

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 17.01.1998. Report Period: April 2020- September 2020

No.	Condition	Compliar	nce				
1	The Company shall strictly adhere to all the provisions of	Complied	1 .				
	CRZ notification of 1991 and subsequent amendments.	Details a	re given below in the table:				
		No.	Clause under CRZ notification	Compliance			
		1	in setting up and expansion of industries, operations or processes in CRZ.				
		2 List of prohibited activities Noted within CRZ.					
		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	Complied	1 .				
	stipulated by the Gujarat Pollution Control Board in their Consent order.	acts. Stip and the	pany complies with all stipulated r pulation made in CCA by GPCB same is certified by the extern	are being complied nal agency, i.e. our			
		Chemica	nental auditors appointed b nental audit report by Shroff S R I Technology (SRICT), Bharuch fo as Attachment 1.				
3	The company shall discharge the treated effluent meeting	Complied					
	the norms prescribed by GPCB						

Sum Sr.	nary is given below: Parameter	Limit	Values	for the	period	
No.	Fuluinetei		Values for the period Apr. 20 - Sep. 20			
			Min.	Max.	Avg.	
1	рН	5.5-9.0	7.35	7.95	7.598	
2	Temperature (°C)	40	31.7	33	32.22	
3	Colour (pt. co. scale)in units		50	65	57	
4	Suspended solids (mg/l)	100	48	92	71.4	
5	Phenolic Compounds (mg/l)	5	0.035	0.085	0.049 8	
6	Cyanides (mg/l)	0.2	ND	ND	ND	
7	Fluorides (mg/l)	2	0.45	0.68	0.556	
8	Sulphides (mg/l)	2	1.1	1.6	1.36	
9	Ammonical Nitrogen (mg/l)	50	22	39.8	30.76	
10	Total Chromium (mg/l)	2	ND	ND	ND	
11	Hexavalent Chromium (mg/l)	1	ND	ND	ND	
12	BOD (3 days at 27°C) (mg/l)	100	41	55	47.8	
13	COD (mg/l)	250	144	180	162.8	
being GPCE Institu	effluent quality at the f monitored by the Envir 3. Latest environmental ute of Chemical Techno -20 is attached as Attac	ronmenta audit rep plogy (SF	I audito ort by S	rs appo hroff S F	inted by R Rotary	
The river water quality at the discharge point is regularly being monitored by GPCB. Agencies like NIO, Pollucon Laboratories Pvt. Ltd- MoEF approved agency, Envision Enviro Technologies Pvt. Ltd –NABET accredited have also done the monitoring during the years.						
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 4/4/17.
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 4/4/17.
7	The company shall submit an Environmental Audit Report every year.	Complied . Latest environmental audit report by Shroff S R Rotary Institute of Chemical Technology (SRICT), Bharuch for year 2019-20 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 22.12.98. Copy already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
9	Any additional conditions which may imposed from time to time.	Noted and will be complied.

Sr. No.	Parameter			Results			GPCB
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	Limits
1	рН	7.3	7.6	7.9	7.4	7.5	5.5 to 9.0
2	Temperature (°C)	32	33	32.5	31.7	31.9	40°C
3	Colour (pt. co. scale)in units	60	50	65	50	60	
4	Suspended solids (mg/l)	48	64	78	92	75	100
5	Phenolic Compounds (mg/l)	0.03	0.04	0.08	0.04	0.03	5
6	Cyanides (mg/l)	ND	ND	ND	ND	ND	0.2
7	Fluorides (mg/l)	0.5	0.6	0.5	0.4	0.5	2
8	Sulphides (mg/l)	1.4	1.1	1.5	1.2	1.6	2
9	Ammonical Nitrogen (mg/l)	30	22	28	34	39.8	50
10	Total Chromium (mg/l)	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium (mg/l)	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C) (mg/l)	55	45	50	41	48	100
13	COD (mg/l)	180	156	172	144	162	250
Note: N	D is Not Detectable.						

Table 1: Quality of treated effluent

Note: Kindly note that due to COVID 19 pandemic and lockdown conditions, production plants remain closed for almost all time in April 20. Hence utility consumption was at the lowest and off line monitoring through outside agency could not take place.

