

Atul Ltd

Project: CRZ clearance for proposed 4.0 km long treated effluent discharge pipeline in Par estuary, Dist. Valsad.

CRZ Compliance Report for CRZ Clearance no. ENV-1097-2942-P, dated January 17, 1998.

Report Period: October 2020 - March 2021

Sr No.	Condition	Complianc	e	
1	The Company shall strictly adhere to all the provisions of CRZ notification of 1991 and	Complied . Details are	given below in the table:	
	subsequent amendments.	Sr No. 1	Clause under CRZ notification Imposes the given restrictions in setting up and expansion of industries, operations or processes in CRZ.	Compliance Noted
		2	List of prohibited activities within CRZ.	Noted
		3	Guideline for regulation of permissible activities.	Noted
		4	Procedure for monitoring and enforcement.	Applicable to Ministry
		Ann. 1	Classification of costal regular zone.	Noted
		Ann. 2	Guidelines for development of beach/resort/hotels.	NA
		Ann. 3	List of petroleum products permitted in storage in CRZ except CRZ-1.	NA
2	The company shall strictly adhere to the conditions stipulated by the Gujarat Pollution Control Board in their Consent order.	acts. Stipule the same Environmer Environmer & research	iny complies with all stipulated no ation made in CCA by GPCB are b is certified by the external ntal auditors appointed by ntal audit report by S.N.Patel Insti Centre for Environment research 21 is attached as Attachment 1.	eing complied and agency, i.e. our GPCB. Latest tute of Technology

3	The company shall discharge the treated effluent meeting the	Comp	blied.				
	norms prescribed by GPCB	values 1 The m no tim	ischarged effluent is me s of various parameters naximum values during t ne the emission went bey nary is given below:	of treated	d efflue	ent is giv I confirr	ven in Table ms that at
		Sr No.	Parameter	Limit			he period) - March
					Min.	Max.	Avg.
		1	рН	5.5-9.0	6.89	7.46	7.13
		2	Temperature (°C)	40	30	30.4	30.2
		3	Colour (pt. co. scale)		30	60	41.66
		4	Suspended solids(mg <i>l</i> l)	100	34	72	52.16
		5	Phenolic Compounds (mg <i>l</i> l)	5	0.58	1.2	0.87
		6	Cyanides (mg <i>l</i> l)	0.2	ND	ND	ND
		7	Fluorides (mg <i>l</i> l)	2	0.21	1.68	1.17
		8	Sulphides (mg <i>l</i> l)	2	0.94	1.37	1.14
		9	Ammonical Nitrogen (mg <i>l</i> l)	50	1.97	9.1	6.43
		10	Total Chromium (mg/l)	2	ND	ND	ND
		11	Hexavalent Chromium (mg <i>l</i> l)	1	ND	ND	ND
			BOD (3 days at 27°C) (mg/l)	100	31	52	39.66
		13	COD (mg/l)	250	153	230	189.17
		monite Latest Techn Bardo The ri monite Pvt. L Pvt. L	ffluent quality at the ETF ored by the Environment t Environmental audit hology & research Ce oli , Surat for year 2020-2 ver water quality at the ored by GPCB. Agencie td- MoEF approved age td, Kadam Environmen also done the monitoring	ntal audi report l entre for 21 is atta e dischar <u>c</u> es like N ency, Env t consult	tors ap by S.N ched a ge poin IO, Pol rision E cancy -	ppointe I.Patel ronmen s Attac It is reg lucon l inviro T -NABET	d by GPCB. Institute of at research, hment 1 Jularly being Laboratories rechnologies

		GPCB also monitor the treated effluent quality at intervals. Recent result by GPCB is attached as Annexure 1 .
	The company shall keep records of the quality of effluents being discharge during the tides as per the recommendations of N.I.O.	Complied. We are keeping the records of quality effluents being discharged during the tides in soft copy as per the recommendations of N.I.O.
4	The company shall submit the quarterly progress report of compliance of conditions.	Complied . We have submitted progress reports to the Forest and Environment Department of Gujarat during the pipe line installation work. Couple of reports were already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
5	The company shall bear all the cost of the agency to be appointed by the Government for overseeing/monitoring the project activities during construction/operational phases.	Noted and will be complied as and when it will come.
6	The company shall comply with all the recommendations, additional conditions and environmental safeguards prescribed in the report of NIO dated March, 1997.	Complied . Compliance to NIO recommendations are being followed. Copy of compliance report submitted to Forest and Environment Department of Gujarat was already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
7	The company shall submit an Environmental Audit Report every year.	Complied. Latest Environmental audit report by S.N.Patel Institute of Technology & research Centre for Environment research, Bardoli , Surat for year 2020-21 is attached as Attachment 1
8	The company shall obtain the necessary permissions from different Government department/agencies under different laws/Acts.	Complied. We have received GPCB approval for operating 4Km line vide its consent letter no. 16399 dated December 22, 1998. Copy already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.

9	Any additional conditions which may imposed from time to time.	Noted and will be complied.

Table 1: Quality of treated effluent

Sr				Result	ts			GPCB
No.	Parameter	October 20	Novembe r 20	December 20	January 21	February 21	March 21	
1	рН	7.04	7.13	7.46	7.34	6.97	6.89	5.5 to 9.0
2	Temperature °C	30.4	30.1	30.2	30	30.1	30.4	40 °C
3	Colour (pt. co. scale)	40	30	30	40	60	50	
4	Suspended solids, mg/l	68	47	39	53	72	34	100
5	Phenolic Compounds, mg/l	0.8	1.2	0.58	0.94	0.83	ND	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg <i>l</i> l	1.17	1.24	1.18	1.68	1.55	0.21	2
8	Sulphides, mg/l	1.12	0.98	0.94	1.37	1.16	ND	2
9	Ammonical Nitrogen, mg/l	7.56	8.42	7.28	4.26	1.97	9.1	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	38	31	40	35	42	52	100
13	COD, mg/l	153	164	216	204	230	168	250
	Note: ND is Not D	etectable.				-		

Annexure 1: GPCB results for treated effluent water



Test Report No. : 54856

ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Sample ID:300539 - Analysis Completion: 17/03/2021

Dyes and Dye- Intermediates / LAB Inward : 54856

Gujarat Pollution Control Board, Vapi C5/124, GIDC Vapi, Near Hotel Pritam, Vapi - 396 195 Tele:(0260) 2432089

TEST REPORT

Date: 17/03/2021

1. Name of the Customer	: Atul I	_imited - 23158		
2. Address		9, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc. -396020, Taluka : Valsad, District : Valsad, O		Valsad, Pin:
3. Nature of Sample	: REP-	Representative/Grab, (Insp Type : COM-On	Complaint)	
4. Sample Collected By	: Triveo	li Vivek R		
5. Quantity of Sample Received	: 5 lit			
6. Code No. of the Sample	: 30053	9		
7. Date & Time of Collection & Inwarding	: 03/03/	2021 , (1110 to 1110) & 04/03/2021		
8. Date of Start & Completion of Analysis	: 04/03/	2021 & 17/03/2021		
9. Sampling Point	: ## Fi	nal Outlet of the ETP ~		
10. Flow Details (Remarks)	: Yes			
11. Mode of Disposal	: Estur	y zone of River Par through pipeline		
12. Ultimate Receiving Body	: Estua	ry zone of river par		
13. Temperature on Collection	: 32 &	pH Range on pH Strip :@ 7-8 on pH strip		
14. Carboys Nos for	: barco	de & Color & Appearance :Brownish		
15. Water Consumption & W.W.G (KLPD)	: Ind :2	7956.000, Dom :938.000 & Ind :23774.000,	Dom :939.000	
Sr Parameter	Unit	Test Method	Range of Testing	Result
1 Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	32

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	32
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1-14 pH value As or	7.76
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	85
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 - 200000 mg/L	7620
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 - 10000 mg/L	82
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standar	1 - 2000 mg/l.	23.52
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	2049
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	2693
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	125
10	Oil & Grease	mg/l	Liquid - Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.6
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.30
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-Fiodometric Method	1-500.0 mg/l	1.1
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05-50000 mg/l	26

Laboratory Remarks : Freeze By:335-vig_335 Dt.: 17/03/2021



H. M. Ganvit, SSO

Field Observation :

Note :

- 1.* These parameters are NOT covered under the scope of NABL.
- 2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
- 3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
- 4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing.
- 5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
- 6. Total liability of our laboratory is limited to the invoiced amount. Any dispute arising out of this report is subject to

Gujarat Jurisdiction only.

- 7. Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents
- 8. Physicochemical and microbiological parameters, Std.Methods for Water and Waste Water- 22nd Edition by APHA.
- 9. Bioassay test (for toxicity) -IS:6582:Part-2:2001; Reaffirmed 2007.

NIC

22/05/2021



Atul Ltd

Project: Expansion of agro-chemicals (Pesticides/Herbicides) and bulk drug and pharmaceuticals manufacturing unit.

EC Compliance Report for EC F. No. J -11011/48/2003-IA II (I) dated February 20, 2004.

Report period: October 2020 - March 2021

Sr No.	Condition	Complie	ance					
	ecific Conditions :							
i The gaseous emissions (SO ₂ , NOx, and HCI) and particulate matters from various process units should confirm to the standards prescribed by the concerned authorities from time	various CCA. Details	ed. seous emissio process units are given in be ry of Process	confirms to t low Table:	the standar				
	to time.	Sr No	Parameter	Standard values as	Unit	Octob	es for the er 20 - M	arch 21
		1	SO ₂	per CCA 40	mg/Nm ³	4.0	Max. 36.1	Avg. 22.58
		2	SO ₂ (kg/T)	40 2	kg/T	0.8	1.6	1.16
		3	NOx	25	mg/Nm ³	9.3	20.7	14.05
		4	HCI	20	mg/Nm ³	1.9	16.8	7.46
		5	PM	150	mg/Nm ³	3.8	71.8	39.4
		6	PM with Pesticide compound	20	mg/Nm ³	8.4	15.8	11.95
		Summa	ry of Flue Sta	ck results :				
		Sr	Parameter	Standard	Unit		s for the p	
		No		values as per CCA		Min.	er 20 - Ma Max.	Avg.
		1	PM	100	mg/Nm ³	48.4	89.6	62.34
		2	PM (New Boiler)	50	mg/Nm ³	35.4	46	40.53
		3	SO ₂	600	mg/Nm ³	148	330	190
		4	NOx	600	mg/Nm ³	124	559	218.6

	5 NOx (New	Boiler)	300	mg/Nm ³	142	196	166			
	Details of stack	c results	for the con	npliance pei	riod is give	en in Table	e 1.			
At no time, t	ne Complied.	· · · · ·								
emission leve										
should go beyo		onthly monitoring is being done by GPCB approved, NABL approved								
the stipulat		omissio	ns ovcoodo	d the proce	ribod limit	c during r	nort nor	ind		
standards.	At no time, the	emissio	IIS EXCEEDE	d the presc		s during re	eport per	100.		
	Summary of st	tack res	ults given i	n specific c	ondition I	no. i as at	oove.			
In the event of failu	•									
of pollution cont				L.						
system(s) adopted	-,	appene	d during co	mpliance p	eriod.					
	ne									
•	nit									
	be									
	ne									
control measures o rectified to achie										
the desire										
efficiency.										
ii Ambient air qual	ty Complied.									
monitoring Station	•	r aualitv	monitorin	a Station h	ave been	set up in	down v	vind		
should be set up				0						
down wind direction		with GF	CB. The sa	ime had bee	en shown	to authori [.]	ty like SF	PCB,		
as well as whe		-		-						
max. Ground lev	el List of our amb	ient air r	monitoring	station is gi	ven below	:				
concentration	of									
SPM anticipated	in	Sr No								
consultation with t	ne	1			ation					
state polluti	on	3								
control board.		4	North s							
		5	Near TS							
		6	Near M	lain Guest H	louse					
		7	At Wye	eth Colony						
		8		· · · ·						
		9			lorth site					
		10	Haria V	Vater tank						
iii Fugitive emission	in Complied.									
work zo			la a al							
environment,							erial stor	age		
	-	guiuny	nonitored	by MADE UP	pioved th	mu purty.				
material stora	The maximum	values (during the	compliance	period co	nfirms tha	at at no 1	time		
	the emission l		-	•	142 196 166 Diance period is given in Table 1. ne by GPCB approved, NABL approved I the prescribed limits during report period. aspecific condition no. i as above. npliance period. Station have been set up in down wind und level concentration of SPM anticipated ne had been shown to authority like SPCB, our factory. tation is given below: n GEB substation a Shed D te ETP DF in Guest House					
regularly monitored	Summary is giv			-						

	Plant	Area	Parameter	Prescribed Limit	Millig fo Octo	les of VO gram per r the per ber 20 - I 21	^r NM ³ iod March
	2,4 D	Reactor	Phenol	19	Min. 7.5	Max. 14.2	Avg. 10.18
	2,10	Buffer tank	Chlorine	3	0.15	1.6	0.7
	Resorcinol	Benzene storage tank area near vent	Benzene	15	1.2	7.8	3.59
		Near Extraction /scrubber unit	Butyl acetate	-	350	580	434.1 6
	Pharma	At second floor work area	Ammonia	18	3.8	4.5	4.15
		Ammonia recovery area	Ammonia	18	5.1	6.3	5.7
	Epoxy - I	At vacuum pump 2nd floor	ECH	10	3.1	5.6	4.26
		At vessel POS 1208 G.F	ECH	10	1.3	2.5	1.96
	Shed H	At second floor work area	Nitrobenzene	5	1.8	3.5	2.58
	Shed J	Buffer Tank	Chlorine	3	ND	ND	ND
	Results for t	he complian	ce period is give	en in Table 2 .			
The company should install alkali scrubbers for scrubbing of HCI.	installed due	al scrubbing crubbing of	ubbing of HCl h system i.e. com HCl in majority (bination of ca	ustic ar	nd water	scrubber
pH of the scrubber tank should be monitored regularly.	Complied. pH of the s operating pr		k is monitored	regularly an	d logge	ed. It is c	a regular

Liquid effluent	Complied.
generated from the	complied.
5	Liquid effluent generated from the scrubber is being sent to ETP along with
scrubber should be	plant effluent stream.
sent to effluent	plant endent stream.
treatment plant.	
All the process	Complied.
equipment/reaction	
vessels should be	Central exhaust system has been provided at strategic locations and the
connected with	critical operations evolving the hazardous gases are routed through multiple
central exhaust	stage scrubbing system.
system.	
Further measures	Complied.
should be taken to	
reduce the losses of	Reactors are connected to chilled brine condenser system. Breather valves
solvents.	have been provided to all solvent storage tanks.
Cooling	Complied.
arrangement should	
be made for all the	Our Most of solvent storage tanks are underground. All the storage tanks are
solvent storage tanks	in close loop which is connected to condenser to minimize evaporation losses.
to minimize	
evaporation losses.	
The company should	Complied.
monitor VOCs from	
the incinerator and	Incinerator stack has been regularly monitored and data submitted regularly
data submitted	to GPCB and MoEF through six monthly EC compliance report. Details of stack
regularly to SPCB	results for the compliance period is given in Table 1.
and Ministry of	
Environment and	
forests.	

/	The effluent generation should not exceed 1191 m3/Day (936 m3/d of process effluent and 255 m3/d of domestic effluent).	request to According dated11. 20,514 m	, since we hav o consider late g to specific co 02.2019. Indus	st figures giv ndition of EC trial Waste v	ven in same. C F No. J 1101: vater generati	1/108/2015-IA on shall not ex	-II-(I) kceed
			eak up is given k	0			,
			Wastewater generation m ³	October 20	November 20	December 20	
			Month wise	284195	274672	265910	
			Per Day	9168	9156	8578	
			January 21	February 21	March 21	Total]
			281096	275625	293120	1674618	
			9068	9844	9455	9212 Avg.	
		the waste is given b	mum values du ewater generat elow: /astewater generation	-	ond the stipulc		Summ
			jeneration		Min.		vg.
			ewater ration m³/d	20514	8578	9844 92	212
-	The effluent should be segregated at source of generation.		l. ated effluent i ecovery proces		d and chemic	als are being	retriev
	The Concentrated effluent stream	Complied	.				

concentrated effluent after tertiary treatment should be discharged into the CETP.	and product so obtained are sold. After recovery of product, lean effluen sent to ETP where it is treated without any difficulty. Hence no incineratio required.								
The treated effluent of should be discharged into estuary zone of river Par through 4.0 km long HDPE pipe line only after it	The valu The	es of v maxim	rged effluent i arious parame num values du on went beyon	ters of tr	eated eff	fluent is given nce period c	en in T confirm	Table 3 . Ins that at no t	tim
stipulated by the Gujarat Pollution		Sr	Parameter		Norms	Valu	es for	the period	
Gujarat Pollution Control Board/EPA		No.				Octo	oer 20	- March 21	
rules.						Min.	Max	x. Avg.	
Tules.		1	рН		5.5-9.0	6.89	7.46	5 7.13	
		2	Temperature	9	40 °C	30	30.4		
		3	Colour (pt. co			30	60	41.66	
		4	Suspended		100 mc	g/l 34	72	52.16	
		5 Phenolic		5 mg/l	0.58	1.2	0.87		
	Compounds			e mgn					
	6 Cyanides 7 Fluorides 8 Sulphides			•		/I ND	ND	ND	
				2 mg/l	0.21	1.68	3 1.17		
			Sulphides		2 mg/l	0.94	1.37	7 1.14	
		9	Ammonical Nitrogen		50 mg/	l 1.97	9.1	6.43	
		10	Total Chrom	ium	2 mg/l	ND	ND	ND	
		11 Hexavalen Chromium			1 mg/l	ND	ND	ND	
					1 mg/i				
		12	BOD (3 Days	at 27°C)	100 mg	g/l 31	52	39.66	
		13	COD	-7	250 mg	-	230		
The domestic waste water should be disposed off through septic tank / soak pit system.	Dom furth	ner trec	vaste water <u>c</u> Itment. omestic effluer	-	·			·	' fo
	Do		Wastewater	Octob	per 20	Novembe	r 20	December 20)
	generation m ³ Month wise			QI	9583			8796	—
		Day)9	8455 273		284	\dashv
		,		<u> </u>		1	I]
		Janua	ry 21 F	ebruary	21	March 2	21	Total	\neg
		-		8822		9592		54217	
					322 9592 285 309			291	

		The maximum, minimum and avera	ge values ai	re given belo	w:
		Domestic Wastewater generation		lues for the ober 20- Mo	
			Min.	Max.	Avg.
		Domestic Wastewater generation m ³ /d	273	309	291
V	The Company should also Set up a separate online fish pond using treated effluent, to ensure that the quality of treated effluent discharged into the par estuary does not have any adverse impact on the	Complied . We have set up a separate online fi	sh pond usi	ng treated ef	fluent at our ETP.
	aquatic life. The effluent quality at the discharge point must also be monitored periodically by an independent agency authorized by CPCB and report of the independent agency should be submitted to the Ministry's Regional office at Bhopal/CPCB/GPCB	Complied. The effluent quality at the ETP disch the Environmental auditors appointe GPCB also monitor the treated eff Monitoring results of GPCB is attack The river water quality at the dische GPCB. Agencies like NIO, Pollucor agency, Envision Enviro Techno consultants –both NABET accredited years.	ed by GPCB iluent qualit ned as Anne arge point is n Laboratori plogies Pvt	y at regular exure 1. s regularly be ies Pvt. Ltd- . Ltd, Kade	intervals. Recent eing monitored by MoEF approved am environment
vi As reflected in the EIA/EMP report, the solid waste and ETP sludge should be incinerated and incinerator ash should be disposed off in the landfill facility within the plant premises.	Complied . ETP waste is disposed into our TSDF taken permission from MoEF vide le approved by GPCB through our CC/ co-processing as per GPCB approve	etter dated N A. We also s	May 6, 2004 send our inci	and same is also nerable waste for	
	The ground water quality in and around the unit and the	Complied . Ground water quality is being check the hazardous waste storage site.			

	hazardous waste	MoEF approved agency Pollucon Pvt. Ltd for year 2020 and no contamination
	storage site should	is observed. Report has been submitted vide our letter dated December 19,
	be regularly	2020
	monitored and the	
	data recorded to	
	ensure that there is	
	no contamination of	
	the groundwater.	
vii	The destructive	Complied.
	efficiency of the	
	incinerator should be	The destructive efficiency of the incinerator was assessed by M/s. SGS, a
	assessed by an	reputed agency in field on environmental monitoring. Report already
	agency like CPCB	submitted vide our letter Atul/SHE/MoEF/Visit/3 dated 4.4.17.
	and a report	
	submitted to the	
	Ministry.	
viii	The company should	Complied.
	comply with the	
	provisions of coastal	
	Regulation Zone	
	Notification of 1991	
	and Coastal Zone	
	Management Plan of	
	Gujarat.	
	Further, specific	Complied.
	conditions stipulated	
	by the Forest and	Detailed compliance report is already submitted to the Ministry vide our letter
	Environment	our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
	Department,	
	Government of	
	Gujarat vide its letter	
	No. ENV-1097-2942-	
	P dated 27th	
	Januaryuary, 1998	
	for laying of pipe line	
	for discharge of	
	treated effluents	
	through the estuary	
	zone of the River Par	
	Zone should be	
	strictly adhered to.	

ix	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Complied. Occupational healt basis and record m is shown in below the Medical Check-Up	ainta table:		5	0
X	The company should develop rainwater harvesting structures to the harvest the run-off water from the rooftops and by laying a separate storm water drains system for recharge of ground water and to reduce the drawl from the river Par.	pond to harvest re consumption with r the rainy Days. Bes to harvest rain wat	ain wo rain ho sides t ter. W	ater. We are cr arvested water w this, there are th e are also consi	eating facility/ co with zero river dro aree check dams o tructing tempora	o 14000 KL capacity apacity to cater our awls of water during and pumping facility ry sand bag dam on anal free flowing rain
xi	The project authorities may undertake a survey to assess the impact of gaseous emissions/pollutants on the health including respiratory and digestive system of the population within and vicinity of the plant and report submitted to the State Government and to this Ministry within six months.	health including res	spirato no mo	ory & digestive s ijor illness have k	ystems of popula peen identified. Re	ion/pollutants on the ation within & vicinity eport submitted vide

	The Company shauld	Complied
xii	The Company should	Complied.
	developed a green	Proper plantation is done all around the plant boundary and also the roads to
	belt in a 25% of the	mitigate fugitive & transport dust emission.
	plant area as per the	
	CPCB guidelines.	Total Industrial Plot area: 1126078.27 sq.mt
		Green belt area: 409030.00 sq.mt (approx. 36% of total plot area)
		Layout plan with green belt is shown as under:
		We plant more than 50000 plants every year on road sides and other open
		areas in nearby villages or schools in consultation with the Gram panchayat.
xiii	As per the policy	Complied.
~	decision taken vide	Complied.
	this Ministry's	W e had submitted the Eco fund earmarked for eco development to GPCB with
	circular no. J-	an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated May 17, 2004.
	21011/8/98- IA II (I)	Action plan related to Eco-fund also made as per process and communicated
	dated 14th May 2002	to authority wide our letter Atul/ECC/GPCB/ECO-fund/2 dated November 2,
	and 23rd June, 2003,	2004. Copy of same again submitted to Ministry vide our letter
	the company shall	Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
	earmark a separate fund i.e. 1% of the	
	total cost of the	
	Crores) for eco-	
	development	
	measures including	
	community welfare	
	measures in the	
	project area.	
	The amount shall be	Complied.
	deposited within	
	three months in a	We had submitted the Eco fund earmarked for eco development to GPCB with
	separate account to	an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated May 17, 2004.
	be maintained by	
	GPCB.	

	The plans in this	Complied.
	regard should be	
	submitted to the	Action plan related to Eco-fund also made as per process and communicated
	SPCB as well as to	to authority vide our letter Atul/ECC/GPCB/ECO-fund/2 dated November 2,
	the Ministry within	2004.
	three months of issue	
	of this letter.	
	After approval of the	Complied.
	action plan by GPCB,	
	the amount	
	deposited will be	
	released to the	
	project authorities in	
	two installments	
	based on the	
	progress of	
	implementation.	
Α.	General Conditions	
i	The project	Complied.
	authorities must	
	strictly adhere to	The company adheres to the compliances and has not exceeded the
	stipulations made by	stipulation. This has been certified by our Environmental auditors, an
	GPCB.	authorized agency and nominated by GPCB; through Environmental audit
		every year.
		Latest Environmental audit report by S.N.Patel Institute of Technology
		&research Centre for Environment research, Bardoli, Surat for year 2020-21 is
		attached as Annexure 2
ii	At no time, the	Complied.
	emissions should not	complica.
		Monthly monitoring is being done by NABL approved third party.
	go beyond	At no time, the emissions exceeded the prescribed limits during report period.
	standards.	Actio arrie, the emissions exceeded the presenced limits during report period.
		The maximum values during the compliance period confirms that at no time
		the emission level went beyond the stipulated standards.
		Summary of stack results given in specific condition no. i as above.
	In the event of failure	Complied.
	of any pollution	
	control system	No such incident happened during compliance period.
	adopted by the units,	
	the respective unit	
	should be	
	immediately put out	
	I I	
	should not be	
	restarted until the	
	desired efficiency has	

iii	The overall noise	Compli	ed.					
	level in and around the plant area shall be kept well within the standard by providing noise control measures including acoustic hoods silencers, enclosures etc. on all source of noise generation.		ic hood, silencer and acousti riate high noise area like tur			on are pro	ovided at	
	The ambient noise	Compli	ed.					
	levels should confirm							
	to the standards		bient noise level is regularly	monitored and	its data c	are given	in Table	
	prescribed under EPA	4 and 5						
	Rules, 1989, viz. 75		aximum values during the co se emission level went beyo					
	(Daytime) and	given b	•			ilus. Jul		
	70bBA(night time)	givens						
		Noise l	evel monitoring data (Day	Time):				
		Sr		Deres in the				
			Location		Values for the period October 20 - March 21			
			Location	Permissible		-		
		No.	Location	Limits, dBA	October	20 - Mc	rch 21	
		No.		Limits, dBA 75	October Min.	20 - Mc Max.	rch 21 Avg.	
		No.	Near Main guest house	Limits, dBA 75 75	October Min. 52.40	20 - Mc Max. 65.80	Avg. 62.73	
		No. 1 2	Near Main guest house Near TSDF	Limits, dBA 75 75 75	October Min. 52.40 57.60	20 - Mc Max. 65.80 67.30	Avg. 62.73 64.27	
		No. 1 2 3	Near Main guest house Near TSDF At Wyeth Colony	Limits, dBA 75 75 75 75 75	October Min. 52.40 57.60 56.20	20 - Max. 65.80 67.30 59.80	Avg. 62.73 64.27 58.53	
		No. 1 2 3 4	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall	Limits, dBA 75 75 75 75 75 75	October Min. 52.40 57.60	20 - Mc Max. 65.80 67.30	Avg. 62.73 64.27	
		No.	Near Main guest house Near TSDF At Wyeth Colony	Limits, dBA 75 75 75 75 75	October Min. 52.40 57.60 56.20	20 - Max. 65.80 67.30 59.80	Avg. 62.73 64.27 58.53	
		No. 1 2 3 4	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North	Limits, dBA 75 75 75 75 75 75	October Min. 52.40 57.60 56.20 55.60	20 - Mc Max. 65.80 67.30 59.80 68.50	Avg. 62.73 64.27 58.53 65.20	
		No. 1 2 3 4 5	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site	Limits, dBA 75 75 75 75 75 75 75	October Min. 52.40 57.60 56.20 55.60 53.60	20 - Max. 65.80 67.30 59.80 68.50 67.60	Avg. 62.73 64.27 58.53 65.20 64.67	
		No. 1 2 3 4 5 6	Near Main guest houseNear TSDFAt W yeth ColonyGram Panchayat HallNear Main Office NorthsiteETP North site	Limits, dBA 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.60 55.60 53.60 55.20	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20	Avg. 62.73 64.27 58.53 65.20 64.67 66.95	
		No. 1 2 3 4 5 6 7	Near Main guest houseNear TSDFAt Wyeth ColonyGram Panchayat HallNear Main Office NorthsiteETP North siteOpposite shed D	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 56.20 55.60 53.60 55.20 57.10	20 - Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75	
		No. 1 2 3 4 5 6 7 8	Near Main guest houseNear TSDFAt Wyeth ColonyGram Panchayat HallNear Main Office NorthsiteETP North siteOpposite shed DETP West site	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.60 55.60 53.60 55.20 57.10 52.40	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17	
		No. 1 2 3 4 5 6 7 8 9 10 Noise I	Near Main guest houseNear TSDFAt Wyeth ColonyGram Panchayat HallNear Main Office NorthsiteETP North siteOpposite shed DETP W est siteHaria Water tank	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.20 55.60 55.20 57.10 52.40 55.60 53.50 Value perioc	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 68.70 68.00 68.00	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75	
		No. 1 2 3 4 5 6 7 8 9 10 Noise I	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Haria Water tank 66KVA substation	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.20 55.60 55.20 57.10 52.40 55.60 53.50 Value perioc	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 68.70 68.00	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75	
		No. 1 2 3 4 5 6 7 8 9 10 Noise I	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Haria Water tank 66KVA substation	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.20 55.60 55.20 57.10 52.40 55.60 53.50 Value perioc	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 68.70 68.00 68.00	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75	
		No. 1 2 3 4 5 6 7 8 9 10 Noise I Sr No. 1 1	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Haria Water tank 66KVA substation	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.60 55.60 55.20 57.10 52.40 55.60 55.60 53.50 Value period 20 - N Min. 54.20	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50 68.00 68.00	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75	
		No. 1 2 3 4 5 6 7 8 9 10 Noise I Sr No.	Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Haria Water tank 66KVA substation	Limits, dBA 75 75 75 75 75 75 75 75 75 75 75 75 75	October Min. 52.40 57.60 55.60 55.60 55.20 57.10 52.40 55.60 53.50 53.50 Value period 20 - N	20 - Mc Max. 65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 68.70 68.70 68.00 68.00 68.00 es for the Actobe Max.	Avg. 62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75	

iv The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provide shall not be diverted for any other purposes. Complied. iv The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the state Government along with the implementation Complied. Sr No. Parameter Recurring Cost (Rs. In lacs) For the report period is given in below table. Sr No. Parameter Recurring Cost (Rs. In lacs) For the report period is given in below table. Sr No. Parameter Recurring Cost (Rs. In lacs) For the report period is given in below table. Sr No. Parameter Recurring Cost (Rs. In lacs) For the report period is given in belogition Control 2 Liquid Pollution Control 2865 3 Environmental Monitoring and Monagement 21 4 Solid waste Disposal 346	T	- <u> </u>		[г – т
iv The project outhorities will provide adequate funds to recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the State Government and Forest as well as the State Government along with the implementation schedule for all the Conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the Conditions stipulated by Conditions Control 2865 Recurring Cost (Rs. In Iacs) For the report period is given in below table.			Gram Panchayat Hall	70	56.50	66.50	58.83
ivThe project authoritiesComplied.ivThe project authoritiesComplied.ivThe project authoritiesComplied.ivThe project authoritiesComplied.ivThe project authoritiesComplied.ivThe project authoritiesComplied.ivThe project authoritiesEMP measures are already implemented by 2010. Recurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure for the report period is given in below table.by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.Sr No.ParameterRecurring Cost (Rs. In lacs) For the report period October 20 – March 211Air Pollution Control 228653Environmental Monitoring and Management214Solid waste Disposal Occupational health 20346		5	Near Main Office North site	70	56.30	64.20	58.62
iv The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so provide shall not be diverted for any other purposes. Complied. Image: No. Complied. Image: No. Parameter Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 Image: No. Parameter Image: No. Recurring Cost (Rs. Image: Non Image: Non Parameter Image: Non Image: Non Image: Non Imag				70	52.50		55.98
ivThe project authoritiesComplied.ivThe authoritiesComplied.authoritieswill provide adequate funds to recurring and non-recurring to implement the Ministry of Environment and Forest as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so provide shall not be diverted for any other purposes.Complied.IvThe adequate funds to recurring and non-recurring to implement along with all the legal requirement stipulated by Sr No.EMP measures are already implemented by 2010. Recurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure for the report period is given in below table.Sr No.ParameterRecurring Cost (Rs. In lacs) For the report period October 20 – March 211Air Pollution Control 228653Environmental Monitoring and Monagement214Solid waste Disposal 53465Occupational health206Green belt7		7	Opposite shed D	70	51.70	72.10	59.50
iv The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes. Complied. 10 66KVA substation 70 55.30 66.00 58.05 iv The project authorities will Complied. Implement diversion of the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions stipulated by the Ministry of 21 Implement the conditions sti		8	ETP West site	70	54.20	65.70	57.12
iv The project authorities will provide adequate funds to recurring to and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes. Complied. iv The project authorities Complied. iv The project authorities EMP measures are already implemented by 2010. Recurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure for the report period is given in below table. Sr No. Parameter Recurring Cost (Rs. In lacs) For the report period October 20 – March 21 1 Air Pollution Control 2865 3 Environmental Monitoring and Anangement 21 4 Solid waste Disposal 346		9	Water tank Haria road	70	52.40	63.40	56.02
authoritieswill provideEMP measures are already implemented by 2010.funds to recurring and non-recurring to implementEMP measures are already implemented by 2010.and non-recurring to implementEMP measures are already implemented by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure for the report period is given in below table.by the Ministry of Environment along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.Recurring Cost (Rs. In lacs) For the Parameter1Air Pollution Control 2 Liquid Pollution Control 328652Liquid Pollution Control 328653Environmental Monitoring and Management214Solid waste Disposal 53465Occupational health 20206Green belt7		10	66KVA substation	70	55.30	66.00	58.05
FundsRecurring cost: A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure for the report period is given in below table.Recurring Cost (Rs. In lacs) For the report period is given in below table.Recurring Cost (Rs. In lacs) For the report period October 20 – March 21Sr No.ParameterRecurring Cost (Rs. In lacs) For the report period October 20 – March 211Air Pollution Control 228652Liquid Pollution Control 3214Solid waste Disposal3465Occupational health206Green belt7	authorities will	•		ted by 2010.			
Environmentand Forest as well as the StateSr No.ParameterRecurring Cost (Rs. In lacs) For the report period October 20 – March 211Air Pollution Control28652Liquid Pollution Control28653Environmental Monitoring and Management214Solid waste Disposal3465Occupational health206Green belt7	funds to recurring and non-recurring to implement the conditions stipulated	Recurrin with all t upkeep o	g cost: A separate budget is he legal requirement stipulate of pollution control systems ar	being allocated ed by SPCB, CF	PCB & M	loEF apc	irt from
Implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.1 Air Pollution Control 2028651Air Pollution Control22Liquid Pollution Control23Environmental Monitoring and Management214Solid waste Disposal3465Occupational health206Green belt7	Environment and Forest as well as the State Government along with the	Sr No.	Parameter		In l rej	acs) For port per per 20 –	the iod
schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.Liquid Pollution Control28652Liquid Pollution Control3Environmental Monitoring and Management214Solid waste Disposal3465Occupational health206Green belt7	•	1	Air Pollution Control		1		
Conditions stipulated herein. The funds so provided shall not be diverted for any 					1	2865	
herein. The funds so provided shall not be diverted for any other purposes.Management4Solid waste Disposal3465Occupational health206Green belt7	-			nd	1	21	
diverted for other purposes.4Solid Waste Disposal3465Occupational health206Green belt7			5				
other purposes.5Occupational health206Green belt7		4	Solid waste Disposal		1	346	
other purposes.6Green belt7	,	5				20	
	other purposes.	6			1	7	
Total 3259							

	The project	Complied.
V	The project authorities must	The company complies with the rules and regulations with regard to handling
	strictly comply with	and disposal of hazardous wastes in accordance with the Hazardous and
	the rules and	Other Wastes (Management and Transboundary Movement) Rules, 2016.
		We have valid authorization under our current CCA No. AWH-105110 for
	regulations with	handling, storage and disposal of hazardous waste. Stipulation made in CCA
	regard to handling	by GPCB are being complied. This has been certified by our Environmental
	and disposal of	auditors, an authorized agency and nominated by GPCB; through
	hazardous wastes in	Environmental audit every year. Latest Environmental audit report by
	accordance with the	S.N.Patel Institute of Technology &research Centre for Environment research,
	Hazardous Wastes	Bardoli, Surat for year 2020-21 is attached as Annexure 2.
	(Management &	
	Handling) Rules,	
	2003.	
	Authorization from	Complied.
	the GPCB must be	
	obtained for	We have valid authorization under our current CCA No. AWH-105110 for
	collections	handling, storage and disposal of hazardous waste.
	/treatment/ storage/	
	disposal of	
	hazardous waste.	
vi	The stipulated	Noted.
	conditions will be	
	monitored by the	
	Regional office of this	
	Ministry at Bhopal/	
	GPCB.	
	A six monthly	Complied.
	compliance report	
	and the monitored	Six monthly compliance report and the monitored data are being submitted to
	data should be	the Ministry at Bhopal with copy marked to GPCB regularly.
	submitted to them	
	regularly.	
vii	The Project	Complied.
	Proponent shall	
	inform the public	W e informed the public through advertisement and by sending our EC to local
	that the project has	Panchayat, Zila parishad, District Industrial Centre for further actions at their
	been accorded	end.
	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 of	

	Environment and Forest at http://www.envfor.ni. in.	
	This shall be	Complied.
	advertised within	Advertisement was published as directed and copy of the same was
	seven Days from the date of issue of the	submitted to Ministry.
	clearance letter at	
	least in two local	
	newspaper 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	
	Ministry's Regional	
	office at Bhopal.	
3.0	The ministry or any	Noted.
	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 at Bhopal.	

