storage and Disposal Facility for disposal of hazardous and other wastes. The copy of membership is attached as Annexure – 5 .
	(2) The operator of common facility or occupier of a captive facility, shall design and set up the treatment, storage and disposal facility as per technical guidelines issued by the Central Pollution Control Board in this regard from time to time and shall obtain approval from the State Pollution Control Board for design and layout in this regard.	The unit has obtained membership of Bharuch Enviro Infrastructure Ltd. (BEIL) Ankleshwar, an authorised Common Hazardous Treatment, Storage and Disposal Facility for disposal of hazardous and other wastes. The copy of membership is attached as Annexure – 5 .

(3)	The State Pollution Control Board shall
	monitor the setting up and operation of
	the common or captive treatment,
	storage and disposal facility, regularly.
(4)	The operator of common facility or
	occupier of a captive facility shall be
	responsible for safe and
	environmentally sound operation of
	the facility and its closure and post
	closure phase as per quidelines or

- closure phase, as per guidelines or standard operating procedures issued by the Central Pollution Control Board from time to time.
- (5) The operator of common facility or occupier of a captive facility shall maintain records of hazardous and other wastes handled by him in Form
- (6) The operator of common facility or occupier of a captive facility shall file an annual return in Form 4 to the State Pollution Control Board on or before the 30th day of June following the financial year to which that return relates.

Noted.

Noted.

Not Applicable.

Not Applicable.

CHAPTER V - PACKAGING, LABELLING, AND TRANSPORT OF HAZARDOUS AND OTHER WASTES.

Packaging and Labelling.-17. (1) Any occupier handling hazardous or other wastes and operator of the treatment, storage and disposal facility shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time. The labelling shall be done as per Form 8.

(2) The label shall be of non-washable material, weather proof and easily visible.

Complied.

The hazardous or other wastes are packaged in a manner suitable for safe handling, storage and transport to authorised actual user or authorised TSDF BEIL, Ankleshwar. The labelling of package is also done as per Form-

The Form 8 for labelling the hazardous waste and other wastes containers is attached as Annexure 6.

Transportation of hazardous and other 18. wastes.-

(1) The transport of the hazardous and other waste shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard.

(2) The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous

Complied.

The unit transports hazardous and other wastes in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the CPCB.

The unit also provides information in Form 9 to the transporter regarding nature of the wastes and measures to

	nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8 .	be taken in case of emergency. The Form 9 is attached as Annexure 7 . The hazardous and other wastes containers are also labelled with Form 8. The copy of Form 8 is attached as Annexure 6 .
	(3) In case of transportation of hazardous and other waste for final disposal to a facility existing in a State other than the State where the waste is generated, the sender shall obtain 'No Objection Certificate' from the State Pollution Control Board of both the States.	Noted.
	(4) In case of transportation of hazardous and other waste for recycling or utilisation including coprocessing, the sender shall intimate both the State Pollution Control Boards before handing over the waste to the transporter.	Noted.
	(5) In case of transit of hazardous and other waste for recycling, utilisation including coprocessing or disposal through a State other than the States of origin and destination, the sender shall give prior intimation to the concerned State Pollution Control Board of the States of transit before handing over the wastes to the transporter.	Noted.
	(6) In case of transportation of hazardous and other waste, the responsibility of safe transport shall be either of the sender or the receiver whosoever arranges the transport and has the necessary authorisation for transport from the concerned State Pollution Control Board. This responsibility should be clearly indicated in the manifest.	Noted.
	(7) The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.	Noted.
19.	Manifest system (Movement Document) for hazardous and other waste to be used within the country only	
	(1) The sender of the waste shall prepare seven copies of the manifest in Form 10 comprising of colour code indicated below and all seven copies shall be signed by the sender:	Complied. The copies of manifest are prepared in Form 10 as per colour code.

(2) The sender shall forward copy 1 (white) to the State Pollution Control Board, and in case the hazardous or other wastes is likely to be transported through any transit State, the sender shall intimate State Pollution Control Boards of transit States about the movement of the waste.

The unit forwards Copy 1 (White) to the GPCB monthly.

The Form 10 is attached as **Annexure** 8.

(3) No transporter shall accept waste from the sender for transport unless it is accompanied by signed copies 3 to 7 of the manifest. Noted.

(4) The transporter shall submit copies 3 to 7 of the manifest duly signed with date to the receiver along with the waste consignment.

Noted.

(5) The receiver after acceptance of the waste shall hand over copy 4 (orange) to the transporter and send copy 5 (green) to his State Pollution Control Board and send copy 6 (blue) to the sender and the copy 3 (pink) shall be retained by the reciever.

Noted.

(6) The copy 7 (grey) shall only be sent to the State Pollution Control Board of the sender, if the sender is in another State. Not Applicable.

CHAPTER VI - MISCELLANIOUS

20. Records and returns.-

(1) The occupier handling hazardous or other wastes and operator of disposal facility shall maintain records of such operations in **Form 3**.

(2) The occupier handling hazardous and other wastes and operator of disposal facility shall send annual returns to the State Pollution Control Board in **Form 4**.

The unit maintains Hazardous waste generation details in Form 3 & submits monthly hazardous waste generation, collection, storage & disposal details with manifest copies to GPCB. The copy of monthly submission to GPCB is attached as **Annexure 3A**. & The copy of annual return (Form 4) submitted to GPCB is attached as **Annexure 3B**.

(3) The State Pollution Control Board based on the annual returns received from the occupiers and the operators of the facilities for disposal of hazardous and other wastes shall prepare an annual inventory of the waste generated; waste recycled, recovered, utilised including co-processed; waste reexported, and waste disposed and submit

Noted.

	to the Central Pollution Control Board by	1
	to the Central Pollution Control Board by the 30th day of September every year. The State Pollution Control Board shall also prepare the inventory of hazardous waste generators, actual users, and common and captive disposal facilities and shall submit the information to Central Pollution Control Board every two years.	
	(4) The Central Pollution Control Board shall prepare the consolidated review report on management of hazardous and other wastes and forward it to the Ministry of Environment, Forest and Climate Change, along with its recommendations before the 30th day of December once in every year.	Noted.
21.	Responsibility of authorities. – The authority specified in column (2) of Schedule VII shall perform the duties as specified in column (3) of the said Schedule subject to the provisions of these rules.	Noted.
22.	Accident reporting. — Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 11.	Noted.
23.	Liability of occupier, importer or exporter and operator of a disposal facility	
	(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste. (2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.	Noted.
24.	Appeal	
	(1) Any person aggrieved by an order of suspension or cancellation or refusal of authorisation or its renewal passed by the State Pollution Control Board may, within	Noted

a period of thirty days from the date on	
which the order is communicated to him,	
•	
prefer an appeal in Form 12 to the	
Appellate Authority, namely, the	
Environment Secretary of the State.	
(2) The Appellate Authority may entertain	Noted.
the appeal after expiry of the said period	
of thirty days, if it is satisfied that the	
appellant was prevented by sufficient	
cause from filing the appeal in time.	
(3) Every appeal filed under this rule shall	Noted.
be disposed of within a period of sixty	
days from the date of its filing.	

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UPL Limited

Training Attendance Sheet



Topic Water & waste water treatment plant operations Faculty D. Bala Pravleen Date 13/09/19 Time 9:30 to 1:00 Teraining How - A Reference

Sr. No.	Employee Code (8 Digit SAP Code)	Name	Designation	Department	Mfg. Unit/	Signature
01	1204809	Arun D Thanvi	Si executive	Ulela For	UPLI	A
62	1207551	Janak. T. Patel	J. v. offices	85-362	uni+-5	AU.
03	1207582	Manoj Kuman	OFFICER		Unit 5	M.K
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I SAP Code					
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11th April 2019

To The Regional Officer, Gujarat Pollution Control Board, GIDC - Ankleshwar.

GPCB XGN ID No.# 25353

<u>Sub</u>: Manifest copies for Solid Waste/ Incineration Waste Disposal during the month of

March-2019

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

Dear Sir;

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of March-2019. Total 596 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

Sr.	Type of Waste	Quantity (MT)
No.		
1	Landfilling	6914.19
2	Incineration	594.3

Hope you find the same in order. Thanking You.

Yours faithfully, For, UPL Limited

Subhat Kumar Jindal

Sr. General Manager- Manufacturing

Encl: a/a

Received Suparat Pollution Control Board **RO Ankleshwar**



11th May 2019

To The Regional Officer, Gujarat Pollution Control Board, GIDC - Ankleshwar.

GPCB XGN ID No.# 25353

Sub: Manifest copies for Solid Waste/Incineration Waste Disposal during the month of

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

Dear Sir;

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of April-2019. Total 386 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

anifest are enclosed. The total quantum	Quantity (MT)
Type of Waste	Quantity (Will)
Landfilling	5103.22
Incineration	453.88

Hope you find the same in order. Thanking You.

Yours faithfully, For, UPL Limited

Sr. General Manager- Manufacturing

Encl: a/a

Received Sujarat Pollution Control Board RO Ankleshwat

13/5/19



18th June 2019

To
The Regional Officer,
Gujarat Pollution Control Board,
GIDC – Ankleshwar.

GPCB XGN ID No.# 25353

Sub: Manifest copies for Solid Waste/Incineration Waste Disposal during the month of

May-2019

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

Dear Sir;

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of May-2019. Total 399 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

Sr. No.	Type of Waste	Quantity (MT)
1	Landfilling	5011.8
2	Incineration	582.77

Hope you find the same in order. Thanking You.

Yours faithfully, For, **UPL Limited**

Anil C Mundada

Sr. General Manager- Manufacturing

Encl: a/a

Received

Sujarat Pollution Control Bonn

RO Anklashwar

2 / Stac



UPL Limited, Unit - 5 Plot No.746 & 750, P.B. No.9 GIDC, Dist. Bharuch Jhagadia 393 110 Gujarat, India

w: upl-ltd.com t: +91 2645 226013 f: +91 2645 226017

26th July 2019

To The Regional Officer, Gujarat Pollution Control Board, GIDC - Ankleshwar.

GPCB XGN ID No.# 25353

<u>Sub</u>: <u>Manifest copies for Solid Waste/Incineration Waste Disposal during the month of</u>

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

Dear Sir;

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of June-2019. Total 286 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

idilii est —	losed. The total qualitities of most	Quantity (MT)
Sr.	Type of Waste	Quarter, t
No.	Landfilling	3604.88
2	Incineration	445.77

Hope you find the same in order. Thanking You.

Yours faithfully, For, UPL Limited

Anfl C. Mundada

Sr. General Manager- Manufacturing

Encl: a/a

Received -Sujarat Pollution Control Board 9 O Ankleshwai

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UPL Limited, Unit - 5 Plot No.746 & 750, P.B. No.9 GIDC, Dist. Bharuch Jhagadia 393 110 Gujarat, India

w: upl-ltd.com t: +91 2645 226013 f: +91 2645 226017

02nd August 2019

To
The Regional Officer,
Gujarat Pollution Control Board,
GIDC – Ankleshwar.

GPCB XGN ID No.# 25353

Sub: Manifest copies for Solid Waste/Incineration Waste Disposal during the month of July-2019

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

Dear Sir;

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of July-2019. Total 428 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

Sr. No.	Type of Waste	Quantity (MT)
1	Landfilling	5273.145
2	Incineration	659.73

Hope you find the same in order. Thanking You.

Yours faithfully, For, UPL Limited

April C. Mundada

Sr. General Manager- Manufacturing

Encl: a/a

Sujarat Pollution Control Board

4-1-90



UPL Limited, Unit - 5 Plot No.746 & 750, P.B. No.9 GIDC, Dist. Bharuch Jhagadia 393 110 Gujarat, India

w: upl-ltd.com t: +91 2645 226013 f: +91 2645 226017

Ref.: UPL/JHG/ENV/10/2019/08

16th Sept 2019

To The Regional Officer, Gujarat Pollution Control Board, GIDC - Ankleshwar.

GPCB XGN ID No.# 25353

Sub: Manifest copies for Solid Waste/Incineration Waste Disposal during the month of

Ref.: Consolidated Consent & Authorization No. AWH 94827 issued on 09.07.2018

With reference to the above subject, please find enclosed herewith Manifest copies for the Solid / Incineration Wastes, sent to BEIL during the month of Augt-2019. Total 260 Nos. of manifest are enclosed. The total quantities of waste sent to BEIL are as follows:

closed. The total quantities of waste sent to be	Quantity (MT)
Type of Waste	
	3490.48
Landfilling	421.92
Incineration	

Hope you find the same in order. Thanking You.

Yours faithfully, For, UPL Limited

Anil C. Mundada

Sr. General Manager- Manufacturing

medesveo uarai Poliution Control Boarn Q O Anklashwar 17-9-19

Encl: a/a

ACK



Ref: UPL/ENV/JHG/23/2019/01

11th May, 2019

GPCB XGN ID # 25353

To,
The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector – 10/A,
Gandhinagar – 382 010.

Dear Sir,

Sub: Hazardous Waste Return for the period April 2018 to March 2019

Ref: The Hazardous Wastes (Management, Handling & Transboundary Movement) Rules

We are forwarding herewith Hazardous Waste Return with respect to our UPL Limited Unit #5 located at Plot # 746 & 750, GIDC, Jhagadia for the period of April -2018 to March- 2019 in Form-3 and Form-4.

We hope that the above is in order.

Thanking you

Yours faithfully,

For, UPL Limited

Subhat Kumar Jindal

Sr. General Manager- Manufacturing

CC: Regional Officer
Gujarat Pollution Control Board
Plot # 1501, GIDC Estate
Ankleshwar – 393 002
Dist – Bharuch.

Encl: a/a

RO Ankleshwar



Ref: UPL/ENV/JHG/23/2019/01

11th May, 2019

GPCB XGN ID # 25353

To, The Member Secretary Gujarat Pollution Control Board Paryavaran Bhavan, Sector - 10/A, Gandhinagar - 382 010.

Dear Sir,

Sub: Hazardous Waste Return for the period April 2018 to March 2019

Ref: The Hazardous Wastes (Management, Handling & Transboundary Movement) Rules

We are forwarding herewith Hazardous Waste Return with respect to our UPL Limited Unit #5 located at Plot # 746 & 750, GIDC, Jhagadia for the period of April -2018 to March- 2019 in Form-3 and Form-4.

We hope that the above is in order.

Thanking you

Yours faithfully,

For, UPL Limited

Subhat Kumar Jindal

Sr. General Manager- Manufacturing

CC: Regional Officer Gujarat Pollution Control Board Plot # 1501, GIDC Estate Ankleshwar - 393 002 Dist - Bharuch.

Encl: a/a

Cutheral Post Mon Control Board CSLYLIVESSUZBSOLD

FORM-3

[See rules 6(5), 13(7), 14(6), 16(5) and 20 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS & OTHER WASTES BY THE OCCUPIER OR OPERATOR OF A FACILITY

Name and address of the occupier or operator of the facility:	Mr. Anil C. Mundada UPL Limited, Unit No 5, Plot No. 750 & 746, GIDC, Jhagadia, Dist. Bharuch-393 110
Date of issuance of authorization and its reference number:	CC&A AWH #102834 dated 17.10.19 Valid up to 19.11.24.