Annexure 1: GPCB results for treated effluent water

WATER / WAST		AMPLE	Near Ho	GIDC Vapi tel Pritam		
Sample ID:286666 - An				pi - 396 19: 0) 2432089		
Dyes and Dye- Interm	ediates / LAB	Inward : 53386	Tele.(oat	(0) 245200.		
		TEST REPORT				
Test Report No. : 53386			Date: 04	4/09/2020		
1. Name of the Customer	: Atul L	imited - 23158				
2. Address	9, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc., AT	& P.O.ATUL, Dist. V	alsad, Pir			
	ATUL	-396020, Taluka : Valsad, District : Valsad, GID0	C : Not In Gide			
3. Nature of Sample	: REP-F	Representative/Grab, (Insp Type : ROU-Routine	Visit)			
4. Sample Collected By	: C.C P	atel,SO				
5. Quantity of Sample Received	: 5 lit					
6. Code No. of the Sample	: 286666	6				
7. Date & Time of Collection & Inwarding	: 19/08/	2020 , (1130 to 1130) & 20/08/2020				
8. Date of Start & Completion of Analysis	: 20/08/2	2020 & 03/09/2020				
9. Sampling Point	: From	Final outlet of central ETP ~				
10. Flow Details (Remarks)	: yes					
11. Mode of Disposal	: Into es	stuary of River Par				
12. Ultimate Receiving Body	: Estuar	ry zone of river par				
13. Temperature on Collection	: 29 &	pH Range on pH Strip :@ 7 to 8 On pH strip				
14. Carboys Nos for	: barcoo	le & Color & Appearance : Brownish				
15. Water Consumption & W.W.G (KLPD)	: Ind :2	3726.000 , Dom :938.000 & Ind :21727.000 , Don	n :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	29		
2 pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi 2012	1 – 14 pH value As or	7.18		
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/I Gravimetric method. (2540 C APHA Standard Method 10 – 200000 mg/L 5800					
5 Suspended Solids	mg/I Gravimetric method. (2540 D APHA Standard Method 2 - 10000 mg/L 52					
6 Ammonical Nitrogen	mg/l	1). Titrimetric method (4500 NH3 B & C APHA Standar		5.04		
7 Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard M	1 - 50000 mg/l	1190		

Liquid - Liquid Partition Gravimetric method. (5520 B 01 - 1000 mg/l 10 Oil & Grease mg/l 4 Amino Antipyrene method without Chloroform Extra 0.1 - 50 mg/l 11 Phenolic Compounds mg/l APHA (22nd Edi.)4500-s2-F -lodometric Method 12 Sulphide mg/l 1-500.0 mg/l 13 B.O.D (3 Days 27oC) 3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmer 05-50000 mg/l mg/l

APHA(22nd edi)4500 SO4 E

APHA (22nd Edition)- 5220 B Open Reflux Method-2 5.0- 50000 mg/l

Laboratory Remarks : freeze By:335-vig_335 Dt : 04/09/2020

H. M. Ganvit,SSO

2177

208

1.6

0.257

0.8

48

2-40mg/l

Field Observation :

8 Sulphate

9 Chemical Oxygen Demand

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.

mg/l

mg/l

- 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,
 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

04/09/2020



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: April 2020- September 2020

No).	Condition	Com	oliance							
	Α.	Specific 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 to time.	vario throu Deta	gaseous emiss	nits confirm: n below Tabl	s to the sto e:		and particulate matters from ndards prescribed by GPCB			
			No.	Parameter	Standard	Unit	Value	s for the p	period		
					values as			0- Sep 20			
					per CCA	() 1 2	Min.	Max.	Avg.		
			1	SO ₂	40	mg/Nm ³	5.3	36.4	22.8		
			2	SO ₂ (kg/T)	2	kg/T	0.6	1.7	1.2		
			3	NOx	25	mg/Nm ³	7.7	23.2	18.4		
			4	HCI	20	mg/Nm ³	3.1	18.2	9.4		
			5	PM	150	mg/Nm ³	0.95	63.8	39.05		
			6	PM with Pesticide compound	20	mg/Nm ³	6.2	18.9	11.1		
			Sumr	mary of Flue S Parameter	stack results Standard values as	:: Unit	Values f Apr 20-	or the pe Sep 20	riod		
					per CCA		Min.	Max.	Avg.		
			1	PM	100	mg/Nm ³	50.8	86	68.7		
			2	PM (New Boiler)	50	mg/Nm ³	37	46.1	42.18		
			3 SO ₂ 600 mg/Nm ³ 109 163 130						130.6		
			4	NOx	600	mg/Nm ³	106	198	133.5		
			5	NOx (NewBoiler)	300	mg/Nm ³	92	160	124.8		