4.0	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
5.0	Any other conditions or alternation in the above conditions will have to be implemented by the project authorities in a time bound manner.	Noted.
6.0	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air ((Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Amendment Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

			Contraction of	OCT. 2020	NOV. 2020	DEC.2020	JAN. 2021	FEB. 2021	MAR. 2021
Details of P	rocess and Flue stack		1000				1		
Sr. No.	Stock Details	Paramenter	Permissible Limits	Obtained Value	Obtained Volue	Obtained Value	Obtained Value	Obtained Value	Obtained Valu
Atul East Si	te						*		
1	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	33	20	48	42	31	54
		CO		ND	ND	ND	ND	ND	ND
2	Reactor (Phosgene plant- New)	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Caustic Chl	orine Plant								
3	Dechlorination Plant	Cly	9.0 mg/Nm3	8.1	2.46	4.3	8.2	5.8	5
		HCI	20.0 mg/Nm3	8.29	1,9	4.42	8.4	5.94	5.1
4	Common stock of HCI Sign unit 1&2	Cl ₂	9.0 mg/Nm3	7.5	3,8	5.7	8.15	4.9	4,4
		HCI	20.0 mg/Nm3	7.68	3.6	5.86	7.9	5.01	4.5
FCB Paint				10000					
5	Foul Gos Scubber	SO2 NOx	40.0 mg/Nm3 25.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
and the second second second	d (East Site)								
6	Sulfuric Acid Plant	SO2	2.0 kg/T	1.5	0.8	1.25	1.35	1.1	1.32
7	Manager and Lower with	Acid Mist	50.0 mg/Nm3	13.6	16.2	24.8	12.9	19.8	10.6
/	ChloroSulfonic Acid plant reactor	Ch	9.0 mg/Nm3	8.2	7.1	6.8	3.9	6.4	4.1
Resorcinol F	linet	HCI	20.0 mg/Nm3	8.85	7.3	6.99	3.7	6.55	4.3
B	Spray Dryer (Resorcinal Plant)	PM	150.0						
	apray bryer (Nesorcinal Hant)	PM	150.0 mg/Nm3	3.8	12.2	9.1	33.7	33.2	27.7
9	Scubber vent (Resorcinol Plant)	SO:	40.0 mg/Nm3	24.7	4	20.6	24.1	32.6	28.4
Incinerator	A CARLON AND A CARLON AND A								2011
10	Incinerator	PM	150.0 mg/Nm3	71.8	56.2	Not Running	Not Running	30.8	Not Running
		SO2	40.0 mg/Nm3	9.2	4.8		Sol Instan	12.4	
1		NOx	25.0 mg/Nm3	19.7	15.3			9.3	
NI Plant					Ser long				
11	Foul Gas Scubber	502	40.0 mg/Nm3	25.2	23.2	26.4	14.9	20.6	22.3
2-4-D Plant		NOx	25.0 mg/Nm3	15.9	20.7	18.4	16.8	12.1	14.9
12	Common Scrubber; 2,4D Plant	101	0.0 0000						
-	Common setupper, 2,40 Fight	CI2 HCI	9.0 mg/Nm3 20.0 mg/Nm3	7.6	6.4 6.63	5.1	6.4 6.8	7.8	5.4
1.	and the second second	Phenol	solo myrems	ND	0.63 ND	4.2	ND	7.48 ND	5.7 ND
13	Dryer-1	PM with Pesticide compound	20.0 mg/Nm3	14.8	11.2	14.2	13.1	12.8	10.9
14	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3	11.2	13.6	10.8	8.4	11.2	9.4
15	Dryer-3	PM with Pesticide compound	20.0 mg/Nm3	14.1	9.4	12.6	12.3	13.6	Not Running
16	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3	11	12	8.4	10.2	14,2	12.6
17	Dryer-5	PM with Pesticide	20.0 mg/Nm3	15.8	13.1	15.6	9.7	9.9	10.5

NBD Plant .		1.3.02.0	1000	1	1.30		1. A.		220000
18	Spray Dryer	PM	150.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
19	Scrubber 5-902	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
		HCI	20 mg/Nm3	10.4	12.9	16.1	14.2	7.9	8.2
20	Scrubber S-801/802	NOx	25.0 mg/Nm3	17.1	10.8	17.4	10.1	10.6	12.2
Sr. No.	Stack Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Volu
CP Plant		-							
21	MCPA	Cl ₂	9 mg/NM ³	Not Running	Not Bunning	Not Bunning	Not Running	Not Running	Not Running
		HCI	20 mg/NM ³				(tor that it in ity	The contrainty	troc running
		SO2	40 mg/NM ³	- Cent	PROPERTY.			and the second second	0.00
22	Fipronil	SO2	40 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
			100 million 100 million	-			(ist fishing		
23	Indenteende	HCI NH,	20 mg/Nm3						
23	Imidacloprid	NH3	175 mg/Nm3	Not Running	Not Hunning	Not Kunning	Not Running	Not Running	Not Running
24	Pyrothroids	SO ₂	40 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
		HCI	20 mg/Nm3						1.1.1.
25	Stack at Amine Plant	NH3	175 mg/Nm3	98	66	75	63	48.4	112
MPSL Plant	THE REAL PROPERTY AND			-	1				
26	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
NICO plant							1.00.10		L on
28	Central scrubber at Nico Plant	Acetonytryle	-	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Ester Plant		ICA							
29	Scrubber at Ester plant for Glyphosate	Formaldehy	10 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
30	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
31	MPP plant scrubber	HCI	20 mg/Nm3	7.5	3.4	5.8	12.4	6.3	8.1
1.		Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Atul West Si	te								
32	Shed A05/03/44	Cl ₂	9 mg/NM ³	Not Running	7.53	5.9	6.2	Not Running	Not Running
		HCI	20 mg/NM ³		9.8	7.2	6.5	1200	
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	Not Running	Not Running	5.5	7.1	6.9	6.2
		HCI	20.0 mg/Nm3	1.1.1.1.1.1.1		5.2	7.3	7.2	5.9
34	Shed 818/02/24 Fan	SO2	40 mg/NM ³	19.6	33.6	20.8	32	23.9	19.8
		Cl ₂	9 mg/NM ³	7.2	4.6	7.3	8.1	4.4	6.8
	and the second part of the second	HCI	20 mg/NM ³	7.37	4.4	7.6	7.8	4.5	6.6
35	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	Not Running	Not Running	5.1	7.8	4.3	6.5
		HCI	20.0 mg/Nm3			5,4	7.6	6.2	6.7
36	Shed D Niro Sproy dryer No. 45	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	71	Not Running	Not Running
37	Shed D Niro Sproy dryer No.50	PM	150.0 mg/Nm3	Not Running	Not Running	58,4	69	Not Running	Not Running
38	Shed E 7/12/49 Sproy Dryer	PM	150.0 mg/Nm3	Not Running	Not Running	69.1	Not Running	45.7	55.3
39	Shed F F6/1/15 Reaction Vessel	Cl ₂	9.0 mg/Nm3	5.7	7.68	7.98	7.2	6.16	Not Running
	Sing Croreres neuclion vesser	HCI	20.0 mg/Nm3	5./	7.68	8.2	7.2	6.34	Not Running
40	Shed G 10/8/1 (receiver)	-	20.0 mg/Nm3 9.0 mg/Nm3	14.6 Not Running	7.9 Not	8.2 Not			blat Duran's
	Sued G 10/0/1 (leceivel)	Cl ₂		Not Running			Not Running	Not Running	Not Running
		HCI	20.0 mg/Nm3		Running	Running	and the second second	1	

		Cl ₂	9.0 mg/Nm3	6.5	7.58	8.36	8.46	8.32	5.73
-		HCI	20.0 mg/Nm3	12	7.8	8.9	8.66	8.55	5.9
42	Shed K K-13/3/4 Final of Sulfuric acid	5O2	2.0 kg/T	1.6	0.86	0.9	1.1	0.95	1.3
	plant	Acid Mist	50.0 mg/Nm3	3.2	2.5	3	3.7	2.4	3.2
43	Shed J15/09/25	HBr	-	7.6	11.3	8.9	ND	ND	ND
		SO ₂	40 mg/NM ³	14.8	16.8	13.2	1.1	30.6	22.7
Sr. No.	Stack Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Volue	Obtained Value	Obtained Value	Obtained Valu
44	Shed J12/01/42	SOI	40 mg/NM3	1		19.8	24.7	18.3	20.1
	a series and the series	Cla	9.0 mg/Nm3	Not Running	Not Running	6.1	7.2	6.9	5.2
		HCI	20.0 mg/Nm3	Not Authing	Hot Hunting	6.4	7.4	6.3	5,4
45	Shed J12/03/36	SO	40 mg/NM [#]			26.6	28.9	19.2	23.6
		HC1	20.0 mg/Nm3	Not Running	Not Running	16.8	11.4	15.7	12.9
46	Shed N Scrubber Fan N20/08/24	Cla	9 mg/NM ³	6.2	7.6	5.2	7.2	5.7	6.6
100		HCI	20 mg/NM ³	6.34	6.34	9,1	5.3	5.83	6.8
47	Shed N Scrubber Fan N20/02/41	SO ₂	40 mg/NM ³	28.6	36.1	32.4	27.1	31.7	24.9
48	Sulfer Black Plant	H ₂ S	** *	ND	ND	ND	ND	ND	ND
		NHg	175 mg/NM ³	140	140	120	81.3	90.6	110
49	Sulfer Dyes plant	H ₂ S	••	ND	ND	ND	ND	ND	ND
		NHa	175 mg/NM ³	31.2	44.2	35.4	156	12.8	27.3
50	Flavors & Fragrances Plant	HCI	20 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Atul Nort	h Site			-					
51	N-FDH Plant Catalytic Incinerator	РМ	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
		SO2	40.0 mg/Nm3	and the second sec					
		NOx_	25.0 mg/Nm3			1.80			
	A second me to second	Formaldehy	10.0 mg/Nm3				10		
52	PHIN Plant	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
53	PHIN-II Plant	HCI	20 mg/NM ³	2.8	3.3	4.3	5	4.3	4.7
54	DDS Plant (Pharma Plant)	NHp	175 Mg/Nm3	Not Running	Not Running	Not Running	Not Running	110	150
55	SPIC II Plant (DCDPS)	SOa		ND	ND	Not Running	24.1	4,6	3.8
56	SPIC I Plant	NHa	175 mg/Nm3	Not Running	Not Running	Not Running	145	124	136
57	SPIC IV Plant	NH ₃	175 mg/NM ³	75		Not Running	59	66	12.9
		SO3		ND	ND	ND.	ND	14.4	17.3

Sr. No.	Stack Details	Poramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
Eost site			1.20 (2.64						34
1	FBC boiler El	PM	100 mg/Nm3	Not Running	Not Running	61.4	56.4	48.6	Not Running
2318		SO2	600 mg/Nm3			156	184	288	
		NOx	600 mg/Nm3	1000	12761.5	124	165	302	less -
2	FBC boiler E2	PM	100 mg/Nm3	71.4	Not Running	56.1	66.3	66.3	48.4
52		5O2	600 mg/Nm3	172		165	154	229	178
150	Contract of the	NOx	600 mg/Nm3	146		134	161	279	192
3	FBC boiler E3	PM	100 mg/Nm3	59.1	71.4	Not Running	Not Running	64.9	56.1
		SO ₂	600 mg/Nm3	158	190			330	230
3	Contract Contract	NOx	600 mg/Nm3	559	181	1 . C. 1		376	252
4	Hot Oil Unit	PM	150.0 mg/Nm3	18.4	12.2	44.6	11.6	29.6	18.6
-	(Resorcinol Plant)	502	100 ppm	6.2	4	23,4	14.2	6.2	6.2
		NOx	50 ppm	23.6	19.1	11.2	5.2	15.4	30.5
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	51.7	50.3	36.4	59.4	39.6	30.4
		SO ₂	100 ppm	9.1	9,2	5.6	68.2	9.6	6.3
		NOx	50 ppm	34.6	30.8	23.7	20.1	21.6	26.7
West Site			1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		19323				1
6	FBC boiler W1	PM	100 mg/Nm3	89.6	72	68.4	56.8	48.6	60.4
1		SO2	600 mg/Nm3	172	184	160	198	218	180
		NOx	600 mg/Nm3	144	158	172	164	196	230
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
		SO2	100 ppm	ND	ND	ND	ND	ND	ND
		NOx	50 ppm	20.5	14.8	16.9	21.8	15.2	18.8
8	Oil burner Shed B	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
-	(Stand By)	SO2	100 ppm	1	Rubbing	Running			
1	100 million (100 million)	NOx	50 ppm			-			
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	31.6	46	40.2	35.4	48.7	42.7
1		SO ₂	600 mg/Nm3	164	160	148	174	156	182
		NOx	300 mg/Nm3	148	168	152	142	172	196
1000		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND
10	DG set 1500 KVA (Stond By)	PM	150.0 mg/Nm3	44.8	60.6	51.7	44.3	54.7	52.6
100		SO2	100 ppm	10.8	11.4	7.4	10.4	11.8	8.4
2.0		NOx	50 ppm	41.5	44.6	34.8	25.8	30.2	31.2
North Site									-
11	Thermic fluid heater of DCO/DAP Plant	PM	150.0 mg/Nm3	29.6	40.2	31.7	49.3	29.6	34.4
		507	100 ppm	10.2	7.9	5.2	8.1	7.1	7.5
		NOx	50 ppm	17.1	23.8	31.7	23.3	25.7	20.1

Table 2: Fugitive Emission Monitoring details

					Results of	VOCs in M	lilligram	per NM ³	
Plant	Area	Parameter	Prescribed Limit	October 20	November 20	Decembe r 20	January 21	February 21	March 21
2,4 D	Reactor	Phenol	19	14.2	10.6	7.5	11.2	9.3	8.3
	Buffer tank	Chlorine	3.0	1.6	0.15	0.58	0.44	0.81	0.62
Resorcinol	Benzene storage tank area near vent		15	7.8	6.5	1.2	1.72	2.56	1.8
	Near Extraction/scru bber unit	Butyl acetate	-	580	350	410	460	425	380
Pharma	At second floor work area	Ammonia	18	ND	ND	ND	ND	3.8	4.5
	Ammonia recovery area	Ammonia	18	ND	ND	ND	ND	5.1	6.3
Ероху - І	At vacuum pump 2nd floor		10	3.8	4.8	5.6	3.9	3.1	4.4
	At vessel POS 1208 G.F	ECH	10	2.4	1.6	1.9	1.3	2.5	2.1
Shed H	At second floor work area	Nitrobenzene	5	2.6	3.5	2.4	1.8	2.1	3.1
Shed J	Buffer Tank	Chlorine	3	ND	ND	ND	ND	ND	ND

Table 3: Quality of treated effluent

		Results						
Sr No.	Parameter	October	November	December	January	February	March	GPCB Limits
		20	20	20	21	21	21	
1	рН	7.04	7.13	7.46	7.34	6.97	6.89	5.5 to 9.0
2	Temperature °C	30.4	30.1	30.2	30	30.1	30.4	40 °C
3	Colour (pt. co. scale)	40	30	30	40	60	50	
4	Suspended solids, mg/l	68	47	39	53	72	34	100
5	Phenolic Compounds, mg	0.8	1.2	0.58	0.94	0.83	ND	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	1.17	1.24	1.18	1.68	1.55	0.21	2
8	Sulphides, mg <i>l</i> l	1.12	0.98	0.94	1.37	1.16	ND	2
9	Ammonical Nitrogen, mg	7.56	8.42	7.28	4.26	1.97	9.1	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, m	ND	ND	ND	ND	ND	ND	1

12	BOD (3 Days at 27°C), m		38	31	40	35	42	52	100
13	COD, mg/l		153	164	216	204	230	168	250
		Note: ND is Not De	etectable.						

Table 4: Noise level monitoring data (Day Time)

Sr				Noise Lev	vel, dBA			– Permissible	
No.	Location	October	November	December	January	February	March	Limits, dBA	
		20	20	20	21	21	21	,	
1	Near Main guest house	64.7	65.8	64.7	63.5	65.3	52.4	75	
2	Near TSDF	66.6	65.6	64.8	63.7	67.3	57.6	75	
3	At Wyeth Colony	57.8	58.7	59.8	58.9	59.8	56.2	75	
4	Gram Panchayat Hall	67.6	68.5	67.4	66.5	65.6	55.6	75	
5	Near Main Office North	65.8	66.7	67.6	66.7	67.6	53.6	75	
	site								
6	ETP North site	70.7	71.2	70.3	69.2	65.1	55.2	75	
7	Opposite shed D	72.4	70.3	71.2	70.3	71.2	57.1	75	
8	ETP West site	67.9	68.7	67.8	66.7	67.5	52.4	75	
9	Water tank Haria road	65.4	66.5	65.6	64.5	65.5	55.6	75	
10	Near 66KVA substation	67.0	68.0	67.0	66.0	67.0	53.5	75	

Table 5: Noise level monitoring data (Night Time)

No.	Location			Noise Le	evel, dBA	L.		Permissible
		October	November	Decembe	January	February	March	Limits, dBA
		20	20	r 20	21	21	21	
1	Near Main guest house	55.3	56.4	55.3	54.2	64.2	54.2	70
2	Near TSDF	57.4	58.5	57.6	56.7	66.3	56.7	70
3	At Wyeth Colony	53.7	54.6	53.7	52.6	58.9	52.6	70
4	Gram Panchayat Hall	57.6	58.5	57.4	56.5	66.5	56.5	70
5	Near Main Office North site	59.4	58.3	57.2	56.3	64.2	56.3	70
6	ETP North site	56.5	55.6	54.6	53.5	63.2	52.5	70
7	Opposite shed D	59.8	58.9	57.8	56.7	72.1	51.7	70
8	ETP West site	57.1	56.2	55.3	54.2	65.7	54.2	70
9	Water tank Haria road	55.7	54.6	53.5	52.4	63.4	56.5	70
10	Near 66KVA substation	58.2	57.3	56.2	55.3	66	55.3	70

Annexure 1: GPCB Result

2°	REPORT FOR TE WATER SAMP	LE	Gujarat Pollution Control Board, C5/124, GIDC Near Hotel Pri Vapi - 390 Vapi - 390				
Sample ID:300539 - An	alysis Completion: 1	7/03/2021					
Dyes and Dye- Interm	ediates / LAB Inwar	d : 54856		50) 2432089			
	т	EST REPORT					
Test Report No. : 54856			Date: 1	7/03/2021			
1. Name of the Customer	: Atul Limite	d - 23158					
2. Address		33, 34, 35, 37, 38, 80, 81, 84, 85, 91, 20, Taluka : Valsad, District : Valsa		alsad, Pin:			
3. Nature of Sample	: REP-Repre	sentative/Grab, (Insp Type : COM	-On Complaint)				
4. Sample Collected By	: Trivedi Viv	ek R					
5. Quantity of Sample Received	: 5 lit						
6. Code No. of the Sample	: 300539						
7. Date & Time of Collection & Inwarding	: 03/03/2021	(1110 to 1110) & 04/03/2021					
8. Date of Start & Completion of Analysis	: 04/03/2021	& 17/03/2021					
9. Sampling Point	: ## Final O	itlet of the ETP ~					
10. Flow Details (Remarks)	: Yes						
11. Mode of Disposal	: Estury zone	of River Par through pipeline					
12. Ultimate Receiving Body	: Estuary zor	e of river par					
13. Temperature on Collection	: 32 & pH R	ange on pH Strip :@ 7-8 on pH str	ip				
14. Carboys Nos for	: barcode &	Color & Appearance :Brownish					
15. Water Consumption & W.W.G (KLPD)	: Ind :27956.	000 , Dom :938.000 & Ind :23774.0	00 , Dom :939.000				
Sr Parameter	Unit	Test Method	Range of Testing	Result			

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	32
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.76
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	85
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 - 200000 mg/L	7620
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 - 10000 mg/L	82
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standar	1 - 2000 mg/l.	23.52
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	2049
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	2693
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	125
10	Oil & Grease	mg/l	Liquid - Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.6
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.30
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-Fiodometric Method	1-500.0 mg/l	1.1
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05-50000 mg/l	26

Laboratory Remarks : Freeze By:335-vig_335 Dt.: 17/03/2021



Field Observation :

Note :

- 1.* These parameters are NOT covered under the scope of NABL.
- 2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
- 3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
- 4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing.
- 5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
- 6. Total liability of our laboratory is limited to the invoiced amount. Any dispute arising out of this report is subject to
- Gujarat Jurisdiction only.
- Permissible Limits: as per Schedule VI of EPA Rules, 1986 as ammended by Second and Third ammendment 1993 for Effluents
 Physicochemical and microbiological parameters, Std.Methods for Water and Waste Water- 22nd Edition by APHA.
 Bioassay test (for toxicity) -IS:6582:Part-2:2001; Reaffirmed 2007.

22/05/2021

Annexure 2: Abstract of Environmental Audit Report

M/s. Atul Ltd.

Plot. No.5,6,29,30,33,34,35,37,38,80,81,84,91 & amp; Survey No.274,275,276, At & amp; P.O.- Atul Pin - 396020 Dist. Valsad

THINK WITH SUSTAINABLE DEVELOPMENT

Environment Audit Report April - 2020 to March - 2021





VIDYABHARTI TRUST - UMRAKH S. N. PATEL INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE CENTRE FOR ENVIRONMENT RESEARCH (NABL Accrediated Laboratory)

> vidyabharti campus, At & Po., Umrakh, Ta. Bardoli, Dist. Surat (Gujarat) Pin - 394 345 e-mail :audit09eac@gmail.com / vbtdegree_umrakh@yahoo.co.in www.vidyabhartitrust.org Mo. : +91 9537422112 • Phone No. (02622) 224581, 220581 • Fax : 227481, 225458

OBSERVATION

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Company has done outstanding work to control COVID 19 infection by devising operational and systematic controls. Compliance more than the government COVID 19 guidelines was observed during all the three visits. Company has prepared and implemented its own stringent guidelines to control COVID 19 and to keep their employees and family safe in this difficult time.

It has been observed that company is having policy to donate and provide all the possible help to their neighbouring community and nation at large during all such natural calamities.

Company has donated total Rs. 5 Cr in PM & CM relief fund in addition to the distribution

of kits worth 50 lacs to the needy people in the neighbouring villages as well as migrant labours.

Company has applied for EC for expansion project and 50 MW CPP project. Public Hearing for both the projects have been completed successfully complying with COVID 19 guidelines.

Company has received registration certificate as brand owner by CPCB under plastic waste Management rules, 2016 and started collecting and disposing plastic as per the plan.

Company has installed South ETP which is under commissioning stage.

- Company has undertaken ZLD project for North ETP.
- Company has received CTE (EC to CTE) for its expansion and 50 MW CPP projects.
 - 5 S drive is going on in later and spirit and hence overall housekeeping was found satisfactory.
- Company is submitting quarterly reports on CPCB portal for its captive TSDF. Company is also submitting quarterly calibration reports of OCEMS to CPCB.
- 10 Company has submitted annual returns like Form IV, Form V, Form 3 for E-waste, Form 4 for BMW and Form VIII for Batteries within the stipulated time frame.
- 11

Company is regularly submitting EC compliance report and also uploading the same on its website.



Centre for Environment Research S.N. Patel Institute of Technology & Research Centre, Umrakh – Bardoli Page | 5

RECOMMENDATIONS

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- Company shall prepare an action plan for the points emerged during the public hearing.
- Company shall obtain fire NOC renewal as per the amended regulations
- Company shall upgrade its coal | fly ash handling system for betterment.
- Company shall install new Ambient Air Monitoring system |station
- Company shall install digital display board at the gate as per the NGT order.
- Company shall have membership of common facilities | pre | co processors for disposal of Hazardous wastes.
- Company shall plan for above ground effluent network at other sites also in phased manner.



Centre for Environment Research S.N. Patel Institute of Technology & Research Centre, Umrakh – Bardoli Page | 6 EAR: April 2020 - March 2021

M/s Atul Ltd., Valsad

ANNEXURE-32 COMPLIENCE REPORT

Sr. No.	NOC/Consent	Has Valid Consent/ Authorization	Complying With Standards And Other Conditions
(A)	Compliance Report of water as per Water Act, 1974: If NO, comment:	(farm R. Beanter) (farm) (farm) (farm) (farm) (farm)	Complied
(B)	Compliance Report for Air as per Air Act, 1981:If NO, comment:	Yes, Consent No. AWH-105110 is valid upto 30/09/2025	Complied
(C)	Compliance Report for the storage and handling of hazardous waste/chemicals under The Hazardous Waste (Management and Handling) Rule, 1989 & EPA-86 If NO, comment:	t in the second sof the second	Complied



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Project: Expansion of Pesticide and Synthetic Organic Chemicals manufacturing unit EC Compliance Report for EC F. No. J - 11011/85/2009 - IA II (I) dated May 13, 2009

Report Period: October 2020 - March 2021

Sr No	Condition	C	Complianc	e									
A. S	pecific Conditions												
i	Industrial Waste water generation shall not exceed 17,283 m ³ /d.		atest figu 1011/108 generatior	res given 3/2015 - IA 1 shall not	er EC grant in same. A - II - (I) d exceed 20,5 ater generat	According ated Febru 514 m ³ /Day	to sp Jary 1 y .	1, 2	fic co 2019.	ndit	ion d	of E	C F No.
		9	9212 m ³ /D Waste water generatic m ³	October	nich is well w November 20			ary		ary		rch	oelow table
			Month wise	284195	274672	265910	28109	96	27562	25	2931	20	1674618
			Per Day	9168	9156	8578	906	8	9844	4	945	5	9212 Avg.
			The maximum values during the vastewater generation went beyond the wastewater generation went beyon we wastewater generation we wastewater generation we wastewater generation we wastewater generation we was the wastewater generation we was the wastewater generation we was the			ond the stip	oulate	d vc	ilue. Su 'alues	umn for	hary is	s giv erio	en below: d
					value		Mi		Мс	IX.	Avg	j .	
	Was m ³ /d				generation	20514		85	78	98	44	923	12