3. Description of hazardous and other wastes handled (Generated OR Received):

	Type of was	te with category as per I and III of these rules	Total		- /	Date wise description of
Sr No.	Category	Type of Waste & Chemical form	Quantity of Waste Generated	Method of storage	Destined to or received from	Management of Hazardous and other waste
1	Z32	Brine Sludge from Chloro - Alkali Plant (chemical waste)	4672 MT	Stored in impervious storage area with roofing	To M/s. BEIL for land filling	
2	35.3	Sludge from old ETP and New ETP (chemical sludge from Wastewater Treatment Plant)	3283MT	Stored in impervious storage area with roofing	To M/s. BEIL for land filling	
3	B40 White and Red Phosphorus Plant Phosphorus Residue 5.1 Used Oil Discarded containers / Barrels/ Liners (Empty barrels / containers / liners contaminated with hazardous chemicals / wastes)		584 MT	Stored in impervious storage area with roofing	To M/s. BEIL for land filling	April 2019 to September
4			10600 Liters	Stored in drums in H.W. storage area (shed & impervious area)	Sold to approved recycler	2019. Please refer Annexure –I For month wise disposal &
5			511 MT	Stored in covered Shed with RCC flooring	Decontamination, detoxification and sold to GPCB approved vendors OR Contaminated discarded containers / barrels / liners to BEIL Dahej	Management of Hazardous Waste
6	29.1	Process Distillation Residue [Organic] (Process waste or residue)	13813 MT	Stored in drums / Tanks in separate	To M/s. BEIL for incineration	

				place (shed &	
				impervious	
				area)	
7	B35	Inorganic Solid Waste (Phosphate compounds except Phosphates of Aluminium, Calcium and Iron)	750 MT	Stored in impervious storage area with roofing on the top	To M/s. BEIL for land filling
8	A5	Batteries [Lead / Acid]	210 Nos.	Stored in earmarked storage area	Send to approved recycler
9	36.2	Filter Aids (spent carbon or filter medium)	2.5 MT	Stored in earmarked storage area	To M/s. BEIL for incineration
10	33.2	Contaminated Cotton Waste (contaminated cotton rags or other Cleaning materials)	14.5 MT	Stored in separate incineration waste storage area (shed & imperious area)	To M/s. BEIL for land filling/incineration
11	B1	Waste Insulation Material	28 MT	Stored in earmarked storage area	To M/s. BEIL for land filling
12	Z46	Used Contaminated Personal Protective Equipments [PVC/Plastic Waste]	4 MT	Stored in earmarked storage area	To M/s. BEIL for land filling
13	33.1	Nonrecyclable Plastic waste Gaskets (empty barrels / containers / liners contaminated with Hazardous chemicals / wastes)	21 MT	Stored in earmarked storage area	To M/s. BEIL for land filling
14	B1	Asbestos (Rope, gland, PPE etc.) (Asbestos)	5 MT	Stored in earmarked storage area	To M/s. BEIL for land filling
15	29.3	Date expired/Off Specification product (Date expired and off Specification pesticides)	19 MT	Stored in separate incineration waste storage area (shed & impervious area)	To M/s. BEIL for incineration
16	35.3	Solid Waste From Neutralization of	21321 MT	Stored in impervious	To M/s. BEIL for land filling

		Spent Acid (chemical sludge from waste water treatment)		storage area with roofing on the top	
17	29.1	Aqueous waste (process waste or residue)	7832 MT	Stored in separate incineration waste storage area (shed & impervious area)	To M/s. BEIL for incineration
18	35.3	Solid/Salt from MEE /Evaporation Plant (chemical sludge from wastewater treatment)	50944 MT	Stored in impervious storage area with roofing on the top	To M/s. BEIL for Land filling
19	29.5	Spent Catalyst	10 MT		To M/s. BEIL for incineration
20	37.2	Incineration/Furnace Ash (ash from incineration and flue gas cleaning residue)	22 MT		To M/s. BEIL for land filling
21	Z14	FlyAsh from coal fired power plant (Fire Ash)	94540 MT	Stored in earmarked storage area	To bricks manufactures /end users /BEIL, Ankleshwar

04	Date wise description of Management of Hazardous and other wastes sent and to whom in case of Recyclers or Pre-processors or Utilizers	 19736 MT of decontaminated /detoxified Drums are being sold to only GPCB approved vendors. 0 Liters Used oil is sold to MOEF approved recyclers 170 Nos batteries are sold to approved recyclers Please refer Annexure-1.
05	Date of Environmental Monitoring (as per Authorization or guidelines of Central Pollution Control Board)	We do Environmental monitoring twice in a month through third party (Bharuch Enviro Infrastructure Limited).

Date : 20th November, 2019 Place : Jhagadia Head of the Facility:

Name and Signature of

Mr. Anil C. Mundada

(Sr. General Manager- Manufacturing)

FORM-4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

1. Name and address of the Generator / Operator of Facility : M/s UPL Limited, Unit No. 5, 750 & 746, GIDC, P. B. No. 9,

Jhagadia - 393 110.

- 2. Date of issuance of authorization and its reference number: CC&A AWH #102834 dated 17.10.19 Valid up to 19.11.24.
- 3. Name of Authorized Person and full address with telephone and fax number: Mr. Subhat Kumar Jindal

UPL Limited, Unit No 5,

750 & 746, GIDC, Jhagadia,

Dist. Bharuch-393 110.

Tel no - 02645-226011 to 15 & Fax #226017/18

4. Production during the year (product wise) wherever applicable:

Production Details in MT												
Period NaOH Liq. CL2 H2 (MT)				Total HCL	NaOCL	H2SO4	PCL3	POCL3	Pendimethylene	MNZ	ТРРІ	
2019	17197	17859	409	2903	407	404.8	14947	1369	1356	13263	839	

	Production Details in MT												
Period Power Generation (MWH) TDP CS2 Antracol Glufosinate DMPAT MO UPDT Acrolein													
2019	131449	136	0	13590	3161	2394	2285	621	712	1141			

Part A: To be filled by Hazardous Waste Generator Point No. 1 to 4: Details of Hazardous Waste:

Date of Issuance of authorization for the		n of Hazardoi	us Waste	Closing stock of	Mode of packing/ Transportation to	To disposal facility,	Descripti on of the	Date of disposal	Categor y No.
disposal of hazardous waste and its reference number of	Physical form and contents	Chemical form	Total quantity of hazardo us waste disposed	Hazardo us Waste as on 31.09.201 9	the site of disposal	recycler or co- processors or pre- processor, others & in house use/ Brief description of the method of treatment / disposal	storage		
CC&A No. 102834 issued on 17.10.19	Brine Sludge-solid non- hazardous with 35 % moisture	NaCl	1636 MT	61.53 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing	April-2019 to Septembe r-2019	Z32
valid up to 19.11.2024	ETP Sludge- Solid with 20 % moisture	CaSO ₄ , CaCO ₃ , Ca (PO4) ₂	1110 MT	143.76 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing		35.3

White Phosphorus Plant- Phosphorus Distillation Waste	Fine dust, rock phosphate	253 MT	30.47 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing	B40
Waste insulation material - Solid	Insulation	2.32 MT	0.78	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in earmarked storage area	B1
Used Personal Protective Equipment - Solid	Plastic / Rubber	0.56 MT	0.02	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in earmarked storage area	Z46
Non- recyclable plastic waste -Solid	Plastic	1.07 MT	1.02	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at	Bharuch Enviro Infrastructu re Ltd., a centralized	Stored in earmarked storage area	33.1

				Ankleshwar	secured landfill facility at GIDC, Ankleshwar		
Asbestos (rope, gland etc.) -Solid	-	0.1 MT	0.75	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in earmarked storage area	B1
Inorganic Solid Waste	CaSO₄, NaCl, KCl	0 MT	9 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing	B35
Solid Waste from Neutralizati on of Spent Acid	Inorganic	4274 MT	167.79 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing	35.3

Salt/ Solid Waste from MEE	Inorganic	12228 MT	1501.09 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, secured landfill at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a centralized secured landfill facility at GIDC, Ankleshwar	Stored in imperious storage area with roofing	35.3
Spent Resins from DM Plant- Solid	Resins	ОМТ	0.04	Authorized BEIL approved dumpers for transportation upto BEIL site, common Incineration at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a common Incineration facility at GIDC, Ankleshwar	Stored in separate incineratio n waste storage area (shed & imperious area)	35.2
Process Distillation Residue - Semi solid/ Liquid	Organic / Solvent	2638 MT	151.91 MT	In 200 liter drums /Authorized BEIL approved tankers for transportation up to BEIL site, common Incineration at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a common Incineration facility at GIDC, Ankleshwar	Stored in separate incineratio n waste storage area (shed & impervious area)	29.1
Aqueous waste - Liquid	Water with Organics	837 MT	114.27MT	Authorized BEIL approved tankers for transportation up to BEIL site, common Incineration at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a common Incineration facility at GIDC, Ankleshwar	Stored in separate incineratio n waste storage area (shed & imperious	29.1

						area)	
Filter Aids- Solid	Organic/ Cloths	0.32 MT	0.088 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, common Incineration at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a common Incineration facility at GIDC, Ankleshwar	Stored in earmarked storage area	36.2
Date expired / off specification product - Semi Solid/ Solid/ Liquid	Pesticides	0.9	0.1 MT	Authorized BEIL approved dumpers for transportation upto BEIL site, common Incineration at Ankleshwar	Bharuch Enviro Infrastructu re Ltd., a common Incineration facility at GIDC, Ankleshwar	Stored in earmarked storage area	29.3
Contaminat ed Cotton Waste-Solid	Contaminat ed Cotton	0.8 MT	7.5	Authorized BEIL approved dumpers for transportation upto BEIL site, common landfilling/Incinerati on at Ankleshwar	Bharuch Enviro Infrastructu re Ltd,a common Incineration facility at GIDC, Ankleshwar	Incineratio n	33.2
Used Oil- Liquid	Waste Oil	0 Liters	52 Liters	In drums- By trucks/Recyclers	To the registered recycler	Stored in drums in H.W. storage area (shed & impervious area)	5.1

Used Batteries- Solid	Lead/ Acid	170	5 Nos.	By trucks	To the registered recycler	Stored in earmarked storage area	A5
Discarded Containers/ Barrels/ Liners [Metal, wooden, plastic, liners, HDPE]-Solid	Metal, wooden, plastic, liners, HDPE	22099No s.	41 Nos.	By Trucks	To the registered recycler/ Scrap processors	Stored in earmarked storage area	33.1
FlyAsh from Coal fired power plant- Non- Hazardous	FlyAsh	14390MT	8413 MT	By dumper	To bricks manufactur es /End Users	Stored in earmarked storage area	Z14

Date : 20th November, 2019 Place : Jhagadia

Name & Signature of Head of the Facility

Mr.Anil C. Mundada (Sr. General Manager- Manufacturing)

ANNEXURE-1 SOLID WASTE GENERATION & DISPOSAL DETAILS:

BRINE SLUDGE GENERATION / DISPOSAL RECORD

(NON -HAZARDOUS – GENERATED FROM CHLOR-ALKALI PLANT OF MEMBRANE CELL TECHNOLOGY (CONTAINS< 2% Ba) – Land filling

(PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	9.53	388	388	9.53
May'19	9.53	360	358	11.53
Jun'19	11.53	230	190	51.53
July'19	51.53	370	340	81.53
Aug'19	81.53	240	290	31.53
Sep'19	31.53	100	70	61.53
TOTAL		1688	1636	

HAZARDOUS WASTE GENERATION / DISPOSAL RECORD FOR ETP OPERATIONS (ETP SLUDGE) - LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING		
All Qty in MT						
Apr'19	13.76	231	230	14.76		
May'19	14.76	210	220	4.76		
Jun'19	4.76	200	190	14.76		
July'19	14.76	189	180	23.76		
Aug'19	23.76	200	190	33.76		
Sep'19	33.76	210	100	143.76		
TOTAL		1240	1110			

SLUDGE GENERATION / DISPOSAL RECORD FOR DISTILLATION PROCESS OF WHITE PHOSPHORUS PLANT – LAND FILLING

(PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	5.47	48	47	6.47
May'19	6.47	46	42	10.47
Jun'19	10.47	45	46	9.47
July'19	9.47	47	41	15.47
Aug'19	15.47	48	43	20.47
Sep'19	20.47	44	34	30.47
TOTAL		278	253	

SOLID WASTE FROM NEUTRALIZATION OF SPENT ACID – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	23.79	800	799	24.79
May'19	24.79	790	800	14.79
Jun'19	14.79	798	690	122.79
July'19	122.79	760	740	142.79
Aug'19	142.79	770	765	147.79
Sep'19	147.79	500	480	167.79
TOTAL		4418	4274	

DISPOSAL RECORD FOR INORGANIC SOLID WASTE – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING			
	All Qty in MT						
Apr'19	2	5	0	7			
May'19	7	2	0	9			
Jun'19	9	0	0	9			
July'19	9	0	0	9			
Aug'19	9	0	0	9			
Sep'19	9	0	0	9			
TOTAL		7	0				

WASTE INSULATION MATERIAL – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	1	1	1.02	0.98
May'19	0.98	0.7	0.6	1.08
Jun'19	1.08	0.4	0.7	0.78
July'19	0.78	0	0	0.78
Aug'19	0.78	0	0	0.78
Sep'19	0.78	0	0	0.78
TOTAL		2.1	2.32	

USED PPE's- LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	0.05	0.23	0.18	0.1
May'19	0.1	0.1	0.2	0
Jun'19	0	0.2	0.18	0.02
July'19	0.02	0	0	0.02
Aug'19	0.02	0	0	0.02
Sep'19	0.02	0	0	0.02
TOTAL		0.53	0.56	

NON RECYCLABLE PLASTIC WASTE, GASKETS ETC. – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	0.29	0.1	0.02	0.37
May'19	0.37	0.8	0.9	0.27
Jun'19	0.27	0	0	0.27
July'19	0.27	0.9	0.15	1.02
Aug'19	1.02	0	0	1.02
Sep'19	1.02	0	0	1.02
TOTAL		1.8	1.07	

ASBESTOS (ROPE, GLAND etc.) – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	0.1	0.3	0	0.4
May'19	0.4	0.25	0.1	0.55
Jun'19	0.55	0.2	0	0.75
July'19	0.75	0	0	0.75
Aug'19	0.75	0	0	0.75
Sep'19	0.75	0	0	0.75
TOTAL		0.75	0.1	

SOLID/SALT FROM MEE PLANT – LAND FILLING (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	179.09	2500	2420	259.09
May'19	259.09	2300	2350	209.09
Jun'19	209.09	2100	2008	301.09
July'19	301.09	2400	2600	101.09
Aug'19	101.09	2250	2200	151.09
Sep'19	151.09	2000	650	1501.09
TOTAL		13550	12228	

INCINERATION WASTE GENERATION & DISPOSAL DETAILS:

SPENT RESIN FROM DM PLANT - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	0	0.04	0	0.04
May'19	0.04	0	0	0.04
Jun'19	0.04	0	0	0.04
July'19	0.04	0	0	0.04
Aug'19	0.04	0	0	0.04
Sep'19	0.04	0	0	0.04
TOTAL		0.04	0	

DISTILLATION RESIDUE RECORD - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	59.91	270	303	26.91
May'19	26.91	500	430	96.91
Jun'19	96.91	310	295	111.91
July'19	111.91	500	520	91.91
Aug'19	91.91	350	300	141.91
Sep'19	141.91	800	790	151.91
TOTAL		2730	2638	

AQUEOUS WASTE - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	156.27	100	150	106.27
May'19	106.27	100	152	54.27
Jun'19	54.27	145	150	49.27
July'19	49.27	150	139	60.27
Aug'19	60.27	150	141	69.27
Sep'19	69.27	150	105	114.27
TOTAL		795	837	

DATE EXPIRED/OFF SPECIFICATION PRODUCT - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	1	0	0	1
May'19	1	0	0.3	0.7
Jun'19	0.7	0	0.3	0.4
July'19	0.4	0	0.3	0.1
Aug'19	0.1	0	0	0.1
Sep'19	0.1	0	0	0.1
TOTAL		0	0.9	

SPENT FILTER - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	0.008	0.1	0.08	0.028
May'19	0.028	0.1	0.07	0.058
Jun'19	0.058	0.1	0.07	0.088
July'19	0.088	0	0.03	0.058
Aug'19	0.058	0.1	0.07	0.088
Sep'19	0.088	0	0	0.088
TOTAL		0.4	0.32	

CONTAMINATED COTTON WASTE - INCINERATION (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in MT		
Apr'19	8.3	0	0.8	7.5
May'19	7.5	0	0	7.5
Jun'19	7.5	0	0	7.5
July'19	7.5	0	0	7.5
Aug'19	7.5	0	0	7.5
Sep'19	7.5	0	0	7.5
TOTAL		0	0.8	

USED OIL – REGISTER RECYCLER (LITERS) (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	DISPOSAL TO BEIL	CLOSING
		All Qty in Liters		
Apr'19	52	0	0	52
May'19	52	0	0	52
Jun'19	52	0	0	52
July'19	52	0	0	52
Aug'19	52	0	0	52
Sep'19	52	0	0	52
TOTAL		0	0	

DISCARDED DECONTAMINATION/DETOXIFICATION CONTAINERS/BARRELS/LINERS – APPROVED SCRAP VENDOR

(PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	SALE TO APPROVED SCRAP PROCESSORES	CLOSING
		All Qty in No:	S.	
Apr'19	200	4340	3800	740
May'19	740	3200	3731	209
Jun'19	209	3600	3765	44
July'19	44	3000	2852	192
Aug'19	192	3100	2903	389
Sep'19	389	2400	2685	104
TOTAL		19640	19736	

BATTERIES: APPROVED RECYCLER (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	SALE TO APPROVED RECYCLER	CLOSING
		All Qty in Nos.		
Apr'19	45	30	0	75
May'19	75	35	108	2
Jun'19	2	40	36	6
July'19	6	25	26	5
Aug'19	5	0	0	5
Sep'19	5	0	0	5
TOTAL		130	170	

FLY ASH: BRICK MANUFACTURER/ END USERS (PERIOD: APRIL-2019 to SEPTEMBER-2019)

MONTH	OPENING	GENERATION	Stabilisation of Sludge & sent to BEIL for Disposal (MT)	TO BRICK MANUFACTURER/ END USERS	CLOSING
			All Qty in MT		
Apr'19	416.80	2345	1218.00	1037.2	1543.80
May'19	1543.80	2051	1240.00	717.00	2354.80
Jun'19	2354.80	1713	480.00	1167.00	3587.80
July'19	3587.80	2170	1372.00	1231.00	4385.80
Aug'19	4385.80	2250	1569.00	425.00	5066.80
Sep'19	5066.80	1880	514.00	652.00	6432.80
TOTAL		14390	6393	3475	

Detail of Registered Battery Recycler:

M/s Metex Battery Corporation

Vendor Code: 101265

GIDC, Ankleshwar, Gujarat.

Detail of Registered Used Oil Recycler:

M/s Suraj Barrel Supply

CC&A # AWH 84277 dated 17.02.2017 valid up to 15.02.2022

Address: Opposite P.W.D. Store Nr Good Luck Market, Chandola lake,

Narol Highway, Ahmedabad-380028.

ANNEXURE –4: Photograph Showing Hazardous Waste Storage Area





BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Ref. BEIL/ANK/2015

11th December, 2015

UPL Ltd. Plot No.750, GIDC, Jhagadia.

Sub: NOC for receiving Landfilling and Incinerable waste.

Dear Sir.

We are in receipt of your letter dt.09-12-2015. You are planning to expand capacity. Due to this, additional Landfill Waste Qty.1,76,827 MT / Year and additional Incinerable waste Qty.50,310 MT/Year generates.

We would like to inform you that we have no objection in accepting additional quantity. We shall be accepting your **Landfill Waste and Incinerable** waste subject to verification of quality and it should be as per GPCB authorisation.

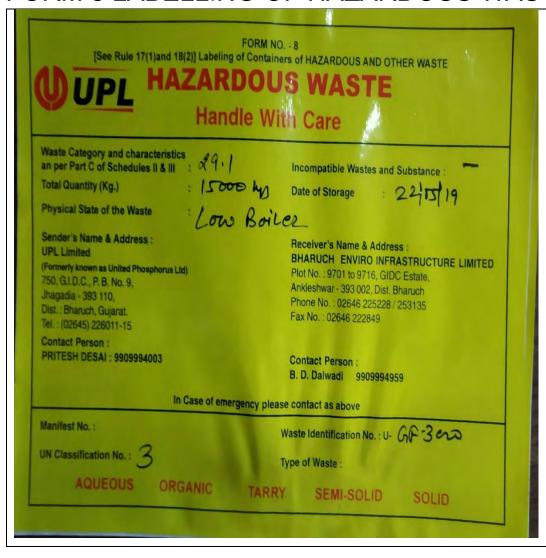
Thanking you,

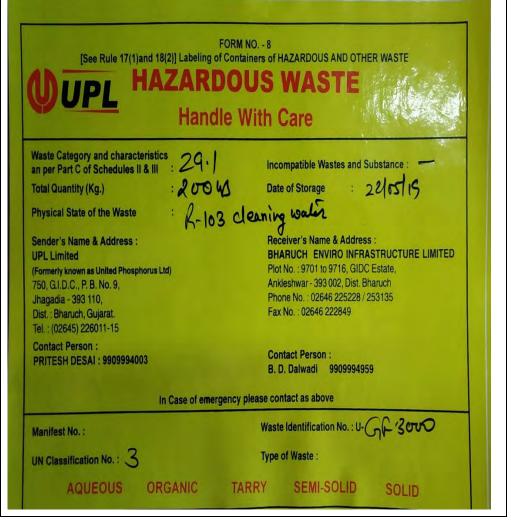
Yours faithfully, For BHARUCH ENVIRO INFRASTRUCTURE LTD.

AUTHORISED SIGNATORY

ANNEXURE-6

FORM 8 LABELLING OF HAZARDOUS WASTE





FORM NO. - 8

(See Rule 17(1) and 18(2)] Labeling of Containers of HAZARDOUS AND OTHER WASTE



Handle With Care

Waste Category and characteristics

29.11 an per Part C of Schedules II & III

Incompatible Wastes and Substance

Total Quantity (Kg.) : 15000 W

Physical State of the Waste

Agneous

Sender's Name & Address:

UPL Limited

(Formerly known as United Phosphorus Ltd) 750, G.I.D.C., P. B. No. 9.

Jhagadia - 393 110, Dist.: Bharuch, Gujarat. Tel.: (02645) 226011-15

Contact Person:

PRITESH DESAI: 9909994003

Receiver's Name & Address

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Plot No.: 9701 to 9716, GIDC Estate. Ankleshwar - 393 002, Dist. Bharuch Phone No.: 02646 225228 / 253135

Fax No.: 02646 222849

Contact Person

Date of Storage

B. D. Dalwadi 9909994959

In Case of emergency please contact as above

Manifest No.:

Waste Identification No. : U-GF 3000

UN Classification No. : ~

Type of Waste:

ORGANIC

TARRY

SEMI-SOLID

SOLID

FORM NO. - 8

[See Rule 17(1) and 18(2)] Labeling of Containers of HAZARDOUS AND OTHER WASTE



HAZARDOUS WASTE

Handle With Care

Waste Category and characteristics

an per Part C of Schedules II & III

Total Quantity (Kg.)

Incompatible Wastes and Substance:

Date of Storage : 22-65-19

: Residue for C-101 Physical State of the Waste

Sender's Name & Address :

UPL Limited

(Formerly known as United Phosphorus Ltd)

750, G.I.D.C., P. B. No. 9. Jhagadia - 393 110, Dist.: Bharuch, Gujarat. Tel.: (02645) 226011-15

Contact Person:

PRITESH DESAI: 9909994003

Receiver's Name & Address :

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Plot No.: 9701 to 9716, GIDC Estate. Ankleshwar - 393 002, Dist. Bharuch Phone No.: 02646 225228 / 253135

Fax No.: 02646 222849

Contact Person :

B. D. Dalwadi 9909994959

In Case of emergency please contact as above

Manifest No.: - - -

UN Classification No. : 3

Waste Identification No. : U- ML 205

Type of Waste : Light

AQUEOUS ORGANIC

SEMI-SOLID

SOLID

FORM NO. - 8 [See Rule 17(1)and 18(2)] Labeling of Containers of HAZARDOUS AND OTHER WASTE ZARDOUS WASTE

Handle With Care

Waste Category and characteristics an per Part C of Schedules II & III

Incompatible Wastes and Substance:

Total Quantity (Kg.)

Date of Storage : 22-65-19

Rendue for C-101 Physical State of the Waste

Sender's Name & Address:

UPL Limited

(Formerly known as United Phosphorus Ltd)

750, G.I.D.C., P. B. No. 9. Jhagadia - 393 110,

Dist.: Bharuch, Gujarat. Tel.: (02645) 226011-15

Contact Person:

PRITESH DESAI: 9909994003

Receiver's Name & Address:

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Plot No.: 9701 to 9716, GIDC Estate, Ankleshwar - 393 002, Dist. Bharuch Phone No.: 02646 225228 / 253135

Fax No.: 02646 222849

Contact Person:

B. D. Dalwadi 9909994959

In Case of emergency please contact as above

Manifest No.: -

UN Classification No.: 3

Type of Waste:

Waste Identification No. : U- ML 205

AQUEOUS

ORGANIC

TARRY

SEMI-SOLID

SOLID

ANNEXURE-7

FORM 9 TRANSPORT EMERGENCY CARD

FORM 9 [See rule 18 (2)]

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

S.No	Type of waste	Physical properties	Chemical Constituents	Exposure Hazards	First Aid Requirements
1	Incenerable Waste	Liquid	Mix Organic	Irritation to Eyes &headache	Wash with Plenty of water &Soap

2. Procedure to	be followed in	case of fire :			
(Fire to be Exti	nguished By Fo	oam/DCP)			
3. Procedure to	be followed in	case of spillag	ge/accident/exp	losion:	
(Containment v	vith Send)				
4. For expert se	ervices, please	contact:			
(i) Name and A	ddress: (UPL- l	Jnit -5) 746/750) GIDC Jhagadi	a ,Dist :Bharuc	h
(ii) Telephone I	No. :(02645) 226	6011-15			
		(Name, co	ntact number ar	nd signature of	sender)
DatePlaceJhagad					

FORM 9 [See rule 18 (2)]

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

Place...Jhagadia

S.No	Type of waste	Physical properties	Chemical Constituents	Exposure Hazards	First Aid Requirements
1	Incenerable Waste	Liquid	Mix and Organic Low Boiler	Irritation to Eyes &headache	Wash with Plenty of water &Soap

2. Procedure to be followed in case of fire :
(Fire to be Extinguished By Foam/DCP)
3. Procedure to be followed in case of spillage/accident/explosion:
(Containment with Send)
4. For expert services, please contact:
(i) Name and Address: (UPL- Unit -5) 746/750 GIDC Jhagadia ,Dist :Bharuch
(ii) Telephone No. :(02645) 226011-15
(Name, contact number and signature of sender)
Date

FORM 9 [See rule 18 (2)]

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

S.No	Type of waste	Physical properties	Chemical Constituents	Exposure Hazards	First Aid Requirements
1	Incenerable Waste	Liquid	Organic Containt No Moisture		Acidic Use Send For Spillage Wash with Plenty of water

2 Dragadura ta	a ha fallawad in	ooo of fire			
2. Procedure to	be followed in	case of fire :			
(Containment v	with Send)				
3. Procedure to	be followed in	case of spillag	ge/accident/expl	losion :	
(Containment v	with Send)				
4. For expert se	ervices, please	contact:			
(i) Name and A	ddress: (UPL- l	Jnit -5) 746/750	GIDC Jhagadi	a ,Dist :Bharuc	h
(ii) Telephone I	No. :(02645) 226	6011-15			
		(Name, co	ntact number ar	nd signature of	sender)
DatePlaceJhagad					

FORM 9 [See rule 18 (2)]

TRANSPORT EMERGENCY (TREM) CARD

[To be carried by the transporter during transportation of hazardous and other wastes, provided by the sender of waste]

1. Characteristics of hazardous and other wastes:

S.No	Type of waste	Physical properties	Chemical Constituents	Exposure Hazards	First Aid Requirements
1	Incenerable Waste	Liquid	90-95% Water		Corrosive PH Acidic Wash with Plenty of water &Soap

2. Procedure to	o be followed in	case of fire :			
(NA)					
3. Procedure to	o be followed in	case of spillag	je/accident/exp	losion:	
(Containment	with Send)				
4. For expert s	ervices, please	contact:			
(i) Name and A	ddress: (UPL- l	Unit -5) 746/750) GIDC Jhagadi	a ,Dist :Bharuc	h
(ii) Telephone	No. :(02645) 226	6011-15			
		(Name, co	ntact number aı	nd signature of	sender)
Date					