		Details of stack see pg. no.17)	results fo	r the compliance period is given in Table 1 . (P	기.				
		conditions, proc 20. Hence utility	Note: Kindly note that due to COVID 19 pandemic and lo conditions, production plants remain closed for almost all time 20. Hence utility consumption was at the lowest and off line mo through outside agency could not take place.						
	At no time, the	Complied.							
	emission levels should	complica.							
	go beyond the stipulated standards.	Monthly monito agencies.	ring is be	ing done by GPCB approved, NABL approved	d				
	supulated standards.	0	emission	s exceeded the prescribed limits during repor	rt				
		Summary of sta	ick results	given in specific condition no. i as above.					
	In the event of failure	Complied.		given in specific condition no. I do doove.					
	of pollution control								
	system(s) adopted by	No such case he	appened o	during compliance period.					
	the unit, the								
	respective unit should not be restarted until								
	the control measures								
	are rectified to								
	achieve the desired								
	efficiency.	Comuliad							
ii	Ambient air quality monitoring Station	_	au ality ma	nitoring Station have been set up in down wind	Ч				
	should be set up in			ere max. Ground level concentration of SPN					
	down wind direction			on with GPCB. The same had been shown to					
	as well as where max.	-		3 & MoEF during their visit to our factory.					
	ground level	List of our ambi		nitoring station is given below:					
	concentration of SPM		No.						
	anticipated in consultation with the		1	66 KVA GEB substation Opposite Shed D					
	state pollution control		3	West Site ETP					
	board.		4	North site ETP					
			5	Near TSDF					
			6	Near Main Guest House					
			7	At Wyeth Colony					
			8	Gram panchayat hall					
			9	Near Main office, North site					
			10	Haria Water tank					

iii	Fugitive emission in work zone	Complied.									
	environment, product, raw material storage areas must be regularly monitored.	storage are The maximutime the em	Fugitive emissions in the work zone environment and raw material storage area is being regularly monitored by NABL approved third party. The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summery is given below:								
		Plant	Area	Parameter	Prescribed Limit	Values of VOCs in Milligram per NM ³ for the period Apr 20- Sep 20					
		2,4 D	Reactor	Phenol	19	Min. 10.3	Max. 18.5	Avg. 14.98			
			Buffer tank	Chlorine	3	0.8	2.6	1.57			
		Resorcinol	Benzene storage tank area near vent	Benzene	15	5	9.4	7.28			
			Near Extraction /scrubber unit	Butyl acetate	-	495	740	572.6			
		Pharma	At second floor work area	Ammonia	18	ND	ND	ND			
			Ammonia recovery area	Ammonia	18	ND	ND	ND			
		Epoxy - I	At vacuum pump 2nd floor	ECH	10	2	6.9	4.08			
			At vessel POS 1208 G.F	ECH	10	2.4	8.2	4.92			
		Shed H	At second floor work area	Nitrobenzen e	5	1.3	4.4	2.96			
		Shed J	Buffer Tank	Chlorine	3	1.7	2.1	1.9			

The company should	Complied.
install alkali scrubbers	
for scrubbing of HCl.	Alkali scrubbers for scrubbing of HCl have been installed. In fact we have installed dual scrubbing system i.e. combination of caustic and water scrubber system for scrubbing of HCl in majority of plants like 2,4 D plant, Shed C, Shed F, Shed H etc.
pH of the scrubber	Complied.
tank should be monitored regularly.	pH of the scrubber tank is monitored regularly and logged. It is a regular operating practice.
Liquid effluent	Complied.
generated from the scrubber should be sent to effluent treatment plant.	Liquid effluent generated from the scrubber is being sent to ETP along with plant effluent stream.
All the process	Complied.
equipment/reaction vessels should be connected with central exhaust system.	Central exhaust system has been provided at strategic locations and the critical operations evolving the hazardous gases are routed through multiple stage scrubbing system.
Further measures	Complied.
should be taken to reduce the losses of solvents.	Reactors are connected to chilled brine condenser system. Breather valves have been provided to all solvent storage tanks.
Cooling arrangement	Complied.
should be made for all the solvent storage tanks to minimize evaporation losses.	Our Most of solvent storage tanks are underground. All the storage tanks are in close loop which is connected to condenser to minimize evaporation losses.
The company should monitor VOCs from	Complied.
the incinerator and data submitted regularly to SPCB and Ministry of Environment and forests.	Incinerator stack has been regularly monitored and data submitted regularly to GPCB and MoEF through six monthly EC compliance report. Details of stack results for the compliance period is given in Table 1 . (Pl. see pg. no.17)