23 m ³ /d High	Complied.										
COD effluent											
shall be	Since we have another EC granted in 2019 for expansion, we request to conside										
incinerated.	latest figures given in same. According to specific condition No. viii) of EC F No. 11011/108/2015 - IA - II - (I) dated February 11, 2019. "Industrial/trade effluer shall be segregated into High COD/TDS and Low COD/TDS effluent streams. Hig TDS/COD shall be passed through stripper followed by MEE and ATFD (agitate thin film drier). Low TDS effluent stream shall Be treated in ETP/RO to meet th prescribed standards." Accordingly the High TDS and High COD waste water quantity are now 291 m ³ / and 81 m ³ /d respectively.										
					, <u>,</u> , , , ,						
	We have been segregating high COD streams (COD >50000 ppm) and same is beir taken for recovery to get economic benefit. Rest lean effluent of COD <2000 ppm finally sent to ETP for treatment.										
	All the high COD streams are being diverted to recovery system rather the incineration. Streams containing Ammonia, Methanol, Copper, Solvents, Phenolic etc. are taken for the recovery of the same and reused. Hence, there is no High CO Waste water stream remaining and therefore no incineration was done during the paried.										
							period.				
						$07 m^3/d$ High					
						97 m ³ /d High	Complied.				
TDS effluent shall	Complied.	us the Uigh TDC off	luont quantitu	ic now 201 m ³	/d The guerage 12						
TDS effluent shall be evaporated	Complied. As stated abo	ve, the High TDS eff	• •								
TDS effluent shall	Complied. As stated abor m ³ /d high TDS	s waste water was e	• •								
TDS effluent shall be evaporated	Complied. As stated abo	s waste water was e	• •								
TDS effluent shall be evaporated	Complied. As stated abor m ³ /d high TDS	s waste water was e	evaporated in M		ort period. Detail bre						
TDS effluent shall be evaporated	Complied. As stated abor m ³ /d high TDS	s waste water was e	evaporated in M	1EE during repo	ort period. Detail bre						
TDS effluent shall be evaporated	Complied. As stated abor m ³ /d high TDS up is given in I	6 waste water was e below table:	evaporated in M Br High	IEE during repo	uent KI/Day Total Effluent						
TDS effluent shall be evaporated	Complied. As stated abor m ³ /d high TDS up is given in I Sr No.	6 waste water was e below table: Month	Br High TDS/COD	TEE during reported to the first during repor	uent KI/Day Total Effluent generation						
TDS effluent shall be evaporated	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1	6 waste water was e below table: Month October - 20	Br High TDS/COD 107	TEE during reported to the first term of efflution term of efflution terms of the first term of terms of the first term of the first term of terms	uent KI/Day Total Effluent generation 9168						
TDS effluent shall be evaporated	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4	6 waste water was e below table: Month October - 20 November - 20	High TDS/COD 107 125	IEE during reported in the first term of ter	uent KI/Day Total Effluent generation 9168 9156						
TDS effluent shall be evaporated	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4 5	Month October - 20 November - 20 January - 21 February - 21	Br High TDS/COD 107 125 136 146 149	IEE during report reak up of efflut Low TDS/COD 9061 9031 8442 8922 9695	Total Effluent generation 9168 9156 8578 9068 9844						
TDS effluent shall be evaporated	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4	6 waste water was e below table: Month October - 20 November - 20 December - 20 January - 21	High TDS/COD 107 125 136 146	IEE during report reak up of efflut Low TDS/COD 9061 9031 8442 8922	uent KI/Day Total Effluent generation 9168 9156 8578 9068						
TDS effluent shall be evaporated	Complied. As stated above m ³ /d high TDS up is given in b Sr No. 1 2 3 4 5 6	Month October - 20 November - 20 January - 21 February - 21	Br High TDS/COD 107 125 136 146 149	IEE during report reak up of efflut Low TDS/COD 9061 9031 8442 8922 9695	Total Effluent generation 9168 9156 8578 9068 9844						
TDS effluent shall be evaporated through MEE. Total quantity of	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4 5 6 Complied.	Month October - 20 November - 20 January - 21 February - 21	Br High TDS/COD 107 125 136 146 149 132	IEE during report reak up of efflut Low TDS/COD 9061 9031 8442 8922 9695 9323	Total Effluent generation 9168 9156 8578 9068 9844 9455						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4 5 6 Complied. According to February 11,	Month October - 20 November - 20 December - 20 January - 21 February - 21 March - 21	Br High TDS/COD 107 125 136 146 149 132 of EC F No. J	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall be treated at	Complied. As stated above m ³ /d high TDS up is given in b Sr No. 1 2 3 4 5 6 Complied. According to	Month October - 20 November - 20 December - 20 January - 21 February - 21 March - 21	Br High TDS/COD 107 125 136 146 149 132 of EC F No. J	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall be treated at company's own	Complied. As stated above m ³ /d high TDS up is given in b Sr No. 1 2 3 4 5 6 Complied. According to February 11, m ³ /d.	Month October - 20 November - 20 December - 20 January - 21 February - 21 March - 21 Specific condition 2019 Industrial W	High TDS/COD 107 125 136 146 149 132 of EC F No. J aste water ge	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20 eneration shall	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat Il not exceed 20,5						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall be treated at company's own effluent	Complied. As stated above m ³ /d high TDS up is given in H Sr No. 1 2 3 4 5 6 Complied. According to February 11, m ³ /d. The average S	Month Month October - 20 November - 20 January - 21 February - 21 March - 21 Specific condition 2019 Industrial W 9212 m³/Day waste	High TDS/COD 107 125 136 146 149 132 of EC F No. J Vaste water ge	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20 eneration shall	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat Il not exceed 20,5						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall be treated at company's own effluent treatment plant.	Complied. As stated above m ³ /d high TDS up is given in the Sr No. 1 2 3 4 5 6 Complied. According to February 11, m ³ /d. The average Streatment plan	Month October - 20 November - 20 December - 20 January - 21 February - 21 March - 21 Specific condition 2019 Industrial W	High TDS/COD 107 125 136 146 149 132 of EC F No. J Vaste water ge	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20 eneration shall	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat Il not exceed 20,5						
TDS effluent shall be evaporated through MEE. Total quantity of 17283 m ³ /d shall be treated at company's own effluent	Complied. As stated above m ³ /d high TDS up is given in H Sr No. 1 2 3 4 5 6 Complied. According to February 11, m ³ /d. The average S	Month Month October - 20 November - 20 January - 21 February - 21 March - 21 Specific condition 2019 Industrial W 9212 m ³ /Day waste	High TDS/COD 107 125 136 146 149 132 of EC F No. J Vaste water ge	AEE during report reak up of efflu Low TDS/COD 9061 9031 8442 8922 9695 9323 11011/108/20 eneration shall	Total Effluent generation 9168 9156 8578 9068 9844 9455 15 - IA - II - (I) dat Il not exceed 20,5						

effluent is being discharge into river par through 4 km line constructed by M/s Atul.				uent meetin Par through	0		pollu	ution co	ntrol bo	ard's limi	t is being
Ammonia	Compl	mplied.									
bearing effluent	Ammo	nia bea	aring effl	uent strean	ns ge	enerate	d fro	om 4,4 D	DS proc	luction is	recovered
shall be subject	by stri	stripping in series of packed column. The ammonia contained water from t							from the		
to ammonia				in condense					nia is bei	ng recycl	ed back in
recovery before	produc	tion of	4,4 DDS	. Details are	e giv	en in be	low	table:			
mixing with					_	.		I			
normal effluent				November	Dec			-	-	March	Total
stream.		nonia	20	20		20		21	21	21	
	(N	1T)	0	0	2	5.30	1	70	284	372	851.3
Phenol will be recovered from phenol containing effluent.	20 Kg columr	omplied. 0 Kg phenol is recovered from effluent per one MT of 2,4 D production. A distillation olumn has been installed for phenol recovery. Resin tower are installed to recover henol. Data is given in below table:									
			Octo	har Nover	nha	Decem	bor	Januar	Fobrug	r March	Total
			20			20		y 21	y 21	21	Total
		crude	72			139		1245	<u>y 21</u> 1548		7635
	distil		, 2		50	155		1215	1310	1021	1055
	2,4D		63	6 97	0	1215		1087	1354	1422	6684
	recov					_					
	2,6D	СР	48	3 10	0	93		83	103	108	535
	recov	reed									
	OCP	/	41	. 78	}	82		76	91	91	459
	Resid	due									
The treated effluent shall confirm the discharge norms.	and va The m	ated e lues of aximur	various n values	meeting all parameters during the the stipula	of t e co	reated e mplianc	efflue e pe	ent is giv eriod coi	en in Ta hfirms tl	ble 1 . hat at no	
		Sr No.	Parame	eter		Norm	าร	Octob		e period March 21	
								Min.	Max.	-	
		1	рН			5.5 -	9.0	6.89	7.46	7.13	
		2	Temper			40°C		30	30.4	30.2	
		3		pt. co. scale	e)		-	30	60	41.66	
		4	•	ded solids		100 r	-	34	72	41.66	
		5		c Compoun	ds	5 mg		0.58	1.2	0.87	
		6	Cyanide	es		0.2 m	ıg/l	ND	ND	ND	

			7	Fluorides			2 mg/		0.21		1.68	1.17	
			8	Sulphides			2 mg/		0.94		1.37	1.14	
			9	Ammonico	al Nitrog	gen	50 mg	g/l	1.97		9.1	6.43	
			10	Total Chro	omium		2 mg/		ND		ND	ND	
						1 mg/		ND		ND	ND		
			12	BOD (3 Do	ay s at 2	27°C)	100 m	ng/l	31		52	39.66	
			13	COD			250 m	ng/l	153		230	189.17	
	The domestic	Compli	ied.										
	effluent shall be	_											
	disposed off		estic effluent goes to soak pit a				ly di	verteo	d to	ETP. [Detail of	domestic	
	through septic	effluen	t genero	ation is giv	en in be	elow to	able:						
	tank / soak pit.	Dom	Domestic October November D			ocombo	lan	uary	Fob	ruary	March	Total	
			ewater	20	20		r 20	-	21		21	21	Total
			ration	20	20		1 20		21		21	21	
		-	n ³										
			h wise	9583	845	5	8796	89	968	88	322	9592	54217
		Per	day	309	273		284	2	89	2	85	309	291
					I								
		The mo	aximum	, minimum	n and av	rage	values	are g	jiven k	belov	V:		
			Dome	stic		Valu	es for th	ne pe	eriod (Octo	ber 21	March	ו ו
			Waste	water		21							
			gener			Min.			Max. Avg				
				stic Waste		273			309		291		
			<u> </u>	ation m ³ /d									
ii	The process	Compli	ied.										
	emissions (SO ₂ ,	All the		H_{2} (I_{2} and		ants ar	e heina	rout	od thr	ouat	h adea	uate and	properly
	NH ₃ , Cl ₂ , and HCl, shall be			bbing sys			5			0			
	scrubbed with	0		nitored th								0	
	Scrubbers.	and CP	CB wel	osite.	U U			0 /					
	The emission	Compli	ied										
	shall be	compi											
	dispersed	The em	nission i	s disperse	ed throu	igh ad	equate l	heigł	nt of s	tack	s as p	er CPCB	standard
	through stack of	as give	n below	/:		0		0			•		
	adequate height	For Inci	nerator	: Minimum	n stack ł	neight	shall be	30 r	neters	s abc	ove gro	ound.	
	as per CPCB			ack Heigh		•							
	standard.			ck results									Gaseous
				n process				0		mon	nthly bo	asis.	
		During	the rep	ort period	no case	e varie	s from s	tand	ard.				

	The gaseous emission from the DG sets shall be dispersed through stack of adequate height as per CPCB standards.	Complied. The gaseous emission from the DG sets is being dispersed through stack of adequate height as per CPCB standards given below: The minimum height of stack is provided using the following formula (ref. CPCB): H = h+0.2x\/KVA H =Total height of stack in meter h =Height of the building in meters where the generator set is installed KVA = Total generator capacity of the set in KVA However, DG sets are being used only during emergency startups.
	Acoustic enclosures shall be provided to the DG set to control the noise pollution.	Complied. All DG sets are having inbuilt acoustic enclosures to control the noise pollution and meeting the prescribed norms.
iii	The company shall upload the status of compliance of stipulated environmental clearance conditions including results of monitored data on its web site.	Complied. The status of compliance of stipulated environmental clearance conditions including results of monitored data is posted on our web site www.atul.co.in
	Status of compliance of stipulated environmental clearance conditions to be sent to Regional office of MoEF, the respective Zonal office of CPCB and the state pollution control board.	Compliance status report to the stipulated environmental clearance conditions are regularly submitted to the regional office of MoEF, zonal office of CPCB and state pollution control board.

Complied.

criteria

pollutant levels SPM, namely; RSPM, SO2, NOx (ambient levels as well as Stack emissions) or critical sectorial parameters like VOC, indicated for the project shall be monitored and displayed at a convenient location near the main gate of company in the public domain.

The

The critical pollutants parameters namely; SPM, RSPM, SO₂, NOx are monitored regularly on monthly basis and displayed at board at the company entrance.

Photograph of main gate digital display board for ambient air quality:



Details of stack results, ambient air monitoring and VOC measured in fugitive emission is given in **Table 2, 3 and 4** respectively.

The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given below:

Summary of Process Stack results:

No.	Parameter	Standard values as	Unit		s for the per 20 - 21	•		
		per CCA		Min.	Max. Avg.			
1	SO ₂	40	mg/Nm ³	1.1	36.1	22.05		
2	SO ₂ (kg/T)	2	kg/Т	0.8	1.6	1.16		
З	NOx	25	mg/Nm ³	9.3	20.7	14.05		
4	HCI	20	mg/Nm ³	1.9	16.8	7.46		
5	РМ	150	mg/Nm ³	3.8	71.8	39.4		

	PM with						
6	Pesticide	20	mg/Nm ³	8.4	15.8	11.95	
	compound						

Summary of Flue Stack results:

No.	Parameter	Standar d values as per	Unit	Values for the per October 20 - Mar 21		•			
		CCA		Min.	Max.	Avg.			
1	РМ	100	mg/Nm ³	48.4	89.6	62.34			
2	PM (New Boiler)	50	mg/Nm ³	35.4	46	40.53			
3	SO ₂	600	mg/Nm ³	148	330	190			
4	NOx	600	mg/Nm ³	124	559	218.6			
5	NOx (New Boiler)	300	mg/Nm ³	142	196	166			

Summary of Ambient Air Quality results:

Station	Parameter	Limit micro - gm/NM		Values for the period October 20 – March 21			
		3	Min.	Max.	Avg.		
	RSPM (PM2.5)	60	30.8	38.3	33.55		
	PM10	100	50.1	55.4	53.68		
66 KV	SO2	80	12.3	20.5	14.75		
00 K V	NO ₂	80	12.8	18.2	14.38		
	Ammonia	400	ND	ND	ND		
	HCI	200	ND	ND	ND		
	RSPM (PM2.5)	60	31.6	37.2	33.45		
	PM10	100	50.1	53.7	51.61		
Opposite	SO2	80	11.1	18.5	14.43		
Shed D	NO ₂	80	10.1	16.2	13.98		
	Ammonia	400	ND	ND	ND		
	HCI	200	ND	ND	ND		
	RSPM (PM2.5)	60	22	26	23.66		
	PM10	100	44	48	45.66		
West site ETP	SO2	80	7.9	12.1	9.533		
West sile ETF	NO ₂	80	8.1	9.3	8.7		
	Ammonia	400	ND	ND	ND		
	HCI	200	ND	ND	ND		
	RSPM (PM2.5)	60	23	30	27		
North site ETP	PM10	100	43	47	44.66		
	SO2	80	6.7	8.4	7.7		

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		•				
		NO ₂	80	6.7	9.3	7.71
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	21	28	25
		PM10	100	47	51	48.66
	TODE	SO2	80	6.2	10.3	8.23
	TSDF	NO ₂	80	6.5	10.5	8.25
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	23	27	24.67
		PM10	100	52	56	53.67
	Main Guest	SO2	80	8.1	11.2	9.67
	House	NO ₂	80	6.8	11.5	9.23
1		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	26	30	28.17
		PM10	100	49	53	50.83
		SO2	80	6.6	11.5	8.98
	W yeth Colony	NO ₂	80	7.3	10.3	8.53
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	26	31	28.17
		PM10	100	51	55	52.67
	Gram	SO2	80	7.5	12.3	9.93
	panchayat	NO ₂	80	7.7	10.4	8.82
	hall	Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	25	30	27.17
		PM10	100	45	49	46.67
	Main office,	SO2	80	7.4	11.3	9.18
	North site	NO ₂	80	7.8	8.7	8.25
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	31	35	32.58
		PM10	100	52.6	57.7	55.20
	Haria water	SO2	80	14.8	18.4	16.67
	tank	NO ₂	80	14.8	16.2	13.92
		Ammonia	400	12.5 ND	ND	ND
		HCI	200	ND	ND	ND

						Min.	Max.	Avg.	
		2,4 D	Reactor	Phenol	19	7.5	14.2	10.18	
		_,	Buffer	Chlorine	3	0.15	1.6	0.7	
			tank	CHIOHIE	J	0.15	1.0	0.7	
		Resorcino		Benzene	15	1.2	7.8	3.59	
			storage						
			tank area						
			near vent						
			Near	Butyl	-	350	580	434.1	
			Extraction	acetate					
			/scrubber						
		Pharma	unit At second	Ammonia	18	3.8	4.5	4.15	
		FHUITHU	floor work	Ammoniu	10	5.0	4.5	4.15	
			area						
			Ammonia	Ammonia	18	5.1	6.3	5.7	
			recovery						
			area						
		Ероху	At	ECH	10	3.1	5.6	4.26	
		-	vacuum						
			pump 2nd						
			floor At vessel	ECH	10	1.3	2.5	1.96	
			POS 1208		10	1.5	2.5	1.90	
			G.F						
		Shed H		Nitrobenze	5	1.8	3.5	2.58	
			floor work	ne					
			area						
		Shed J	Buffer	Chlorine	3	ND	ND	ND	
			Tank						
V	The company	Complied.							
	shall obtain	We have obtair	and authorize	ntion for our		E throug	Th CPCP	notification	no
	Authorization for	GPCB/HAZ/GEN				-	-		
	Collection; Storage and	November 19, 2							
	Disposal of	AWH - 105110							
	Hazardous								
	waste under the								
	hazardous waste								
	management								
	(Handling and								
	trans boundary								
	movement rule -								
	2008) for								
	management of								
	hazardous waste								
	and prior								

	permission from GPCB shall be obtained for disposal of solid waste in the TSDF.	
	The concerned company shall undertake measures for the firefighting facility in case of emergency.	 Compiled. A well designed Fire hydrant system is adequate and as per standards. Fire hydrant Network details: Four full - fledged fire hydrant system in the company Water Storage Capacity 50 million Liters Total length of hydrant line – 15 km Fire Fighting Equipment DCP1350 CO2 Fire Tenders One fire tender having 1800 Lit water capacity Second multipurpose fire tenders having 5000 Lit water &500Foam Third Multipurpose tender having facility of DCP - 500 Kg, Foam – 500 lit ard Water – 4500 Lit. SCBA sets – 35nos. Emergency alarm system – 532 nos. points spread across the company. Fire station manned round the clock with Siren and Annunciation System. Regular Testing on every Monday. Smoke detectors in the office and labs. Auto water deluging system at critical reactors. Auto water sprinkler system at tank farms.
vi	The project authorities shall strictly comply with the rules and guidelines under	Complied . We are complying with all the requirement of MSIHC rule 1989 as amended in October, 1994 and January, 2000 and having proper storage and handling system, Onsite emergency plan, Licenses, reporting, etc.
	manufacturing, storage and import of hazardous	The company complies with all stipulated norms of act made in CCA by GPCB are being complied. Excerpts of latest Environmental audit report by S.N.Patel Institute of Technology & research Centre for Environment research, Bardoli, Surat for year 2020 - 21 is attached as Annexure 1.

	chemicals rule	
	1989 as	
	amended in	
	Octoberober,	
	1994 and	
	January, 2000.	
	All	Complied.
	Transportation	
	of Hazardous	Transportation of Hazardous chemicals are being done as per the MVA rule 1989.
	chemicals shall	TREM (Transport Emergency) card and MSDS of chemicals are provided to
	be as per the	transporter.
	MVA, 1989.	
vii	The company	Complied.
VII	shall undertake	complied.
		All the liquid ingredients are being charged through measure vessels and/or flow
	waste	meters to control on quantity as per the stoichiometry. All the solid ingredients are
	minimization	charged after proper weighment only. All these meters and weighing machines are
	measures :	calibrated and records are maintained.
	Metering and	
	control of	
	quantities of	
	active	
	ingredients to	
	minimize waste.	
	Reuse of by	Complied.
	products from	
	the process as	Sodium sulfate, sodium thiosulphate, brine, MEE salt, sodium hypochlorite, copper
	raw materials or	hydroxide, spent acid, etc. are few by - products from the process which are being
	as raw material	sold for using the same either as raw material or as substitute to raw materials. Also,
	substitutes in	fly ash and gypsum are being used as raw material for brick manufacturing. Sodium
	other processes.	hypochlorite, sodium hydro sulfide, etc. are being used as raw material in other
	•	processes.
	Use of	Complied.
	automated filling	
	to minimize	Automated filling system for our agro products, polymers, resorcinol, and dyes for
	spillage.	small and bulk packing is provided to minimize spillage.
	Use of 'close	Complied.
	feed' system into	
	batch system.	Chemicals and solvents are handled in close handling system through pipe lines only.
	Venting	Complied.
	equipment	
	through vapor	All the reactors are equipped with vents/stacks, which are connected to either vapor
	recovery system.	recovery system consisting of condensers, ejector/vacuum pumps and/or scrubbers.
	, ,	Genoscorb technology for solvent vapor recovery is also installed and working
		perfectly.
	Use of high	Complied.
	pressure hoses	
	for equipment	Many equipment like reactors, spray dryers, condenser wherever necessary are being

	cleaning to	cleaned with high pressure sprayer / jet to reduce waste water generation.
	reduce	
	wastewater	
	generation.	
viii	Fugitive	Complied.
	emissions in the	
	work zone	Fugitive emissions in the work zone environment and raw material storage area is
	environment,	being regularly monitored by NABL approved third party.
	product, raw	Data for the reporting period is given in Table 4 . Besides this online monitors in work
	material storage	area for parameters like Chlorine, HCI and Phosgene are also installed.
	area shall be	
	regularly	The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards.
	monitored. The	
	emission shall	Summary is given in specific condition iii.
	conform to the	
	limits imposed by	
	I.	
ix	The project	Complied.
	authority shall	All the MOCe set receivery existence are attrached with skilled bring colution in
	provide chilled	All the VOCs/solvent recovery systems are attached with chilled brine solution in secondary condenser for condensation of VOCs.
	brine solution in	secondary condenser for condensation of vocs.
	secondary	
	condenser for	
	condensation of	
	the VOCs.	
	The project	Complied.
	authority shall	
	ensure that	On an average solvent recovery is 96%.
	solvent recovery	
	shall not be less	
	than 95%	
	The VOC	Complied.
	monitoring shall	
	be carried in the	We are monitoring VOC as well as other chemicals in work area as per Factories Act
	solvent storage	and records are being maintained in Form No. 37.
	area and data	
	submitted to the	VOC monitoring in solvent storage area is being done and data are submitted through
	Ministry.	EC compliance report.
		Data for the report period is given in Table 4.
	l	

x S	Solvent	Complied.
n	nanagement	
S	shall be as	All the reactors handling solvent are connected/attached with chilled brine condenser
fo	ollows:	for solvent recovery.
R	Reactor shall be	
C	connected to	
c	chilled brine	
C	condenser	
S	system.	
R	Reactor and	Complied.
S	olvent handling	
р	oump shall have	All the reactors and pumps handling solvent are equipped with mechanical seals to
n	nechanical seals	prevent leakages.
to	o prevent	
le	eakages.	
Т	The condensers	Complied.
s	hall be provided	
N	with sufficient	The condensers provided are properly designed with respect to HTA and Residence
H	-ITA and	time to achieve more than 95 % recovery. As mentioned above, average 96 % solvent
re	esidence time so	recovery is being achieved.
a	as to achieve	
n	more than 95%	
re	ecovery.	
S	Solvents shall be	Complied.
s	stored in a	
S	separate space	Solvents are stored in tank farms in separate tanks with proper earthing, flame
s	pecified with all	arresters, lightening arresters, fencing, Fire hydrant system, Fire extinguishers, flame
S	afety measures.	proof equipment, etc. safety measures.
P	Proper earthing	Complied.
s	hall be provided	
ir	n all the	Double earthing is provided and regular checking and testing of the same is being
e	electrical	done and recorded.
e	equipment	
W	wherever solvent	
h	nandling is done.	
E	Entire plant shall	Complied.
b	be flame proof.	
		Plants are equipped with Jumpers, flame proof electrical fittings and proper earthing
		as per the Hazardous area classification of PESO.
	The solvent	Complied.
	storage tanks	
	shall be provided	Breather valves have been provided to all the solvent storage tanks to minimize the
	with breather	loses.
	alve to prevent	
	oses.	
xi H	Hazardous	Complied.

	chemicals shall	Hazardous chemicals are being stored in tanks, drums and carboys considering the storage quantity and chemical stored.
	be stored in	storage quantity and chemical stored.
	tanks in tank	
	farms, drums,	
	carboys etc.	
	Company shall	Complied.
	develop an area	
	of 33% green	Proper plantation is done all around
	belt and	the plant boundary and also
	selection of plant	the roads to mitigate fugitive &
	species shall be	transport dust emission.
	as per the	Total Industrial Plot area:
	guideline of	1126078.27 sq.mt
	CPCB.	Green belt area: 409030.00 sq.mt
		(approx. 36% of total plot area)
		Layout plan with green belt is shown
		as under:
		We plant more than 50000 plants every year on road sides and other open areas in
		nearby villages or schools in consultation with the Gram panchayat.
xii	The company	Complied.
	shall harvest	
	surface as well	Company has expanded its harvesting pond capacity to 14000 KL capacity pond to
	as rain water	harvest rain water
	from the roof	
	tops of the	We are creating facility/capacity to cater our consumption with rain harvested water
	building and	with zero river drawls of water during the rainy days. Besides this, there are three
	storm water	check dams and pumping facility to harvest rain water.
	drain to recharge	We also construct tomograpy cand have dom on top of dom towards the and of
	the ground water	We also construct temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain water in river Par.
	and use the	In addition to above, surface runoff water and roof top water is used to recharge bore
	same water for	wells.
	the various	weils.
	activities of the	
	project to	

	conserve fresh water.					
xiii	Occupational health surveillance of the workers shall be done on a regular basis and records		is per the		5	on regular basis and t period is shown in
	maintained as				1	1
	per the Factories		Sr No.	Employee	Quantity	
	Act.		1	Staff		
			2	Operators	1895	
			3	Workers		
	eneral Conditions:	I				
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	has been certified nominated by GPCB Excerpts of latest Er research Centre for attached as Annexu	by our E ; through E nvironment Environm	nvironmental auc nvironmental audi al audit report by	litors, an auth t every year. S.N.Patel Insti	d the stipulation. This norized agency and tute of Technology & year 2020 - 21 is
ii	No further	Complied.				
	expansionormodificationinthe plant shall becarriedoutwithoutpriorapprovaloftheMinistryMinistryofEnvironment andForests.Incaseof	Any expansion will b	e done onl	y after getting EC.		
	deviations or					
	alterations in the					
1	project proposal					

	from those	
	submitted to this	
	Ministry for	
	clearance, a	
	fresh reference	
	shall be made to	
	the Ministry to	
	assess the	
	adequacy of	
	conditions	
	imposed and to	
	add additional	
	environmental	
	protection	
	•	
	measures	
	required, if any.	
iii	At no time, the	Complied.
	emissions shall	Monthly monitoring is being done by NABL approved third party.
	exceed the	
	prescribed limits.	At no time, the emissions exceeded the prescribed limits during report period.
	F	Summary of stack results given in specific condition no. iii.
	In the event of	Complied.
	failure of any	
	pollution control	No such case happened during compliance period. W henever such incident of failure
	•	of pollution control system happened, we will stop the operation and rectify the
	system adopted	problem and then only restart.
	by the units, the	
	unit shall be	
	immediately put	
	out of operation	
	and shall not be	
	restarted until	
	the desired	
	efficiency has	
	been achieved.	
iv	The Gaseous	Complied.
	emission (NOx,	
	HCl, SO2 and	The gaseous emissions (SO ₂ , NOx, and HCI) and particulate matters from various
	SPM) and	process units confirms to the standards prescribed by GPCB through CCA.
	Particulate	Details of stack results for the compliance period is given in Table 2 .
	matter along	
	with RSPM levels	
	from various	
	process units	
	shall conform to	
	the standards	
	prescribed by the	

concerned authorities from time to time.	
At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of	Complied. We will ensure that at no time emission will go beyond the standards. The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Summary of stack results given in specific condition no. ii. Complied.
pollution control system(s) adopted by the unit, the respective unit shall not be restricted until the control measures are rectified to achieve the desired efficiency. Stack monitoring for SO ₂ , NOx and	No such case happened during compliance period. Stack monitoring for SO ₂ , NOx and SPM has been carried out and details given in Table 2 . Whenever such incident of failure of pollution control system happened, we will stop the operation and rectify the problem and then only restart.
SPM shall be carried.	

V	The Location of	Complied.							
	ambient air								
	quality		The Location of ambient air quality monitoring stations had been decided in						
	monitoring		onsultation with GPCB so that at least one station is installed in the up wind and						
	stations shall be		ownwind direction as well as where maximum ground level concentration are						
	decided in		nticipated. The same had been shown to authority like SPCB, CPCB & MoEF during						
	consultation with	their visit to o	ur facto	Dry.					
	state pollution	1							
	control Board	List of our am	bient a	ir monitoring station is given below:					
	and it shall be								
	ensured that at		No.						
	least one station		1	66 KVA GEB substation					
	is installed in the		2	Opposite Shed D					
	up wind and		3	West site ETP					
	downwind		4	North site ETP					
			5	Near TSDF					
	direction as well		6	Near Main Guest House					
	as where		7	At Wyeth Colony					
	maximum		8	Gram panchayat hall					
	ground level		9	Near Main office, North site					
	concentration		10	Haria Water tank					
	are anticipated.								
			pient ai	r quality results is given in Table 3 .					
vi	Dedicated	Complied.							
	Scrubbers and								
	stacks of			with stacks of appropriate height (as per the central pollution					
	appropriate		-	line) have been provided to control the emission from various					
	height as per the	vents. Details	of stac	k results along with its height data is given in Table 2 .					
	central pollution								
	control board								
	guideline shall be								
	provided to								
	control the								
	emission from								
	various vents.								
	The scrubber	Complied.							
	water shall be	complica.							
	sent to ETP for	The scrubber	water i	s being sent to ETP for further treatment.					
	further								
	treatment or sell								
	to actual end								
	users.								

vii	The overall noise	Comp	hoil							
VII	level in and	Comp	complica.							
		In huil	In built acoustic enclosure, silencer and insulation are provided on all source of noise							
	around the plant		generation to keep over all noise level within the stipulated standards like turbine, DG set, etc.							
	area shall be	0								
	kept well within	500,00								
	the standard by									
	providing noise									
	control									
	measures									
	including									
	acoustic hoods									
	silencers,									
	enclosures etc.									
	on all source of									
	noise									
	generation.									
	The ambient	Comp	lied.							
	noise level shall									
	confirm to the	The a	mbie	ent noise level confirm to the st	tandard prescr	ibed un	der EPA.	The same is		
	standards	being	regu	larly monitored and its details	are given in Ta	ble 5 ar	nd 6.			
	prescribed under	0	0	num values during the compliar	0			ime the noise		
	Environment(emissi	ion le	evel went beyond the stipulated	d standards. S	ummary	is given	below:		
	Protection) Act -						-			
	1986 Rules,1989	Noise	leve	l monitoring data (Day Time):	:					
	viz 75 dBA (Day									
	time) and 70 dBA	ç	Sr			Value	s for the	period		
	-	r	No.	Location	Permissible		oer 20 -	-		
	(night time)				Limits,		21			
					dBA	Min.	Max.	•		
								Ava.		
			1	Near Main quest house	75	52.40		Avg. 62.73		
		1		Near Main guest house	75	52.40 57.60	65.80	62.73		
		2	2	Near TSDF	75	57.60	65.80 67.30	62.73 64.27		
		2	2 3	Near TSDF At Wyeth Colony	75 75	57.60 56.20	65.80 67.30 59.80	62.73 64.27 58.53		
		23	2 3 4	Near TSDF At Wyeth Colony Gram Panchayat Hall	75 75 75	57.60 56.20 55.60	65.80 67.30 59.80 68.50	62.73 64.27 58.53 65.20		
		2	2 3 4 5	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site	75 75 75 75 75	57.60 56.20 55.60 53.60	65.80 67.30 59.80 68.50 67.60	62.73 64.27 58.53 65.20 64.67		
			2 3 4 5 5	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP	75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20	65.80 67.30 59.80 68.50 67.60 71.20	62.73 64.27 58.53 65.20 64.67 66.95		
		2 3 4 5 7	2 3 4 5 6 7	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D	75 75 75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20 57.10	65.80 67.30 59.80 68.50 67.60 71.20 72.40	62.73 64.27 58.53 65.20 64.67 66.95 68.75		
		2 3 4 5 7 8	2 3 4 5 7 7 8	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP	75 75 75 75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20 57.10 52.40	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17		
		2 3 4 5 7 8 9	2 3 4 5 5 7 7 8 9	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank	75 75 75 75 75 75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20 57.10 52.40 55.60	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85		
		2 3 4 5 7 8 9	2 3 4 5 7 7 8	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP	75 75 75 75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20 57.10 52.40	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17		
		2 3 4 5 7 8 5 7 8 5 7 8 5 9 1	2 3 4 5 5 7 7 8 9 10	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank	75 75 75 75 75 75 75 75 75 75 75	57.60 56.20 55.60 53.60 55.20 57.10 52.40 55.60	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85		
		2 3 4 5 7 8 5 7 8 5 7 8 5 9 1	2 3 4 5 5 7 7 8 9 10	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank 66KVA substation	75 75 75 75 75 75 75 75 75 75 75	57.60 56.20 53.60 55.20 57.10 52.40 55.60 53.50	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 68.70 68.00	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75		
		2 3 4 5 6 7 8 9 1 1 Noise	2 3 4 5 5 7 7 8 9 10	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank 66KVA substation	75 75 75 75 75 75 75 75 75 75 75	57.60 56.20 55.60 55.20 57.10 52.40 55.60 53.50 Value	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50 68.00	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75 64.75		
		2 3 4 5 7 8 9 1 1 Noise	2 3 4 5 7 7 8 9 10	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank 66KVA substation	75 75 75 75 75 75 75 75 75 75 75 75	57.60 56.20 53.60 55.20 57.10 52.40 55.60 53.50 Values Oc	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50 68.00 68.00	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75 64.75		
		2 3 4 5 7 8 9 1 1 Noise	2 3 4 5 7 8 9 10 8 leve Sr	Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site North site ETP Opposite shed D West site ETP Haria water tank 66KVA substation	75 75 75 75 75 75 75 75 75 75 75 75 75 e):	57.60 56.20 53.60 55.20 57.10 52.40 55.60 53.50 Values Oc	65.80 67.30 59.80 68.50 67.60 71.20 72.40 68.70 66.50 68.00	62.73 64.27 58.53 65.20 64.67 66.95 68.75 65.17 63.85 64.75 64.75		

		1		70	E 4 20	64.20	EC CO	
		1	Near Main guest house Near TSDF	70 70	54.20 56.70	64.20 66.30	56.60 58.87	-
		3		70	52.60	58.90	56.67	_
		4	At Wyeth Colony	70		66.50		_
		4	Gram Panchayat Hall		56.50		58.83	
			Near Main Office North site	70	56.30	64.20	58.62	-
		6	North site ETP	70	52.50	63.20	55.98	_
		7	Opposite shed D	70	51.70	72.10	59.50	
		8	West site ETP	70	54.20	65.70	57.12	
		9	Haria Water tank	70	52.40	63.40	56.02	
		10	66KVA substation	70	55.30	66.00	58.05	
viii	Training shall be imparted to all employees on safety and health aspects of chemicals handling.	Complied . Company is imparting training to all new employees as well as regular employe regular intervals on safety and health aspects of chemicals handling. S precautions and hazards are also being communicated through display board appropriate places in the plants.						
	employment and routine periodical medical examination for all employees shall be undertaken on regular basis.	Pre-medical checkup and routine medical checkup for the employees is being dou regular basis. Summary of medical checkup given in specific condition no. xiii.						ne on
ix	Usage of PPE's	Complied						
	by employee/ workers shall be ensured.	Company	have PPE policy in place and PPEs to all the employees.	is strictly foll	owed. (Company	y is provi	ding
x	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in project report submitted to the ministry.		has complied with all the s proposed in the report apart fr		•			

recommendat n made respect environmenta management	
xi The company	Complied.
undertake	
relevant	Company is doing CSR activities for up gradation of surrounding area and well fare of
measures	nearby localities. List of CSR activities is given in Table 7.
1 3	
socio econoi	
condition for	
surrounding	
area, C	
activities will	
undertaken	
involving lo	
villages c administratior	
	Complied as mentioned in xi above.
xii The compo shall underto	•
eco	
developmento	
measures	
including	
community	
welfare	
measures in	
project area	
the ove	
improvement	
the environme	

xiii	A Separate	Complie	ed.						
	environmental management cell equipped with full flagged laboratory facility shall be	Company is having separate Environmental Management Cell equipped with full - fledged laboratory facility to carry out the environment management and monitoring functions. Apart from this, one Environment Research Lab is also established for research work for the study of various aspects related to environment and its remedial measures.							
	set up to carry out the environmental management and monitoring function.	Company has developed a separate laboratory equipped with equipment such as pH meter, TDS meter, COD meter, Glass ware, gas chromatography system, and oven, muffle furnace, etc. to carry out testing of routine parameters. However sampling and testing is carried out by GPCB approved and company appointed consultant also. Currently the parameters measured in - house are pH, COD, TDS, MLVSS and MLSS.							
xiv	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of	Recurri legal re	easures c ng cost: / quiremer	nt stipulated by SPCB, CPC	allocated every year to comply with all t B & MoEF apart from upkeep of pollution iture for the report period is given in belc	on			
	Environment and Forest as well as the State		Sr No.	Parameter	Recurring Cost (Rs. In lacs) For the report period				
	Government		1	Air Pollution Control	October 20 – March 21				
	along with the		2	Liquid Pollution Control	2865				
	implementation schedule for all the conditions		3	Environmental Monitoring and Management	21				
	stipulated		4	Solid waste Disposal	346				
	herein. The funds		5	Occupational health	20				
	so provided shall not be diverted		6	Green belt	7				
	for any other			Total	3259				
	purposes.								

xv	A copy of the	Complied.
	clearance letter	
	shall be sent by the proponent to concerned Panchayat, Zila parishad/Munici pal Corporation. Urban local body and the local NGO, if any, from who suggestions/repr	Latest submission to the Panchayat, Zila parishad, District Industrial Centre was distributed on 11.11.2016. Copy of the same was submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
	esentation, if	
	any, were	
	received while	
	processing the	
	proposal.	
	The clearance	Complied.
	letter shall also	
	be put on the	Available at company's website at www.atul.co.in
	web site of the	
	company by the	
⊢.	proponent.	
xvi	The	Complied.
	implementation	SPCB and MoEF is monitoring through their regular visits.
	of the project vis	
	- à - vis environmental	
	action plan shall be monitored by	
	Ministry's	
	Regional office	
	at Bhopal / SPCB	
	/ CPCB.	

xvii	The Project	Complied.
ו••	Proponent shall	
	inform the public	We informed the public through advertisement and by sending our EC to local
	that the project	
	has been	
	accorded	
	environmental	
	clearance by the	
	Ministry and	
	copies of the	
	clearance letter	
	are available	
	with the	
	SPCB/Committe	
	e and may also	
	be seen at	
	website of the	
	Ministry of	
	Environment and	
	Forest at	
	http://www.envf	
	or.ni.in.	
	This shall be	Complied.
	advertised within	
	seven days from	
	the date of issue	Ministry vide our letter dated November 14, 2009.
	of the clearance	
	letter at least in	
	two local	
	newspaper that	
	are widely	
	circulated in the	
	region of which one shall be in	
	one snall be in the vernacular	
	language of the	
	locality	
	concerned and a	
	copy of the same	
	shall be	
	forwarded to the	
	concerned	
	Ministry's	
	Regional office	
	at Bhopal.	

xvii	The project	Complied.
i	authorities shall	
	inform the	Start date: May 2009
	Regional Office	Completion date : May 2010
	as well as the	Final approval: We have obtained NOC and CCA from GPCB.
	Ministry, the date	Company has funded the project internally and hence not submitted the financial
	of financial	closure details.
	closures and	
	final approval of	
	the project by the	
	concerned	
	authorities and	
	the date of start	
	of the project.	
8	The Ministry may	Noted.
	revoke or	
	suspend the	
	clearance if	
	implementation	
	of any of the	
	above conditions	
	is not	
	satisfactory.	
9	The Ministry	Noted.
	reserves the right	
	to stipulate	
	additional	
	conditions, if	
	found necessary.	
	The company in	
	a time bound	
	manner will	
	implement these	
	conditions.	