ANNEXURE-8 FORM 10 MANIFEST OF HAZARDOUS & OTHER WASTES

T-		PCB ID: 14983 PASS FOR HAZARDOUS WASTE Incl. No. 1223	
	Sender's name and mailing address (including Phone No. and e-mail):	UPL LIMITED (UNIT-5) †50, 0.1.D.C., Post Box No. 9, Jhagadia-393 110, Dist. Bharpety	
2.	Sender's authorisation No. :	1329109107	
3	XGN Document No. :	1923	
4.	Transporter's name and address (including Phone No. and e-mail):	Vite Comas Movern	
5,	Type of vehicle :	(Truck / Dumper / Special Vehicle)	
6	Transporter's registration No. :	BEIL (Aut 1)	
7.	Vehicle registration No. :	CFT-12-X-3110	
8.	Receiver's Name and mailing address (including Phone No. and e-mail):	BHARUCH ENVIRO INFRASTRUCTURE LTD. Site: Plot No. 9701-9716, GIDC, Ankleshwar, Dist, Bharuch. Ph.: 02646 - 225228 / 253135	
9.	Waste Generator's PCB ID :	(0)	
10.	Waste description :	Tue in The water	
11.	Total quantity :	\$240.99 morMT	
	No. of Containers :	Nos.	
12:			
13.	Special handling instructions and	(Solid / Solid / Stouge / Only / Harry / Sturty / Equity)	
	additional information :	CN	
14.	Sender's Certificate :	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.	
	Name and stamp :		
	UPL LIMITED (UNIT-5) 750, G.I.D.C., Post Box No. 9, Jhagadia-393 110, Dist. Bharuch	Signature 2205201	
15.	UPL LIMITED (UNIT-5)	Signature 2205201	
15.	UPL LIMITED (UNIT-5) 250, G.I.D.C., Post Box No. 9, Jhagadia-393 110, Dist. Bharuch Transporter acknowledgment of receipt of Name and stamp:	Signature 2205201	
15.	UPL LIMITED (UNIT-5) 250, G.I.D.C., Post Box No. 9, Jhagadia-393 110, Dist. Bharuch Transporter acknowledgment of receipt of Name and stamp:	Signature 2205201 Wastes Day Month Year 2205201	
16.	UPL LIMITED (UNIT-5) 750, G.I.D.C., Post Box No. 9, Jhagadia-J93 110, Dist. Bharuch Transporter acknowledgment of receipt of Name and stamp:	Signature 2205201 Day Month Year Signature 2205201 TUBE LTD	
6.	UPL LIMITED (UNIT-5) 750, G.I.D.C., Post Box No. 9, Jhagadia-393 110, Dist. Bharuch Transporter acknowledgment of receipt of Name and stamp: Receiver's certification for receipt of haz	Signature 2205201 Day Month Year Signature 2205201 TUBE LTD	



B.E.I.I. Ankleshwar [14983] (Hazardone Waste Manifest)

Manifest No: 890369 22/05/2019

Copy 1

To be forwarded by the or

	Occupier's Name & Malling Address: Registration No. 14083	25353 - UPL LIMITED (UNIT NO. 5) PLOT NO. 750,746., Progedia - 3971 [70] DIST: Anklindown. TAL. Događia Magon Bosilinov. ANKLESHWAR Pr. 9426717113
5	Transporter's Name & Address :	
i	Transporter's Registration No :	BEIL/ANK/MRL 019
	NUMBER No & Type I	GH2X3110 - TRUCK
1	Designated Lucibity Name & Site Add:	B.E.I.L. Ankleshwar [14983]
ì	Facility's Reg No with PCB	[14983]
i	Waste Type :	Incentrable Water
	Waste Description & Codes :	29.1 Containers: 0
ì	Total Quantity:	10.000 Metric Tonne
i	Consistency :	Liquid
٠	Waste Description :	Incenerable waste
N N	Occupier's Certificate: I hereby decli- by proper ship respects in pro- regulations.	Incenerable waste me that the contents of the consignment are fully and accurately described above me that the contents of the consignment are fully and accurately described above me that the contents of the consignment are fully and accurately described above pping name and are categorised, packed, marked, and labeled, and are in all pping name and are categorised, packed, marked, and labeled, and are in all pping name and are categorised by road according to applicable national government oper condition for transport by road according to applicable national government.

Name & Stamp of Industry

Date: 22/05/2019

Transporter Acknowledgement of Receipt of Wastes

Maruti Roadlines Stamp of:

Date: 22/05/2019 0:00 Signature

14 Discrepancy Note Space

15 Facility Owner or Operator's Certification of Receipt of Hazardons Waste

Date: B.E.I.L. Ankleshwar [14983]

Signature

Sin	mp of:	B.F.I.I., Ankleshwar [14983]		
Sr	Ounstity	Hazardo	as Waste Type	
-	10.000	29.1 - Process wastes or residues		4
-	100000			

Annexure-6

			Annexure-6	
			UPL Unit 5	
	Compl	iance t	o Manufacture, Storage and Import of Hazardous Chemical (Ar	mendment) Rules, 2000.
C		Sub		
Sr. No	Rule No	Rule No		UPL 5 Compliance
1	1	1	These rules may be called the Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000.	Noted.
2	1	2	They shall come into force on the date of their publication in the Official Gazette. DEFINITIONS	Noted.
3			In the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (hereinafter referred to as the said rules), in rule 2,-	
4		a)	"Act" means the Environment (Protection) Act, 1986 (29 of 1986);	Noted.
5		b)	"Authority" means an authority mentioned in Column 2 of Schedule5	Noted.
6		c)	"export" with its grammatical variations and cognate expression, means taking out of India to a place outside India;	Noted.
7		d)	"exporter" means any person under the jurisdiction of the exporting country and includes the exporting country, who exports hazardous chemical;	Noted.
8		e)	"Hazardous Chemical " means	Noted.
9		(i)	any chemical which satisfies any of the criteria laid down in Part I of 1[Schedule 1 or] listed in Column 2 of Part II of this Schedule;	
10		(ii)	any chemical listed in Column 2 of Schedule 2;	Noted.
11	-	(iii)	any chemical listed in Column 2 of Schedule 2;	Noted.
12		f)	"import" with its grammatical variations and cognate expression, means brining into India from a place outside India;	Noted.
13		g)	"importer" means an occupier or any person who imports hazardous chemicals;	Noted.
14	•	h)	industrial activity means-	Noted.
15		:\	an operation or process carried out in an industrial installation referred to in Schedule 4 involving or likely to involve one or more	
15		i)	hazardous chemicals and includes on-site storage or on-site transport which is associated with that operation or process, as the case may be;	
16		ii)	or isolated storage; or	Noted.
17	-	iii)	pipeline ;	Noted.
18	2	(i)	"isolated storage" means storage of a hazardous chemical, other than storage associated with an installation on the same site specified in Schedule 4 where that storage involves atleast the quantities of that	Noted.
19		J)	chemical set out in Schedule 2; "major accident" means -an incident involving loss of life inside or outside the installation, or ten or more injuries inside and/or one or more injuries outside or release of toxic chemicals or explosion or fire or spillage of hazardous chemicals resulting in on-site or offsite emergencies or damage to equipment leading to stoppage of process or adverse affects to the environment;	
20		Ja)	"major accident hazards (MAH) installations" means - isolated storage and industrial activity at a site handling (including transportthrough carrier or pipeline) of hazardous chemicals equal to or, in excess of the threshold quantities specified in, Column 3 of schedule 2 and 3 respectively;]	

			<u>, </u>	
21		К)	"pipeline" means a pipe (together with any apparatus and works associated therewith) or system of pipes (together with any apparatus and workassociated therewith) for the conveyance of a hazardous chemical other than a flammable gas as set out in Column 2 of Part II of Schedule 3 at a pressure of less than 8 bars absolute; the pipeline also includes inter-state pipelines;	
22		11	"Schodula" maans Schodula annonded to these rules:	Noted.
22		l)	"Schedule" means Schedule appended to these rules;	Noted.
23		m)	"site" means any location where hazardous chemicals are manufactured or processed, stored, handled, used, disposed of and includes the whole of an area under the control of an occupier and includes pier, jetty or similar structure whether floating or not;	Noted.
			UPL Unit 5	
	Comp	liance t	to Manufacture, Storage and Import of Hazardous Chemical (A	mendment) Rules, 2000.
Sr.	Rule	Sub		
No	No	Rule	Rule Detail	UPL Compliance
24		No n)	 "Threshold quantity" means, -	Noted.
		,	in the case of a hazardous chemical specified in Column 2 of Schedule	
25		(i)	2, the quantity of that chemical specified in the corresponding entry	
		, ,	lin	Noted.
			Columns 3 and 4;	
			in the case of a hazardous chemical specified in Column 2 of Part I of	
26		(ii)	Schedule 3, the quantity of that chemical specified in the	Neted
			corresponding entry in Columns 3 & 4 of that part;	Noted.
27		(111)	in the case of substances of a class specified in Column 2 of Part II of Schedule 3, the total quantity of all substances of that class specified in the corresponding entry in Columns 3 and 4 of that part.	Noted.
		, ,	DUTIES OF AUTHORITIES – The concerned authority shall, -	
28		(a)	inspect the industrial activity at least once in a calendar year;	Noted.
			except where such authority is the Ministry of Environment and	
29	3	(b)	Forests, annually report on the compliance of the rules by the occupiers to the Ministry of Environment and Forests through appropriate channel;	Noted.
		(c)	subject to the other provisions of these rules, perform the	
30		()	duties specified in column 3 of Schedule 5.] GENERAL RESPONSIBILITY OF THE OCCUPIER DURING INDUSTRIAL ACT	Noted.
32		1)	These rules shall apply to, -	I VIIIY -
52		1)	These rules shall apply to, -	Complied.
33		a)	An industrial activity in which a hazardous chemical, which satisfies any of the criteria laid down in Part I of Schedule 1 1[or listed] in Column 2 of Part II of this Schedule is, or may be, involved; and	The Rules are applicable to different Hazardous Chemicals Storages within existing premises. The list of Hazardous Chemicals Storage with capacities are given in Annexure 4 of Annexure A - On Site Emergency Plan.
34		[b)	isolated storage of a hazardous chemical listed in Schedule 2 in a quantity equal to or more than the threshold quantity specified in Column 3, thereof.]	Complied. The Unit has obtained necessary license for storage of applicable hazardous chemicals as per Petroleum and Explosives Safety Organization legislations. The storage quantities are well within permission as well as well within threshold values given in column 3. The storage capacities of all hazardous chemicals is given as Annexure 4 of On site emergencyplan attached as Annexure A.
		2)	An occupier who has control of an industrial activity in terms of	
35		2)	sub-	
			rule (1) shall provide evidence to show that he has, -	

				Complied.
		(a)		Yes, Industry has identified Major Hazards are
36 37		/b\	identified the major accident hazards; and	given in Annexure A - On site emergency plan
37		(b)	taken adequate steps to -	
				Complied.
		(i)		Yes, Industry has provided all applicable safety
		('')	Prevent such major accidents and to limit their consequences	measures for prevention of accidents and
38			to persons and theenvironment;	minimized consequences.
				Complied.
				The regular in-house trainings are organized
		(ii)	provide to the persons working on the site with the	for persons working or newly joined to
			information, training and equipment including antidotes necessary	organization. The copy of latest training
39			to ensure their safety.	schedule is attached as Annexure B.
			An occupier shall notify to the concerned Authority, steps taken to	Maria
10		(111)	avoid any repetition of such occurrence on a site.	Notea.
40		. ,	avoid any repetition of such occurrence on a site.	
			The second of A second	
		(IV)	The concerned Authority shall compile information regarding major	
41		, ,	accidents and make available a copy of the same to the Ministry of	Noted.
41			Environment & Forests through appropriate channel.	
			The concerned Authority shall in writing inform the occupier, of any	
		(V)	lacunae which in its opinion needs to be rectified to avoid major	
42			accidents.]	Noted.
1				
	4			
			UPL Unit 5	
-	C	·		
	Compi		o Manufacture, Storage and Import of Hazardous Chemical (Ai	menament) kules, 2000.
Sr.	Rule	Sub		
No	No	Rule	Rule Detail	UPL Compliance
	.,,	No		
43			NOTIFICATION OF MAJOR ACCIDENT -	
			Where a major accident occurs on a site or in a pipe line, the	Complied.
			occupier shall 3 [within 48 hours notify] the concerned authority as	The industry is having mechanism for reporting of
		1	identified in Schedule 5 of that accident, and furnish thereafter to	any major accident occurrences to concerned
			the concerned authority a report relating to the accidents in	Authority.
44			installments, if	
			necessary, in Schedule 6.	
—			necessary, in schedule o.	
			The concerned authority shall on receipt of the report in	
		2	accordance with sub-rule 1 of this rule, shall undertake a full	
			analysis of the major accident and sent the [requisite	
l			information within 90 days to the Ministry] of Environment and	
45			Forests through appropriate channel.	Noted.
-				Complied.
1		2	An occupier shall notify to the concerned Authority, steps taken to	I_, , , , , , , , , , , , , , , , , , ,
46		3	l ' ' ' '	on applicability.
F			avoid any repetition of such occurrence on a site.	
1			The concerned Authority shall compile information regarding major	
17		4	accidents and make available a copy of the same to the Ministry of	Noted
47			Environment & Forests through appropriate channel	ivoted.
\vdash			The concerned Authority shall in writing inform the occupier, of any	
1	4	5	lacunae which in its opinion needs to be rectified to avoid major	
48		,		Noted.
49			accidents INDUSTRIAL ACTIVITY TO WHICH RULES 7 TO 15 APPLY -	
50		1	Rules 7 to 15 shall apply to, -	
-		1	Traics / to 15 Shall apply to, -	
				Complied.
1				As per applicability of rules, the company has
			an industrial activity in which there is involved a quantity of	identified hazardous chemicals stored at site.
		(a)		The details of storages of different hazardous
			to or more than the quantity specified in the entry for that	
51			chemical in Column 3 & 4 (Rules 10-12 only for Column 4); and	-On site Emergency Plan.
31				Computing
1				Complied.
1			isolated storage in which there is involved a quantity of a	As per applicability of rules, the company has
1		(b)	hazardous chemical listed in Column 2 of Schedule 2 which is	identified hazardous chemicals stored at site.
1		(n)	equal to or more than the quantity specified in the entry for that	The details of storages of different hazardous
1			equal to or more than the qualitity specified in the entry for that	chemicals are given in Annexure 4 of Annexure A
			chemical in Column 3[3 & 4 (rules 10-12 only for column 4).]	