iv	The effluent generation should not exceed 1191 m3/day (936 m3/d of process effluent and 255 m3/d of domestic effluent).	request to co According to dated11.02.2 20,514 m³/d.	nsider la specific 2019. Inc wastew reak up	atest figur condition dustrial M ater gene is given b	res give n of EC Vaste w	n in same F No. J 110 vater gene	o. J 11011/108/2015-IA-II-(I) or generation shall not exceed he report period is 7324 m³/day				
		<mark>m³</mark> Month wise	50730	304178	23922:	3 251128	250420	248678	13443 57		
		Per day	1691	9812	7974	8101	8078	8289	Avg. 7324		
		The maximur time the was Summary is g Wastewate generation	generati low:	Stipulated Values for the period							
		Wastewater generation r		2051	4	Min. 1691	Max. 9812	Avg. 7324			
	The effluent should be segregated at source of generation.	Complied. Concentrated through recov		•	0	and chem	iicals are	being re	etrieved		
	The Concentrated effluent stream should be incinerated and non-concentrated effluent after tertiary treatment should be discharged into the CETP.	Complied. Among the referred expansion project, only one stream from 2, 4 concentrated. We have installed distillation plant where the stread distilled and product so obtained are sold. After recovery of product, effluent is sent to ETP where it is treated without any difficulty. Hence incineration is required.						ream is ict, lean			

The treated effluent	Compli	ed.								
should be discharged										•.
into estuary zone of		•			•				l board limi	
river Par through 4.0			•	arame	eters of tre	eated ef	fluent is	s give	en in Table	3.
km long HDPE pipe	(Pl. see	pg. no. 2	22)							
line only after it meets		_								
the standards				0					ns that at I	
stipulated by the Gujarat Pollution Control Board/EPA	given b	elow:		t beyo					Summary	IS
rules.	Sr.	Parame	eter		Norms	Val	ues for	the p	eriod	
	No.					Арг	20- Se	ep 20		
						Min	n. Mo	ax.	Avg.	
	1	рН			5.5-9.0	7.3			7.598	
	2	Temper			40 deg C	31.	7 33		32.22	
	3	Colour (pt. co. s	scale)		50	65)	57	
	4	Suspen		ids	100 mg/l		92		71.4	
	5	Phenoli			5 mg/l	0.0	35 0.0	085	0.0498	
	6	Compo Cyanide			0.2 mg/l	ND	NE)	ND	
	7	Fluoride			2 mg/l	0.4			0.556	
	8	Sulphid			2 mg/l	1.1	1.6		1.36	
	9	Ammor Nitroge			50 mg/l	22	39	.8	30.76	
	10	Total Cl		n	2 mg/l	ND	NE)	ND	
	11	Hexava Chromiu			1 mg/l	ND	NE)	ND	
	12	BOD (3 27°C)		t	100 mg/l	41	55)	47.8	
	13	COD			250 mg/l	144	1 18	0	162.8	
The domestic waste	Compli	ed.								
water should be disposed off through septic tank / soak pit	Domes for furt	tic waste her treatr	ment.	0	to septic t neration is				ntly in to El	ΤP
system.	Dome								20 Total	
	gener m³	ation								
		n wise	2757	1173	1 10560	11087	10489	106	77 57301	
	Per do	ау	92	378	352	358	338	356	6 Avg. 312	

		The maximum, minimum and average values are given below:						
		Domestic Wastewater generation	Values 1 Apr 20-	for the peric Sep 20	d			
			Min.	Max.	Avg.			
		Domestic Wastewater generation m³/d	92	378	312			
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 aquatic life.	Complied . We have set up a separate onlir ETP.	ne fish pon	d using trec	ated effluent at our			
	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	int be The effluent quality at the ETP discharge point is regular monitored by the Environmental auditors appointed by GPCB. by GPCB also monitor the treated effluent quality at regular Recent monitoring results of GPCB is attached as Annexure 1. The river water quality at the discharge point is regularly being r by GPCB. Agencies like NIO, Pollucon Laboratories Pvt. Li approved agency, Envision Enviro Technologies Pvt. Ltd accredited have also done the monitoring during the years.						
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.	P ETP waste is disposed into our TSDF instead of incineration for which have taken permission from MoEF vide letter dated May 6, 2004 same is also approved by GPCB through our CCA. We also send incinerable waste for co-processing as per GPCB approval given thro our CCA.						
	The ground water quality in and around the unit and the hazardous waste	Complied . Ground water quality is being a unit and the hazardous waste st						