10	Any appeal	Noted.
10	• • •	Noted.
	5	
	Environment	
	clearance shall	
	lie with the	
	national	
	appellate	
	authority, if	
	preferred, within	
	a period of 30	
	days as	
	prescribed under	
	section 11 of	
	National	
	Environment	
	Appellate	
	Authority Act,	
	1997.	
11	The above	Noted.
	conditions will be	
	enforced, inter -	
	alia under the	
	provisions of the	
	Water	
	(Prevention and	
	Control of	
	Pollution) Act,	
	1974 the Air	
	((Prevention and	
	Control of	
	Pollution) Act,	
	1981 the	
	Environment	
	(Protection) Act,	
	1986, Hazardous	
	Wastes	
	(Management,	
	Handling and	
	Transboundary	
	movement)	
	Rules, 2008 and	
	the Public	
	Liability	
	Insurance Act,	
	1991 along with	
	their	

amendments	
and rules.	

Table1: Quality of treated effluent

Sr	Parameter			Result	S			GPCB Limits			
No.		October	tober November December January February March								
		20	20	20	21	21	21				
1	рН	7.04	7.13	7.46	7.34	6.97	6.89	5.5 to 9.0			
2	Temperature °C	30.4	30.1	30.2	30	30.1	30.4	40 °C			
3	Colour (pt. co. scale)	40	30	30	40	60	50				
4	Suspended solids, mg/l	68	47	39	53	72	34	100			
5	Phenolic Compounds, mg/l	0.8	1.2	0.58	0.94	0.83	ND	5			
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2			
7	Fluorides, mg <i>l</i> l	1.17	1.24	1.18	1.68	1.55	0.21	2			
8	Sulphides, mg/l	1.12	0.98	0.94	1.37	1.16	ND	2			
9	Ammonical Nitrogen, mg/l	7.56	8.42	7.28	4.26	1.97	9.1	50			
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2			
11	Hexavelent Chromium, mg <i>l</i> l	ND	ND	ND	ND	ND	ND	1			
12	BOD (3 days at 27°C), mg/l	38	31	40	35	42	52	100			
13	COD, mg/l	153	164	216	204	230	168	250			
	Note: ND is N	Not Detect	able.								

Table: 2 Stack Results

				OCT. 2020	NOV. 2020	DEC.2020	JAN. 2021	FEB. 2021	MAR. 2021
Details of F	Process and Flue stack	desire to	areas and	1 Participantes	Concerne of			The state	
Sr. No.	Stock Details	Paramenter	Permissible	Obtained Value	Obtained	Obtained	Obtained	Obtained Value	Obtained Val
			Limits		Value	Value	Volue		
Atul East S	lite	- Collins	The same of the last	1.1.1 × 1.5.1		COLUMN 2	-		
L	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	33	20	48	42	31	54
,		со	-	ND	ND	ND	ND	ND	ND
-	Reactor (Phosgene plant- New)	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Caustic Chi	lorine Plant		1 Section 1	Contraction of the local data			in and the		
3	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	8.1	2.46	4.3	8.2	5.8	5
-		HCI	20.0 mg/Nm3	8,29	1.9	4.42	8,4	5.94	5.1
4	Common stack of HCI Sigri unit 1&2	Cl ₂	9.0 mg/Nm3	7.5	3.8	5.7	8.15	4.9	4.4
		HCI	20.0 mg/Nm3	7.68	3.6	5.86	7.9	5.01	4.5
CB Paint		E							
5	Foul Gos Scubber	502	40.0 mg/Nm3	Not in use	Nat in use	Not in use	Not in use	Not in use	Not in use
ulfurie Ari	id (East Site)	NOx	25.0 mg/Nm3		Concernance Service			In which we have	
Sultune Ac	Sulfuric Acid Plant	50,	201-07			1.05	4.75		
-	Summers Acid Fight	Acid Mist	2.0 kg/T 50.0 mg/Nm3	1.5	0.8	1.25 24.8	1.35	1.1	1.32
,	ChloroSulfonic Acid plant reactor	Cl ₂	9.0 mg/Nm3	8.2	7.1	6.8	3.9	6.4	4.1
		HCI	20.0 mg/Nm3	8.85	7.3	6.99	3.5	6.55	4.1
Resorcinol	Pinot	1101	Luio nigritica	0.05	7.5	0,33	3.1	0.35	4.3
3	Spray Dryer (Resorcinal Plant)	PM	150.0 mg/Nm3	3.8	12.2	9,1	33.7	33.2	27,7
)	Scubber vent (Resorcinol Plant)	SO,	40.0 mg/Nm3	24.7	4	20.6	24.1	32.6	28.4
ncinerator	and the state of the state of the								
.0	Incinerator	PM	150.0 mg/Nm3	71.8	56.2	Not Running	Not Running	30.8	Not Running
	the state of the second second	SO2	40.0 mg/Nm3	9.2	4.8		1.00	12.4	
100		NOx	25.0 mg/Nm3	19.7	15.3			9.3	1.
NI Plant									
11	Foul Gos Scubber	SO2	40.0 mg/Nm3	25.2	23.2	26.4	14.9	20.6	22.3
		NOx	25.0 mg/Nm3	15.9	20.7	18.4	16.8	12.1	14.9
-4-D Plan					10 million		1111	1.15	131
12	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	7.6	6.4	5.1	6.4	7.8	5.4
-	- Star Star Star	HCI	20.0 mg/Nm3	13.51	5.63	5.24	6.8	7.48	5.7
13	Dryer-1	Phenol		ND	ND	4.2	ND	ND	ND
	Citike.r	PM with Pesticide compound	20.0 mg/Nm3	14.8	11.2	14.2	13.1	12.8	10.9
14	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3	11.2	13.6	10.8	8.4	11.2	9.4
15	Dryer-3	PM with Pesticide compound	20,0 mg/Nm3	14.1	9.4	12.6	12.3	13.6	Not Running
6	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3	11	12	8.4	10.2	14.2	12.6
7	Dryer-5	PM with Pesticide compound	20.0 mg/Nm3	15.8	13.1	15.6	9.7	9.9	10.5

NBD Plant.	and the second	The second second			10000				
18	Spray Dryer	PM	150.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
19	Scrubber S-902	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
20	Scrubber S-801/802	HCI	20 mg/Nm3	10.4	12,9	16.1	14.2	7.9	8.2
20	Scrubber 5-801/802	NOx	25.0 mg/Nm3	17.1	10.8	17.4	10.1	10.6	12.2
Sr. No.	Stock Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Vali
CP Plant		1.1.1	1		100.00		1000		
21	мсра	Cl ₂	9 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
	-m	HCI	20 mg/NM ³				1	10 01 0	and the second
	and an end of the second list	SO2	40 mg/NM ³	1.		2.211		City Ser	198
22	Fipronil	50 ₂	40 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
	2 and and the	HCI	20 mg/Nm3						17
23	Imidacloprid	NH ₃	175 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
24	Pyrothroids	SO2	40 mg/Nm3	Not Running	Net Dunoing	Not Russian	Not Running	Not Running	Not Running
	ryrumoios			Not Running	Not Running	Not hunning	Not Kunning	Not nunning	Not Running
1	and the second	HCI	20 mg/Nm3	-					-
25	Stack at Amine Plant	NH3	175 mg/Nm3	98	66	75	63	48.4	112
MPSL Plant		1200	100		-	1000			
26	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
NICO plant			ALC: NOT			and a			1.1.1.1.1.1
28	Central scrubber at Nico Plant	Acetonytryle	- 193	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Ester Plant		IPA							
29	Scrubber at Ester plant for Glyphosate	Formaldehy	10 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
30	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
31	MPP plont scrubber	HCI	20 mg/Nm3	7.5	3.4	5.8	12.4	6.3	8.1
		Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Atul West Si	ite	· · · · · · · · · · · · · · · · · · ·	and below			110	110	Ho	110
32	Shed A05/03/44	Cl ₂	9 mg/NM ³	Not Running	7.53	5.9	6.2	Not Running	Not Running
		HCI	20 mg/NM ³		9.8	7.2	6.5		
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	Not Running	Not Running	5.5	7.1	6.9	6.2
		HCI	20.0 mg/Nm3	The rounding	Hot Running	5.2	7.3	7.2	5.9
34	Shed B18/02/24 Fan	SO2	40 mg/NM ³	19.6	33.6	20.8	32	23.9	19.8
	aneu 810/02/24 Pun			7.2	4.6	7.3	8.1	4.4	6.8
		Cl ₂ HCI	9 mg/NM ³	7.37	4.0	7.5	8.1 7.8	4.4	6.6
35	Shed C5/20/15 Chloringtor	Ch ₂	20 mg/NM ³ 9.0 mg/Nm3	Not Running	4.4 Not Running	5.1	7.8	4.5	6.5
-	Since careford condition	HCI	20.0 mg/Nm3	- Not Aunning	Hot Running	5.4	7.6	4.3	
36	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	Not Running	Not Running	5.4 Not Running	100 March 100 Ma	6.2 Not Running	6.7 Not Running
1		100	35-1-11			Read Pr			
37	Shed D Niro Sproy dryer No.50	PM	150.0 mg/Nm3	Not Running	Not Running	58.4	69	Not Running	Not Running
38	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	Not Running	Not Running	69.1	Not Running	45.7	55.3
39	Shed F F6/1/15 Reaction Vessel	Cl ₂	9.0 mg/Nm3	5.7	7.68	7.98	7.2	6.16	Not Running
		HCI	20.0 mg/Nm3	14.6	7.9	8.2	7.37	6.34	
40	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3	Not Running	Not	Not	Not Running	Not Running	Not Running
	Second and Second	HCI	20.0 mg/Nm3	an address of the second second	Running	Running	and the second second second	a construction operation of the state	allor Provinting to

41	Shed H 11/6/17 chloringtor	Cl ₂	9.0 mg/Nm3	6.5	7.58	8.36	8.46	8.32	5.73
-		HCI	20.0 mg/Nm3	12	7.8	8.9	8.66	8.55	5.9
42	Shed K K-13/3/4 Final of Sulfuric acid	SO ₂	2.0 kg/T	1.6	0.86	0.9	1.1	* 0.95	1.3
	plant	Acid Mist	50.0 mg/Nm3	3.2	2.5	3	3.7	2.4	3.2
43	Shed J15/09/25	HBr	-	7.6	11.3	8.9	ND	ND	ND
-		502	40 mg/NM ³	14.8	16.8	13.2	1.1 3	30.6	22.7
Sr. No.	Stack Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Valu
44	Shed J12/01/42	SO ₂	40 mg/NM ³			19.8	24.7	18.3	20.1
		Cla	9.0 mg/Nm3			6.1	7.2	6.9	5.2
		HCI	20.0 mg/Nm3	Not Running	Not Running	6.4	7.4	6.3	5.4
45	Shed J12/03/36	SO ₂	40 mg/NM ³			26.6	28.9	19.2	23.6
		HCI	20.0 mg/Nm3	Not Running	Not Running		11.4	15.7	12.9
46	Shed N Scrubber Fan N20/08/24	CI,	9 mg/NM ³	6.2	7.6	5.2	7.2	5.7	6.6
		HC1	20 mg/NM ³	6.34	6.34	9.1	5.3	5.83	6.8
47	Shed N Scrubber Fan N20/02/41	SO,	40 mg/NM3	28.6	36.1	32.4	27.1	31.7	24.9
48	Sulfer Black Plant	H ₂ S		ND	ND	ND	ND	ND	ND
	A SALE AND A SALE OF	NH ₂	175 mg/NM ³	140	140	120	81.3	90.6	110
49	Sulfer Dyes plant	H ₂ S	-	ND	ND	ND	ND	ND	ND
		NH ₂	175 mg/NM ³	31.2	44.2	35.4	156	12.8	27.3
50	Flavors & Fragrances Plant	HCI	20 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Atul Nort	h Site	1.2.							
51	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
		SO2	40.0 mg/Nm3	The second	Series -	-		TRUBERS	
		NOx	25.0 mg/Nm3			1			
	Part ale les and and	Formaldehy	10.0 mg/Nm3	too land	- And	100	10	Service	and the second
52	PHIN Plant	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
53	PHIN-II Plant	HCI	20 mg/NM ³	2.8	3.3	4.3	5	4.3	4.7
54	DDS Plant (Pharma Plant)	NH ₃	175 Mg/Nm3	Not Running	Not Running	Not Running	Not Running	110	150
55	SPIC II Plant (DCDPS)	SO ₃		ND	ND.	Not Running	24.1	4.6	3.8
56	SPIC I Plant	NH ₃	175 mg/Nm3	Not Running	Not Running	Not Running	146	124	136
57	SPIC IV Plant	NHa	175 mg/NM ³	75	Not Running	Not Running	59	66	12.9
		SO		ND	ND	ND	ND	14.4	17.3

Sr. No.	Stock Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtoined Value	Obtained Value	Obtained Value	Obtained Value
East site			202000		1.1.1.1		200		11-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
1	FBC boiler El	PM	100 mg/Nm3	Not Running	Not Running	61.4	56.4	48.6	Not Running
241.2		SO2	600 mg/Nm3			156	184	288	
1		NOx	600 mg/Nm3		2144	124	165	302	
2	FBC boiler E2	PM	100 mg/Nm3	71.4	Not Running	56.1	66.3	66.3	48.4
		SO2	600 mg/Nm3	172		165	154	229	178
		NOx	600 mg/Nm3	146		134	161	279	192
3	FBC boiler E3	PM	100 mg/Nm3	59.1	71.4	Not Running	Not Running	64.9	56.1
		SO2	600 mg/Nm3	158	190	-		330	230
1		NOx	600 mg/Nm3	559	181	Tratter .		376	252
4	Hot Oil Unit	PM	150.0 mg/Nm3	18.4	12.2	44.6	11.6	29.6	18.6
1	(Resorcinol Plant)	SO ₂	100 ppm	6.2	4	23.4	14.2	6.2	6.2
1.000		NOx	50 ppm	23.6	19.1	11.2	5.2	15.4	30.5
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	51.7	50.3	36.4	59.4	39.6	30.4
		SO ₂	100 ppm	9.1	9.2	5.6	68.2	9.6	6.3
		NOx	50 ppm	34.6	30.8	23.7	20.1	21.6	26.7
West Site				1000	2.	1.194.19	1	1000	
6	FBC boiler W1	PM	100 mg/Nm3	89.6	72	68.4	56.8	48.6	60.4
1.1	a provide broading	SO ₂	600 mg/Nm3	172	184	160	198	218	180
		NOx	600 mg/Nm3	144	158	172	164	196	230
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
		SO ₂	100 ppm	ND	ND	ND	ND	ND	ND
12.0		NOx	50 ppm	20.5	14.8	16.9	21.8	15.2	18.8
8	Oil burner Shed B	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Range	(Stand By)	SO2	100 ppm	1	Numing	Running			
		NOx	50 ppm						C. Part
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	31.6	46	40.2	35.4	48.7	42.7
1		SO2	600 mg/Nm3	164	160	148	174	156	182
1.1.1.2		NOx	300 mg/Nm3	148	168	152	142	172	196
1.2.2		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND
10	DG set 1500 KVA (Stand By)	PM	150.0 mg/Nm3	44.8	60.6	51.7	44.3	54.7	52.6
		SO2	100 ppm	10.8	11.4	7.4	10.4	11.8	8.4
1982		NOx	50 ppm	41.5	44.6	34.8	25.8	30.2	31.2
North Site									a
11	Thermic fluid heater of DCO/DAP Plant	PM	150.0 mg/Nm3	29.6	40.2	31.7	49.3	29.6	34.4
-	- OLOTOAP FION	502	100 ppm	10.2	7.9	5.2	8.1	7.1	7.5
-		NOx	50 ppm	17.1	23.8	31.7	23.3	25.7	20.1

Table 3: Ambient Air Monitoring details

Station	Parameter	Limit micro gm/NM ³	October 20	Novembe r20	Decembe r 20	January 21	February 21	March 21
	PM 2.5	60	30.8	31.7	31.7	32.6	36.2	38.3
	PM10	100	55.4	54.4	55.1	54.3	50.1	52.8
	SO2	80	15.2	14.1	13.2	12.3	13.2	20.5
66 KV	NO ₂	80	14.4	13.5	14.6	12.8	18.2	12.8
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31.6	32.7	37.2	32.7
Opposite	PM10	100	52.6	53.7	52.1	50.1	51.1	50.1
	SO2	80	13.7	14.8	13.7	11.1	14.8	18.5
	NO ₂	80	14.8	15.7	14.6	16.2	12.5	10.1
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	26	24	22	24
	PM10	100	44	46	48	46	44	46
	SO2	80	8.4	7.9	8.7	9.6	10.5	12.1
West site ETP	NO ₂	80	8.1	9.3	8.1	9.2	8.3	9.2
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	28	30	29	27	25	23
	PM10	100	43	45	47	45	43	45
	SO2	80	7.6	6.7	7.6	8.4	7.5	8.4
North FTP	NO ₂	80	6.7	7.6	6.7		8.4	9.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND		ND	ND	ND	ND
	PM 2.5	60	26	28	27	25	23	21
	PM10	100	47	49	51	49	47	49
	SO2	80	6.2	7.3			9.5	10.3
TSDF	NO ₂	80	7.3	6.5	7.3	8.5	9.4	10.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	23	25	27	25	23	25
	PM10	100	52	54	56	54	52	54
Main Guest		80	8.9	8.1	9.2	10.3	11.2	10.3
	NO ₂	80	8.6	6.8	8.6	9.5	10.4	11.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	28	30	29	27	29
	PM10	100	50	51	53	51	49	51
	SO2	80	6.6		8.4	9.5	10.4	11.5
,	NO2	80	7.3	8.3	7.4	8.5	9.4	10.3
•	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND		ND	ND
	PM 2.5	60	27	29	31	28	26	28

	PM10	100	51	53	55	53	51	53
Gram	SO2	80	7.5	8.4	9.3	10.6	11.5	12.3
panchayat	NO ₂	80	7.7	8.8	7.7	8.7	9.6	10.4
hall	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	25	27	30	29	27	25
	PM10	100	45	47	49	47	45	47
Main office,	,SO2	80	8.6	7.4	8.3	9.2	10.3	11.3
North site	NO ₂	80	7.8	8.7	7.8	8.7	7.8	8.7
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31	32	31	35
	PM10	100	57.7	56.5	55.6	52.6	56.2	52.6
Haria water	SO2	80	16.7	17.6	16.7	15.8	18.4	14.8
tank	NO ₂	80	16.2	15.3	14.2	12.3	13.2	12.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

Table 4: Fugitive Emission Monitoring details

Plant	Area		Prescribe d Limit	Results of VOCs in Milligram per NM ³							
				Octobe	Novembe	Decembe	January	February	March		
				20	r 20	r 20	21	21	21		
2,4 D	Reactor	Phenol	19	14.2	10.6	7.5	11.2	9.3	8.3		
	Buffer tank	Chlorine	3.0	1.6	0.15	0.58	0.44	0.81	0.62		
Resorcinol	Benzene storage tank	Benzene	15	7.8	6.5	1.2	1.72	2.56	1.8		
	area near vent										
	Near	Butyl	-	580	350	410	460	425	380		
	Extraction/scrubber unit	acetate									
Pharma	At second floor work	Ammonia	18	ND	ND	ND	ND	3.8	4.5		
	area										
	Ammonia recovery area	Ammonia	18	ND	ND	ND	ND	5.1	6.3		
Ероху -	I At vacuum pump 2nd	ECH	10	3.8	4.8	5.6	3.9	3.1	4.4		
	floor										
	At vessel POS 1208 G.F	ECH	10	2.4	1.6	1.9	1.3	2.5	2.1		
Shed H	At second floor work	Nitrobenzene	5	2.6	3.5	2.4	1.8	2.1	3.1		
	area										
Shed J	Buffer Tank	Chlorine	3	ND	ND	ND	ND	ND	ND		

Table 5: Noise level monitoring data (Day Time)

Sr	Location			Noise Level,	dBA			Permissible	
No.		October	October November December January February March						
		20	20	20	21	21	21		

1	Near Main guest house	64.7	65.8	64.7	63.5	65.3	52.4	75
2	Near TSDF	66.6	65.6	64.8	63.7	67.3	57.6	75
3	At Wyeth Colony	57.8	58.7	59.8	58.9	59.8	56.2	75
4	Gram Panchayat Hall	67.6	68.5	67.4	66.5	65.6	55.6	75
5	Near Main Office North	65.8	66.7	67.6	66.7	67.6	53.6	75
	site							
6	ETP North site	70.7	71.2	70.3	69.2	65.1	55.2	75
7	Opposite shed D	72.4	70.3	71.2	70.3	71.2	57.1	75
8	ETP West site	67.9	68.7	67.8	66.7	67.5	52.4	75
9	Water tank Haria road	65.4	66.5	65.6	64.5	65.5	55.6	75
10	Near 66KVA substation	67.0	68.0	67.0	66.0	67.0	53.5	75

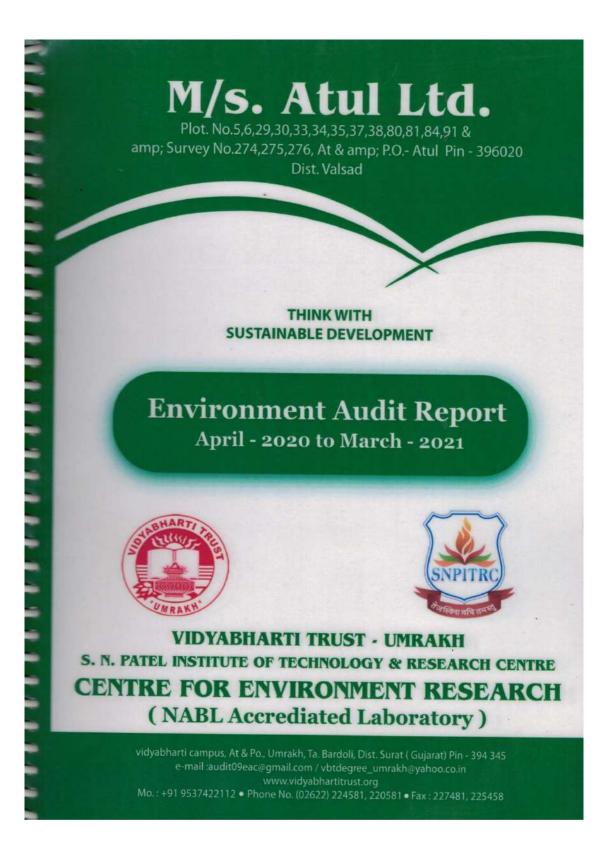
Table 6 : Noise level monitoring data (Night Time)

Sr	Location			Noise Lev	el, dBA			Permissible
No.		Octobe	November	December	January	February	March	Limits, dBA
		r 20	20	20	21	21	21	Elfillits, GDA
1	Near Main guest house	55.3	56.4	55.3	54.2	64.2	54.2	70
2	Near TSDF	57.4	58.5	57.6	56.7	66.3	56.7	70
3	At Wyeth Colony	53.7	54.6	53.7	52.6	58.9	52.6	70
4	Gram Panchayat Hall	57.6	58.5	57.4	56.5	66.5	56.5	70
5	Near Main Office North site	59.4	58.3	57.2	56.3	64.2	56.3	70
6	ETP North site	56.5	55.6	54.6	53.5	63.2	52.5	70
7	Opposite shed D	59.8	58.9	57.8	56.7	72.1	51.7	70
8	ETP West site	57.1	56.2	55.3	54.2	65.7	54.2	70
9	Water tank Haria road	55.7	54.6	53.5	52.4	63.4	56.5	70
10	Near 66KVA substation	58.2	57.3	56.2	55.3	66	55.3	70

Table 7: CSR Activities

CSR activity report 2020-21

No.	Program	Project Activity	Location	Outlay for the year		Implementing	
			District (State)	Budget	Spent	agency	
	(A)	(B)	(C)	(D)	(E)	(G)	
1	Education	Enhancement of education practices in Kalyani Shala	Valsad (Gujarat)	24.00	24.00	Atul Foundation	
2		Support to tribal children in Atul Vidyamandir	Valsad (Gujarat)	3.75	3.75	Atul Foundation	
3		Improvement of teaching methodology for primary school children - <i>Adhyapika</i> project	Valsad (Gujarat)	57.50	57.50	Atul Foundation	
4		Support to develop a school in a tribal area	Navasari (Gujarat)	5.00	5.00	Atul Foundation	
5		Enhancement of rural education	Valsad (Gujarat)	6.25	6.25	Atul Foundation	
6		Conservation of manuscripts	Ahmedabad (Gujarat)	10.00	10.00	Atul Foundation	
7	Empowerment	Empowerment of women through various vocational training courses	Valsad (Gujarat)	5.00	5.00	Atul Foundation	
8		Skills training to youth as apprentices	Valsad (Gujarat)	110.17	110.17	Atul Ltd.	
9	1	Capacity building of tribal farmers in beekeeping	Valsad (Gujarat)	3.00	3.00	Atul Foundation	
10	Health	Nutrition Garden Project	Valsad (Gujarat)	12.00	12.00	Atul Foundation	
11		Enhancement of rural health through health camps	Valsad (Gujarat)	6.50	6.50	Atul Foundation	
12	Relief	Support to disaster relief for COVID-19 pandemic	Valsad (Gujarat)	20.00	20.00	Atul Foundation	
13		Contribution to PM Cares Fund	Valsad (Gujarat)	300.00	300.00	Atul Ltd.	
14		Provision of fertilisers to farmers	Valsad (Gujarat)	2.50	2.50	Atul Foundation	
15	Infrastructure	Infrastructure development activities in villages	Valsad (Gujarat)	44.59	44.59	Atul Foundation	
16		Construction of white topping road	Valsad (Gujarat)	554.28	554.28	Atul Ltd.	
17	Conservation	Establishment of solid waste management system in Atul village	Valsad (Gujarat)	10.00	10.00	Atul Foundation	
18		Implementation of afforestation initiatives	Valsad (Gujarat)	4.31	4.31	Atul Ltd.	
19		Conservation of water in villages	Valsad (Gujarat)	2.91	2.91	Atul Foundation	
Total direct expenditure				1181.76	1181.76		
Administrative overheads (OH)				59.59	59.59		
Total (direct expenditure + OH)				1241.35	1241.35		



OBSERVATION

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Company has done outstanding work to control COVID 19 infection by devising operational and systematic controls. Compliance more than the government COVID 19 guidelines was observed during all the three visits. Company has prepared and implemented its own stringent guidelines to control COVID 19 and to keep their employees and family safe in this difficult time.

It has been observed that company is having policy to donate and provide all the possible help to their neighbouring community and nation at large during all such natural calamities.

Company has donated total Rs. 5 Cr in PM & CM relief fund in addition to the distribution of kits worth 50 lacs to the needy people in the neighbouring villages as well as migrant labours.

Company has applied for EC for expansion project and 50 MW CPP project. Public Hearing for both the projects have been completed successfully complying with COVID 19 guidelines.

Company has received registration certificate as brand owner by CPCB under plastic waste Management rules, 2016 and started collecting and disposing plastic as per the plan.

Company has installed South ETP which is under commissioning stage.

Company has undertaken ZLD project for North ETP.

Company has received CTE (EC to CTE) for its expansion and 50 MW CPP projects.

- 5 S drive is going on in later and spirit and hence overall housekeeping was found satisfactory.
- Company is submitting quarterly reports on CPCB portal for its captive TSDF. Company is also submitting quarterly calibration reports of OCEMS to CPCB.
- Company has submitted annual returns like Form IV, Form V, Form 3 for E-waste, Form 4 for BMW and Form VIII for Batteries within the stipulated time frame.
- Company is regularly submitting EC compliance report and also uploading the same on its website.



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RECOMMENDATIONS

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- Company shall prepare an action plan for the points emerged during the public hearing.
- Company shall obtain fire NOC renewal as per the amended regulations
- Company shall upgrade its coal | fly ash handling system for betterment.
- Company shall install new Ambient Air Monitoring system |station
- Company shall install digital display board at the gate as per the NGT order.
- Company shall have membership of common facilities | pre | co processors for disposal of Hazardous wastes.
- Company shall plan for above ground effluent network at other sites also in phased manner.



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EAR: April 2020 - March 2021

M/s Atul Ltd., Valsad

ANNEXURE-32 COMPLIENCE REPORT

Sr. No.	NOC/Consent	Has Valid Consent/ Authorization	Complying With Standards And Other Conditions
(A)	Compliance Report of water as per Water Act, 1974: If NO, comment:	Cheva R. Rhanston S. Cheva S. Shansa (1997) Chantan (1997) S. Sana	Complied
(B)	Compliance Report for Air as per Air Act, 1981:If NO, comment:	Yes, Consent No. AWH-105110 is valid upto 30/09/2025	Complied
(C)	Compliance Report for the storage and handling of hazardous waste/chemicals under The Hazardous Waste (Management and Handling) Rule,1989 & EPA-86 If NO, comment:		Complied

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Tal. Bardol



Project: Setting up of an additional captive power plant of 22 MW within the existing chemical manufacturing complex at post Atul, Dist. Valsad.