52	l			Oncita Emergency Plan
				-Onsite Emergency Plan.
53]	2	For the purpose of rules 7 to 15,	
54		(A)	"new industrial activity" means an industrial activity which, –	
		(i)		
55		\''	commences after the date of coming into operation of these rules;	Noted.
<u> </u>	}		or if commenced before that date, is an industrial activity in which a	
			l ·	
	6	(ii)	modification has been made which is likely to cover major accident	
56			hazards, and that activity shall be deemed to have commenced on	Noted.
			the	
-	}		date on which the modification was made; an "existing industrial activity" means an industrial activity which is	
57		(B)	not	Noted.
			a new industrial activity.	
58			[APPROVAL AND] NOTIFICATION OF SITES -	
				Complied.
			An occupier shall not undertake any industrial activity 2[unless he	The copy of schedule 7 is attached as Annexure B
			has beengranted an approval for undertaking such an activity and	The UPL Unit 5 has taken necessary approval from
1			has submitted a written report to the concerned authority	Chief Factory Inspector and concerned authority
		/	containing the particulars specified in Schedule 7 at least 3	for storage of identified Hazardous Chemicals
		(i)	months before commencing that activity or before such shorter	based on applicability of Rules. The Industria
			time as the concerned authority may agree and for the purpose of this paragraph, an activity in which subsequently there is or is	activities are carried out after approval from
			liable to be a threshold quantity or more of an additional	l <u>.</u>
			hazardouschemicalshallbedeemed to be a different activity and	
59			shall be notified accordingly.	C.
\vdash	{		The concerned Authority within 60 days from the date of receipt of	
		(11)	the report shall approve the report submitted and on	
			consideration of the report if it is of the opinion that	
60	_		contravention of the provisions of the Act or the rules made	Noted.
	7		thereunder has taken place, it shall issue notice	Noted.
-			under rule 19]. UPDATING OF THE SITE NOTIFICATION FOLLOWING CHANGES IN THE	
61			THRESHOLD QUANTITY -	
			UPL Unit 5	
	Comp	liance t	to Manufacture, Storage and Import of Hazardous Chemical (Al	mendment) Rules. 2000.
		Sub		
Sr.	Rule	Rule	Rule Detail	UPL Compliance
No	No	No		0. 2 comp
			Where an activity has been reported in accordance with rule 7(1)	
			and the occupier makes a change in it (including an increase or	
			decrease in the maximum threshold quantity of a hazardous	
			chemical to which this rule applies which is or is liable to be at the	
			site or in the pipeline or at the cessation of the activity) which	
			affects the particulars specified in that report or any subsequent	
1			reportmade under this rule, the occupier shall forthwith furnish	Complied.
62			a further report to the concerned authority.	The UPL 5 Reports any changes made in
62	8			Hazardous Chemicals Storage based on
63			 Transitional provisions	Applicability of rules.
64			Where. –	
-			at the date of coming into operation of these rules, an occupier	
		(a)		
65		(4)	isin control of an existing industrial activity which is required to	Complied. The UPL Reports activities as per Rule 7.
			be	
\vdash			reported under rule 7(1); or within 6 months after that date, an occupier commence any such	
66		(b)	new	Complied. The UPL Reports activities as per Rule 7.
			industrial activity;	
			it shall be a sufficient compliance with that rule if he reports to	
			the concerned authority as per the particulars in Schedule 7	
			within 3 months after the date of coming into operation of	
			these rules or within such longer time as the concerned	
67	9		authoritymayagreein	Noted.

	[writing.	
68				
69	10		SAFETY REPORTS 1[AND SAFETY AUDIT REPORTS] -	
70		1	Subjects to the following paragraphs of this rule, an occupier shall not undertake any industrial activity to which this rule applies, unless he has prepared a safety report on that industrial activity containing the information specified in Schedule 8 and has sent a copy of that report to the concerned authority at least ninety days before commencing that activity.	Complied. UPL 5 Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in Annexure D.
71		2	Inthe case of a new industrial activity which an occupier commences, or by virtue of sub-rule (2) (a) (ii) of rule 6 is deemed to commence, within 6 months after coming into operation of these rules, its hall be a sufficient compliance with sub-rule (1) of this rule if the occupier sends to the concerned authority a copy of the report required in accordance with that sub-rule within ninety days after the date of coming into operation of these rules.	Noted.
72		3	Incase of an existing industrial activity, the occupier shall prepare a safety report in consultation with the concerned authority and submit the same within one year from the date of commencement of the Manufacture, Storage and Import of Hazardous Chemicals (Amendment) Rules, 1994 to the concerned Authority.	Complied. UPL 5Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in Annexure D.
73		4	After the commencement of the Manufacture, Storage and Import of Hazardous Chemicals (Amendment) Rules, 1994, the occupier of both the new and the existing industrial activities shall carry out an independent safety audit of the respective industrial activities with the help of an expert, not associated with such industrial activities.	Complied. UPL Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in AnnexureD.
74		5	The occupier shall forward a copy of the auditor's report along with his comments to the concerned Authority within 30 days after the completion of suchAudit.]	Complied. UPL 5 Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in Annexure D.
75		6	The occupier shall update the safety audit report once a year by conducting a fresh safety audit and forward a copy of it withhis comments the reonwithin 30 days to the concerned Authority.	Complied. UPL 5 Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in Annexure D.

			UPL Unit 5	
	Comp	liance t Sub	o Manufacture, Storage and Import of Hazardous Chemical (An	mendment) Rules, 2000.
Sr. No	Rule No	Rule No	Rule Detail	UPL Compliance
76 77	11	7	The concerned Authority may if it deems fit, issue improvement notice under rule 19 within 45 days of the submission of the said report.] UPDATING OF REPORTS UNDER RULE 10-	
, '8	11	1	Where an occupier has made a safety report in accordance with subrule (1) of rule 10 he shall not make any modification to the industrial activity to which that safety report relates which could materially affect the particulars in that report, unless he has made a further report to take account of those modifications and has sent a copy of that report to the concerned authority at least 90 days before making those modifications.	
' 9		2	Where an occupier has made a report in accordance with rule 10 and sub - rule (1) of this rule and that industrial activity is continuing the occupier shall within three years of the date of the last such report, make a further report which shall have regard in particular to new technical knowledge which has affected the particulars in the pervious report relating to safety and hazard assessment and shall within 30 days 2[***] send a copy of the report to the concerned authority.	
0	12		REQUIREMENT FOR FURTHER INFORMATION TO BE SENT TO THE AUTHORITY -	
31			Where, in accordance with rule 10, an occupier has sent as a fety report and the safety audit report relating to an industrial activity to the concerned Authority, the concerned Authority may, by a notice served on the occupier, require him to provide such additional information as may be specified in the notice and the occupier shall send that information to the concerned Authority within 90 days	Complied. UPL 5 Prepares Safety Audit Report and submits to Concerned Authority once in a Year. The Copy of Safety Audit Report Submission Acknowledgement is given in Annexure D.
32	13		PREPARATION TO ON-SITE EMERGENCY PLAN BY THE OCCUPIER -	
33		1	An occupier shall prepare and keep up-to-date 4[an on-site emergency plan containing details specified in Schedule II and detailing] how major accidents will be dealt with on the site on which the industrial activity is carried on and that plan shall include the name of the person who is responsible for safety on the site and the names of thosewhoareauthorized to take action inaccordance with the plan in case of an emergency.	Complied. UPL 5 Prepares Onsite Emergency Plan and submits to Concerned Authority once in a Year. The Copy of Onsite Emergency Plan
34		2	The occupier shall ensure that the emergency plan prepared in accordance with sub-rule (1) takes into account any modification made in the industrial activity and that every person on the site who is affected by the plan is informed of its relevant provisions.	Complied. UPL 5 Prepares Onsite Emergency Plan and submits to Concerned Authority once in a Year. The Copy of Onsite Emergency Plan Submission Acknowledgement is given in Annexure E.
35		3	The occupier shall prepare the emergency plan required under sub-rule (1)	Complied. UPL 5 Prepares Onsite Emergency Plan and submits to Concerned Authority once in a Year. The Copy of Onsite Emergency Plan Submission Acknowledgement is given in Annexure E.
36		а	in the case of a new industrial activity, before that activity is commenced;	Noted.
,0	J		commenced,	

87		b	inthe case of an existing industrial activity within 90 days of commencing into operation of these rules.	Complied. UPL 5 Prepares Onsite Emergency Plan and submits to Concerned Authority once in a Year. The Copy of Onsite Emergency Plan Submission Acknowledgement is given in Annexure E.
88		4	The occupier shall ensure that a mock drill of the on-site emergency plan is conducted every six months;	Complied. The UPL conducts regular mock drills as per onsite emergency plan. The detailed report is submitted to concerned authority. The copy of
			UPL Unit 5	
	Comp	liance t	to Manufacture, Storage and Import of Hazardous Chemical (A	mendment) Rules, 2000.
Sr. No	Rule No	Sub Rule No	Rule Detail	UPL Compliance
89		5	A detailed report of the mock drill conducted under sub-rule (4) shall be made immediately available to the concerned Authority.	Complied. UPL conducts regular mock drills as per onsite emergency plan. The detailed report is submitted to concerned authority. The copy of onsite emergency report submission acknowledgement is given as Annexure E.
90	14		DDEDADATION OF OUR SITE EMEDICENCY DI ANDVIUE ALITHODITY	
91		1	(1) It shall be the duty of the concerned authority as identified in Column 2 of Schedule 5 to prepare and keep up-to-date 2[an adequate off-site emergency plan containing particulars specified in Schedule 12 and detailing] how emergencies relating to a possible major accident on that site will be dealt with and in preparing that plan the concerned authority shall consult the occupier, and such other persons as it may deem necessary.	Noted. The cooperation is extended to concerned authority for preparation of offsite emergency plan as well as unit is a member of JIA, Mutual Aid with near by industries, Disaster Control Centre, Ankleshwar. & hospitals at Jhagadia & Ankleshwar
92		2	For the purpose of enabling the concerned authority to prepare the emergency plan required under sub-rule (1), the occupier shall provide the concerned authority with such information relating to the industrial activity under his control as the concerned authority may require, including the nature, extent and likely effects off-site of possible major accidents and the authority shall provide the occupier with any information from the off-site emergency planwhich relates to his duties under rule 13.	Noted. The cooperation is extended to concerned authority for preparation of off site emergency plan as well as unit is a member of JIA, Mutual
93		3	The concerned authority shall prepare its emergency plan required under sub-rule (1),-	Noted. The cooperation is extended to concerned authority for preparation of off site emergency
94		(A)	In the case of a new industrial activity, before that activity is commenced;	Noted
95		(B)	In the case of an existing industrial activity, within six months of coming into operation to these rules.	Noted. The cooperation is extended to concerned authority for preparation of off site emergency plan as well as unit is a member of . JIA , Mutual Aid with near by industries , Disaster Control Centre, Ankleshwar. & hospitals at Jhagadia & Ankleshwar
96	15	4	The concerned authority shall ensure that a rehearsal of the off-site emergency plan is conducted at least once in a calendar year.] INFORMATION TO BE GIVEN TO PERSONS LIABLE TO BE AFFECTED BY	Noted.
97	15		A MAJOR ACCIDENT -	
98		1	The occupier shall take appropriate steps to inform persons outside the site either directly or through District Emergency Authority who are likely to be in an area which may be affected by a major accident	

			about, -	<u> </u>
			assut,	
\vdash				The Unit has mechanism to reprort major accident
99		(a)	the nature of the major accident hazard; and	to concern authority.
		/b)	the safety measures and the "Do's' and 'Don'ts" which should	
100		(b)	be adopted in the event of a major accident.	to concern authority.
			The occupier shall take steps required under sub-rule (1) to inform	
			persons about an industrial activity, before that activity is	Complied.
		2	commenced, except, in the case of an existing industrial activity in	The UPL Unit 5 is existing unit and has displayed
			The state of the s	storage details of hazardous chemicals at outside
101			rule (1) within 90 days of coming into operation of these rule.	of factory gate for information to Public.
102	16		DISCLOSURES OF INFORMATION	
			Where for the purpose of evaluating information notified under	
			rule 5 or 7 to 15, the concerned authority discloses that	
			information to some other person, that other person shall not	
			use that information for any purpose except for the purpose of	
			the concerned authority disclosing it, and before disclosing the	
			information the concerned authority shall inform that other	
103			person of his obligations under this	Noted.
\vdash	17		paragraph. COLLECTION, DEVELOPMENT AND DISSEMINATION OF	
104	1,		INFORMATION	
			UPL Unit 5	
	Comp	liance t	o Manufacture, Storage and Import of Hazardous Chemical (Ar	mendment) Rules, 2000.
Sr.	Rule	Sub		
No	No	Rule	Rule Detail	UPL Compliance
1,10	140	No		
			This rule shall apply to an industrial activity in which a hazardous	Noted.
		1	This rule shall apply to an industrial activity in which a hazardous chemical which satisfies any of the criteria laid down in part I of	l
		-	Schedule 1 1[or listed] in Column 2 of Part II of this Schedule is or	site as per Schedule 1. The list of Hazardous
105			may be involved.	Chemicals with storage capacities are given in
				Annexure 4 of Annexure A (On site emergency
\vdash				plan).
			An occupier, who has control of an industrial activity in term of	Complied. The Unit has developed Material
		2	sub- rule 1 of this rule, shall arrange to obtain or develop	Safety Data Sheet for all Hazardous Chemicals
			information in the form of safety data sheet as specified in	Manufactured or Stored. The sample copy of
106				MSDS is enclosed as Annexure G.
			for reference.	
			The accuming while obtaining or developing a sefet what sheet as	Complied. The Unit has developed Material
			The occupier while obtaining or developing a safety data sheet as specified in Schedule 9 in respect of a hazardous chemical handled by	· ·
			him shall ensure that the information is recorded accurately	Manufactured or Stored. The sample copy of MSDS is enclosed as Annexure G.
		3	and reflects the scientific evidence used in making the hazard	MISDS is enclosed as Annexure G.
			determination. In case, any significant information regarding	
			hazard of a chemical is available, it shall be added to the material	
107			safety data sheet as specified in Schedule 9 as soon as practicable.	
10/				Complied. The Unit has developed Material
		l .		Safety Data Sheet for all Hazardous
		4	Every container of a hazardous chemical shall be clearly labelled	Chemicals Manufactured or Stored & labeled
108			or marked to identify-	on every container.
109		а	the contents of the container;	,
П				Complied. The Unit has developed Material
		h		Safety Data Sheet for all Hazardous
110		b	the name and address of manufacturer or importer of the hazardous determined a continuous and a conti	Chemicals Manufactured or Stored & labeled
110			chemical;	on every container.
				Complied. The Unit has developed Material
		С		Safety Data Sheet for all Hazardous
111			the physical, chemical and toxicological data as per the criteria	Chemicals Manufactured or Stored & labeled
111			given at Part I of Schedule 1.	on every container.