EC Compliance Report for EC No. SEIAA | GUJ | EC | 1(d) | 340 | 2016

Report period: October 2020 – March 2021

Sr No.	Condition	Compliance Status					
A. Co	onditions :						
A.1 S	Specific Condition:						
1.	Unit shall comply the emission standards mentioned in the	Complied.					
	Notification by MoEF & CC vide S.O. 3305(E) dated 07/12/2015.	We ensure that at no time the emission level will go beyond the stipulated standards prescribed limits. In such cases occurrences we will intimate to the board & authority time to time. In event of failure of APCM, the unit shall not restart until the control measures are rectified to achieve efficiency. We have installed Online Continuous Emission Monitoring System (OCEMS) in all the Boiler stacks as per CPCB guideline and the same is connected with CPCB and GPCB server. Apart from continuous online monitoring, flue gas stack analysis is also monitored offline at regular interval (Monthly) for ensuring the compliance. The testing Lab appointed for flue gas analysis is GPCB approved (schedule - II) M/s. Pollucon Laboratories Pvt. Ltd, Surat which also has NABL approval. (TC - 5945, issue date - May 28, 2019 and validity till May 27, 2021, valid for the report period).					
		The maximum value (SPM, SO ₂ & NO _x) during the report per confirms that at no time the emission level went beyond stipulated standards. Parameter wise summary is given below:					eyond the
		Parameter Values as Unit October 20					
			per CCA		Min.	Max.	0
		PM	100	mg/Nm ³	48.4	89.6	62.34
		PM(New Boiler)	50	mg/Nm ³	35.4	46	40.53
		SO ₂	600	mg/Nm ³	148	330	190
		NOx	600	mg/Nm ³	124	559	218.6

NOx (New Boile	er) 300	mg/Nr	n ³ 142	196	166
Flue gas stack	results for the	report peri	od is attac	ched as	Annexure
D.G.SET STAC (D.G.SET) The Ambient A ensuring the c Environment Approved TC - 31, 2021, valid	Air Quality is b compliance. The Auditing & C - 5948, issue d for the report pe	e testing lo Consultancy late - June eriod.	ib appoin y Service 01, 2019	ted is N e, Rajko and vali	1/s. Royal ot NABL d till May
The maximum during the con level went be summary is giv Ambient air m	npliance period eyond the sti ven below:	l confirms t pulated st	hat at no	time the	e emission
Ctation	Deverseter	1 :	Marking	- f + h	
Station	Parameter	Limit micro -		er 20 –	e period March
		gm/NM	Octob	2021	March
		3	Min.	Max.	Avg.
66 KV	PM2.5	60	30.8	38.3	33.55
	PM10	100	50.1	55.4	53.68
	SO ₂	80	12.3	20.5	14.75
	NO2	80	12.8	18.2	14.38
	Ammonia	400	ND	ND	ND
	HCI	200	ND	ND	ND
Opposite	PM2.5	60	31.6	37.2	33.45
Shed D	PM10	100	50.1	53.7	51.61
	SO ₂	80	11.1	18.5	14.43
 					2 of 12

		NO2	80	10.1	16.2	13.98
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Near West	PM2.5	60	22	26	23.66
	Site ETP	PM10	100	44	48	45.66
		SO ₂	80	7.9	40	9.533
		NO2	80	8.1	9.3	8.7
		Ammonia	400	ND	ND	ND
	Nie zw. Nie wtie	HCI	200	ND	ND	ND
	Near North	PM2.5	60	23	30	27
	ETP	PM10	100	43	47	44.66
		SO ₂	80	6.7	8.4	7.7
		NO2	80	6.7	9.3	7.71
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	TSDF	PM2.5	60	21	28	25
		PM10	100	47	51	48.66
		SO ₂	80	6.2	10.3	8.23
		NO2	80	6.5	10.5	8.25
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Main Guest	PM2.5	60	23	27	24.67
	House	PM10	100	52	56	53.67
		SO ₂	80	8.1	11.2	9.67
		NO2	80	6.8	11.5	9.23
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Wyeth	PM2.5	60	26	30	28.17
	Colony	PM10	100	49	53	50.83
		SO ₂	80	6.6	11.5	8.98
		NO2	80	7.3	10.3	8.53
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Gram	PM2.5	60	26	31	28.17
	Panchayat	PM10	100	51	55	52.67
	Hall	SO ₂	80	7.5	12.3	9.93
		NO2	80	7.7	10.4	8.82
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Main Office	PM2.5	60	25	30	27.17
	North Site	PM10	100	45	49	46.67
		SO ₂	80	7.4	11.3	9.18
		NO2	80	7.8	8.7	8.25
		Ammonia	400	ND	ND	ND
		HCI	200	ND	ND	ND
	Haria	PM2.5	60	31	35	32.58
	Water	PM10	100	52.6	57.7	55.20

		Tank	SO ₂	80	14.8	18.4	16.67
		ТОПК					
			NO2	80	12.3	16.2	13.92
			Ammonia	400	ND	ND	ND
			HCI	200	ND	ND	ND
2.	All measures shall be taken to prevent soil and ground water contamination	the Notifi 07, 2015 Complied Kindly no water. W the plant that solid storage c	ts are below permis cation by MOEF&C during the report p during th	extracting ontrol mec water com in identif covered s	O. 3305(E tached as ground w asured for taminatior fied solid hed, impe) dated I Annexur ater as a any leak n. We are hazardo rvious flo	Source of ages from e ensuring us waste
3.	The project propopont shall	reputed access th shows th	egularly monitoring Institute (M/s. Poll ne impacts on soil at there is no soil a	ucon Lab and grou	oratories Ind water	Pvt. Ltd, quality.	Surat) to The study
3.	The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any due to application of waste water generation from the CPP and shall adopt the additional mitigation measures as may be suggested through such studies.	Ground water and soil quality is being checked regularly for in and around the unit by reputed and NABL approved agency M/s. Pollucon Laboratories Pvt. Ltd, Surat. Soil and Groundwater analysis report for year 2020 has been already submitted to your good office vide our letter Atul Assurance EC Compliance 22 MW 19 - 20 Dated December 19, 2020.					
A.2: '	WATER:						
4.	The fresh water requirement for the proposed expansion shall not exceed 2095 KL/Day and it shall be met through the existing water supply system from River par.	The average water consumption for the report period is 934 KL/Day					
		Sr No.	Month		antity Aonth)	Aver Quai	-

		r			1
					(KL/Day)
		1	October - 20	15227	491
		2	November - 20	29580	986
		3	December - 20	31637	1021
		4	January - 21	32448	1047
		5	February - 21	30994	1107
		6	March - 21	29487	951
		time the Fresh wo	imum value during t water consumption ater requirement is m rom river Par.	n went beyond the	e stipulated value.
5.	Metering of water shall be done and its records shall be maintained. No ground water shall be tapped in any case for meeting the project requirements.	reuse lin maintain	d: c water flow meter i e (outlet) at RO peri ed. W e are not using the project requireme	meate line. Its reco ground water tapp	ords are regularly bed in any case for
		Wate	er meter @inlet line	Water	meter @reuse line

6.	The industrial effluent generation from the proposed expansion shall not exceed 270 KL/Day and entire quantity of effluent shall be utilized for ash quenching, dust suppression, fire hydrant make up, gardening plants, floor cleaning.	Complied. Waste water generation in not exceeding prescribed limit of 270 KL/Day during report period. The average wastewater generation for the report period is 131 KL/Day only which is well within the prescribed limit of 270 KL/Day and entire waste water quantity is utilized / reused after giving neutralization & RO treatment. Entire quantity of waste water is being utilized in ash quenching, coal storage yard to attend coal smoldering, dust suppression, fire hydrant make up, gardening plants floor cleaning and no waste water discharged to ETP. Detail break up is given in below table.			
		Sr No.	Month	Waste Water Generation (KL/Month)	Average Waste Water Generation Reused Quantity (KL/Day)
		1	October - 20	3678	119
		2	November - 20	4544	151
		3	December - 20	4791	155
		4	January - 21	3755	121
		5	February - 21	3782	135
		6	March - 21	3248	105
7.	There shall be no discharge of industrial effluent from the proposed project in any case.	of 270 in serv RO sys ash qu dust su cleanin Please Hence	ial Waste water ge KL/Day during repo ice for waste water stem. RO permeater enching and coal s uppression, fire hyd g. refer table of waste	ort period. Neutro r generated from is recycled back storage yard to drant make up, e water generation chieved ZLD. No	Acceeding prescribed limit dization pit has been put in D.M. Plant followed by a and reject is utilized in attend coal smoldering, Gardening plants, floor on (KLD) in point no.6.

8.	Domestic waste water generation shall not exceed 1	Con	nplied.			
	KL/Day Which shall be disposed of into soak system.		nestic wate during repo	0	exceeding the prescribed limit	of
			during repo	rt period.		
			-	-	on for the report period is	
			•	only which is well I through soak pit / :	within the limit. Domestic wo	iste
		wat	er disposee	i through source pit /		
			Sr No.	Month	Domestic Waste Water Generation (KL/Day)	
			1	October - 20	0.44	
			2	November - 20	0.40	
			3	December - 20	0.61	
			4	January - 21	0.51	
			5	February - 21 March - 21	0.67 0.76	
9.	The unit shall provide metering	Car	nplied.	March - 21	0.76	
	facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.	Mag and mai	gnetic Flow reuse sy ntained.	•	at the inlet of the collection tar vater and records are beir wn below:	
						The second se
			Water	meter @Inlet line	Water meter @Reuse	line
		yara up, (d to attend Gardening p waste wate	coal smoldering, du plants & floor cleani	ter in ash quenching, coal stor ist suppression, fire hydrant m ng. Hence, we are achieving Z ? from our 22 MW Captive po r	ake LD.

10.	Proper logbooks of waste water reuse system showing quantity	Complie	ed.				
	and quality of effluent reused shall be maintained and furnished the GPCB from time to time.	water generation & reuse data showing quantity and quality of					
11.	Rain water harvesting of rooftop rain water shall be undertaken as proposed in the EIA report of the project and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water through percolation wells. Before recharging the rain water, pre - treatment must be done to remove suspended matter.	Rooftop rain water from Coal sheds and New TG building is collected in well - constructed pond and used as make up water for cooling tower. We have already three numbers of check dams in natural storm water drains to collect and harvest rain water in monsoon season after giving necessary pre - treatment to remove suspended matter as we have pumped these rain water to clarifloculator units to					
A.3 A	Nir:						
12.	Existing two coal fired steam boilers shall be replaced with two AFBC Boilers having capacity 50 TPH each.	The old	coal fired	d steam boilers are r h adequate APC facil	eplaced with higher ei lity (4 field ESP).	fficiency	
13.	Fuel (Indian coal/and or Imported coal and or Lignite) to the tune of 16725 MT/M shall be used for proposed boilers.						
			Sr No.	Month	Fuel consumption MT		

r		1				
			1	October - 20	9673	
			2	November - 20	15727	
			3	December - 20	14789	
			4	January - 21	15313	
			5	February - 21	16299	
			6	March - 21	13448	
			e 1	bliance period confirm th eyond the stipulated va		
14.	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	proposi the prox content Jignite. Ash Co	e using Ir tion as pe kimate & , GCV, S ntent: 30	er availability. We are ultimate analysis of co ulphur content and - 35 % (Indian Coal),	d coal and lignite in di regularly monitor and c oal Lignite which show heavy metal present 10 - 12% (Imported co , <0.2% (Imported coal)	analyze %Ash in coal al)

15	A Long term study of radio activity and heavy metal	Complied	d.			
	contents in coal/ lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and	carried a	activity and heavy metal out and report submitte nce/03 dated June 30, 201	ed vide ou		
	reported along with monitoring reports. Thereafter mechanism for an in - built continuous monitoring for radio activity and	n please be noted that we are in discussion with recommended institute for carrying out above analysis and report will be submitted.				
	heavy metals in coal/lignite and Fly ash (Including bottom ash) shall be put in place.	ash) We have not found the inbuilt continuous monitorin activity and heavy metal in coal lignite anywhere in Inc abroad. Even though we have still continued our search supplying such online system and we will install the so as we get the same.				
16.	Height of flue gas stacks attached to boilers shall be minimum 74.58 meters.	Complied.				
		Stack No.	Stack attached to	Stack Height In meter	APCM	
		1	Boiler (50 TPH x 2Nos.)	106	ESP with 4 field	
		Height o norms.	rs: Stack Height H=14(Q) ⁽ f the stack is 106 meter		actually higher than	
17.	A flue gas stack of 74.58m height shall be provided with	Complied	d.			
	online monitoring system to proposed steam boiler.	Nos.). We	f the stack is 106 meters e have installed online mo NOx and the same is coni	onitoring sys	stem to boiler for SPM,	
	Mercury gas emission from	Complied	d.			
	stacks shall also be monitored on periodic basis.	Mercury approvec	emission is also monito dagency.	red on mo	nthly basis by NABL	
			ury stack emission data pl ury is detected in Flue ga			
•		1				

High efficiency Electro static precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers.	Complied. We have installed high efficiency Electro Static Precipitator (ESP) (4 field) with 99.9% efficiency to control of flue gas emission within the permissible limit. The monitoring reports shows that average SPM emission is identify 40.53 mg/Nm ³ which is below permissible limit of 50mg/Nm ³ . Photograph of ESP is shown below:
The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms.	Complied. GPCB Permissible limit for PM is 50 mg/NM ³ . Particulate matter emission did not exceed the GPCB norms during report period Which shows that ESP is working efficiently (99.9%). For PM stack emission data please refer specific condition No.1
The control system shall be designed and integrated in plant DCS in such a way that amended from ESP exceeds the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time, utilization of boiler capacity shall so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.	Complied. We have designed and integrated in Plant DCS in such a way that in event of ESP in working not efficiently or something found fault or operation issue due to which flue gas emission go beyond the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time than in such cases / occurrence we will intimate to board & authority to stop the operation plant or decrease the load of power plant. We will not restart or increase the load until the control measures are rectified to achieve the 100 percent efficiency. Flue gas emission from the stack meets with the specified standards prescribed in the Environment (protection) Rules1986 as amended from time to time for the report period. For stack emission data please refer specific condition No.1
	precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that amended from ESP exceeds the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time, utilization of boiler capacity shall so that flue gas emission from the stack meets with the specified standards or

19.	Third party monitoring of the functioning of ESP along with	Comp	lied.				
	efficiency shall be carried out once in a year through a reputed institute / organization.	We are regularly monitoring the functioning of ESP along with efficiency once in a year through NABL accredited and MoEF approved agency.					
		The monitoring has been carried out by GPCB approved (schedule - II) M/s. Pollucon Laboratories Pvt.Ltd, Surat NABL approved TC - 5945, issue date May 28, 2019 and validity till May 27, 2021 and ESP efficacy found satisfactory (i.e. 99.9% efficiency).					
20.	Lime stone injection technology	Complied.					
	shall be adopted to control SO ₂						
	and it shall be ensured that SO ₂ levels in the ambient air do not		-	•	ystem to control SO ₂ emission.		
	exceed the prescribed standards.	Ambient Air quality analysis report shows that SO ₂ levels is below the prescribed standards during the report period.					
		For An	nbient Ai	r aualitv data pleas	e refer specific condition No.1		
21.	The company shall prepare	Comp			I		
	schedule and carry out regular						
	preventive maintenance of	our company is is of i too i company and regular preventive					
	mechanical and electrical parts of ESPS and assign	maintenance of an the entited equipment is a part of our system. We					
	responsibility of preventive			•	tenance schedule activities		
	maintenance to the senior officer				echanical and electrical parts or orded the percentage completion		
	of the company.				ed work as per schedule. These		
		•		5	reviewed approved by senior		
		officer	of the co	mpany.			
22.	Diesel to the tune of 300 Lit/Hr	Comp	lied.				
	shall be used as a fuel in stand –						
	by D. G. Set (1500 KVA)	Diesel	consump	tion during report p	eriod is given in below table:		
			Cable	Maria th	Diesel Consumption		
			Sr No.	Month	(KL/Month)		
			1	October - 20	3.2		
			2	November - 20	5.5		
			3	December - 20	1.6		
			4	January - 21	11.0		
		5 February - 21 1.5 6 March - 21 7.0					
23.	The flue gas emission from DG	Come	-		1.0		
20.	set shall be dispersed through	Compl	ileu.				
	adequate stack height as per	Adequ	ate stack	height of 11mt of	DG set (1500 KVA) and 10mt of		
	CPCB standards. At no time the	-		(VA) as per CPCB s			
	emissions levels shall go beyond			·			
1	the stipulated standards.	1					

Acoustic enclosure be provided to DG set to mitigate the noise	Complied.
pollution.	W e have provided Acoustic enclosure to both DG sets to mitigate the noise pollution in day time and night time

	be installed to monitor the SOx, NOx and SPM in the flue gas stack.	Online mon							
			Online monitoring system for SPM, SO ₂ and NOx is already been						
						J_2 and r	NOX IS dire	day been	
		made and connected to CPCB server.							
		EnviroConnect Environmental Manitaring		Los	30	2	FORBES		
					Forbes Marsh	all			
				A	TUL LTD-VALSA	D			
			ATU	LLTD, POST-ATUL		D GULARAT - 19	8020		
							0020		
				Statio	Station Rep n: Stack 1_50 TF				
		From : 01-01-2021 1 Interval : Daily		To: 31-03-2021 Function: Avera					
			, es e con so e con	·· · · · · · · · · · · · · · · · · · ·	·				
		81					Į		
		40							
			1.			******			
				********			*		
		- 3.d ¹⁴	2012.1		leat.		Plan		
		Elag legends: B - B Ana:	verage with less data, C lac data, H - High permis- yzer drift	Calibration mode, M sible (m)t crossed, 1 - 1	Maintenance mode, S ow permissible (mit cro	Data under scrutiny ased, P - Processed Da	ite, V - Corrected Date, D - P	Delayed Data, R-	
		Calencier	50x Avg	NOx Avg	Dust Avg		1		
		Unts	1215	26			-		
		P. (2010-00)	նունցու	mg/Km3	mgikmû				
		Range	C 280	0 - 100	e 50				
		01-01-2021 13:31:00	1 41 5	18.24 5	0.37				
		02-01-2021 13.31 00	0.24 5	18.25 • B	0.95				
		03-01-2021 13:31:00	3.31 B	(U.17 ≤ H	8.26				
		04-01-2021 10:01:00	9.33	19.27	41,86				
		05-01-2021 13:30:00	R 33	18.26	41.86				
		Report Summary		100					
		Average	15.62	27.75	33.77				
		Maximum	26.05	58 52	45.30				
		Minimum	0.24	13.63	0.35				
		Std. Deviation	7.44	19.17	11.49				
		Geom Mean	13.10	22.73	28.74				
		Median	15.75	18.24	39.14 41. 5 3				
		Total Active Duration		8.032-0					
		Longer	10	Į.				<u>,</u>	

25. Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No pond shall be constructed. Complied. We have not constructed ash pond for the CPP unit. We have closed three silo of 200 MT and Two silo of 300 MT capacity of each, total 1200 MT capacity, which is well enough for our average generation of report period 173 TPD. We dispatch the fly ash daily from these silos so we have not prepare ash pond. Fly ash / bottom ash generation and disposal data for report period is shown in below table: Fly ash / bottom ash generation and disposal data for report period is shown in below table: Physical data for report period MT 4011 5016 3190 1704 2777 3517 Disposal MT 4011 5016 3190 1704 2777 3517 Photograph of Closed silos for Fly ash / Bottom ash: Photograph of Closed silos for Fly ash / Bottom ash:		An arrangement shall also be done for reflecting the online monitoring result on the company's server, which can be assessable by the constructed.		arrang	-		g the onlin e accessibl		-	
Fly Ash Unit October 20 December 20 21 21 h 2021 Generation MT 4011 5016 3190 1704 2777 3517 Disposal MT 4011 5016 3190 1704 2777 3517	25.	fly ash in terms of closed silos shall be provided at site. No	We have not constructed ash pond for the CPP unit. We have closed three silo of 200 MT and Two silo of 300 MT capacity of each, total 1200 MT capacity, which is well enough for our average generation of report period 173 TPD. We dispatch the fly ash daily from these silos so we have not prepare ash pond. Fly ash / bottom ash generation and disposal data for report period							
Disposal MT 4011 5016 3190 1704 2777 3517			Fly Ash	Unit						h
			Generation	MT	4011	5016	3190	1704	2777	3517
Photograph of Closed silos for Fly ash / Bottom ash:			Disposal	MT	4011	5016	3190	1704	2777	3517
			Photogra	oh of	Closed s	ilos for Fly	ash / Bott	tom ash	:	

26.	Handling of the fly ash shall be through a closed pneumatic	Complied.
	system.	We are handling of fly ash through a closed pneumatic system which is shown below:
		Dense phase pneumatic ash
27.	Ash shall be handled only in dry	handling system
27.	state.	Complied.
		We are handling ash only in dry state. Sold to cement and brick manufacturer.

28.	The unit shall strictly comply with the fly ash Notification under the EPA and it shall ensure that there is 100% utilization of fly ash to be generated from the unit.	Complied. We are strictly complying fly ash notification under EPA and we are doing 100 % utilization of fly ash to be generated from the unit. For Fly ash / bottom ash generation and disposal data please refer
29.	The fugitive emission in the work zone environment shall be monitored. The emission shall confirm to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health) Following Indicative guidelines shall be also be followed to reduce the fugitive emission.	 condition No. 25. Complied. We are regularly (once in month) monitoring fugitive emission in work zone environment to confirm the standard prescribed by the concerned authorities from time to time. And indicative guidelines are strictly followed to reduce the fugitive emission. Measures adopted to control fugitive emission: All process pumps shall be provided trays to collect probable leakage. More weight age on selection of MoC of piping shall be given to avoid leakage/spillage. Overflow system with return line to day tank/storage tank from batch tank will be provided to prevent hazardous material overflow. De - dusting system is provided at coal storage area, closed silo system is available to collect fly ash. Covered conveyer belt system is available to control dust fugitive emission. Proper system is provided for decontamination and effective cleaning of drums.
		 All transfer points are fully enclosed. All roads are RCC & paved on which movement of raw materials or products are take place. Maintenance of air pollution control equipment are to be done regularly. All the workers are working with proper PPE's. i.e. boiler suit, dust mask, safety goggles, face shield, safety shoes etc. Adequate green belt is developed around the plant to arrest the fugitive emissions.

All handing & transport of coal & Lignite shall be exercised through	Complied.
covered coal conveyors only.	All handing & transport of coal & Lignite is done through covered coal conveyors only.
Enclosure shall be provided at coal / lignite loading and	Noted and Complied.
uploading operations.	Enclosure is provided at coal Lignite loading and uploading operations.
Water shall be sprinkled on coal	Complied.
/ Lignite stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	We are regularly sprinkled water on coal Lignite stock piles to retain some moisture in top layer and also while compacting to reduce the fugitive emission.
	Close Shed for coal storage
All transfer enclosed.	Noted and Complied.
	We have on road coal conveying system through covered coal trucks and in plant coal transferring system through closed conveying system. All transfer points are fully enclosed. Fly ash in terms of closed silos shall be provided at site. Handling of the fly ash shall be through a closed pneumatic system.

extra hous Lign vuln	quate dust suppression / action system at crusher se as well as for the coal/ nite stock yard and other perable areas shall be vided to abate dust nuisance.	Complied . We have provided adequate dust extraction system (Dust collector) at crusher house is provided While dust suppression system (water sprinkler system) the coal/ lignite unloading areas to abate dust nuisance.
on tl be re / sw	umulated coal dust / fly ash he ground and surfaces shall emoved vept regularly and water the a after sweeping.	Complied. We have adopt practice for coal dust fly ash is being cleaned regular basis as per schedule that we have set. We are also ensuring that coal dust and fine particles are being loaded to coal handling plant after spraying water on it.
conc prop emis	rnal roads shall be either creted or asphalted or paved berly to reduce the fugitive ssion during vehicular rement.	Complied. Paver blocks have been provided in the ESP and some internal area of power plant. Concrete Road have been built in the surrounding area of Power Plant to reduce fugitive emissions during vehicle movement.
		Concrete road at Captive Power Plant

	Air borne dust shall be controlled with water sprinkles at suitable locations in the plant. Coal / Lignite shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	Complied. Waste water of neutralization pit is being used for dust suppression in coal plant and fly ash handling units. Covered trucks closed bulkers are being utilized for handling coal and fly ash.
	A green belt shall be developed all around the plant boundary and also the roads to mitigate fugitive & transport dust emission.	Complied. Proper plantation is done all around the plant bounder and also the roads to mitigate fugitive & transport dust emission. Total industrial area: 1126078.27 sq.mt. Green belt area: 409030.00 sq.mt (approx. 36% of total industrial plot area) Layout plan with green belt is as shown below:
30.	Regular Monitoring of ground level concentration of PM2.5, PM10, NO2, SO2 and Hg shall in the impact zone and its records shall be maintained.	Complied. We are regularly monitoring ground level concentration of $PM_{2.5}$, PM_{10} , NO_2 , SO_2 in ambient air of impact zone and its records are maintained as per schedule.

	Ambient air quality levels shall not exceed the standards	Complied.
	stipulated by GPCB.	The location of ambient air quality monitoring stations had been decided in consultation with GPCB so that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentration are anticipated. This also covers the impact, if any, of the project plant. The same had been shown to authority like SPCB, CPCB & MoEF during their visit to our factory.
		The maximum values during the report period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given in condition no.1.
	If at any stage these levels are found to exceed the prescribed	Complied.
	limits necessary additional control measures shall be taken be decided in consultation with the GPCB.	No such case found till date. Still if these type of situation is come than We have designed and integrated in Plant DCS in such a way that in event of ESP in working not efficiently or something found fault or operation issue due to which flue gas emission go beyond the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time than in such cases occurrence we will intimate to board & authority to stop the operation plant or decrease the load of power plant. We will not restart or increase the load until the control measures are rectified to achieve the 100 percent efficiency.
	OLID/ HAZARDOUS WASTE:	
31.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance from time to time.	Complied There is only one Hazardous waste from the project i.e. Used oil. The used oil generation and disposal quantity from the project for the report period is 40 Liter only. The same was given to GPCB authorized vendors only in line with the regulation.
	Authorization from the GPCB shall be obtained for collection /treatment /storage disposal of hazardous waste	Complied. We have CCA Amendment No. AWH – 105110, dated November 16, 2019
32.	Hazardous waste sludge shall be packed stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.	Complied There is only one Hazardous waste from the project i.e. Used oil. It is stored in drum. The used oil generation and disposal quantity from the project for the report period is 40 Liter only. The same was given to GPCB authorized vendors only in line with the regulation.

ld to only cyclers /	Complied.							
	Used oil is being	sold to	GPCB autho	orized vendor.				
ainers / Ill be sold	Complied.							
cycler.	No bags / liners	are beir	ng utilized fo	r Power Plant.				
osed silos shall be	Complied.							
		00 MT c	apacity, whi		of 300 MT capacity gh for our average			
nstrued in	Complied.							
	No ash pond is a	construe	ed in the proj	ect.				
pplied to fly ash		Complied.						
s cement, s, panels,		-			facturers and also			
mply with on under ured that of fly ash e unit.	We are strictly complying fly ash notification under EPA and v							
	Fly ash / bottom below table:	n ash ge	eneration do	ita for report p	period is shown in			
	Fly Ash	Unit	October 20	November 20	December 20			
	Generation	MT	4011	5016	3190			
	Disposal	MT	4011	5016	3190			
	Fly Ash	Unit	January 21	February 21	March 2021			
	Generation	MT	1704	2777	3517			
	Disposal	MT	1704	2777	3517			
		Disposal	Disposal MT We have done agreem	GenerationMT1704DisposalMT1704We have done agreement with Ar	GenerationMT17042777DisposalMT17042777We have done agreement with Ambuja Cement			

37.	All possible efforts shall be made for co - processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied The used oil generation and disposal quantity from the project for the report period is 40 Liter only. The same was given to GPCB authorized vendors only in line with the regulation.
A.5 S	SAFETY:	
38.	The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as manufacturer, storage and Impact of Hazardous chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.	Complied. W e are complying all the provisions of Factories act, all the rules and regulation led by MSIHC, 1989.
39.	Necessary precautions like continuous monitoring of hot spot (ignite lignite) using temperature detection systems water sprinklers, avoiding stacking of lignite near stream pipeline etc. shall be made for storing lignite to prevent fire hazard	Complied. Lignite is usually used on the same day of its receiving at site as far as possible. Lignite is not being stored for not more than 3 - 4 Days. However, water spray and fire hydrant system is available for the fuel storage sheds.
40.	All the risk mitigation measures, general & specific recommendations mentioned in risk Assessments Report shall be implemented.	Complied. All the risk mitigation measures, general & specific recommendations mentioned in risk assessments report are implemented.
41.	A well designed fire hydrants system shall be installed as per the prevailing standards	Complied. A well designed tender hydrant system is adequate and as per standards. Fire hydrant Network details: Single Hydrant point: 192Nos. Double hydrant point: 07 Nos. Fixed monitor: 11Nos. Hose boxes: 30 Nos. Central hose station: 10 Nos. Hose pipe: 15 mts. 250 Nos. Branch pipes (jet type): 50 Nos. Foam making branch pipe: 03 Nos. Foam compound: 200 liter Foam generator with high expansion foam: 2 Nos.

42.	Personal protective Equipment shall be provided to worker and	Complied.				
	its usage shall be ensured and supervised.	proof apron, H safety shoes e	land glove etc. are pr	afety goggles, che es, safety helmet, v rovided to the wor in Power Plant.	velding gog	gles, ear mugs,
43.	First Aid Box and required antidotes for the chemical used in	Complied.				
	the unit shall be readily available in adequate quantity at all the times	First aid box are kept in each plant and at strategic locations whereas antidotes are kept in the medical Centre.				
44.	Occupational health surveillance					
	of the workers shall be done its records shall be maintained. Pre - employment and periodical medical examination for all the worker shall be undertaken as per the Factories Act &rules.	Being done on regular basis as per the Factories Act & rules. Occupational health surveillance of the workers is carried out on a regular basis as per section - 41 C of the Factories Act and rule - 68T of Gujarat Factories Rules and records are maintained. Regular Medical Checkup of all employees are done by in - house doctors in following manner;				
		The following medical checkup has been completed during report period:				
		Medical Check - Up:				
			Г Г			1
			Sr No.	Employee	Number s	
			1	Staff		
			2	Operators Workers	1895	
			2	Workers		
		Various types of tests being performed are as below;				
		A. Pre - employment check - up:				

- 1. Vision
- 2. Colour blindness
- 3. CBC
- 4. Urine
- 5. Height
- 6. Weight
- 7. B/P
- 8. Pulse
- 9. Habit
- 10. Personal History
- 11. Family History
- 12. Identification Mark

B. Annual Checkup:

- 1. Physical checkup
- 2. Vision
- 3. Blood
- 4. Urine
- 5. PFT
- 6. ECG

Our occupational health center & pathology lab is equipped with necessary facilities under supervision of factory medical officer with trained three EHS persons.

Medical Facilities:

- First Aid boxes in all plants.
- Central Ambulance Room in the middle of the factory.
- Two Ambulance Vans. Out of which one is equipped with ICU facilities.
- Medical Center.
- □ Three full time AFIH certified doctors.
- Equipped with 3 Beds.
- Full equipped Pathological lab with advanced diagnostic equipment.
- □ ECG Equipment.
- Cardiac monitor.
- Defibrillator.
- Finger pulse Oxymeter.
- Pulmonary Function Test Apparatus.
- O2Administration.
- **a** Antidotes with routine Important and Vital lifesaving Drugs.
- Tie up with Kasturba Hospital, Valsad, and Pardi Hospital, Pardi, respectively 7 kms and 3 kms away from Atul.

		We also have tie up with external two hospitals (Pardi Hospital and Kasturba Hospital). We have medical checkup schedule once in quarter for Insecticide plant's employees Other necessary items including First - aid medicines, antidotes and equipment as prescribed in the schedule the under Rule - 68 U (b) of the Gujarat
		factories rules are also been provided. Remark: All employs were found medically fit to work, no contiguous diseases were observed.
45.	Flameproof fittings shall be provided at the proposed power	Complied.
	plant.	Flame proof fittings are provided.
46.	Adequate firefighting facilities shall be provided at the proposed power plant	Complied. Firefighting facilities are adequate.
		The risk to people after a fire has started shall largely depends on the adequacy and maintenance of means to escape, the alarm system, training of the workforce in fire routine and evacuation procedures at Atul Ltd management has proposed to employ well - resourced and adequate firefighting network. Details regarding the firefighting capacity of the unit are given below:
		 Four full - fledged fire hydrant system in the company Water Storage Capacity - 50 million Liters Total hydrant post/monitors –780 Total length of hydrant line – 15km Fire Fighting Equipment
		 DCP 1350 CO2 776 Foam 05Trolly Fire Tenders One fire tender having 1800 Lit water capacity Second multipurpose fire tenders having 5000 Lit water & 500 Foam Third Multipurpose tender having facility of DCP - 500

48.	Proper ventilation shall be provide in the work area. All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	 Kg, Foam- 500 lit and Water - 4500Lit. SCBA sets - 35nos. Emergency alarm system - 532 nos. points spread across the company. Fire station manned round the clock with Siren and Annunciation System. Regular Testing on every Monday. Smoke detectors in the office and labs. Auto water deluging system at critical reactors. Auto water sprinkler system at tank farms Onsite mock drill and firefighting Training. Complied. Proper ventilation provided in work area.	
	The project management shall prepare a details Disaster management plan (DMP) for the project as the guidelines from Directors of Industrial safety and Health.	Detailed disaster management plan is already prepare and submitted to your good office vide letter Re	
A.6 N	UIJE.		

50.	To minimize the noise pollution the following noise control measures shall be implemented. Selection of any new plant equipment shall be made with specifications of low levels.	Complied. We are regularly implemented noise control measures to minimize the noise pollution. Complied. All steam vents have attached with silencers. Low noise level is considered as one of the prime specifications while selecting new machines in power plant. For example, replacement of reciprocating type noisy air compressors by low noise emitting screw air compressors.		
	Manufacturer / supplier of major noise generating machines / equipment like air compressor. Feeder pumps, turbine generators, etc. shall be instructed to make required design modifications wherever possible regulatory norms with respect to noise generation for individual units.	We are regularly implemented noise control measures to minimize the noise pollution. Complied. All steam vents have attached with silencers. Low noise level is considered as one of the prime specifications while selecting new machines in power plant. For example, replacement of reciprocating type noisy air compressors by low noise emitting screw air compressors. Complied. We are always acknowledge or take care when purchasing of major noise generating machines / equipment like air compressor, feeder pumps, turbine generators, etc, strictly instructed or emphasized to supplier to give less noise generating equipment's as much as possible to regulatory norms with respect to noise generation for individual units. Complied. We have routine and preventive maintenance schedule of machinery / equipment and vehicles to be undertaken to reduce the noise impact. Complied. Acoustic enclosures are provided on DG sets. Silencers have		
	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	Complied. We have routine and preventive maintenance schedule of machinery / equipment and vehicles to be undertaken to reduce the noise impact.		
	Noise suppression measures such as enclosures, buffers and / or protective measures shall be provided.	Complied. Acoustic enclosures are provided on DG sets. Silencers have been provided on main steam vent valves of Boilers.		

Employees shall be provided with ear protection measures like earplugs or earmuffs.	Complied. W e have provided ear protection measures like earplugs or ear muffs to all employees on regular basis.
Proper oiling lubrication and preventive maintenance shall be carried out of the machinery and equipment to reduce noise generation. Construction equipment generating minimum noise vibration shall be chosen.	Complied. Proper oiling lubrication and preventive maintenance is carried out of the machinery and equipment to reduce noise generation. Noted & Complied. We always use minimum noise vibration generation construction equipment.
Ear plugs and / muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	Complied. Our company has well laid down OHS policy to use Proper PPE's by all employees in plant area. Ear plugs and / muffs are compulsory for the construction workers working near the noise generating activities / machines / equipment.
Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	Noted & Complied. We are permitted those vehicles and construction equipment with internal combustion engines with proper silencer and spark arrestor.
Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	Noted & Complied. We are only using construction equipment meeting the norms specified by EP Act, 1986.
Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	Noted & Complied. We do take care of Noise control equipment and baffling will be employed on generators especially when they are operated near the residential and sensitive areas.

	Noise levels shall be reduced by the use	Not	ed &Complied.					
	of adequate mufflers on all motorized equipment.	We are using mufflers on all motorized equipment to redunion noise levels.			o reduce			
51.	The overall noise level in and around the plant area shall be kept well within the prescribed standard by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration, dampers etc. on all sources of noise generation.	Complied. The overall noise level in and around the plant area to be kept well within the prescribed standard by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration, dampers etc. on all sources of noise generation provided.						
	The ambient noise levels shall confirm to the standards prescribed under the Environment (protection) Act and Rules. Workplace noise levels for workers shall be as per the factories Act and Rules.	Complied. The ambient and workplace noise level confirms to the standard prescribed under EPA. The same is being regularly monitored. The maximum values during the compliance period confirms that at no time the noise emission level went beyond the stipulated standards. Noise monitoring data (October 20 to March 21) is attached as Annexure III. Summary is given below:						
		Sr No.	Location	Permissible Limits, 75dB			the period 0 - March 21	
					Min.	Max.	Avg.	
		1	Near Main guest house	75	52.40	65.80	62.73	
		2	Near TSDF	75	57.60	67.30	64.27	
		3	At Wyeth Colony	75	56.20	59.80	58.53	
		4	Gram Panchayat Hall	75	55.60	68.50	65.20	
		5	Near Main Office North site	75	53.60	67.60	64.67	
		6	ETP North site	75	55.20	71.20	66.95	
		7	Opposite shed D	75	57.10	72.40	68.75	
		8	ETP West site	75	52.40	68.70	65.17	
		9	Haria Water tank	75	55.60	66.50	63.85	
		10	66KVA substation	75	53.50	68.00	64.75	
			Noise level mo Noise level mon	-	-			

		Sr No.	Location	Permissible Limits, 70dB	Values for the period October 20 - March 21		
					Min.	Max.	Avg.
		1Near Main guest house7054.2064.2					56.60
		2	Near TSDF	70	56.70	66.30	58.87
		3	At Wyeth Colony	70	52.60	58.90	54.35
		4	Gram Panchayat Hall	70	56.50	66.50	58.83
		5	Near Main Office North site	70	56.30	64.20	58.62
		6	ETP North site	70	52.50	63.20	55.98
		7	Opposite shed D	70	51.70	72.10	59.50
		8	ETP West site	70	54.20	65.70	57.12
		9	Haria Water tank	70	52.40	63.40	56.02
		10	66KVA substation	70	55.30	66.00	58.05
A.7 C	GREEN BELT AND OTHER PLANTAT						
	belt in at least 68000 sq. area within the premises. Green belt shall comprises of rows of varying height tall native trees with thick foliage in the periphery of the factory premises	 Green belt is developed and we plant more than 50000 plants Green belt is developed and we plant more than 50000 plants every year. Green belt is comprised of at least minimum 3 to 4 raw plantation with minimum height of native trees is 5 to 6 Mtr with thick foliage in the periphery of the factory premises. 				m 3 to 4 s 5 to 6 remises. ary and	

53.	The unit shall also take up adequate plantation at suitable open land on road sides and other open areas in nearby villages or schools in consultation with the Gram panchayat / GPCB and submit an action plan for the same for next three years to the GPCB.	Complied. We plant more than 50000 plants every year on road sides and other open areas in nearby villages or schools in consultation with the Gram panchayat.
B.OT	HER CONDITIONS:	
54.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved	Complied. No such case during the repot period. However, if such case happens we ensure to close down the unit.
55.	All the recommendation, mitigation measures, environments protection measures and safeguard proposed in the EIA report of the project prepared by M/s ; Eco chem Sales &Service, Surat & submitted vide letter no NIL dated 03/11/2015 and commitments made during presentation before SEAC, proposed in the EIA report shall be strictly adhered to in letter and spirit.	All environmental protection measures and safeguards proposed in the project report has been fully complied and report submitted to your good office vide letter Atul/SHE/EC
56.	All the recommendation of CREP guidelines as may be applicable from time to time shall be following vigorously.	Complied. Company is following strictly recommendations mentioned in CREP guidelines and compliance status is given as Annexure IV.

57.	A separate environment management cell with qualified staff shall be set up for implementation of stipulated environmental safeguards	Complied. Implementation of stipulated environmental safeguards were ensured by the Company's SHE department. Organogram of SHE Department Chairman & Vanaging Director President – Utility & Services VP - Corporate SHE VP - Legal Assurance SHE VP - DOH
58.	The project authorities must strictly adhere to stipulations made by the Gujarat Pollution Control Board (GPCB), state government and statutory authority.	Noted & Complied We are strictly adhere to stipulations made by the Gujarat Pollution Control Board (GPCB), state government and statutory authority.
59.	No further expansion or modification in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Complied. No further expansion or modification in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
60.	The above conditions will be enforced, inter - all under the provisions of water (prevention &Control or pollution) Act, 1974, Air (prevention & Control of pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & other wastes (Management and Trans boundary	Noted.

61 62.	The project proponent shall comply all the conditions mentioned in 'The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time in a letter and spirit. The project proponent shall ensure that unit complies	Complied. Details of CSR projects done during report period is given in Annexure - V. Complied.
	with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk .Assessments study report as well as proposed by project proponent.	All the recommendations suggested in the EMP report and Risk assessments study report as well as proposed by us have been implemented.

63.	The project authorities shall earmark adequate funds to implement the conditions	EMP measures for the project are implemented ar investment details submitted vide our letter Atul/SHE/I n Compliance/06 dated December 19, 2019. n. III Further, a separate budget is being allocated every year					
	stipulated by SEIAA as GPCB along with the implementation scheduled for all the conditions stipulated herein.						
	The funds so provided shall not be diverted for any other purpose.						
		Sr No.	Parameter	Recurring Cost (Rs. In lacs) October 20 – March 2021			
		1	Air Pollution Control	2865			
		2	Liquid Pollution Control				
		3	Environmental Monitoring and Management	21			
		4	Solid waste Disposal	346			
		5	Occupational health	20			
		6	Green belt	7			
			Total	3259			
64.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and May also be seen at website of SEIAA / SEAC/GPCB.	Complied. We have informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and also be seen at website of SEIAA/SEAC/GPCB.					
	This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarat.	newspa	ve given advertisement	d in the region, one of which is			
	A copy each of the same shall be forwarded to the concerned Regional office of the Ministry.			o the concerned Regional office nuary 27, 2017.			

65.	The project proponent shall also comply with additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Complied. No additional conditions so far imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
66.	It shall be mandatory for the project management to submit half - yearly compliance report in respect of the stipulated prior environmental clearance terms and condition in hard and soft copies to the regulatory authority concerned on 1st June and 1st December of each calendar year.	Complied. We regularly submit the half - yearly compliance report. The implementation of the project along with environmental actions plans are monitored by the authority time to time. We are regularly submitting half yearly compliance reports to the authority & same is being updated on website.
67.	Concealing factual data or submission of false / fabricated data and failure to comply with any of conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
68.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied.
69.	The SEIAA may revoke or suspend the clearance. If implementation of any of the above conditions is not found satisfactory.	Noted

70.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the stipulate additional conditions, if the same is found Necessary.	Noted.
71.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied. We have communicated with the regional officer of MoEF & CC towards the status of work and financial closure time to time. We have also submitted six monthly EC Compliance report periodically in which said information were updated time to time.
72.	This environmental clearance is valid for seven years from the date of issue.	Noted.
73.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 day as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.

Annexure I: Flue Gas Stack Results

Sr. No.	Stock Details	Paramenter	Permissible	Obtained Value	ue Obtained	Obtained	Obtained	Obtained Value	Obtained Value
			Limits	and an incorrection	Value	Value	Value	Construct Funce	Condition Funde
East site			12120			10000			
1	FBC boiler El	PM	100 mg/Nm3	Not Running	Not Running	61.4	56.4	48.6	Not Running
		SO2	600 mg/Nm3			156	184	288	
		NOx	600 mg/Nm3		L. 49	124	165	302	
2	FBC boiler E2	PM	100 mg/Nm3	71.4	Not Running	56.1	66.3	66.3	48.4
		SO ₂	600 mg/Nm3	172		165	154	229	178
	Constant and	NOx	600 mg/Nm3	146	Sid	134	161	279	192
3	FBC boiler E3	PM	100 mg/Nm3	59.1	71.4	Not Running	Not Running	64.9	56.1
N. Carlos		SO2	600 mg/Nm3	158	190			330	230
	The second second	NOx	600 mg/Nm3	559	181			376	252
4	Hot Oil Unit	PM	150.0 mg/Nm3	18.4	12.2	44.6	11.6	29.6	18.6
1	(Resorcinol Plant)	SO ₂	100 ppm	6.2	4	23.4	14.2	6.2	6.2
24.00		NOx	50 ppm	23.6	19.1	11.2	5.2	15.4	30.5
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	51.7	50.3	36.4	59.4	39.6	30.4
		SO2	100 ppm	9.1	9.2	5.6	68.2	9.6	6.3
1-10		NOx	50 ppm	34.6	30.8	23.7	20.1	21.6	26.7
West Site							100		
6	FBC boiler W1	PM	100 mg/Nm3	89.6	72	68.4	56.8	48.6	60.4
		SO2	600 mg/Nm3	172	184	160	198	218	180
1.000		NOx	600 mg/Nm3	144	158	172	164	196	230
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
		502	100 ppm	ND	ND	ND	ND	ND	ND
		NOx	50 ppm	20.5	14.8	16.9	21.8	15.2	18.8
8	Oil burner Shed B	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
State of	(Stand By)	SO ₂	100 ppm		in an	rearing	1	1	Sub-
		NOx	50 ppm		1. Same	1.17			and and
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	31.6	46	40.2	35.4	48.7	42.7
-		SO2	600 mg/Nm3	164	160	148	174	156	182
	The second s	NOx	300 mg/Nm3	148	168	152	142	172	196
1		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND
10	DG set 1500 KVA (Stand By)	PM	150.0 mg/Nm3	44.8	60.6	51.7	44.3	54.7	52.6
		SO ₂	100 ppm	10.8	11.4	7.4	10.4	11.8	8.4
No. S		NOx	50 ppm	41.5	44.6	34.8	25.8	30.2	31.2
North Site		-			Sec. 1		Sec. 1		1
11	Thermic fluid heater of DCO/DAP Plant	PM	150.0 mg/Nm3	29.6	40.2	31.7	49.3	29.6	34.4
		SO ₂	100 ppm	10.2	7.9	5.2	8.1	7.1	7.5
Contraction of		NOx	50 ppm	17.1	23.8	31.7	23.3	25.7	20.1

Annexure II: Ambient Air Result

Ctation	Davana atau	Limit micro	October	November	December	January	February	March
Station	Parameter	gm/NM ³	20	20	20	21	21	21
	PM 2.5	60	30.8	31.7	31.7	32.6	36.2	38.3
	PM10	100	55.4	54.4	55.1	54.3	50.1	52.8
	SO2	80	15.2	14.1	13.2	12.3	13.2	20.5
66 KV	NO2	80	14.4	13.5	14.6	12.8	18.2	12.8
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31.6	32.7	37.2	32.7
Opposite	PM10	100	52.6	53.7	52.1	50.1	51.1	50.1
Shed D	SO2	80	13.7	14.8	13.7	11.1	14.8	18.5
	NO2	80	14.8	15.7	14.6	16.2	12.5	10.1
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	26	24	22	24
	PM10	100	44	46	48	46	44	46
Near West site	SO2	80	8.4	7.9	8.7	9.6	10.5	12.1
ETP	NO2	80	8.1	9.3	8.1	9.2	8.3	9.2
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	28	30	29	27	25	23
	PM10	100	43	45	47	45	43	45
Near North ETP	SO2	80	7.6	6.7	7.6	8.4	7.5	8.4
Nedr North ETP	NO2	80	6.7	7.6	6.7	7.6	8.4	9.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	28	27	25	23	21
	PM10	100	47	49	51	49	47	49
TSDF	SO2	80	6.2	7.3	7.5	8.6	9.5	10.3
ISDE	NO2	80	7.3	6.5	7.3	8.5	9.4	10.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	23	25	27	25	23	25
	PM10	100	52	54	56	54	52	54
Main Guest	SO2	80	8.9	8.1	9.2	10.3	11.2	10.3
House	NO2	80	8.6	6.8	8.6	9.5	10.4	11.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
W yeth Colony	PM 2.5	60	26	28	30	29	27	29

	PM10	100	50	51	53	51	49	51
	SO2	80	6.6	7.5	8.4	9.5	10.4	11.5
	NO2	80	7.3	8.3	7.4	8.5	9.4	10.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	27	29	31	28	26	28
	PM10	100	51	53	55	53	51	53
Gram	SO2	80	7.5	8.4	9.3	10.6	11.5	12.3
panchayat hall	NO2	80	7.7	8.8	7.7	8.7	9.6	10.4
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	25	27	30	29	27	25
	PM10	100	45	47	49	47	45	47
Main office,	SO2	80	8.6	7.4	8.3	9.2	10.3	11.3
North site	NO2	80	7.8	8.7	7.8	8.7	7.8	8.7
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31	32	31	35
	PM10	100	57.7	56.5	55.6	52.6	56.2	52.6
Haria water	SO2	80	16.7	17.6	16.7	15.8	18.4	14.8
tank	NO2	80	16.2	15.3	14.2	12.3	13.2	12.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

Annexure III: Noise Data

Noise level monitoring data (Day Time):

Sr	Location		Permissible Limits, dBA					
No.	Location	October	Novembe	December	Januar	February	March	75
		20	r 20	20	y 21	21	21	
1	Near Main guest house	64.7	65.8	64.7	63.5	65.3	52.4	75
2	Near TSDF	66.6	65.6	64.8	63.7	67.3	57.6	75
3	At Wyeth Colony	57.8	58.7	59.8	58.9	59.8	56.2	75
4	Gram Panchayat Hall	67.6	68.5	67.4	66.5	65.6	55.6	75
5	Near Main Office	65.8	66.7	67.6	66.7	67.6	53.6	75
	North site							
6	ETP North site	70.7	71.2	70.3	69.2	65.1	55.2	75
7	Opposite shed D	72.4	70.3	71.2	70.3	71.2	57.1	75
8	ETP West site	67.9	68.7	67.8	66.7	67.5	52.4	75
9	Water tank Haria road	65.4	66.5	65.6	64.5	65.5	55.6	75
10	Near 66KVA substation	67	68	67	66	67	53.5	75

Sr	Location		Permissible Limits, dBA					
No.	Location	October 20	Novembe r 20	December 20	Januar y 21	February 21	March 2021	70
1	Near Main guest house	55.3	56.4	55.3	54.2	64.2	54.2	70
2	Near TSDF	57.4	58.5	57.6	56.7	66.3	56.7	70
3	At Wyeth Colony	53.7	54.6	53.7	52.6	58.9	52.6	70
4	Gram Panchayat Hall	57.6	58.5	57.4	56.5	66.5	56.5	70
5	Near Main Office North site	59.4	58.3	57.2	56.3	64.2	56.3	70
6	ETP North site	56.5	55.6	54.6	53.5	63.2	52.5	70
7	Opposite shed D	59.8	58.9	57.8	56.7	72.1	51.7	70
8	ETP West site	57.1	56.2	55.3	54.2	65.7	54.2	70
9	Water tank Haria road	55.3	56.4	55.3	54.2	64.2	54.2	70
10	Near 66KVA substation	57.4	58.5	57.6	56.7	66.3	56.7	70

Annexure IV: CREP Compliance

Activity Code No.	Action Point	Compliance Status	Remarks
1	Implementation of Environmental Standards	Complied	APCM are already in place and maintained. We ensured that at no time the emission level will go beyond the stipulated standards prescribed limits.
2	Particulate matter emission reduction	Complied	We have installed high efficiency electro static precipitator (4 field) with 99.9% efficiency to control of flue gas emission (particulate matter emission) within the permissible limit.
3	New / expansion power projects to be accorded Environment Clearance	Complied	EC awarded for setting up an additional power plant of 22 MW, Dated May 20, 2016 EC No. SEIAA/GUJ/EC/1(d)/340/2016
	Development of SO2 & NOx emission standards.	NA	Action by CPCB
4	Development standards for of guide mercury lines / & other	NA	Action by CPCB

	Review of stack height requirement	NA	Action by CPCB
	Install / activate meters / continuous monitoring systems with calibration system.	Complied	The boiler stack is equipped with online continuous monitoring and also kept in CC TV camera surveillance.
5	Use of beneficiated coal	As soon as it is viable option with respect to its limited availability and proximity of source, will be used.	We are purchasing Indian coal from government collieries and hence forced to use the same. We will use Beneficiated coal as & when available.
	Use of abandoned coal mines for Ash disposal	NA	Not Applicable
	Provide dry ash to the users	Complied. Ongoing process	Being given to local brick manufacturers and Cement industries. We have done agreement between Ambuja cement Ltd and Atul Ltd For supply of dry ash.
	Provide dry ash free of cost	Complied	-
6	Adhere to schedule by State Dept.	NA	Action by State Dept.
	Environment Clearance Existing plants shall adopt any of systems mentioned in 13(1)	Complied	_
	Fly ash Mission shall prepare guideline	NA	Action by GOI
	New plants shall promote adoption of clean coal & clean power	NA	-
7	CC&A status	Complied	Consent no. AWH no. 105110 valid up to September 30, 2025.
8	Compliance with respect to norms prescribed in CC&A for last one year	Complied	Being checked & verified by Regional Office of GPCB time to time.
9	Overall compliance with respect to charter (Yes/No)	Yes	Fully complied with all the condition stipulated in EC as well as CC&A.

CSR	activity	report	2020-21
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No.	Program	Project Activity	Location	Outlay for	r the year	Implementing
			District (State)	Budget	Spent	agency
	(A)	(B)	(C)	(D)	(E)	(G)
1	Education	Enhancement of education practices in Kalyani Shala	Valsad (Gujarat)	24.00	24.00	Atul Foundation
2		Support to tribal children in Atul Vidyamandir	Valsad (Gujarat)	3.75	3.75	Atul Foundation
3		Improvement of teaching methodology for primary school children - <i>Adhyapika</i> project	Valsad (Gujarat)	57.50	57.50	Atul Foundation
4		Support to develop a school in a tribal area	Navasari (Gujarat)	5.00	5.00	Atul Foundation
5		Enhancement of rural education	Valsad (Gujarat)	6.25	6.25	Atul Foundation
6		Conservation of manuscripts	Ahmedabad (Gujarat)	10.00	10.00	Atul Foundation
7	Empowerment	Empowerment of women through various vocational training courses	Valsad (Gujarat)	5.00	5.00	Atul Foundation
8		Skills training to youth as apprentices	Valsad (Gujarat)	110.17	110.17	Atul Ltd.
9		Capacity building of tribal farmers in beekeeping	Valsad (Gujarat)	3.00	3.00	Atul Foundation
10	Health	Nutrition Garden Project	Valsad (Gujarat)	12.00	12.00	Atul Foundation
11		Enhancement of rural health through health camps	Valsad (Gujarat)	6.50	6.50	Atul Foundation
12	Relief	Support to disaster relief for COVID-19 pandemic	Valsad (Gujarat)	20.00	20.00	Atul Foundation
13		Contribution to PM Cares Fund	Valsad (Gujarat)	300.00	300.00	Atul Ltd.
14		Provision of fertilisers to farmers	Valsad (Gujarat)	2.50	2.50	Atul Foundation
15	Infrastructure	Infrastructure development activities in villages	Valsad (Gujarat)	44.59	44.59	Atul Foundation
16		Construction of white topping road	Valsad (Gujarat)	554.28	554.28	Atul Ltd.
17	Conservation	Establishment of solid waste management system in Atul village	Valsad (Gujarat)	10.00	10.00	Atul Foundation
18		Implementation of afforestation initiatives	Valsad (Gujarat)	4.31	4.31	Atul Ltd.
19		Conservation of water in villages	Valsad (Gujarat)	2.91	2.91	Atul Foundation
Total	direct expenditure	e		1181.76	1181.76	
Admi	inistrative overhea	ids (OH)		59.59	59.59	
Total	(direct expenditur	re + OH)		1241.35	1241.35	



Atul Ltd

Project: Expansion of Chemicals Manufacturing Unit

EC Compliance Report for EC F. No. J-11011/108/2015-IA-II (I), Dated February 11, 2019

Report Period: October 2020 - March 2021

Sr No.	Condition	Com	pliance	2			
Term	and Conditions:						
ii.	The treated effluent of 3335 cum/day shall be recycled/reused to meet the requirement of different industrial operations, and	The		effluent recycled ir I period.	n system is Avg. ?	2 67 KL/Day during	
	the remaining treated effluent of 20514 cum/day shall be discharge to estuary of Par River through the		Sr No.	Month	Total Recycle	Avg. KL/Day	
			1	October - 20	7409	239	
	existing pipeline.		2	November - 20	8419	281	
			3	December - 20	9060	292	
			4	January - 21	8306	268	
			5	February - 21	7979	285	
			6	March - 21	7261	234	
		after	achiev	to estuary of Par ing norms stipulate ed in stipulated cor	ed, which is well	511	
			Sr No.	Month	Effluent Discharged to Estuary of Par River	Avg. KL/Day	
			1	October - 20	284195	9168	
			2	November - 20	274672	9156	
			3	December - 20	265910	8578	
			4	January - 21	281096	9068	
			5	February - 21	275625	9844	
			6	March - 21	293120	9455	
					discharged treate by NABL approved		

ap w1 20 Ap flc cc Th bc tre Th at	pprove hich c)19 ar part fr ponnect ne trec pard's eated ne ma no ti	g the compliance. T ed (schedule-II) M/s. also has NABL appr nd validity till May 27, rom the above, we a f treated effluent of red with GPCB and C ated effluent is meeti discharge norms and effluent is given in A ximum values during me the emission we ry is given below:	Pollucon oval. (TC 2021, vo re contin as per o PCB ser ng all the d values nnexure the com	n Labord C-5945, alid for th nuously CPCB ver. e state of varia 1 .	monitor monitor guidelin pollutior pus para	Pvt.Ltd, Surat late-May 28, period). ing pH, TOC, es and also control meters of
	Sr No.	Parameter	Limit			e period - March
				Min.	Max.	Avg.
	1	рН	5.5- 9.0	6.89	7.46	7.13
	2	Temperature (°C)	40	30	30.4	30.2
	3	Colour (pt. co. scale)		30	60	41.66
	4	Suspended solids (mg/l)	100	34	72	41.66
	5	Phenolic Compounds (mg/l)	5	0.58	1.2	0.87
		compounds (mg/i)				
	6	Cyanides (mg/l)	0.2	ND	ND	ND
	6 7		0.2 2	ND 0.21	ND 1.68	ND 1.17
		Cyanides (mg/l)				
	7	Cyanides (mg/l) Fluorides (mg/l) Sulphides (mg/l) Ammonical	2	0.21	1.68	1.17
	7 8	Cyanides (mg/l) Fluorides (mg/l) Sulphides (mg/l) Ammonical Nitrogen (mg/l) Total Chromium	2 2	0.21 0.94	1.68 1.37	1.17 1.14
	7 8 9	Cyanides (mg/l) Fluorides (mg/l) Sulphides (mg/l) Ammonical Nitrogen (mg/l) Total Chromium (mg/l) Hexavalent	2 2 50	0.21 0.94 1.97	1.68 1.37 9.1	1.17 1.14 6.43
	7 8 9 10	Cyanides (mg/l) Fluorides (mg/l) Sulphides (mg/l) Ammonical Nitrogen (mg/l) Total Chromium (mg/l)	2 2 50 2	0.21 0.94 1.97 ND	1.68 1.37 9.1 ND	1.17 1.14 6.43 ND

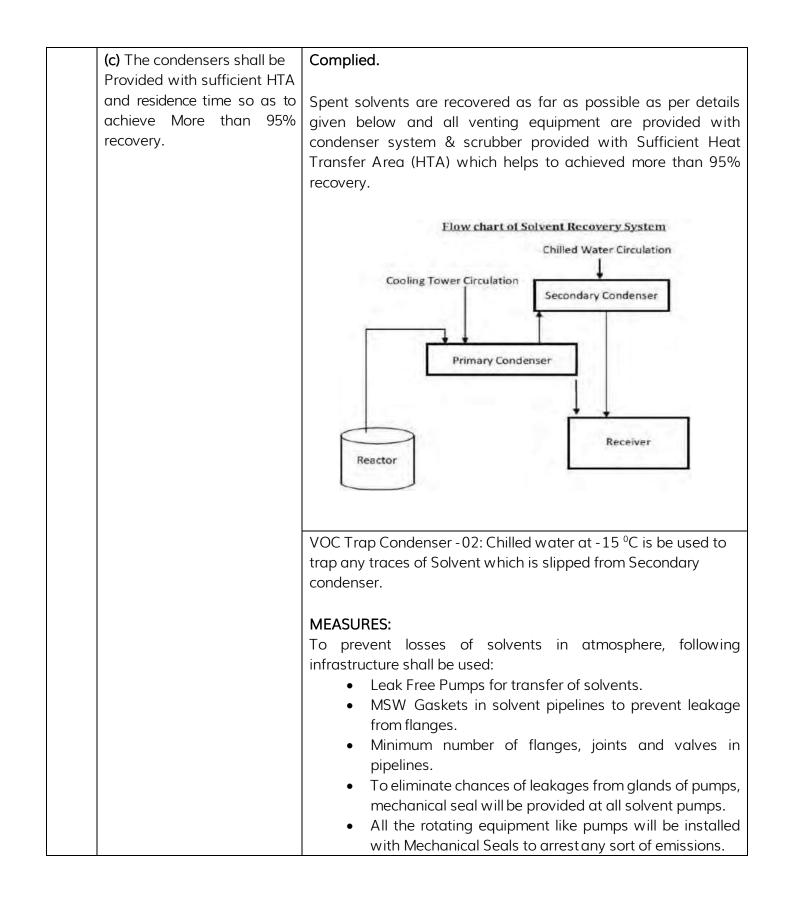
iii	Necessary authorization required under the	Complied.
	Hazardous and other Wastes Management Rule, 2016 shall be obtain and the Provisions contained in	We have obtained necessary authorization for Hazardous and other waste by obtaining Amendment in Existing CTO after receiving EC.
	the Rules shall be strictly adhered to.	CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-313(16)/ID: 23158/513897, Dated July 17, 2019 (CTO amendment No. AH 102080), Valid Till-November 03, 2019 Renewal for the same has been received vide CCA (AWH- 105110 valid till September 30, 2025.

iv	National Emission	Noted & Co	mplied.								
	Standards for organic		6 H .								
	chemicals Manufacturing We have been following the National Emission Standards since Industry issued by the beginning. The location of ambient air quality monitoring stations										
	Ministry vide G.S.R. 608(E)	beginning. The location of ambient air quality monitoring stations had been decided in consultation with GPCB so that at least one									
	Dated 21 July, 2010 and		station is installed in the up wind and downwind direction as well								
	Amended from time to time		aximum grour								
	shall be followed.		vers the impac		•						
			own to authori		-		9				
			factory. In tot uccessfully. Re					ana			
			,								
			t Air Quality is compliance b	0		0					
		-	reports were ort of monitori		•						
				ing report			in exaite	2			
			ım values duri	5	•	•					
			the emission arameter wise				-	ated			
		50100105.1		e summar	y is give						
		Summary of	f Ambient Air	Quality re	esults:						
						luce for	4h e				
					vu	Limit Values for the					
		Station Parameter		micro-		period	the				
		Station	Parameter		Octo	period ber 20 -					
		Station	Parameter	micro- gm/ NM ³	Octo Min.	ber 20 -	- 21				
		Station 66 KV	Parameter RSPM (PM2.5)	gm/		•					
			RSPM	gm/ NM ³	Min.	ber 20 Max.	- 21 Avg.				
			RSPM (PM2.5)	gm/ NM ³ 60	Min. 30.8	ber 20 - Max. 38.3	- 21 Avg. 33.55				
			RSPM (PM2.5) PM10	gm/ NM ³ 60 100	Min. 30.8 50.1 12.3 12.8	bber 20 - Max. 38.3 55.4 20.5 18.2	- 21 Avg. 33.55 53.68 14.75 14.38				
			RSPM (PM2.5) PM10 SO ₂	gm/ NM ³ 60 100 80	Min. 30.8 50.1 12.3 12.8 ND	bber 20 - Max. 38.3 55.4 20.5 18.2 ND	- 21 Avg. 33.55 53.68 14.75 14.38 ND				
			RSPM (PM2.5) PM10 SO ₂ NO ₂	gm/ NM ³ 60 100 80 80	Min. 30.8 50.1 12.3 12.8 ND ND	bber 20 - Max. 38.3 55.4 20.5 18.2 ND ND	- 21 Avg. 33.55 53.68 14.75 14.38 ND ND				
			RSPM (PM2.5) PM10 SO ₂ NO ₂ Ammonia	gm/ NM ³ 60 100 80 80 400	Min. 30.8 50.1 12.3 12.8 ND	bber 20 - Max. 38.3 55.4 20.5 18.2 ND	- 21 Avg. 33.55 53.68 14.75 14.38 ND				
		66 KV Opposite	RSPM (PM2.5) PM10 SO ₂ NO ₂ Ammonia HCI RSPM	gm/ NM ³ 60 100 80 80 400 200	Min. 30.8 50.1 12.3 12.8 ND ND	bber 20 - Max. 38.3 55.4 20.5 18.2 ND ND	- 21 Avg. 33.55 53.68 14.75 14.38 ND ND				
		66 KV Opposite	RSPM (PM2.5) PM10 SO ₂ NO ₂ Ammonia HCI RSPM (PM2.5)	gm/ NM ³ 60 100 80 80 400 200 60	Min. 30.8 50.1 12.3 12.8 ND ND 31.6	bber 20 - Max. 38.3 55.4 20.5 18.2 ND ND 37.2	- 21 Avg. 33.55 53.68 14.75 14.38 ND ND 33.45				

	A 19915 - 1915	400	ND	ND	ND
	Ammonia	400			
	HCI	200	ND	ND	ND
Near West	RSPM (PM2.5)	60	22	26	23.66
Site ETP	PM10	100	44	48	45.66
	SO ₂	80	7.9	12.1	9.533
	NO ₂	80	8.1	9.3	8.7
	Ammonia	400	ND	ND	ND
	HCI	200	ND	ND	ND
Near North	RSPM (PM2.5)	60	23	30	27
ETP	PM10	100	43	47	44.66
	SO ₂	80	6.7	8.4	7.7
	NO ₂	80	6.7	9.3	7.71
	Ammonia	400	ND	ND	ND
	HCI	200	ND	ND	ND
TSDF	RSPM (PM2.5)	60	21	28	25
	PM10	100	47	51	48.66
	SO ₂	80	6.2	10.3	8.23
	NO ₂	80	6.5	10.5	8.25
	Ammonia	400	ND	ND	ND
	HCI	200	ND	ND	ND
Main Guest	RSPM (PM2.5)	60	23	27	24.67
House	PM10	100	52	56	53.67
	SO ₂	80	8.1	11.2	9.67
	NO ₂	80	6.8	11.5	9.23
	Ammonia	400	ND	ND	ND
	HCI	200	ND	ND	ND
W yeth Colony	RSPM (PM2.5)	60	26	30	28.17
	PM10	100	49	53	50.83
	SO ₂	80	6.6	11.5	8.98
	NO ₂	80	7.3	10.3	8.53

		400	ND	ND	ND	
	Ammonia	400				
	HCI	200	ND	ND	ND	
Gram Panch-	RSPM (PM2.5)	60	26	31	28.17	
ayat Hall	PM10	100	51	55	52.67	
	SO ₂	80	7.5	12.3	9.93	
	NO ₂	80	7.7	10.4	8.82	
	Ammonia	400	ND	ND	ND	
	HCI	200	ND	ND	ND	
Main Office	RSPM (PM2.5)	60	25	30	27.17	
North	PM10	100	45	49	46.67	
Site	SO ₂	80	7.4	11.3	9.18	
	NO ₂	80	7.8	8.7	8.25	
	Ammonia	400	ND	ND	ND	
	HCI	200	ND	ND	ND	
Haria Water	RSPM (PM2.5)	60	31	35	32.58	
Tank	PM10	100	52.6	57.7	55.20	
	SO ₂	80	14.8	18.4	16.67	
	NO ₂	80	12.3	16.2	13.92	
	Ammonia	400	ND	ND	ND	
	HCI	200	ND	ND	ND	

vi	Solvent management shall be	Solvent management shall be carried out as follows:					
	(a) Reactor shall be	Complied.					
	connected to chilled brine condenser system.	Condensers with chilling systems are provided at point of					
		Solvent recovery to minimized vapour loss as shown below:-					
		Condenser at Solvent recovery					
	(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	Complied. We have provided seals at all Reactors and pump's in order to prevent leakage as shown below:-					
		Seal at Stirrer Pump Seal					



(d) Solvents shall be stored in a separate space specified	Complied.
with all safety measures.	We have made separate provision for solvent storage & is installed as per PESO regulation wherever applicable with all details of Storage area, operating temperature and pressure, types of possible hazards and control measures.
	Tank Farm
	Details For Solvent Storage is as per Annexure 5.
(e) Proper earthling shall be provided in all the electrical equipment wherever solvent handling is done.	Complied. Earthing pit is provided in all electrical equipment wherever solvent handling is done as below:-
	Brione Plane International States and a state of the sta
(f) Entire plant shall be flame proof. The solvent storage	Complied.
tanks shall be provided with breather valve to prevent losses.	Entire plant is flame proof installations, storage tanks are provided with breather valve for all prevention of losses. Separate provision is made for solvent storage & is installed as per PESO regulation wherever applicable with all details of Storage area, operating temperature and pressure, types of possible hazards and control measures.
	Details for solvent storage is given in above point vi (d).