			In terms of subrule 4 of this rule where it is impracticable to label a substitution of the properties of the properti	Complied. The Unit has developed Material
		5	chemical in view of the size of the container or the nature of the	Safety Data Sheet for all Hazardous
112		,	package, provision should be made for other effective means like	Chemicals Manufactured or Stored & labeled
112			tagging or accompanying documents	on every container.
113	18		IMPORT OF HAZARDOUS CHEMICALS	
			This rule shall apply to a chemical which satisfies any of the criteria	
1,,,		1	laid down in Part I of Schedule 12[or listed] in Column 2 of Part II of	Not A or Product
114			this Schedule.	Not Applicable
		2	Any person responsible for importing hazardous chemicals in India	
			$shall\ provide\ 1 [before\ 30\ days\ or\ as\ reasonably\ possible\ but\ not\ later than]\ the\ date\ of\ im\ port\ to\ the\ concerned\ authorities\ as\ identified$	
115			in Column 2 of Schedule 5 the information pertaining to, -	
1112			the name and address of the person receiving the consignment in	Not Applicable
116		(i)	India;	Not Applicable
117		(11)	the port of entry in India;	Not Applicable
118		(111)	mode of transport from the exporting country to India;	Not Applicable
119 120		(iv) (v)	the quantity of chemical (s) being imported; and complete product safety information	Not Applicable Not Applicable
120		(•)	If the Concerned Authority of the State is satisfied that the	
			chemical being imported is likely to cause major accidents, it may	
		3	direct the importer to take such safety measures as the concerned	
121			Authority of	Noted
			the State may deem appropriate.]	
			3[(3A) In case the concerned Authority of the State is of the	
		3A	opinion that the chemical should not be imported on safety or	
122		JA.	on environmental considerations, such Authority may direct	Neved
122			stoppage of	Noted
Щ			such import.]	
			The concerned Authority at the State shall simultaneously inform	
		4	the concerned Port Authority to take appropriate steps regarding	
123			safe handling and storage of hazardous chemicals while off-	Noted
			loadingthe	
\vdash			consignment within the port premises. UPL Unit 5	
-	Comp	lianco t	o Manufacture, Storage and Import of Hazardous Chemical (A	mendment) Pules 2000
\vdash		Sub	o Manufacture, Storage and Import of Hazardous Chemical (Al	Hendment, Rules, 2000.
Sr.	Rule	Rule	Rule Detail	UPL Compliance
No	No	No		·
			Any person importing hazardous chemicals shall maintain the	
1 1		г	records of the hazardous chemicals imported as specified in	
		5	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for	
124		5	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry	
124		5	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for	
124		5	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in	Noted
124			records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf.	Noted
124		5	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his	Noted
			records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a personworking on his behalf shall ensure that transport of hazardous chemicals from	Noted
124			records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor	Noted
125			records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988.	Noted
	19		records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES -	Noted
125	19		records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has	Noted
125	19		records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority	Noted
125	19		records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " and the state of the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on him a notice (in this para referred to as " and the serve on the serve o	Noted
125	19	6	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concernedauthority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the	Noted
125	19	6	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as "an improvement notice") requiring that person to remedy the contravention or, as the case may be, 1 [the matters occasioning it	Noted
125	19	6	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concernedauthority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. The importer of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the	Noted
125	19	6	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concernedauthority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. Theimporter of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the contraventionor, as the case may be, 1 [the matters occasioning it within 45 days.]	Noted
125	19	1	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. Theimporter of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the contraventionor, as the case may be, 1 [the matters occasioning it within 45 days.] A notice served under sub-rule (1) shall clearly specify the measures to be taken by the occupier in remedying said	Noted
125 126 127		1	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concernedauthority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. Theimporter of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the contraventionor, as the case may be, 1 [the matters occasioning it within 45 days.]	Noted
125	19	1	records of the hazardous chemicals imported as specified in Schedule 10 and the records so maintained shall be open for inspection by the concerned authority at the State or the Ministry of Environment and Forests or any officer appointed by them in this behalf. Theimporter of the hazardous chemical or a person working on his behalf shall ensure that transport of hazardous chemicals from port of entry to the ultimate destination is in accordance with the Central Motor Vehicles Rules, 1989 framed under the provisions of the Motor Vehicles Act, 1988. IMPROVEMENT NOTICES - if the concerned authority is of the opinion that a person has contravened the provisions of these rules, the concerned authority shall serve on him a notice (in this para referred to as " an improvement notice") requiring that person to remedy the contraventionor, as the case may be, 1 [the matters occasioning it within 45 days.] A notice served under sub-rule (1) shall clearly specify the measures to be taken by the occupier in remedying said	Noted

		The Central Government may, at any time, by notification in the	
130		Official Gazette, make suitable changes in the Schedules.	Noted



ON-SITE EMERGENCY PLAN

[Prepared as required by Schedule 8-A, Rule 68 - J (12) (1) of The GFR 1963]

PART-1

OF

M/s UPL LTD., UNIT - 5

Jhagadia

SEPTEMBER 2017

Address:

Plot No- 746 & 750 GIDC Industrial Estate, P.B.No.09, Jhagadia, Dist: Bharuch-393110

Annexure B

Annexure B

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

Particulars to be included in a notification of a site

1	The name and address of the employer making the notification.	Mr Subhat Kumar
		Jindal
		UPL Limited 716/750
		G.I.D.C.
		Jhagadia – 393110, Bharuch
2	The full result address of the site out on the great field in distance	Gujarat.
2	The full postal address of the site where the notifiable industrial	
	activity will be carried on.	G.I.D.C.
		Jhagadia – 393110, Bharuch
3	The area of the site covered by the notification and of any adjacent	Gujarat.
3		Area of adjacent site:
	schedule 2 and 3.	North side : Road – DCM Shriram South side : Road – S Kumar
	Scriedule 2 and 3.	East side : Road – BEC Fertilisers
		West side : Road – Gulshan Ltd
4	The date on which it is anticipated that the notifiable industrial	The activity commenced from Year
	· ·	1996, after receiving necessary
	statement to that effect.	licenses /approvals from various
		authorities.
5		Annexure -1
	The name and maximum quantity liable to be on the site of each	
	dangerous substance for which notification is being made.	
6	Organization structure namely organization diagram for the	Annexure -2
	proposedindustrialactivityandsetupforensuringsafetyand health.	
7	Information relating to the potential for major accidents,	Annexure -3
	namely-	
8	Information relating to the site namely-	Annexure -4
	(a) a map of the site and its surrounding area to a scale large	Annexure -5
	enough to show any features that may be significant in the	
	assessment of the hazardorrisk associated with the site,-	
	1. area likely to be affected by the major accident.	
	2. Population distribution in the vicinity.	

UPL LIMITED (Unit-5)

Annexure B

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

	(b) a scale plan of the site showing the location and quantities of all significant inventories of the hazardous chemicals;	
	(c) a description of the process or storage involving the hazardous chemicals and an indication of the conditions under which it is normally held;	Annexure -5
	(d) the maximum number of persons likely to be present on site.	
9.	The arrangement for training of workers and equipment necessary to ensure safety of such workers.	

LIST OF ANNEXURES;

ANNEXURE -1	DETAILS OF HAZARDOUS CHEMICALS
ANNEXURE -2	EHS ORGANOGRAM
ANNEXURE-3	POTENTIAL FOR MAJOR ACCIDENT
ANNEXURE -4	INFORMATIION RELATING TO SITE
ANNEXURE -5	TRAININGOFWORKERSANDEQUIPMENTSNECESSARYTOENSURESAFETYOFSUCH
	WORKERS
ANNEXURE -6	KEY MAP OF GIDC
ANNEXURE -7	APPROVED LAY OUT OF SITE



Annexure B

Safety Training Record

UPL Limited A UNIT-1 ANK INTERNAL/IN-HOUSE/INDUCTION	LESHWAR FRAINING ATTENDANCE SHEET			
TOPIC: 6-096-1 Sat. in FACULTY: A. Banergio. TIME: 9.50 to S. volon VENUE: REFERENCE: Batch NO: -	UPL-2 A	121 STA	5[19]	
Sr.No. NAME OF PARTICIPANT	DEPT.	EMP. NO	SIGN	
1. Jayprakash lohar	RED		Jugo	
Z Shobbit Ninomia	Norpac +		tillk_	
3 Ramsawavey Yadar	Road within		Ra	
4 Murest Fal.	Production		Delay	
5 Rajesh A. Tairon	Pooduation		POTIONEN	
6 Mukesh Chauhan	Minter		man	
7 Nikhel Somh	Safety		Bingh	
(8) Romit Rife!	meline		RIN	
9 Hitesh Projulati	Production		00	
10 SHIVAM PATEL	HB		Alpho-	
11 Milhon B Parchal.	Sately.		lan	
12 Ridesh Singh	Apr.		Ridell	
13. Manish Vasava	DPP.		Memish	
Many Sounds				
(Acon	7			



Annexure B

(UPL Limited ANKL			F/HRD/002
	INTERNAL/IN-HOUSE/INDUCTION TRAI		IDANCE S	MEET
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_	JAISWINI VYAS	HR		grand
03	Pankoj K. Projepati	Intrumal		tooket
04	MOHAMAD SALIM	Production		The
05	Chetern Mus feetiga	Electrical		There
26	Badam singh	Abwer Plant		Bu
07	BhAVIN B. PRAJAPATI	MEE		Bli
08	Avinash . B. Marrathe	pooduction		Bute
09	PARMAR DHARMANDERSIN M.	UTTER OPEREN		Jung
10	Rahul Yogesh Mooli	Marin Jamente		Rymuli
11	Mayur Anilbhai Modi	Paraduction		Maryus
12	Jaydeep c. Peetel	Marnhenner		Wheel
13	Patel Neel rumpe Bhupenesershai	AOCP		arno/
14	CHANTAN GACHWRUMAR RAMESHBHAI			00
15	Thakur Nilesh zevidas	RED		None
16	More Avinash Raosaheb	R&D		Amora
17	Pradeep Shamras Sapkare	840		Bp.
18	Gaurar Kishor Bhange	mech maint		1
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20	SHAHNAWAZ ALAM	Civil		Sharman ?
21	AJAY. K PARMAR	FITTER		All
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(UPL Limited ANKLI			F/HRD/002
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Sr.No.	NAME OF PARTICIPANT	DEPT.	EMP. NO	SIGN
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2	AJAY K PARMAR	ENCTO		ALL.
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4	Bhassey. A. Modi	Inst		(Jan
5	DHARMAHDRASIM M. PARMAR (UNH 3)	YTETTY PRISON		Der
6	Jaydeep c. Parel	Maintones		Neel
7	Pankaj K. Prajopob (Uniha)	Inst.		Pankak
8	Mayur Anilbhai Modi	Paroduction		Mayer
09	Gantar Kichol Bhange	Mechanical		-41
10	SHAHNAWAZ ALAM	Solety (cur)		Shahnawo
11	cheten Mossfatiga	Eleakira		Los
12	BURUIN B. PARTAPRITI	MEE		The
13	Neel Rutel	AOSP		(Digital
14	Charles Sachin	Restorale		Po
15	Roben Yadav	Personale		Robergan
16	Badom Singh	Daves Plant		Ba
17	Rabul Yogesh Modi	Majulanon		Rymon
18	AJINK KUMAR	Engg.		Air
19	Pradeco Shamres Sagrale	KAD		Fin
20	Sachan Ku mundul	Ideal ever		1800
21	Mere Avinash Raosaheb	RFD		Almon
22	Thakur Nilexh Devidas	RED		Bod
23	Avinash B. Marathe	Production		Bute
Du	Mohamad galin	Procluction		1/2
25	JAISWINI VYAS	HR		dinital
26	Vijay chawhan 18 mg 5 :	Trainer		Obje.
	22			
	1 40 030 g			

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

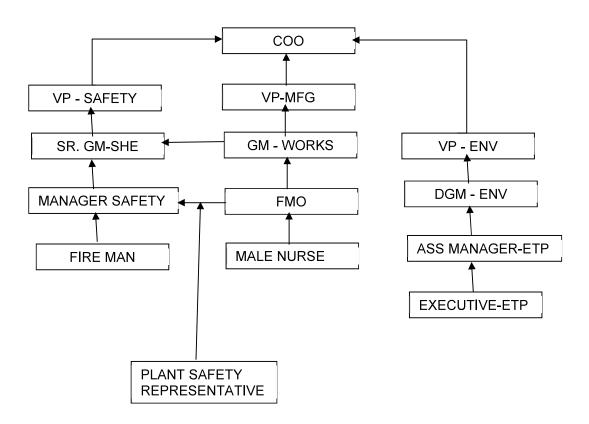
<u>ANNEXURE – 1</u> DETAILS OF HAZARDOUS CHEMICALS

Sr.	Name of hazardous substances	Quantity			
		Maximum that can be stored	Actually stored		
1.	Chlorine	207 Ton(in Tank)	200 Ton		
		205 Ton(in Toner)CCP Plant	200 Ton		
2.	Hydrogen	3064 Nm3 CCP Plant	2900 Nm3		
		150 Nm3	130 Nm3		
3.	Hydro-Chloric Acid	306 Ton CCP Plant	280 Ton		
4.	White Phosphorus	100 Ton+100 Ton	80 Ton+80 Ton		
5.	Phosphorus Trichloride	250 Ton	200 Ton		
6.	POCL3	30 Ton	20 Ton		
7.	HSD	98 KL	60 KL		
8.	Acetone	15 TON	15 TON		
9.	DEK	15 TON	10 TON		
10.	PCI5	50 TON	35 TON		
11.	EDA	200 KL	180 KL		
12.	CS2	300 KL	200 KL		
13.	UPC-40 CS2	1358 M3	1258 M3		
14.	Tri Methyl Phosphite	20 KL	20 KL		
15.	N Butanol	25 KL	20 KL		
16.	Iso Butanol	25 KL	20 KL		
17.	UPF-60 PDA	100 KI	80 KL		
18.	Tetrahydrofuran	20 KL	20 KL		
19.	Acrolein	20 KL	20 KL		
20.	Methanol	70 KL X 2	140 KL		
21.	Ethanol	15 KL X 2 Nos	15 KL		
22.	Recovered Ethanol	12 KL	12 KL		
23.	Sodium Cyanide	20 ton	20 ton		
24.	Coal	5000 Tons	5000 Tons		
25.	Propylene	100 X 2 Nos =200 MT	100 MT		
26.	Toluene	30 KL	NIL		
27.	Chloro Acetyle chloride	40 kl	NIL		
28.	Heptane	15 KL X 2 Tanks	30 KL		

SCHEDULE -7 [See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

ANNEXURE -2 EHS ORGANOGRAM



SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

<u>ANNEXURE – 3</u> POTENTIAL FOR MAJOR ACCIDENT

FOLLLOWINGS ARE THE POTENTIAL FOR MAJOR ACCIDENT

a. Identification of major accident hazards:

Fire Hazards, Toxicity Hazard, Reactivity Hazard.

Fire Hazard

1. The condition of events which could be significant in one about leads to fire:

Equipment failures, presence of open flame or spark in the area, static charge accumulation, open live cables and reaction between incompatible chemicals are some of the reasons which lead to the occurrence of fire.

- 2. A brief description of the measures taken to prevent fire.
 - Proper earthing connections for the all the equipment are given.
 - All the electrical connections are done with flame proof fittings.
 - Temp indicators are placed at the reactors and the operators note the readings at regular intervals. Shift officers supervise them.
 - Fire extinguisher and fire hydrant system have been provided in the plant.

Toxicity Hazard

1. The condition of events which could be significant in one about leads to Toxicity Hazard

Incase of failure of bottom vale or overflow of the blending vessel, the hazardous chemical will splash /fall on the employees working on the ground floor.

In case of failure of valve, pipe lines or pop up of safety valve of Anhydrous Ammonia storage tank or failure of valve, leakage of chlorine cylinder.

2. A brief description of the measures taken to prevent fire.

The spillage will be confined to the dyke area underneath the vessel. The resultant splash of the above chemicals will result in exposure of Organo Phosphorus compounds to employees.

UPL LIMITED (Unit-5)

Annexure B

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

There are two nos. decontamination facilities (Safety shower & eye wash fountains) provided in the plant area, which can be used to decontaminate the affected employees. The employees are supposed to remove their contaminated clothing's & have a through wash with plain water under these facilities.

In case of Ammonia Storage tank, following precautions are taken,

- Preventive maintenance schedule is prepared and implemented.
- Skilled employees are deputed for the operations.
- All employees are trained for operations.
- Sprinkler system is provided,
- ❖ Double safety valve/Ammonia sensors arrangements are provided.
- Level indicator is installed on each tank and level is closely and regularly monitored.
- Storage facility is approved from Chief controller of explosive.