	(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Complied. All the solvent storage tanks are being connected with condensers & chilled water circulation, Spent solvents are recovered as far as possible and all venting equipment are provided with condenser system & scrubber. Details for VOC mitigation is given in above point vi © .						
Vii	Total fresh water requirement shall not exceed 21950 cum/day, proposed to be met from Par River. Prior permission in this regards shall be obtained from the	10040	vera) KL/	ge water consum Day only, which is below table:	•	• •	-	
	concerned regulatory authority.		Sr No.	Month	Quantity (KL/Month)	Average Quantity (KL/Day)		
			1	October - 20	318276	10267		
			2	November - 20	296637	9888		
			3	December - 20	286338	9237		
			4	January - 21	305128	9843		
			5	February - 21	303361	10834		
			6	March - 21	315346	10172		
		at no ti value. Freshv	ime wate	num values during the wastewater ge er requirement is m m river Par.	eneration went l	beyond the stipu	ılated	

viii	Industrial/trade effluent	Complied.					
	shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD. Low TDS effluent stream shall Be treated in ETP/RO to meet the prescribed	Industrial/trade effluent is being segregated as shown below into High TDS (COD & Low TDS (COD. High COD (TDS stream is subjected to MEE and ATFD. Low TDS (COD stream is treated in in-house Effluent Treatment Plant and discharged as per stipulated norms. It's not exceeding then prescribed limit of EC & CCA. The average wastewater generation for the report period is as under:					
	standards.	Break up of effluent KI/Day					
		Sr	Month	High		Total	
		No.		TDS COD	TDS COD	Effluent generatio	
				107	0.001	n	
		1	October - 20	107	9061	9168	
		2	November - 20	125	9031	9156	
		3	December - 20	136	8442	8578	
		4	January - 21	146	8922	9068	
		5	February - 21	149	9695	9844	
		6	March - 21	132	9323	9455	
		at no stipula Prescr quality intervo GPCB Surat v 28, 20 Apart flow, o connec	naximum values d time the wast ated value. ibed Standards: T is also monitored of for ensuring the approved (schedu which also has NA 19 and validity till from the above, w of treated efflue ated with GPCB an s for monitoring re	ewater ge by NABL a compliance ule-II) M/s. F ABL approv May 27, 202 ve are conti nt as per nd CPCB se	charged treat pproved labor The testing L Pollucon Labo al. (TC-5945, 21, valid for the inuously moni CPCB guide erver.	nt beyond the ed waste water ratory at regular ab appointed is ratories Pvt.Ltd, issue date-May e report period). toring pH, TOC, lines and also	

ix	Process effluent/any	Complied.
	wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be	Process effluent/any wastewater are being discharged to estuary of Par river through the existing pipeline and are not mixed with storm water line.
	collected and discharged through a separate conveyance system.	We have already three numbers of check dams in natural storm water drains to collect and harvest rain water in monsoon season after giving necessary pre-treatment to remove suspended matter as we have pumped the rain water to clarifloculator units to remove suspended matter. We have facility capacity to cater our consumption with rain harvested water with zero river drawls of water from river during the rainy days. Besides this, there are three check dams and pumping facility to harvest rain water. We also construct temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain water in river Par. In addition to above, surface runoff water and roof top water is used to recharge bore wells.
		Capacity of Pond: (1 Nos. x 12000 KL) & (1 Nos. x 2000 KL) Company has harvest 6.55 lac KL rain water during 2020.
x	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.	Complied. Storage details of Hazardous materials along with control measure are as per Annexure 6.
xi	Process organic residue and spent carbon, if any, shall be Sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Complied. We have obtained necessary authorization for Hazardous and other waste by obtaining amendment in existing CTO after receiving EC and waste is disposed off accordingly. CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD- 313(16)/ID: 23158/513897, Dated July 17, .2019 (CTO amendment No. AH 102080), Valid Till- November 03, 2019. Renewal for the same has been received with consent order no. 105110 valid up to September 30, 2025.
		Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/EC Compliance/01 dated December 19, 2019.

xii	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act, 1989.	We are complying all the rules and regulation led by MSII- 1989. We are complying with Hazardous and Other Was (Managements and transboundary Movement) Rules, 20 towards ETP Sludge, Used Oil & Empty Drums- Handling, o Storage & Disposal to authorized Facility/TSDF. We had obtained necessary authorization for Hazardous and other was by obtaining amendment in existing CTO after receiving EC. Co amendment has been granted by GPCB vide letter M	tes 016 and ave iste TO No. 17, alid
		ConditionsCompliance4. Responsibilities of the occupier for management of hazardous and other wastes.(1) For management of hazardous and other wastes, an occupier shall follow the following steps, namely:-Complied.We are using advanced technology and processes to minimization of waste generation for prevention, reuse, recycling and safe disposal to the authorized actual user TSDF /CHW IF facility.Prevention; • Reuse, • Recycling; • Recovery, utilization including co- processing; • Safe disposal.Complied.(2) The occupier shall ersponsible for safe and environmentally sound management ofComplied.We are ensuring for safe and environmentally sound management ofWe are ensuring for safe and environmentally sound and other wastes.	

· · · ·	1 1
hazardous and	
other wastes.	
(3) The hazardous	Complied.
and other	
wastes	
	We have our own captive
generated in the	TSDF and Incinerator
establishment of	facility.
an occupier shall	
be sent or sold to	
an authorized	
actual user or	
shall be	
disposed of in an	
authorized	
disposal facility.	
(4) The hazardous	Noted & Complied.
and other	
wastes shall be	
transported from	
-	
an occupier's	
establishment to	
an authorized	
actual user or to	
an authorized	
disposal facility	
in accordance	
with the	
provisions of	
these rules.	
(5) The occupier	Complied.
who intends to	
get its	We are having separate
hazardous and	hazardous waste storage
other wastes	_
treated and	facility with all safety
	measures to avoid
disposed of by	accident. Also we are
the operator of a	adopting safe disposal and
treatment,	storage practices.
storage and	
disposal facility	
shall give to the	
operator of that	
facility, such	
specific	
information as	
intornation as	

may be needed	
for safe storage	
and disposal.	
(6) The occupier	Complied
shall take all the	•
steps while	
managing	
hazardous and	
other waste to-	
 contain 	
contaminants	
and prevent	
accidents and	
limit their	
consequences	
on human	
beings and the	
environment;	
and	
1	
working in the site with	
appropriate training,	
equipment and the	
information necessary	
to ensure their safety.	
(6) Grant of	Complied.
authorization for	
managing hazardous	We are strictly agreeing,
and other wastes.	complying & will continue
	to comply with all the
	GPCB as per latest CC&A
	no. AWH 105110 valid till
	September 30, 2025.
(7) Power to suspend or	Not Applicable.
cancel an authorization.	
(8) Storage of	Complied.
hazardous and other	
wastes.	
(9) Utilization of	Complied
hazardous and other	Complied.
wastes.	Recovered spent solvent
	are being reused. Used oil &
	discarded drums are being
	disculated dialitis are being

(10)Standard Operating	Noted.
Procedure or guidelines	
for actual users.	
(11) Import and export	Not Applicable.
(transboundary	
movement) of	
hazardous and other	
wastes.	
(12) Strategy for Import	Not Applicable.
and export of hazardous	
and other wastes.	
(13) Procedure for	Not Applicable.
import of hazardous and	
other wastes.	
(14) Procedure for	Not Applicable.
Export of hazardous	
and other wastes from	
India.	
(15) Illegal traffic.	Not Applicable.
(16) Treatment, storage	Complied.
and disposal facility for	complica.
hazardous and other	We have our own captive
wastes.	TSDF and Incinerator. We
	also send waste to
	authorized facility as per
	the valid authorization.
(17) Packaging and	Complied.
labelling – Form 8.	complied.
labelling Formo.	
	All hazardous waste
	transportation is being
	done through appropriate
	packing and labelling as
(10) The second station (per Form-8.
(18) Transportation of	Complied.
hazardous and other	
wastes.	Waste is being transported
	through TREM Card as per
	Hazardous waste rules.
(19) Manifest system	Complied.
(Movement Document)	
for hazardous and other	We are sending waste
waste to be used within	through Online Manifest
the country only.	system of GPCB XGN.
(20) Records and	
returns.	
(20) Records and	system of GPCB XGN. Complied.

	We are maintaining &
	submitting all records like
	Form-III, Form-IV &
	Environment Statement
	Form-V periodically to
	GPCB.
(21) Responsibility of	Noted
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.	
(22) Accident	Noted.
reporting. Where an	No accidents were reported
accident occurs at the	during report period during
facility of the occupier	handling and
handling hazardous	transportation of
or other wastes and	hazardous or other wastes.
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	
1.	
(23) Liability of occupie	r, importer or exporter and
operator of a disposal fac	
(a) The occupier,	Noted.
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.	
(b) The occupier and the	Noted.
operator of the disposal	
facility shall be liable to	
pay financial penalties	
-	
violation of the	
provisions under these	
rules by the State	
Pollution Control Board	
with the prior approval	
of the Central Pollution	
Control Board.	
(24) Appeal	
(a) Any person	Noted & Complied
aggrieved by an order	
of suspension or	
cancellation or refusal	
of authorization or its	
renewal passed by the	
State Pollution Control	
Board may, within 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.	
(b) The Appellate	
Authority may	
entertain 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.
		(c) Every appeal filed
		under this rule shall be
		disposed of within a
		period of sixty days
		from the date of its
		filing.
xiii	Fly ash should be stored	Complied
		Complied.
	separately as per CPCB	

	guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.	We have not constructed ash pond for the CPP unit. We have closed three silo of 200 MT and Two silo of 300 MT capacity of each, total 1200 MT capacity, which is well enough for our average generation of approx. 300 TPD. We dispatch the fly ash daily from these silos so we have not prepare ash pond.
xiv		e waste minimization measures as below:-
	(a) Metering and control of quantities of active ingredients tominimize waste.	Complied. Metering of water is done. Meter is provided at the inlet of the collection tank and reuse system of waste water and records are being maintained. Photograph of water meter shown below:
	(b) Reuse of by- products from the process as raw materials or as raw material substitutes in other processes.	Sodium Sulfate, sodium thio sulphate, brine, MEE salt, sodium hypochlorite, copper hydroxide, spent acid, etc. are few by- products from the process which are being sold for using the same either as raw material or as substitute to raw materials. Also, fly ash and gypsum are being used as raw material for brick manufacturing. sodium hypochlorite, sodium hydro sulfide, etc. are being used as raw material in other processes.
	(c) Use of automated filling to minimize spillage.	Filling/transfer system is being provided to minimized the spillage i.e. Chain conveyor system provided.
	(d) Use of Close Feed system into batch reactors.	"Close feed system" is available to our plant
	(e) Venting equipment through vapour recovery system.	At all venting equipment condenser recovery system & scrubbers are provided.
	(f) Use of high pressure hoses for equipment clearing to reduce waste water generation.	We are using high pressure jet nozzle for equipment cleaning to minimize wastewater generation.

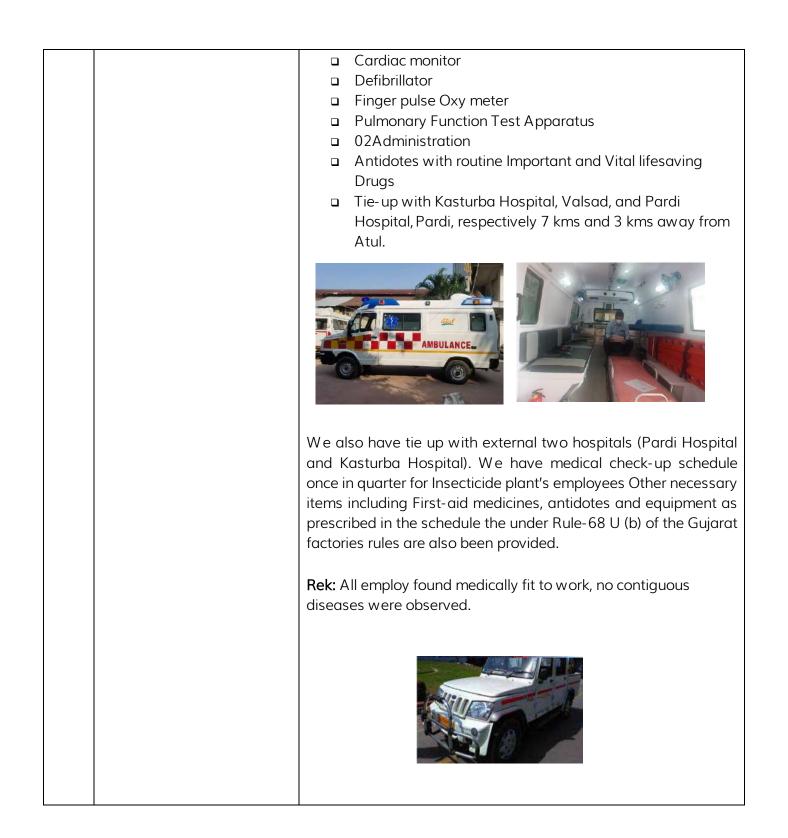
XV	The green beltof at least 5- 10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied. Proper plantation is done all around the plant boundary and also the roads to mitigate fugitive & transport dust emission. Total Industrial Plot area: 1126078.27 sq.mt Green belt area: 409030.00 sq.mt (approx. 36% of total plot area) Layout plan with green belt is shown as under: I = I = I = I = I = I = I = I = I = I =
xvi	All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.	 Complied. Please refer below full compliance with this condition as under; 1. Local employment is going on and is above 80 % at present. 2. Coal handling guidelines are fully complied. Point wise detailed compliance report was submitted wide our letter Dated March 23, 2020.
xvii	As committed, funds allocation for the Corporate Environment Responsibility (CER) shall be 2% of the total project cost. Item- wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Complied. CSR projects as per Annexure 7.

xviii	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	We stip Occ Ade DG	Complied. We ensured that at no time the emission level go beyond the stipulated standards prescribed limits. In such cases Occurrences we will intimate to board & authority time to time. Adequate stack height and acoustic enclosures are provided on DG sets. Stack details:					
		Sr No.	Stack Details	Stack Ht mtr	Parameter	Permissible Limits	APCD	Fuel
		1	DG Set 1010KVA	H: 10	PM	150 mg <i>/</i> Nm3	Adequate Stack Ht &	Diesel
		T	(Stand	п. 10	SO2	100 ppm	Acoustic	Diesei
			by)		NOx	50 ppm 150	Enclosure	
		2	DG Set 1500KVA		PM	mg/Nm3	Adequate Stack Ht &	
			(Stand	H: 11	SO2	100 ppm	Acoustic	Diesel
			By)		NOx	50 ppm	Enclosure	
						ttached to D	9.G Sets:	,

xix The unit shall make the arrangement for Protection of possible fire hazards during manufacturing process in material handling. Complied. A well designed Fire hydrant system is adequate and as	
of possible fire hazards A well designed Fire hydrant system is adequate and as during manufacturing standards.	
Fire-fighting system shall be Fire hydrant Network details:	s per ג
	many
 Four full-fledged fire hydrant system in the com Water Storage Capacity - 50 million Liters Total length of hydrant line – 15 km Fire Fighting Equipment DCP1350 o CO2 Foam :05Trolly Fire Tenders One fire tender having 1800 Lit water capacit Second multipurpose fire tenders having 500 water &500Foam Third Multipurpose tender having facility of DCP- 500 Kg, Foam – 500 lit and Water – 4500Lit. SCBA sets – 35nos. Emergency alarm system – 532 nos. points spread at the company. Fire station manned round the clock with Siren Annunciation System. Regular Testing on every Monday. Smoke detectors in the office and labs. Auto water sprinkler system at tank farms. 	ly City DOO Lit f -

xx	Occupational health	Complied.
	surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being done on regular basis as per the Factories Act & rules.
		Occupational health surveillance of the workers is carried out on a regular basis as per section-41 C of the factories act and ruke- 68T of Gujarat Factories Rules and records are maintained. Regular medical check-up of all employees are done by in-house doctors.
		The following medical check-up has been carried out during report period:
		Medical Check-Up:

		I		
	Sr No.	Employee	Numbers	
	1	Staff		
	2	Operators	1895	
	3	Workers		
Various typ	es of tes	ts being perform	ed are as below;	
1. Pre-	employr	nent check-up:		
1. Visio				
2. Cold 3. CBC	our blindr	ness		
4. Urin				
5. Heig				
6. Weig				
7. B/P				
8. Puls				
9. Hab				
	ional His	•		
	nily Histo Itificatior			
12.1001	linearior			
2. Anr	nual Che	ck-up:		
1. Phys	sical che	ck-up		
2. Visio		·		
3. Bloc	bd			
4. Urin				
5. PFT				
6. ECG	1			
Our occupa	itional he	ealth centre & Pat	hology Lab is equipped	
			vision of factory medical	
officer with	trained t	three EHS persor	IS.	
Medical Fac				
		es in all plants		
			he middle of the factory	+h
	ambuic facilities.		which one is equipped wit	.11
	lical Cen [.]			
		ne AFIH certified (doctors.	
		th 3Beds		
•			with advanced diagnostic	2
	pment			
□ ECG	i Equipm	ent		



xi	Continuous online (24x7)	Complied.
	monitoring system for stack	
	emissions shall be installed	Online monitoring system for SPM, SOx and NOx is already been
	for measurement of flue gas	made and connected to CPCB server.
	discharge and the pollutants	
	concentration, and the data	Photograph of online monitoring system (CEMS) connected to
	to be transmitted to the	the CPCB server:
	CPCB and SPCB server. For	
	online continuous monitoring	
	of effluent, the unit shall install web camera with night	
	vision capability and flow	
	meters in the channel /dra in	
	carrying effluent within the	
	premises.	

B. Ger	neral Conditions:	
i	The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	The company complies with all stipulations prescribed by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority. Our compliance are further monitored by our Environmental auditors appointed by GPCB. Latest Environmental audit report by S. N. Patel Institute of Technology &research Centre for Environment research, Bardoli, Surat for year 2020-21 is attached as Annexure 8.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied. We ensure that there is no further expansion or modifications related to EC in the plant. For any deviations or alteration in the plant we will opt prior permission from MoEF.
ili	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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 November, 2009 shall be followed.	Complied. The Location of ambient air quality monitoring stations had been decided in consultation with GPCB so that at least one station is installed in the up wind and downwind direction as well as where maximum ground level concentration are anticipated. This also covers the impact, if any, of the project plant. The same had been shown to authority like SPCB, CPCB & MoEF during their visit to our factory. The maximum values during the compliance period confirm that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given above in Specific Condition IV.

r	.	<u> </u>							
v	The overall noise levels in and	Complied.							
	around the plant area shall be kept well within the	ть			مامرمم			- +- +	
	standards by providing noise		The ambient and workplace noise level confirms to the standard						
	control measures including		prescribed under EPA. The same is being regularly monitored at regular interval for ensuring the compliance.						
	acoustic hoods, silencers,		galai		ling				
	enclosures etc. on all sources	Tł	ne ma	ximum values d	luring	g the complie	ance pe	eriod cor	nfirm that
	of noise generation. The	at	no	time the emiss	sion	level went	beyon	d the s	stipulatec
	ambient noise levels shall	st	andar	ds. Parameter v	vise	summary is g	given be	elow:	
	conform to the standards prescribed under								
	prescribed under Environment (Protection)	N	oise le	evel monitoring	date	a (Day Time)			
	Act, 1986 Rules, 1989 viz. 75						Val	ues for	the
	dBA (day time) and 70 dBA		Sr			Permissible			
	(night time).		No.	Location		Limits, dB	e period October 20 - 21		
							Min.	Max.	Avg.
			1	Near Main guest house		75	52.40	65.80	62.73
			2	Near TSDF	:	75	57.60	67.30	64.27
			3	At Wyeth Col	ony	75	56.20	59.80	58.53
			4	Gram Panchayat Hall		75	55.60	68.50	65.20
			5	Near Main Of North site	fice	75	53.60	67.60	64.67
			6	ETP North si	te	75	55.20	71.20	66.95
			7	Opposite shee	d D	75	57.10	72.40	68.75
			8	ETP West si	te	75	52.40	68.70	65.17
			9	Haria Water t	ank	75	55.60	66.50	63.85
			10	Near 66KV substation		75	53.50	68.00	64.75
		N	oise le	evel monitoring	date	a (Night Tim	e):		
			Sr		De	rmissible	Values for the period		
			Sr No.	Location	Permissible Limits, dB		Octo	ber 20	- 21
							Min.	Max.	Avg.
			1	Near Main guest house		70	54.20	64.20	56.60
			2	Near TSDF		70	56.70	66.30	58.87
			3	At Wyeth Colony		70	52.60	58.90	54.35

4	Gram Panchayat Hall	70	56.50	66.50	58.83	
5	Near Main Office North site	70	56.30	64.20	58.62	
6	ETP North site	70	52.50	63.20	55.98	
7	Opposite shed D	70	51.70	72.10	59.50	
8	ETP West site	70	54.20	65.70	57.12	
9	W ater tank Haria road	70	52.40	63.40	56.02	
10	Near 66KVA substation	70	55.30	66.00	58.05	

vi	The company shall	Complied.
	harvest rainwater from the rooftops of the Buildings and Storm water Drains to recharge the ground water	Rooftop rain water from Coal sheds and New TG building is collected in well-constructed pond and used as make up water for cooling tower.
	and to utilize the same for process requirements.	We have already three numbers of check dams in natural storm water drains to collect and harvest rain water in monsoon season after giving necessary pre-treatment to remove suspended matter as we have pumped these rain water to clarifloculator units to remove suspended matter. We are creating facility/ capacity to cater our consumption with rain harvested water with zero river drawls of water during the rainy days.
		Besides this, there are three check dams and pumping facility to harvest rain water. We also construct temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain water in river Par. In addition to above, surface runoff water and roof top water is used to recharge bore wells.
		Total No. of Pond: 2 Nos. Capacity of Pond:(1 Nos. x 12000 KL) & (1 Nos. x 2000 KL) Company has harvest 6.55 lac KL rain water during 2020.
		Photograph of rain water harvesting structure (Pond) as shown below:
		Water Harvesting Project Water Harvesting at Colony Project near Coconut Circle

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.	Complied. Annual training plan are being carried out every calendar year from January to December for safety purpose. Company is providing training which cover all relevant workplace policies, procedures and practices to ensure that staff have the appropriate skills and knowledge to perform their work safety and according to the legislative requirements and the departments and work place procedures. All employees and others have a duty to comply with instructions given for workplace health and safety. Employee training which generally include: • First aid training • Firefighting training – Use of Fire Hydrant /Extinguisher • Handling of Compressed Gas Cylinder • Work Permit System, Use of Spill Kit • Handling of Solvents • Operation of ETP &MEE • Handling of Hazardous waste • Scrap yard management • 111 – A training as per factory Act • General instruction training; e.g. workplace communication processes, incident reporting, lock down, evacuation and medical emergency procedures for the use of equipment, SOP of manufacturing process & safety and health aspect of chemical handling. • Conducted OSHAS & EMS Programme. • Hygiene, Stress management & skill development.
viii	The company shall also 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, and risk mitigation measures relating	 Hygiene, Stress management & skill development. Complied. Compliance to all environmental protection measures and safeguards proposed in the project report submitted to ministry is compiled as mention in Annexure 9

	to the project shall be implemented.	
ix	The company shall undertake all the relevant measures for improving the socio economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration.	Complied . Details of CER CSR is given in Annexure 10 .
×	The company shall undertakeeco-developmentalmeasuresincludingcommunitywelfaremeasures in the project areafortheOverallimprovementofenvironment.	Complied. Details of CER CSR is given general condition (ix)
xi	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and monitoring functions.	Complied. Company is having separate Environmental Management Cell equipped with full-fledged laboratory facility to carry out the environment management and monitoring functions. Apart from this, one Environment Research Lab is also established for research work for the study of various aspects related to environment and its remedial measures. Company has developed a separate laboratory equipped with equipment such as pH meter, TDS meter, COD meter, Glass ware, gas chromatography system, and oven, muffle furnace, etc. to carry out testing of routine parameters. Currently the parameters measured in-house are pH, COD, TDS, MLVSS, and MLSS.A For all external environmental monitoring we have appointed NABL approved reputed agencies.

xii	The company shall mark 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	EMP Recu to cc CPCE	rring of omply 3 & Mo ties. To	ires are implemented. cost: A separate budget is with all the legal requirer EF apart from upkeep of po tal expenditure for the repo	ment stipulated by SPCB, Ilution control systems and
	along with the implementation schedule for all the conditions		Sr No.	Parameter	Recurring Cost (Rs. in lakhs) October 20-21
	stipulated herein. The funds so earmarked for		1 2	Air Pollution Control Liquid Pollution Control	2865
	environment management/ pollution control measures shall not be diverted for any	-	3	Environmental Monitoring and Management	21
	other purpose.		4	Solid waste Disposal	346
			5	Occupational health	20
			6	Green belt	7
				Total	3259
xiii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat Zilla Parishad/Municipal corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Weh envir the co	onmer opies c	formed the public that the atal clearance by the EAC, of the clearance letter are av n at website of EAC/GPCB.	MoEF&CC Delhi and that vailable with the GPCB and

xiv	The project proponent	Complied.
	shall also submit six monthly	
	reports on the status of	We regularly submit the half-yearly compliance report & same is
	compliance of the stipulated Environmental Clearance	being updated on website.
	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	
	EC and six monthly	
	compliance status report	
	shall be posted on the	
	website of the company.	
xv	The environmental	Complied.
	statement for each financial	
	year ending 31st ch in Form-	The Env. Statement (Form-V) for each financial year ending 31 st ch
	V as is mandated shall be	is being submitted to State Pollution Control Board (GPCB) every
	submitted to the concerned	year time to time on XGN portal as well as hard copy submission.
	State Pollution Control Board	Form V for year 2019-20 was submitted to your good office vide
	as prescribed under the	our letter dated December 19, 2020 and also uploaded on the
	Environment (Protection)	website along with compliance report.
	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.	

xvi	The project proponent shall inform the public that	Complied.
	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 <u>http://moef.nic.in</u> 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	We have been granted EC Dated: February 11, 2019 and inform the public that the project has been accorded environmental clearance and advertised in local newspapers that are widely circulated in the region with vernacular language Gujarati and another in English on February 17, 2019. Details submitted vide our letter Atul/SHE/EC Compliance/01 dated December 19, 2019.
	Ministry.	
xvii	The project authorities shall inform the Regional Office as	Complied.
	well as the Ministry, the Date	We have communicated with the regional officer & MoEF&CC
	of financial closure and final	towards the status of work and financial closure time to time. We
	approval of the project by the	have also submitted six monthly EC compliance report
	concerned authorities and the date of start of the	periodically in which said information were updated time to time.
	project.	

Sr				Resu	lts			GPCB	
No.	Parameter	October 20	November 20	December 20	January 21	February 21	March 21	Limits	
1	рН	7.04	7.13	7.46	7.34	6.97	6.89	5.5 to 9.0	
2	Temperature °C	30.4	30.1	30.2	30	30.1	30.4	40 °C	
3	Colour (pt. co. scale)	40	30	30	40	60	50		
4	Suspended solids, mg/l	68	47	39	53	72	34	100	
5	Phenolic Compounds, mg/l	0.8	1.2	0.58	0.94	0.83	ND	5	
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2	
7	Fluorides, mg/l	1.17	1.24	1.18	1.68	1.55	0.21	2	
8	Sulphides, mg/l	1.12	0.98	0.94	1.37	1.16	ND	2	
9	Ammonical Nitrogen, mg/l	7.56	8.42	7.28	4.26	1.97	9.1	50	
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2	
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1	
12	BOD (3 days at 27°C), mg/l	38	31	40	35	42	52	100	
13	COD, mg <i>l</i> l	153	164	216	204	230	168	250	
	Note: ND is Not Detectable.								

Annexure 1: Quality of Treated Effluent

Annexure 2: Ambient Air Quality Monitoring Results

Station	Parameter	Limit	October	November	December	January	February	March
	i didificter	microgm/NM ³	20	20	20	21	21	21
	PM 2.5	60	30.8	31.7	31.7	32.6	36.2	38.3
	PM10	100	55.4	54.4	55.1	54.3	50.1	52.8
66 KV	SO2	80	15.2	14.1	13.2	12.3	13.2	20.5
00 KV	NO2	80	14.4	13.5	14.6	12.8	18.2	12.8
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31.6	32.7	37.2	32.7
Opposite	PM10	100	52.6	53.7	52.1	50.1	51.1	50.1
Shed D	SO2	80	13.7	14.8	13.7	11.1	14.8	18.5
	NO2	80	14.8	15.7	14.6	16.2	12.5	10.1
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	26	24	22	24
	PM10	100	44	46	48	46	44	46
	SO2	80	8.4	7.9	8.7	9.6	10.5	12.1
West site ETP	NO2	80	8.1	9.3	8.1	9.2	8.3	9.2
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	28	30	29	27	25	23
	PM10	100	43	45	47	45	43	45
	SO2	80	7.6	6.7	7.6	8.4	7.5	8.4
North ETP	NO2	80	6.7	7.6	6.7	7.6	8.4	9.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	28	27	25	23	21
	PM10	100	47	49	51	49	47	49
TODE	SO2	80	6.2	7.3	7.5	8.6	9.5	10.3
TSDF	NO2	80	7.3	6.5	7.3	8.5	9.4	10.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	23	25	27	25	23	25
	PM10	100	52	54	56	54	52	54
Main Guest	SO2	80	8.9	8.1	9.2	10.3	11.2	10.3
House	NO2	80	8.6	6.8	8.6	9.5	10.4	11.5
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	28	30	29	27	29
	PM10	100	50	51	53	51	49	51
W yeth Colony	SO2	80	6.6	7.5	8.4	9.5	10.4	11.5
	NO2	80	7.3	8.3	7.4	8.5	9.4	10.3
	Ammonia	400	ND	ND	ND	ND	ND	ND

	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	27	29	31	28	26	28
	PM10	100	51	53	55	53	51	53
Gram	SO2	80	7.5	8.4	9.3	10.6	11.5	12.3
panchayat hall	NO2	80	7.7	8.8	7.7	8.7	9.6	10.4
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	25	27	30	29	27	25
	PM10	100	45	47	49	47	45	47
Main office,	SO2	80	8.6	7.4	8.3	9.2	10.3	11.3
North site	NO2	80	7.8	8.7	7.8	8.7	7.8	8.7
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33.8	32.7	31	32	31	35
	PM10	100	57.7	56.5	55.6	52.6	56.2	52.6
Haria water	SO2	80	16.7	17.6	16.7	15.8	18.4	14.8
tank	NO2	80	16.2	15.3	14.2	12.3	13.2	12.3
	Ammonia	400	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

				OCT. 2020	NOV. 2020	DEC.2020	JAN. 2021	FEB. 2021	MAR. 203
Details of	Process and Flue stack		-	001.2020	104.2020	DECIZORO	1 JAN. 2021	1 PEB. 2021	MAR. 20.
Sr. No.	Stock Details	Paromenter	Permissible. Limits	Obtained Value	Obtoined Value	Obtained Value	Obtained Value	Obtained Value	Obtained V
Atul East S	Site								
1	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	33	20	48	42	31	54
		co		ND	ND	ND	ND	ND	ND
2	Reactor (Phosgene plant- New)	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Caustic Ch	lorine Plant	-							
3	Dechlorination Plant	Cly	9.0 mg/Nm3	8.1	2.46	4.3	8.2	5.8	5
		HCI	20.0 mg/Nm3	8.29	1.9	4.42	8.4	5.94	5.1
4	Common stack of HCI Sign unit 1&2	Cly	9.0 mg/Nm3	7.5	3.8	5.7	8.15	4.9	4.4
	all and the second s	HCI	20.0 mg/Nm3	7.68	3.6	5.86	7.9	5.01	4.5
FCB Paint		-							
5	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	Black Int. or	Address Taxa and an	Alex Income			-
		NOX	25.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in us
and the second se	cid (East Site)		1 - 20 - 12 m					10000	
6	Sulfuric Acid Plant	SO ₂	2.0 kg/T	1.5	0.8	1.25	1.35	1.1	1.32
		Acid Mist	50.0 mg/Nm3	13.6	16.2	24.8	12.9	19.8	10.6
7	ChloroSulfonic Acid plant reactor	Cla	9.0 mg/Nm3	8.2	7.1	6.8	3.9	6.4	4.1
		HCI	20.0 mg/Nm3	8.85	7.3	6,99	3.7	6.55	4.3
Resorcinol									
8	Spray Dryer (Resorcinol Plant)	PM	150.0 mg/Nm3	3.8	12.2	9.1	33.7	33.2	27.7
9	Scubber vent (Resorcinal Plant)	SOJ	40.0 mg/Nm3	24.7	4	20.6	24.1	32.6	28,4
Incinerator									
10	Incinerator	PM	150.0 mg/Nm3	71.8	56.2	Not Running	Not Running	30.8	Not Runni
		SO2	40.0 mg/Nm3	9.2	4.8			12.4	
		NOx	25.0 mg/Nm3	19.7	15.3	and the second second		9.3	
NI Plant									
11	Foul Gas Scubber	SO2	40.0 mg/Nm3	25.2	23.2	26.4	14.9	20.6	22.3
		NOx	25.0 mg/Nm3	15.9	20.7	18.4	16.8	12.1	14.9
2-4-D Plan									
12	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	7.6	6.4	5.1	6.4	7.8	5.4
-	-	HCI	20.0 mg/Nm3	13.51	6.63	5.24	6.8	7,48	5.7
13	Dryer-1	Phenol	17	ND	ND	4.2	ND	ND	ND
	Diver-1	PM with Pesticide compound	20.0 mg/Nm3	14.8	11.2	14.2	13.1	12.8	10.9
14	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3	11.2	13.6	10.8	8.4	11.2	9.4
15	Dryer-3	PM with Pesticide compound	20.0 mg/Nm3	14.1	9.4	12.6	12.3	13.6	Not Runnir
16	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3	11	12	8.4	10.2	14.2	12.6
17	Dryer-5	PM with	20.0 mg/Nm3	15.8	13.1	15.6	9.7	9.9	10.5

Annexure 3: Stack Details

NBD Plant .		1			and the second sec		the second s		and the second second
			11-510-51	1.	1922		4		246 30 0
18	Spray Dryer	PM	150.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
19	Scrubber S-902	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
	Contraction of the second s	HCI	20 mg/Nm3	10.4	12.9	16.1	14.2	7.9	8.2
20	Scrubber 5-801/802	NOx	25.0 mg/Nm3	17.1	10.8	17.4	10.1	10.6	12.2
Sr. No.	Stack Details	Paramenter	Permitsible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Vol
CP Plant	Contraction of the second	-			-				
21	MCPA	Cly	9 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
		HCI	20 mg/NM ³			COLONIA COLO	2015-2010-2010-2012-2012-2012-2012-2012-		0.04840.000441714
	all a ser a ser a	502	40 mg/NM ³	111126191		20010		States and	
22	Fipronil	507	40 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
					-				
		HCI	20 mg/Nm3					Constant of	
23	Imidocloprid	NH ₃	175 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
24	Pyrothroids	SO2	40 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
2.5		HCI	20 mg/Nm3						10.002
25 MPSL Plant	Stack at Amine Plant	NHo	175 mg/Nm3	98	66	75	63	48.4	112
26									
	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
NICO plant								_	
28	Central scrubber at Nico Plant	Acetonytryle		Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Ester Plant		IPA							
29	Scrubber at Ester plant for Glyphosate	Formaldehy	10 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
		de				-			11-1
30	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Running		and the second se	Not Running	Not Running	Not Running
31	MPP plant scrubber	HCI	20 mg/Nm3	7.5	3.4	5.8	12.4	6.3	8.1
		Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
Atul West Si					-		- Carlo	The state of the	
32	Shed A05/03/44	Cl ₂	9 mg/NM ³	Not Running	7.53	5.9	6.2	Not Running	Not Running
		HCI	20 mg/NM ³		9.8	7.2	6.5		
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	Not Running	Not Running	5.5	7.1	6.9	6.2
		HCI	20.0 mg/Nm3			5.2	7.3	7.2	5.9
34	Shed B18/02/24 Fan	502	40 mg/NM ³	19.6	33.6	20.8	32	23.9	19.8
		Ch	9 mg/NM ³	7.2	4.6	7.3	8.1	4.4	6.8
	and the second	HCI	20 mg/NM ³	7.37	4.4	7.6	7.8	4.5	6.6
35	Shed C5/20/15 Chlorinator	Ch	9.0 mg/Nm3	Not Running	Not Running	5.1	7.8	4.3	6.5
		HCI	20.0 mg/Nm3	Concernant and the second		5.4	7.6	6.2	6.7
36	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	71	Not Running	Not Running
37	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	Not Running	Not Running	58.4	69	Not Running	Not Running
20					8- L.	2	1.20	100	
38	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	Not Running	Not Running		Not Running	45.7	55.3
39	Shed F F6/1/15 Reaction Vessel	Cl ₂	9.0 mg/Nm3	5.7	7.68	7.98	7.2	6.16	Not Running
	and a second of the	HCI	20.0 mg/Nm3	14.6	7.9	8.2	7.37	6.34	
40	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3	Not Running	Not	Not	Not Running	Not Running	Not Running
	the second se	HCI	20.0 mg/Nm3	1	Running	Running	and the second se	And a state of the	

41	Shed H 11/6/17 chloringtor	Cl ₂	9.0 mg/Nm3	6.5	7.58	8.36	8.46	8.32	5.73
		HCI	20.0 mg/Nm3	12	7.8	8.9	8.66	8.55	5.9
42	Shed K K-13/3/4 Final of Sulfuric acid	50,	2.0 kg/T	1.6	0.86	0.9	1.1	0.95	1.3
	plant	Acid Mist	50.0 mg/Nm3	3.2	2.5	3	3.7	2.4	3.2
43	Shed J15/09/25	HBr	-	7.6	11.3	8.9	ND	ND	ND
		SO2	40 mg/NM ³	14.8	16.8	13.2	1.1 @	30.6	22.7
Sr. No.	Stack Details	Paramenter	Permissible	Obtained Volue	Obtained	Obtained	Obtained	Obtained Value	Obtained Val
			Limits	obtailed votas	Volue	Volue	Volue	Contraining Forder	
44	Shed J12/01/42	SO ₂	40 mg/NM ³		in the last	19.8	24.7	18.3	20.1
		CI2	9.0 mg/Nm3	Not Running	Not Running	6.1	7.2	6.9	5.2
		HCI	20.0 mg/Nm3			6.4	7.4	6.3	5.4
45	Shed J12/03/36	SO2	40 mg/NM ³			26.6	28.9	19.2	23.6
	the second	HCI	20.0 mg/Nm3	Not Running	Not Running	16.8	11.4	15.7	12.9
46	Shed N Scrubber Fan N20/08/24	Cla	9 mg/NM ³	6.2	7.6	5.2	7.2	5.7	6.6
		HCI	20 mg/NM ³	6.34	6.34	9.1	5.3	5.83	6.8
47	Shed N Scrubber Fan N20/02/41	SO	40 mg/NM ³	28.6	36.1	32.4	27.1	31.7	24.9
48	Sulfer Black Plant	H ₂ S	** +	ND	ND	ND	ND	ND	ND
-	and the second second second	NH3	175 mg/NM ³	140	140	120	81.3	90.6	110
49	Sulfer Dyes plant	H ₂ S		ND	ND	ND	ND	ND	ND
		NH ₀	175 mg/NM ⁹	31.2	44.2	35.4	156	12.8	27.3
50	Flavors & Fragrances Plant	HCI	20 mg/NM ³	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
Atul Nort	h Site								
51	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Running	Not Running	Not Running	Not Running	Not Running	Not Runnin
		SO ₂	40.0 mg/Nm3	0					
		NOx	25.0 mg/Nm3						
		Formaldehy	10.0 mg/Nm3	and success		-		Section 1	
52	PHIN Plant	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
53	PHIN-II Plant	HCI	20 mg/NM ³	2.8	3.3	4.3	5	4.3	47
54	DDS Plant (Pharma Plant)	NHa	175 Mg/Nm3	Not Running	202		Not Running	110	150
55	SPIC II Plant (DCDPS)	SO3		ND	ND	Not Running	24.1	4.6	3.8
56	SPIC 1 Plant	NHa	175 mg/Nm3	Not Running		Not Running	146	124	136
57	SPIC IV Plant	NHa	175 mg/NM ³	75		Not Running	59	66	12.9
1917 C		SO3	and the second	ND	ND	ND	ND	14.4	17.3

Sr. No.	Stack Details	Paramenter	Permissible	Obtained Value	Obtained	Obtained	Obtained	Obtained Value	Obtained Vol
			Limits		Value	Value	Value		
East site								The state of the	
1	FBC boiler El	PM	100 mg/Nm3	Not Running	Not Running	61.4	56.4	48.6	Not Running
200		50,	600 mg/Nm3		-	156	184	288	
		NOx	600 mg/Nm3		Gyr S	124	165	302	
2	FBC boiler E2	PM	100 mg/Nm3	71.4	Not Running	56.1	66.3	66.3	48.4
		502	600 mg/Nm3	172		165	154	229	178
	The second	NOx	600 mg/Nm3	146	and the	134	161	279	192
3	FBC boiler E3	PM	100 mg/Nm3	59.1	71.4	Not Running	Not Running	64.9	56.1
		SO ₂	600 mg/Nm3	158	190			330	230
		NOx	600 mg/Nm3	559	181	1.000		376	252
4	Hot Oil Unit	PM	150.0 mg/Nm3	18.4	12.2	44.6	11.6	29.6	18.6
	(Resorcinol Plant)	502	100 ppm	6.2	4	23.4	14.2	6.2	6.2
1.000		NOx	50 ppm	23.6	19.1	11.2	5.2	15.4	30.5
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	51.7	50.3	36.4	59.4	39.6	30.4
1-2-2		SO,	100 ppm	9.1	9.2	5.6	68.2	9.6	6.3
1	The second second second	NOx	50 ppm	34.6	30.8	23.7	20.1	21.6	26.7
West Site	STATISTICS STATISTICS		1						
6	FBC boiler W1	PM	100 mg/Nm3	89.6	72	68.4	56.8	48.6	60.4
1000	A standard a model of	50,	600 mg/Nm3	172	184	160	198	218	180
		NOx	600 mg/Nm3	144	158	172	164	196	230
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
		SO ₂	100 ppm	ND	ND	ND	ND	ND	ND
1.		NOx	50 ppm	20.5	14.8	16.9	21.8	15.2	18.8
8	Oil burner Shed B	PM	150.0 mg/Nm3	Not Running	Not	Not	Not Running	Not Running	Not Running
1.000	(Stand By)	SO2	100 ppm	1	numming	naming			
		NOx	50 ppm	1	1285				
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	31.6	46	40.2	35.4	48.7	42.7
1.00		SO2	600 mg/Nm3	164	160	148	174	156	182
1		NOx	300 mg/Nm3	148	168	152	142	172	196
		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	44.8	60.6	51.7	44.3	54.7	52.6
	(Stand By)			1.	-		-	-	
	_	502	100 ppm	10.8	11.4	7.4	10.4	11.8	8.4
		NOx	50 ppm	41.5	44.6	34.8	25.8	30.2	31.2
North Site	A CONTRACTOR OF THE OWNER	-			-	1.1.1.1.1.1.1			
11	Thermic fluid heater of DCO/DAP Plant	PM	150.0 mg/Nm3	29.6	40.2	31.7	49.3	29.6	34.4
2.2	- Plant	50 ₂	100 ppm	10.2	7.9	5.2	8.1	7.1	7.5
	-	NOx		17.1	23.8	31.7	23.3	25.7	20.1

Annexure 4: Flue Gas Stack Details

1. Flue Gas Stack And it's Emission Control Measures:

Sr No.	Stack Details	Capacity TPH/ Stack Ht in m	Parameter	Permissible limit	APCD	Fuel	
			РМ	100 mg/Nm ³			
1.	FBC boiler E1	34/56	SO ₂	600 mg/Nm ³	Electro Static	Coal/Lignite	
			NOx	600 mg/Nm ³	Precipitator	_	
			РМ	100 mg/Nm ³	Electro Static		
2	FBC boiler E2	34/56	SO ₂	600 mg/Nm ³	Precipitator	Coal/Lignite	
			NOx	600 mg/Nm ³	Flecipitatoi		
			РМ	100 mg/Nm ³			
3	FBC boiler E3	50/80	SO ₂	600 mg/Nm ³	Electro Static	Coal/Lignite	
			NOx	600 mg/Nm ³	Precipitator		
			РМ	100 mg/Nm ³			
4	FBC boiler W1	45/70	SO ₂	600 mg/Nm ³	Electro Static	Coal/Lignite	
			NOx	600 mg/Nm ³	Precipitator		
	Boiler (50 TPH2		PM	100 mg/Nm ³			
5	Nos) (New	50/106	SO ₂	600 mg/Nm ³	Electro Static	Coal/Lignite	
	boilers)W2,W3		NOx	600 mg/Nm ³	Precipitator	5	
			PM	150 mg/Nm ³			
6	Hot Oil Unit	H: 32.5	SO ₂	100 ppm	-	CNG	
	(Resorcinol Plant)		NOx	50 ppm	-		
			РМ	150 mg/Nm ³			
7	Hot Oil	H: 19	SO ₂	100 ppm	-	CNG	
	Plant shed-B		NOx	50 ppm			
	Hot Oil		РМ	150 mg/Nm ³			
8	Plant shed-B	H: 17	SO ₂	100 ppm	-	CNG	
	(Stand By)		NOx	50 ppm			
	Thermic fluid		PM	150 mg/Nm ³			
9	heater	H: 12	SO ₂	100 ppm	-	CNG	
	of DCO/DAP Plant		NOx	50 ppm			
	DG set 1010		PM	150 mg/Nm ³	Adequate stack		
10	KVA(Standby)	H: 10	SO ₂	100 ppm	Height	Diesel	
	,		NOx	50 ppm			
	DG set 1500		PM	150 mg/Nm ³	Adequate stack		
11	KVA	H: 11	SO ₂	100 ppm	Height	Diesel	
	(Stand By)		NOx	50 ppm			

2. Process Gas Stacks & Its Emission Control Measures:-

Sr No.	Stack Details	Stack Height (meters)	Parameter	Permissible Limit	APCD
			Atul East Site		
1	New Phosgene plant-Furnace	15	PM	150 mg/Nm ³	Alkali & Water Scrubber
2	New Phosgene plant - Reactor	15	CO Phosgene	 0.1 ppm	Alkali & Water Scrubber
		(Caustic Chlorine P		
3	Dechlorination Plant(Hypo unit)	35	Cl ₂ HCI	9 mg/Nm3 20 mg/Nm3	Alkali Scrubber
4	Common Stack of HCl Sigri unit	25	Cl ₂	9.mg/Nm3	Alkali Scrubber
4	1& 2		HCI	20 mg/Nm3	Alkuli Scrubbel
	Ι	Su	lfuric Acid (East Si	,	T
5	Sulfuric Acid plant	30	SO ₂ Acid Mist	2.0 kg/T 50 mg/Nm3	Water Scrubber With DCDA System
6	Chloro Sulfonic Acid plant	11	Cl ₂	9mg/Nm3	Caustic And Water
0	reactor	11	HCI	20mg/Nm3	Scrubber
	1		FCB Plant	1	
7	Foul Gas Scrubber	26.5	SO ₂ NOx	40mg/Nm3 25mg/Nm3	Caustic scrubber
			Incinerator		
			PM	150mg/Nm3	- Alkali& water
8	Incinerator	40	SO ₂ NOx	40mg/Nm3 25mg/Nm3	- scrubber
	·	·	NI Plant	·	
9	Foul Gas	26.5	SO ₂	40mg/Nm3	Caustic scrubber
	Scrubber	20.0	NOx	25mg/Nm3	
		1	NBD Plant	Γ	Γ
10	Spray Dryer	21	PM	150mg/Nm3	Water Scrubber
11		25	NOx	25mg/Nm3	Counting on the set
11	Scrubber S-902 Scrubber S-	25	Phosgene HCI	0.1 ppm 20mg/Nm3	Caustic scrubber
12	801/802	25	NOx	25mg/Nm3	Caustic scrubber
	1	2-4-	D & related Produ	icts:	1
13		5	Cl ₂	9mg/Nm3	Caustic scrubber
-		-	HCI	20mg/Nm3	

33	Sulphur Black Plant	19	H ₂ S NH ₃	 175 mg/Nm3	Alkali & Water Scrubber
32	Flavors & Fragrances Plant	21	HCI	20mg/NM3	W ater Scrubber followed by caustic scrubber
31	Scrubber	21	Phosgene	0.1 ppm	Scrubber
21	MPP Plant	ე1	HCI	20mg/Nm3	Water & Alkali
30	Central Scrubber MCPA Plant	19	НСІ	20mg/Nm3	Caustic Scrubber
29	Stack at Amine Plant	5	NH₃	175 Mg/Nm3	Caustic Scrubber
28	Pyrathroids	19	HCI	20mg/Nm3	Scrubber
		10	SO ₂	40mg/Nm3	Alkali & Water
27	Imidacloprid	20	NH ₃	175 mg/Nm3	Water Followed By Acid Scrubber
26	Fipronil	19	HCI	20mg/Nm3	Scrubber
			SO ₂	40mg/NM3	Alkali& Water
20	IVICTA	19	HCI SO ₂	20mg/NM3 40mg/NM3	Scrubber
25	МСРА	19		9 mg/NM3	Alkali& Water
			Other	0 0 0	
24	Scrubber at Ester plant for Glyphosate	12	Formaldehyde	10mg/Nm3	water scrubber
23	Scrubber vent	15	SO ₂	40mg/NM3	Caustic scrubber
22	Spray dryer	20	PM	150 mg/Nm ³	water scrubber
			Resorcinol Plant		Γ
21	Central scrubber at Nico Plant	12	Acetonitrile		water scrubber
			NICO Plant:		
20	Central Scrubber at MPSL	7	Phosgene	0.1 ppm	Caustic scrubber
19	Phosgene Scrubber at MPSL	7	Phosgene	0.1 ppm	Caustic scrubber
	, ,		MPSL Plant:	L	1
18	Dryer-5				
17	Dryer-4		compound		Caustic scrubber
15 16	Dryer-2 Dryer-3	26.5	Pesticide	20mg/Nm3	Cyclone, Bag Filter,
14	Dryer-1		PM with		Scrubber
	Scrubber; 2,4D Plant		Phenol		Bag Filter, Water
			Phenol		

			NH ₃	175 mg/Nm3	Alkali & Water Scrubber
	· · ·		Atul West Site	·	
35	Shed A05/03/44	19	Cl ₂	9 mg/NM3	Caustic Scrubber
55	511eu A05/05/44	19	HCI	20 mg/NM3	
36	Shed B2/12/24	19	Cl ₂	9 mg/NM3	Caustic Scrubber
20	Reaction Vessel	19	HCI	20 mg/NM3	
	Shed B18/02/24		SO ₂	40 mg/NM3	
37	Fan	19	Cl ₂	9.0mg/Nm3	Caustic Scrubber
	i dii		HCI	20 mg/Nm3	
38	Shed C5/20/15	19	Cl ₂	9 mg/NM3	Alkali& Water
50	Chlorinator	15	HCI	20 mg/NM3	Scrubber
39	Shed D Niro Spray dryerNo.45	19	РМ	150 mg/Nm ³	W ater Scrubber
40	Shed D Niro Spray dryer No. 50	19	PM	150 mg/Nm ³	Water Scrubber
41	Shed E 7/12/49 Spray Dryer	19	PM	150 mg/Nm ³	Water Scrubber
40	Shed F 6/1/15	10	Cl ₂	9 mg/NM3	Alkali& Water
42	Reaction Vessel	19	HCI	20 mg/NM3	Scrubber
43	Shed G 10/8/1	19	CI ₂	9 mg/NM3	Alkali& Water
45	(receiver)	19	HCI	20 mg/NM3	Scrubber
44	Shed H11/6/17	19	Cl ₂	9 mg/NM3	Alkali& Water
44	Chlorinator	19	HCI	20 mg/NM3	Scrubber
	Shed K K-13/3/4		SO ₂	2 kg/Т	Alkali& Water
45	Final of Sulfuric acid plant	19	Acid Mist	50 mg/NM3	Scrubber
46	Shed J15/09/25	19	HBr		Alkali& Water
40	Shed J15/09/25	19	SO ₂	40 mg/NM3	Scrubber
			SO ₂	40mg/NM3	Alkali& Water
47	Shed J12/01/42	19	Cl ₂	9.0mg/Nm3	Scrubber
			HCI	20 mg/Nm3	JUIUDEI
48	Shed J12/03/36	19	SO ₂	40 mg/NM3	Caustic Scrubber
49	Shed N Scrubber	19	CI ₂	9 mg/NM3	Caustic Scrubber
79	Fan N20/08/24	19	HCI	20mg/Nm3	
50	Shed N Scrubber Fan N20/02/41	19	SO ₂	40mg/NM3	Alkali& Water Scrubber

			North Site:		
			PM	150 mg/Nm ³	
	N-FDH Plant		SO ₂	40mg/Nm3	
51	Catalytic	31.5	NOx	25mg/Nm3	Bag Filter
	Incinerator		Formaldehyde	10mg/Nm3	
52	PHIN Plant	15.5	Phosgene	0.1 ppm	Water Scrubber Followed By Two Stage Caustic Scrubber With Ammonia/Steam Injection At stack
53	DDS (Pharma Plant)	20	NH ₃	175mg/Nm3	Water Followed By Acid Scrubber
54	SPIC II Plant (DCDPS)	30	SO₃		Alkali & Water Scrubber
55	SPIC Plant	30	NH ₃	175mg/Nm3	Water Scrubber Followed By Two Stage Caustic Scrubber With Ammonia/Steam Injection At Stack
5.0			NH₃	175mg/Nm3	Alkali & Water
56	SPIC IV Plant	2	SO ₃		Scrubber
			HCI	20mg/Nm3	Water Scrubber
57	PHIN II Plant	21	Phosgene	0.1 ppm	Followed By Two Stage Caustic Scrubber W ith Ammonia/Steam injection At Stack

Annexure 5: Details of Solvent Storage							
Sr No.	Name of Hazardous Substance	Quantity		Place of	State &		
		Max. qty. can be stored	Qty. stored	its Storage	Operating Pressure & Temp.	Type of Hazard	Control Measures Provided
1	Methanol (Group 5 - 2)	470 MT	350 MT	Methanol Storage Tank Farm	Liquid at RT atmos. pressure	Fire	Flame arrester, earthing dyke wall to over ground Tank fire water
2	Benzene	180 MT	100 MT	Resorcinol	Liquid at RT atmos. pressure	Fire	Isolated storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
3	Xylene	60	30	MPSL- NICO Plant	Atmospheric Normal Temp.	Fire	Dyke wall, Fire hydrant line, FLP, Spark arrester, Prohibited for vehicle movement &unauthorized person.
4	Methanol	650 m ³	50 m ³	Methanol Tank farm north site.	Liquid at RT, atmos. Pressure	Fire & Toxic spill	Isolated storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
5	Toluene	40 m ³	30 m ³	Phin & PO plant	Liquid at RT, atmos. Pressure	Fire	Isolated storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
6	Toluene	120 KL	100 KL	Shed C	Atmo. Press and temp.	Fire &Chemi cal spillage	Underground tank, prohibited are, FLP, foam trolley etc.
7	Ethanol /Methanol	51 KL	40 KL	Shed N & A	Atmo. Press and temp.	Gas leakage, Spill	Respirators, Dry Sand, Dyke wall, spare tank
8	MCB	105 MT	100 KI	Shed C	Atmo. Press and temp.	Fire &Chemi cal spillage	Underground tank, prohibited are, FLP, foam trolley etc.

Annexure 6: All Hazardous materials other than solvent are stored with details along with control measure

Sr No.	Name of RM	МОС	Tank type	Nos of tank	Capacity	Control Measures Provided
1	65% Oleum	MS, IS- 2825	Above ground	2	65 MT	Dyke wall with valve, do not allow the spill to mix with water, vent with Acid seal, spare storage tank for emergency transfer, Dry sand beds for spill Control, tank level meter
2	Chlorine	CS	Above ground	4	200	Two standby tank, DCS controlling, Hypo scrubbing, SCBA, Emergency chlorine kit & hood blower etc.
3	Epichloro- hydrin	MS	Above ground	6	55 M ³	Flame arrester earthing, dyke wall with valve which do not allow liquid spill to go to normal drain.
4	Sulphur Trioxide (Group 2)	MS	Above ground	2	13 MT	Dyke wall with valve, with valve do not allow the spill to mix with water, vent with Acid seal, spare storage tank for emergency transfer
5	Ammonia Anhydrous	MS	Above ground	1	10	High Alarm switch Water sprinkler, Fog Nozzles, Dyke wall
6	65% Oleum	MS	Above ground	2	72	Respirators, Dry Sand, Dyke wall, Spare tank, High alarm switch
7	Caustic	MS	Above ground	4	530 MT	Dyke wall, LI & LT, DCS controlling etc.
8	Hydrogen	MS	Above ground	1	100 nm³	Prohibited for men & vehicle movement, Isolated storage, FLP , Flam arrester, PG & PT, Fire hydrant, 7 Fire extinguisher etc.
9	Chloro Sulphonic Acid	SS 316	Above ground	4	30	Respirators, Dry Sand, Dyke wall, spare tank
10	Sulfuric acid	MS	Above ground	4	800	Emergency tank, Dyke wall, LT, DCS controlling, Level alarm etc.
11	Liq. SO₃	MS	Above ground	3	40 MT	Emergency tank, LT & LI, DCS controlling, Level alarm etc.
12	HCI	PP FRP	Above ground	3	200 KL	Dyke wall, LI & LT, DCS controlling etc.

Mitigation Measures as per risk assessment report:-

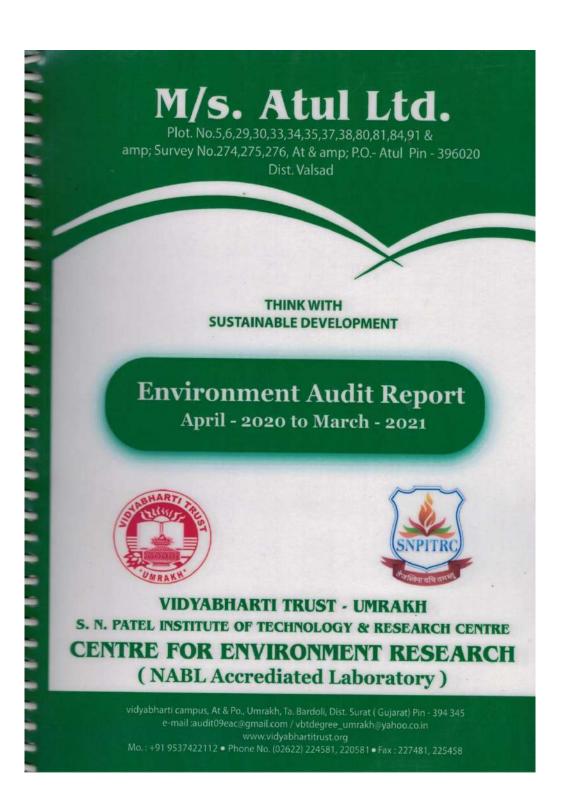
- Secondary Containment to all storage areas of Hazardous materials with leakage collection system is provided.
- Spill kits are made available at all locations of hazardous materials.
- Fire hydrant system is provided at Hazardous materials storage area.

Annexure 7: CSR Activities

Project | Activity Outlay for the year Implementing No. Program Location District agency Budget Spent (State) (A) (B)(C) (D) (E) (G) 1 Education Enhancement of education Valsad Atul 24.00 24.00 Foundation practices in Kalyani Shala (Gujarat) 2 Support to tribal children in Atul Valsad Atul 3.75 3.75 Foundation Vidyamandir (Gujarat) 3 Improvement of teaching Valsad Atul methodology for primary school 57.50 57.50 Foundation (Gujarat) children - Adhyapika project 4 Support to develop a school in a Navasari Atul 5.00 5.00 Foundation tribal area (Gujarat) 5 Valsad Atul Enhancement of rural education 6.25 6.25 Foundation (Gujarat) 6 Ahmedabad Atul Conservation of manuscripts 10.00 10.00 Foundation (Gujarat) 7 Empowerment Empowerment of women through Valsad Atul 5.00 5.00 Foundation various vocational training courses (Gujarat) Skills training to youth as 8 Valsad Atul Ltd. 110.17 110.17 apprentices (Gujarat) 9 Capacity building of tribal farmers Valsad Atul 3.00 3.00 Foundation in beekeeping (Gujarat) 10 Health Valsad Atul Nutrition Garden Project 12.00 12.00 (Gujarat) Foundation 11 Enhancement of rural health Valsad Atul 6.50 6.50 through health camps (Gujarat) Foundation 12 Relief Valsad Support to disaster relief for Atul 20.00 20.00 Foundation COVID-19 pandemic (Gujarat) 13 Valsad 300.00 Atul Ltd. Contribution to PM Cares Fund 300.00 (Gujarat) 14 Valsad Atul Provision of fertilisers to farmers 2.50 2.50 Foundation (Gujarat) 15 Infrastructure Valsad Atul Infrastructure development 44.59 44.59 Foundation activities in villages (Gujarat) 16 Valsad Construction of white topping road 554.28 554.28 Atul Ltd. (Gujarat) 17 Conservation Establishment of solid waste Valsad Atul 10.00 10.00 management system in Atul village (Gujarat) Foundation 18 Valsad Implementation of afforestation 4.31 Atul Ltd. 4.31 initiatives (Gujarat) 19 Valsad Atul Conservation of water in villages 2.91 2.91 Foundation (Gujarat) Total direct expenditure 1181.76 1181.76 Administrative overheads (OH) 59.59 59.59 Total (direct expenditure + OH) 1241.35 1241.35

CSR activity report 2020-21

Annexure 8: Abstract of Environmental Audit Report



OBSERVATION

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Company has done outstanding work to control COVID 19 infection by devising operational and systematic controls. Compliance more than the government COVID 19 guidelines was observed during all the three visits. Company has prepared and implemented its own stringent guidelines to control COVID 19 and to keep their employees and family safe in this difficult time.

It has been observed that company is having policy to donate and provide all the possible help to their neighbouring community and nation at large during all such natural calamities.

Company has donated total Rs. 5 Cr in PM & CM relief fund in addition to the distribution of kits worth 50 lacs to the needy people in the neighbouring villages as well as migrant labours.

Company has applied for EC for expansion project and 50 MW CPP project. Public Hearing for both the projects have been completed successfully complying with COVID 19 guidelines.

Company has received registration certificate as brand owner by CPCB under plastic waste Management rules, 2016 and started collecting and disposing plastic as per the plan.

Company has installed South ETP which is under commissioning stage.

Company has undertaken ZLD project for North ETP.

Company has received CTE (EC to CTE) for its expansion and 50 MW CPP projects.

5 S drive is going on in later and spirit and hence overall housekeeping was found satisfactory.

Company is submitting quarterly reports on CPCB portal for its captive TSDF. Company is also submitting quarterly calibration reports of OCEMS to CPCB.

Company has submitted annual returns like Form IV, Form V, Form 3 for E-waste, Form 4 for BMW and Form VIII for Batteries within the stipulated time frame.

Company is regularly submitting EC compliance report and also uploading the same on its website.



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RECOMMENDATIONS

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Company shall prepare an action plan for the points emerged during the public hearing.

Company shall obtain fire NOC renewal as per the amended regulations

- Company shall upgrade its coal | fly ash handling system for betterment.
- Company shall install new Ambient Air Monitoring system |station
- Company shall install digital display board at the gate as per the NGT order.

Company shall have membership of common facilities | pre | co processors for disposal of Hazardous wastes.

Company shall plan for above ground effluent network at other sites also in phased manner.



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M/s Atul Ltd., Valsad

ANNEXURE-32 COMPLIENCE REPORT

Sr. No.	NOC/Consent	Has Valid Consent/ Authorization	Complying With Standards And Other Conditions
(A)	Compliance Report of water as per Water Act, 1974: If NO, comment:	Yes, Consent No. AWH-105110 is valid upto 30/09/2025	Complied
(B)	Compliance Report for Air as per Air Act, 1981:If NO, comment:		Complied
(C)	Compliance Report for the storage and handling of hazardous waste/chemicals under The Hazardous Waste (Management and Handling) Rule,1989 & EPA-86 If NO, comment:	Council of the and	Complied

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UMRAKH Tal. Bardo Dist. Sum Annexure 9 : Environmental protection measures and safeguards proposed in the project

Sr No.	Potential impact	Action to be followed	Parameters for monitoring	Frequency of monitoring	Status of Compliance
1	Air Emission	Adequate stack height APCM-Multi Cyclone & Scrubber is provided as APCM AAQ within the project premises and nearby habitations to be monitored. All vehicles to be PUC certificate	SPM, RSPM, SO2 and NOx, Vehicle logs to be maintained.	Monthly through external agency NABL Approved	Stack and APCM details are provided in EC Compliance Point No.4 of Conditions. Quality of gaseous emission and AAQ
2	Noise	Noise generating from operation of boiler, cooling towers &plant & M/c area to be monitored.	Spot noise level Recording	Monthly through NABL Approved external agency	Carried out at the periphery Of whole plant premises
3	Waste Water Discharge	Compliance to the wastewater discharge standards complete effluent treatment Plant- Primary + Secondary & MEE, ZLD is achieved	pH, TSS, TDS, COD, BOD, Oil & Grease	Monthly through NABL Approved external agency	Discharge effluent is analyzed on daily basis.
4	Solid/ Hazardous Waste	Check compliance of HWM rules	Quantity and quality monitoring	Periodically	Details are provided in EC Compliance Point No.10 of specific conditions
5	Non routine events and accidental release	Plant drawn, considering likely emergencies and steps required to prevent/limit consequences.	Mock drills and records of the same.	Periodic during process activities	Every year 4nos. mock drills carried out in the premise on rotational basis covering all plants.
6	Green Belts	Vegetation, green belt development	More than 50,000 Trees Near	Once a year	Green belt area is about 36% land area. Total area: 1126078.27 sq.mt Green belt area: 409030.00 sq.mt