In case of Chlorine toner, following precautions are taken,

- Emergency Chlorine kit/Chlorine sensors provided.
- Skilled employees are deputed for the operations.
- All employees are trained for operations.
- Regular training is arranged for safe handling of chlorine toner and methods to use chlorine kit in case of leakage of chlorine
- Scrubbers are installed to scrub the leak chlorine.
- Storage facility is approved from Chief controller of explosive.
- Electrical crane is used for shifting the cylinders.

Reactivity Hazard

 The condition of events which could be significant in one about leads to Reactivity Hazard:

 $During\ perckow\ reaction\ in\ MCP\ plant\ there\ may\ be\ chance\ of\ run\ away\ reaction\ which\ is\ controlled\ TMP\ addition\ and\ various\ safety\ interlocks.$

- 2. A brief description of the measures taken to prevent Run Away Reaction
 - All the parameter are controlled by controllers.
 - Alarm is given on temperature to inform the operator about the high temperature of reaction and the feed cut of was provided at High High (safe temperature). At high high temperature, the all feed stops at thus reaction stops,
 - The reactor is jacketed, and cooling is continues all the time. The alarms are provided to indicate the failure of cooling system to reactor.

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

ANNEXURE – 4 INFORMATIION RELATING TO SITE

- a. A map of the site and its surrounding area to a scale large enough to show any features that may be significant in the assessment of the hazard or risk associated with the sites:
 - I) area likely to be affected by the major accident .: 219 acres.

MAP is enclosed herewith showing all the details Annexure 6.

- ii) Population distribution in the vicinity.
- b. A scale plan of the site showing the location and quantity of all significant inventories of the hazardous chemicals: MAP showing as Annexure 7.
- c. A description of the processes or storages involving the hazardous chemicals, the maximum amount of such a hazardous chemical in the given process or storage and indication of the conditions under which it is normally held;
 - o Solvents are stored at the ambient condition.
 - Dyke walls are provided to the tanks
 - They are kept at room temperatures.
 - o Fire extinguishers and fire hydrant system has been provided. The fire pumps starts in Auto mode.
 - Total 9600 KL fire hydrant water capacity.
 - Separate shed is provided for storing Hazardous waste.
 - o Safety notice board displayed at chemical storage area and it is restricted entry area and remains closed.
 - Hazardous material storage area being monitored by Plant /facility area supervisor on daily basis for the Fire & Safety and quantity level measurement.
 - o Unloading and loading also carried out under area Supervisor and Followed Safety system like earthling and bonding.
 - o We have dedicated plant safety representative responsible for inspection of all type of safety equipment.

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

- Separate area is provided for Anhydrous ammonia storage.
- Regular training is arranged for safe handling of chlorine toner and methods to use chlorine kit in case of leakage of chlorine
- Scrubbers are installed to scrub the leak chlorine.
- o Storage facility is approved from Chief controller of explosive.
- Electrical crane is used for shifting the cylinders.
- The maximum number of persons likely to be present on site .: 700 persons at a time.

ANNEXURE - 5

TRAINING OF WORKERS AND EQUIPMENTS NECESSARY TO ENSURE SAFETY OF SUCH WORKERS

5.1 Training and Education

Regular training would be provided to all personnel who have a role in planning and operational response to an emergency. The main goal of training for emergencies is to enable the participants to understand their roles in the response organization, the tasks associated with each position and the procedures for maintaining effective communications with other response functions and individuals.

The training objectives are :

- o To familiarize personnel with the contents and manner of implementation of the ERP and its procedures.
- To train personnel in the performance of the specific duties assigned to them in the ERP and in the applicable implementing procedures.
- o To keep personnel informed of any changes in the ERP and the implementing procedures.
- o To maintain a high degree of preparedness at all levels of the Emergency Response Organisation
- o Train new personnel who may have moved within the facility organization.
- o Test the validity, effectiveness, timing and content of ERP.

5.2 Drills and Exercises

Emergency drills and integrated exercises have the following objectives. These constitute another important component of emergency preparedness. They refer to the re-enactment, under the assumption of a mock scenario, of the implementation of response actions to be taken during an emergency.

- 1. To test the adequacy of the effectiveness, timing, and content of the ERP and implementing procedures.
- 2. To ensure that the emergency organization personnel are familiar with their duties and responsibilities by demonstration.
- 3. Provide hands-on experience with the procedures to be implemented during emergency.
- 4. Maintain emergency preparedness.

The frequency of the drills would vary depending on the severity of the hazard. However, drills would be conducted once in a month for each plant and once in a quarter for the whole site.. Scenarios may be developed in such a manner as to accomplish more than one event objective.

SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

Drills and exercises will be conducted as realistically as is reasonably practicable.

Planning for drills and exercises would include:

- i. The basic objectives
- ii. The dates, times and places.
- iii. The participating organizations
- iv. The events to be simulated
- V. An approximate schedule of events
- Vi. Arrangements for qualified observers
- VII. An appropriate critique of drills/exercises with participants

We are also providing all required personnel protective equipments to employees/Contract workers, list is as given below, Training Module: -

- 1. Safety Induction training
- 2. Audio visual training on workshop safety for contractors
- 3. Video module for work permit for contractors
- 4. Know your chemical
- 5. Use of PPE
- 6. Process safety, HAZOP study, ORA

SR.	s safety, HAZOP study, (
NO.	TYPE OF PPE	NAME OF PPE		
	HAND PROTECTION	Supported hand gloves		
		Unsupported hand gloves		
1		Nitrile hand gloves		
		Shock proof hand gloves		
		High temperature hand gloves		
	HEAD PROTECTION	Helmet		
2				
		Helmet ring		
		Helmet with welding face shield		
3	FACE PROTECTION	Face shield		
	EYE PROTECTION	Safety goggles-Ploy carbonate		
4 Safety gogg		Safety goggles - mesh type		
		Safety goggles - cutting operation		
	EAR PROTECTION	Ear muff		
5		Ear plug		
	BODY PROTECTION	Chemical resistance apron-PVC apron		
6 PVC suit, coat		PVC suit, coat + pent + hood		
		Boiler suit - Blue color		
7.	RESPIRATORY	Countifit mask-ISI mark		
PROTECTION Cloth mask (cotton m		Cloth mask (cotton mask)		
		Fume mask- cartridge type (organic vap.)		

UPL LIMITED (Unit-5)

Annexure B

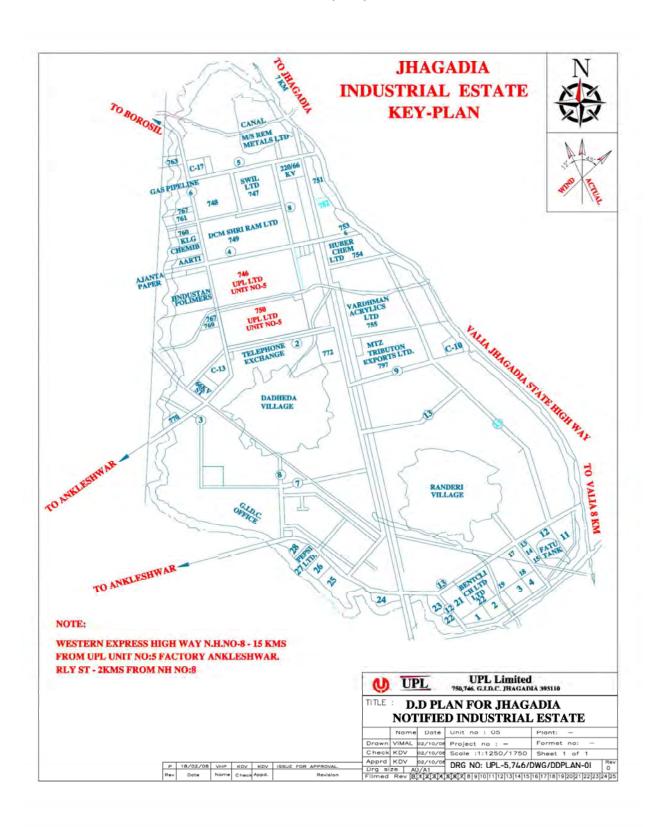
SCHEDULE -7

[See Rule 7(1)]

INFORMATION TO BE FURNISHED FOR THE NOTIFICATION OF SITES PART -I

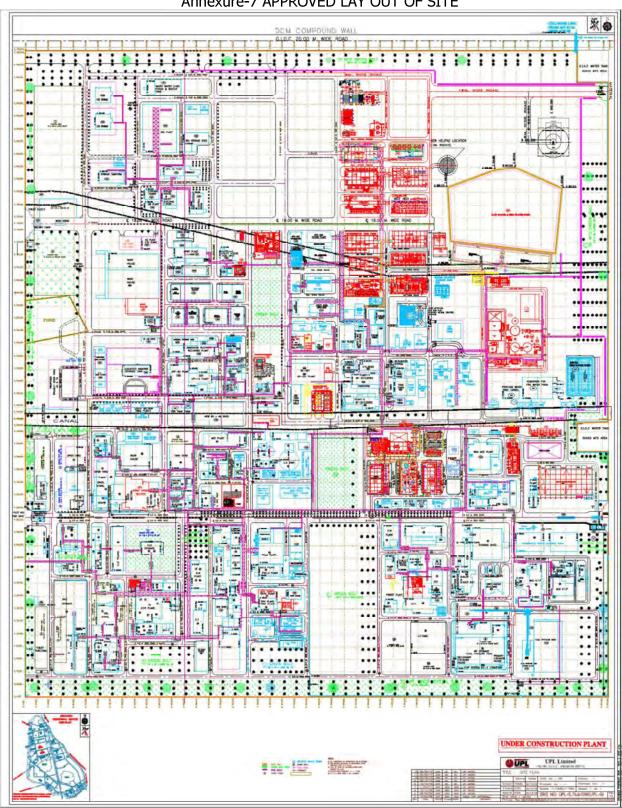
		Fume mask- cartridge type (inorganic vap.)		
		Fume mask with H2S cartridge		
		Fume Mask with Ammonia cartridge		
		SCBA		
		Bubble hood		
		Dust mask		
8	FALL PROTECTION	Safety harness belt		
		General Purpose safety belt		
		Rope ladder		
9	INDUSTRIAL	Wind socks - 5ft		
	HAZARD	Folding stretcher		
	PROTECTION	First aid box		
		Rubber mat		
		Spark arrestor		
		Barricaded tape (red color)		
10	FOOT PROTECTION	Electrical safety shoes		
		Safety shoes		
		Half gum boot		

Annexure-6 Key Map Of GIDC





Annexure-7 APPROVED LAY OUT OF SITE



Annexure-C List of approval obtained with validity

	List of approval obtained with validity						
SrNo	Licence Name	Licence No. & date	Date of Expiry	Name of the product	Class of Licence / Issued by		
1	Petroleum Class B & Class C (Diesel & FO)	P/HQ/GJ/15/ 5408(P197418)	31.12.2020	Used in DG set & Boiler	Class B & C PESO,Nagpur		
2	Petroleum ClassA- Toluene	P/WC/GJ/15/ 2621 (P391630)	31.12.2020	MR-205	Class A, PESO,Nagpur		
3	Petroleum Class A (Ethanol, Methanol, Heptane)	P/WC/GJ/15/ 2532 (P263561)	31.12.2022	GF 331	Class A, PESO,Nagpur		
4	Gas cylinder (Chlorine filling)	G/HO/GJ/05/489 (G1129)	30.09.2021		Gas cylinder storage, PESO, Mumbai		
5	Gas cylinder (Chlorine Storage)	G/HO/GJ/06/466 (G1129)	30.09.2021	Chlorine filling, storage & hydrotesting	Gas cylinder storage, PESO, Mumbai		
6	Hydrotesting Chlorine tonner	G/HO/GJ/05/489 (G1129)	Life time		Gas cylinder rule		
7	Gas cylinder (Hydrogen filling)	G/HO/GJ/05/463(G16865)	30.09.2022	Hydrogen	Gas cylinder storage, PESO, Mumbai		
8	Gas cylinder (Hydrogen storage)	G/HO/GJ/06/440 (G16865)	30.09.2022	Hydrogen	Gas cylinder storage, PESO, Mumbai		
8	Gas cylinder (Hydrogen storage)	G/HO/GJ/06/440 (G16865)	30.09.2022	Hydrogen	Gas cylinder storage, PESO, Mumbai		
9	Gas cylinder (Ammonia & Methyl chloride)	G/WC/GJ/06/1835(G 34680	30.09.2023	Methyl chloride	Gas cylinder storage, PESO, Mumbai		
10	Gas Cylinder Ammonia - MeCl - GF 3000	G/WC/GJ/06/1997(G 39308)	30.09.2024	GF 331 - Ammonia - MeCl	Gas cylinder storage, PESO, Vadodara		
11	SMPV (Propylene)	S/HO/GJ/03/1666(S66581)	30.09.2022	Propylene	Storage of Propylene		
12	SMPV (Liq oxygen)	S/HO/GJ/03/950(S31779)	31.09.2020	Liq.O2	Storage of Liq O2		

13	SMPV (Anh. Ammonia)	S/HO/GJ/03/1906 (S88839)	30.09.2021	ANH AMMONIA	Storage
14	SMPV (Chlorine)	S/HO/GJ/03/862 (S1457)	30.09.2023	CHLORINE	Storage
15	SMPV (Nitrogen)	S/HO/GJ/03/1586(S65842)	30.09.2021	Liquid Nitrogen	Storage
16	SMPV (Nitrogen)	S/HO/GJ/03/1900/(S87764)	30.09.2020	Liquid Nitrogen	Storage
17	SMPV (Nitrogen)	S/HO/GJ/03/1431(S53117)	30.09.2021	Liquid Nitrogen	Storage
18	SMPV(Methyl Chloride))	S/HO/GJ/03/1896(S68863)	30.09.2020	Methyl Chloride	Storage
19	Factory Licence	Regst No-135/24219/1916 , Lic.No-5514	30.12.2020		
20	Biomedical waste membership- GLOBE Bio Care	Membership code -IN0062	09.07.2022	OHC Biomedical waste	

Annexure-D



Ref UPL / Jng/ SAF/S/2019/02

Date - 17.05.201

To

Dy Director – Industrial Health & Safety Office of the Dy Director – (I S & H) 2rd Froor, Multi Story Building Opp-Gayatri Nagar Bharuch

Sub - Mock drill reports

Dogr Sir.

This is in reference above subject we are submitting herewith Mick drill report 5 3th party safety audit report for your ref & records

Regards

For UPL Limited (Unit - 5)

Subhat Kumar Jindal Unit Head

Jimbel _

Enclosed - Mock drill reports of Dec -2018 & March -2019. 3rd party safety Audit Report 2018

अवार्षा कार्यास्त्र अधार्मात अले स्वास्त्र अधार्मात अले स्वास्त्र



Ref: UPL/Jhg/SAF/5/01/2017/09

29.01.2018

To

Dy Director Industrial Safety & Health,
Office of the Dy. Directorate - (I.S. & H.),
2nd Floor, Multi Story Building,
Kanbiyaga, Opp. - Gayatri Nagar,
Bharuch.

Dear Str.

Sub.: Mack drill reports. A on the plan 2013

Here with we are forwarding the Mock drill report conducted on 27.12.2017 for your ret & record.

Kindly acknowledge the same.

For, UPL Limited

Subhat Kumar Jindal

(Unit Head)

Enc. Copy of Mock drill report

on site Mandolf

PAR ZEL-1 + 18

Jan-



Ref: UPL/Jhg/SAF/5/01/2017/09

29.01.2018

To

Dy Director Industrial Safety & Health,
Office of the Dy. Directorate - (I.S. & H.),
2nd Floor, Multi Story Building,
Kanbivaga, Opp. - Gayatri Magar,
Bharuch

Dear Str.

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Kindly acknowledge the same.

For, UPL Limited

Subhat Kumar Jindal

(Unit Head)

Enc. Copy of Mock drill report

on site Mandolf

PRA ZEL-1+ 18

1600



UPL LIMITED



746 - 750, GIDC INDUSTRIAL ESTATE, P.B. NO. 9, JHAGADIA, BHARUCH - 393 110, GUJARAT, INDIA.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standards detailed below.

Standards

ISO 14001:2015 & ISO 45001:2018

Scope of certification

- 1) MANUFACTURE & DISPATCH OF INDUSTRIAL & SPECIALITY CHEMICALS, AND TECHNICAL GRADE PESTICIDES AND THEIR FORMULATIONS
- 2) EXAMINATION AND TESTING OF CHLORINE GAS CYLINDERS

Original cycle start date For EMS: 22 February 2007
Original cycle start date For OHSMS: 20 February 2019
Expiry date of previous cycle For EMS: 21 February 2019
Expiry date of previous cycle For OHSMS: Not Applicable

Recertification Audit date: 11 February 2019
Recertification cycle start date: 20 February 2019

Subject to the continued satisfactory operation of the organization's Management System,

this certificate expires on: 19 February 2022

Certificate No. IND.19.12046U/E/HS Version: 1 Revision date: 20 February 2019

Signed on behalf of BVCH SAS - UK Branch

Jagdheesh N. MANIAN Head – CERTIFICATION, South Asia

Commodities, Industry & Facilities Division

Dertification body Sth Floor, 66 Prescot Street, London, E1 6HG, United Kingdom.

address: Local office:

Bureau Veritas (India) Private Limited (Certification Business) 72 Business Park, Marol Industrial Area, MIDC Cross Road "C", Andheri (East), Mumbal – 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity picase call +91 22 6274 2000.



MATERIAL SAFETY DATA SHEET CARBON DISULPHIDE

(According to Regulation (EC) No. 1907/2006)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Carbon DiSulphide

: Chemical intermediate, solvent Application

Name of Manufacturer : UPL, Unit No. 5

> 746 &750, GIDC, Jhagadia - 393 110. District - Bharuch, Gujarat, India Phone No.:+91-2645-226011 - 15 In Emergency: +91-2645 - 226011 - 15

Fax No.: +91-2645 - 226017/18

SECTION 2, HAZARDS IDENTIFICATION

Highly flammable.

Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Irritating to eyes and skin.

Product is absorbed readily through the skin and may cause toxic effects.

Possible risk of impaired fertility.

Possible risk of harm to the unborn child.

SECTION 3: COMPOSITION, INFORMATION OR INGRADIENTS

This product is to be considered as a substance in conformance to EC directives Information on hazardous ingredients

Chemical description

Carbon disulfide, CS2

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name
1	100	000075-15-0	Carbon disulfide

EC-number Symbol(s)(EU classification) Risk-phrase(s) Index-No.

006-003-00-3 200-843-6 FΤ R11 R36/38 R48/23 R62 R63

SECTION 4. FIRST AID MEASURES

Symptoms and effects

Vapors/mist may irritate the respiratory tract. Inhalation of carbon disulfide vapor may cause headache, nausea, drop in blood pressure, dizziness, unconsciousness and, possibly, death. This product is absorbed through the skin. Degreases and damages the skin. Eye contact causes irritation and pain, possibly resulting in permanent injury and/or loss of vision.

First aid

General

Obtain medical attention immediately (show this Safety Data Sheet). Do not delay treatment of exposed individuals, death may result. In case of insensibility bring into stable lateral position. If breathing is irregular or stopped, administer artificial respiration. Apply external cardiac massage in case of cardiac arrest.

Inhalation

Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Avoid inhaling of expired air.

Skin

Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.

In case of frostbite: DO NOT remove clothing, but first thaw frosted parts with water (never use warm water!). Remove contaminated clothing.

Shower for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Ingestion

Only when conscious, rinse mouth, give plenty of water to drink. DO NOT induce vomiting. Seek medical advice.

Advice to physician

May cause delayed pulmonary oedema.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

waterspray, foam. Do not extinguish a leaking gas flame unless absolutely necessary.

Unsuitable extinguishing media

Carbon dioxide, fire-extinguishing powder

Hazardous decomposition / combustion products

Sulfur dioxide, carbon monoxide (CO), COS.

Protective equipment

Use self-contained or supplied-air respiratory equipment.

Other information

Vapors are heavier than air and may spread along floors, Fire and explosion hazard.

Fire and explosion hazard

Forms explosive mixtures with air, oxygen, chlorine.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see Section 8. Evacuate personnel to safe area. Stop leakage if possible. Eliminate

all sources of ignition, and do not generate flames or sparks.

Environmental precautions

Do not allow to escape into sewage system or water courses. Isolate spill area. Prevent liquid entering sewers, basement and work pits. Absorb with suitable material. Consult an expert. If the substance entered

a water course or sewer advise the authorities.

Methods for cleaning up

If appropriate, collect under water or nitrogen. For small quantities and outdoors: Secure area and let evaporate.

SECTION 7. HANDLING AND STORAGE

Handling

Do not breathe vapor. Avoid contact with skin and eyes.

Pregnant women should avoid inhalation or skin contact under all circumstances.

Fire and explosion prevention

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Storage requirements

Keep container tightly closed and in a well-ventilated place. In case of insufficient ventilation, wear suitable

respiratory equipment.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering controls

Ensure good ventilation and local exhaustion of the working area. Use only in closed system. It is recommended to use equipment of temperature group T6. Equipment group IIC (EN 50014).

Personal protection

Respiratory

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use self-contained or supplied-air respiratory equipment. (respirator with Filter B, grey).

 $oldsymbol{\mathsf{Hand:}}$ Wear suitable gloves with thermal insulation effect. For full contact use, 100% Viton gloves conforming to

EN 374, e.g. KCL Vitoject 890 are recommended.

Eye: A face shield is preferred over goggles.

Skin and body: Wear suitable protective clothing.

Other information

Pregnant women should avoid inhalation or skin contact under all circumstances.

 $(30 \text{ mg/m}^3 = 10 \text{ ppm})$

Skin : Potential for cutaneous absorption

Short Term Exposure Limit (STEL) : 30 ppm Short Term Exposure Limit (STEL) : 96 mg/m³ Time Weighted Average (TWA) : 10 ppm Time Weighted Average (TWA) : 32 mg/m³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid Color : clear

Odor : characteristic, unpleasant (odor threshold < 1 ppm)

Boiling point/range : 46.2 °C
Melting point/range : -111.6 °C
Flash point : -30 °C

Flammability : Highly flammable

Explosive properties : Forms explosive mixtures with air, oxygen, chlorine

Vapor pressure : 39.7 kPa (20 °C)(397 mBar (20 °C))

Density : 1.262 kg/dm³ (20 °C); Solubility in water : 0.2 % (2 g/l at 20 °C)

Solubility in other solvents : Miscible with: organic solvents.

pH value : Not applicable Partition coefficient n-octanol/water: 1.9 Relative vapor density (air=1): 2.64

Viscosity : 0.36 mPa.s (20 °C)

Auto ignition temperature : 90-95 °C

Explosion limits:

LEL : 19 mg/l (0.6 Vol %), UEL : 1900 mg/l (60 Vol %).

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: Avoid elevated temperatures.

Stability : Stable under recommended storage and handling conditions (see section 7).

Incompatibles : Halogens, nitrous gases (NOx), metals (Zn, Na, K), oxidants.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 : rat: > 2000 mg/kg. Inhalation LC50 : rat; 2 hours: 25 mg/l.

Irritation

Skin : Moderately irritating.
Eye : Highly irritating.
Respiratory : Moderately irritating.

Genotoxicity: Ames test: Not mutagenic. Micronucleus test: Not mutagenic.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Fish : Poecilia reticulata, 96h-LC50: 3 mg/l

Danio rerio, No Observed Effect Concentration (NOEC): 1 mg/l

Daphnia : Daphnia magna, 48h-EC50: 2 mg/l

Fate

Degradation Biotic: Readily biodegradable (80%, 28 days)

SECTION 13: DISPOSAL CONSIDERATION

Product: Please refer to your specific industry in the European Waste Catalogue.

According to local regulations (most probably controlled incineration).

Contaminated packaging: Drain drums as good as possible, then flush with nitrogen and warm up

with steam.

SECTION 14: TRANSPORT INFORMATION

Land transport

Class: 3 RID class: 3 Packing group: I

Hazard Identification No.: 336
Substance Identification No.: 1131

UN number: 1131

Proper Shipping Name: Carbon disulphide

Other information: TOXIC risk label required additionally.

Tunnel code: C/E

Sea transport (IMO / IMDG-code)

Class: 3

Packing group: I UN number: 1131 EMS: F-E, S-D Marine pollutant: no

Proper Shipping Name: Carbon disulphide Air transport (ICAO-TI / IATA-DGR)

UN number: 1131 Class: Forbidden

Packing group: not relevant

Proper Shipping Name: not relevant

SECTION 15: REGULATORY INFORMATION

Product label name: Carbon disulfide Labelling according to EC directives

EC-number: See section 3 Classification based on

Annex-VI to regulation EC No. 1272/2008. The mandatory EU labelling has been followed.

R(isk) phrase(s) (EU classification)

Code Description

R11 Highly flammable

R36/38 Irritating to eyes and skin

R48/23 Toxic: danger of serious damage to health by prolonged exposure through Inhalation

R62 Possible risk of impaired fertility

R63 Possible risk of harm to the unborn child

S(afety) phrase(s) (EU classification)

Code Description

S16 Keep away from sources of ignition - No smoking

S33 Take precautionary measures against static discharges

S36/37 Wear suitable protective clothing and gloves

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Symbol(s) (EU classification)

HIGHLY FLAMMABLE

TOXIC

Other information

To be displayed on the label: "EC label".

Substance and/or product listed in Directive 96/82/EC.

German Water Hazard Class (WGK)

2 (VwVwS Anhang 2, Kenn-Nr 183)

SECTION 16. OTHER INFORMATION

R-phrase information

Chemical name R(isk) phrase(s)(EU classification)

Carbon disulfide R11,R36/38,R48/23,R62, R63

Highly flammable Irritating to eyes and skin Toxic: danger of serious damage to health by prolonged exposure through inhalation Possible risk of impaired fertility

Possible risk of harm to the unborn child.

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

MATERIAL SAFETY DATA SHEET

SODIUM HYDROXIDE

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Supplier : UPL -Unit -5

746 & 750, GIDC., P.B. No-9, Jhagadia-393110,

Dist- Bharuch, Gujarat. India Phone No: (+91-2645)226011-15 Fax No: (+91-2645)226017, 226018

Substance : Sodium Hydroxide

Trade Name/Synonyms : Caustic soda; Soda lye; Sodium hydrated Lye.

Application : Chemicals Products

SECTION 2: HAZARDS IDENTIFICATION

Appearance: white, Danger Corrosive. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation withpossibleburns.

Routes of Entry : Inhalation, ingestion, eyes and skin

Inhalation :Irritation may lead to chemical pneumonitis and pulmonary edema.

Causes severe $\,$ irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the

respiratory tract.

Skin Contact : May causes irritation and uncertain

Eve Contact : May causes irritation, burns and conjunctivitis

Ingestion : May cause severe and permanent damage to the digestive tract. Causes

gastrointestinal tract burns. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive

tract. May cause systemic effects

Fire

Flammability : NO

Lower Explosive Limit : Not pertinent Upper Explosive Limit : Not pertinent Flash Point : Not pertinent : Not pertinent

Corrosive : Yes
Oxidizing Properties : Yes

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Component Substance : Sodium hydroxide - Lye

Component Percent : 48 % CAS Registry Number : 1310-73-2

SECTION 4: FIRST AID MEASURES

Inhalation : Remove from exposure immediately. Administer oxygen if breathing is difficult. Get medical attention if the victim is unwell.

Skin Contact: Remove contaminated clothing, jewelry and shoes immediately wash the effected area with plenty water, Get medical attention, if needed.

Eye Contact : Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately, preferably ophthalmologist.

Ingestion : If the victim is concious, give 2-3 glass full of water to drink. Do not induce vomiting, Get medical attention if needed.

SECTION 5: FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do not get water inside containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water on spilled substances or inside containers.

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Corrosives area. Keep away from acids. Store protected from moisture. Containers must be tightly closed to prevent the conversion of NaOH to sodium carbonate by the CO2 in air.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV: 2 ppm STEL: Not listed

Do not breathe fumes. Avoid contact with skin and eyes.

Ventilation: Provide local exhaust ventilation system.

Eye protection: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Clothing: Wear appropriate chemical resistant clothing.

Gloves: Wear appropriate chemical resistant gloves.

Respirator: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties

before use. A facemask with suitable filter or powdered respirator is advised.

Wear safety footwear and industrial safety helmet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
Appearance : Colorless
Odour : Odorless
Molecular Weight : 40
Molecular Formula : NaOH
Boiling Point : 1390 Deg

Boiling Point : 1390 Deg C
Melting Point : 318.4 Deg C
Specific Gravity : 2.12 at 24 Deg C
Vapour Density : Not pertinent
Solubility in water : Soluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Moisture, contact with water, exposure to moist air or water, prolonged exposure to air.

Incompatibilities with Other Materials: Acids, water, flammable liquids, organic halogens, metals, aluminum, zinc, tin, leather, wool, nitro methane.

Hazardous Decomposition Products: Toxic fumes of sodium oxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data: LD 50 - Not listed

TLV (ACGIH) : 2 ppm (cc) STEL : Not listed

SECTION 12: ECOLOGICAL INFORMATION

Ecological Overview

Toxicity to fishes : Not listed Toxicity to bacteria : Not listed

Harmful to aquatic animals, so do not discharge into drains.

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: TRANSPORT INFORMATION

Shipping Name : Sodium Hydroxide

UN No. : 1823

Hazard Class : Corrosive class 8

Hazardous waste Id No : 16 Hazchem Code : 2 R

NFPA : Health-3,Flammability-0,Reactivity-1,Special-Not pertinent

SECTION 15: REGULATORY INFORMATION

Symbol: Corrosive

Risk Phrases:

R 35 Causes severe burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 37/39 Wear suitable gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16: OTHER INFORMATION

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, United Phosphorus Ltd makes no representations as to be completeness or accuracy thereof. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall United Phosphorus Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if United Phosphorus Limited has been advised of the possibility of such damages.