	storage site should be regularly monitored and the data recorded to ensure that there is no contamination of the groundwater.	<text></text>
vii	The destructive efficiency of the incinerator should be assessed by an agency like CPCB and a report submitted to the Ministry.	Complied . The destructive efficiency of the incinerator was assessed by M/s. SGS, a reputed agency in field on environmental monitoring. Report already submitted vide our letter Atul/SHE/MoEF/Visit/3 dated 4.4.17.
viii	The company should comply with the provisions of coastal Regulation Zone Notification of 1991 and Coastal Zone Management Plan of Gujarat.	Complied.
	Further, specific conditions stipulated by the Forest and Environment Department, Government of Gujarat vide its letter No. ENV-1097-2942- P dated 27th January, 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.	Complied. Detailed compliance report is already submitted to the Ministry vide our letter our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.

ix	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Complied. Occupational health surveillance of the workers is being done on regular basis and record maintained as per the factory act. Details for report period is shown in below table: Pre-Employment Check-Up (In-house):					
		SNEmployee1Staff2Operators3Workers	Qty 2688	Check-up Pre-Employment			
		Annual Medical Check-SNEmployee1Staff2Operators3Workers	Up: Qty 1024	Check-up Annual Checkup			
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.	capacity pond to harve cater our consumption of water during the rair and pumping facility t	st rain water. with rain harv ny days. Besid o harvest rair ım on top of d	sting pond capacity to 14 We are creating facility/ cap vested water with zero rive les this, there are three chea n water. We are also cons am towards the end of mor ter in river Par.	pacity to r drawls ck dams structing		

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.	Complied. The survey was carried out to assess the impact of emission/pollutants on the health including respiratory & digestive systems of population within & vicinity of the plant. So far no major illness have been identified. Report submitted vide our letter ref. Atul/MoEF/Reg/4 dated August 16, 2004.
xii	The Company should developed a green belt in an 25% of the plant area as per the CPCB guidelines.	Complied . Company has developed green belt and dense plantation inside the factory in area more than 33 % of total land. Company is having green belt development plan and planting more than about 50000 plants per year on regular basis.
xiii	As per the policy decision taken vide this Ministry's circular no. J-21011/8/98- IA II (I) dated 14th May 2002 and 23rd June, 2003, the company shall earmark a separate fund i.e. 1% of the total cost of the project (Rs. 25 Crores) for eco-development measures including community welfare measures in the project area.	Complied. We had submitted the Eco fund earmarked for eco development to GPCB with an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated May 17, 2004. Action plan related to Eco-fund also made as per process and communicated to authority wide our letter Atul/ECC/GPCB/ECO-fund/2 dated 2.11.2004. Copy of same again submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated April 4, 2017.
	The amount shall be deposited within three months in a separate account to be maintained by GPCB.	Complied . We had submitted the Eco fund earmarked for eco development to GPCB with an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated May 17, 2004.

	The plans in this regard should be submitted to the SPCB as well as to the Ministry within three months of issue of this letter. After approval of the action plan by GPCB, the amount deposited will be released to the project authorities in two installments based on the progress of implementation.	Complied. Action plan related to Eco-fund also made as per process and communicated to authority vide our letter Atul/ECC/GPCB/ECO-fund/2 dated 2.11.2004. Complied.
B.	. General Conditions	
İ	The project authorities must strictly adhere to stipulations made by GPCB.	Complied. The company adheres to the compliances and has not exceeded the stipulation. This has been certified by our Environmental auditors, an authorized agency and nominated by GPCB; through Environmental audit every year. Excerpts of latest environmental audit report by Shroff S R Rotary Institute of Chemical Technology (SRICT), Bharuch for year 2019-20 is attached as Annexure 2.
ii	At no time, the emissions should not go beyond standards.	Complied. Monthly monitoring is being done by NABL approved third party. At no time, the emissions exceeded the prescribed 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 of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Complied. No such incident happened during compliance period.

iii	The overall noise level in and around the	Compli	Complied.								
	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.		Acoustic hood, silencer and acoustic enclosures and insulation are provided at appropriate high noise area like turbine, DG set, vents etc.								
	The ambient noise	Compli	Complied.								
	levels should confirm to the standards	The am	bient noise level is regul	larly monitored	l and its	data are	aiven in				
	prescribed under EPA		and 5. (Pl. see pg. no.23		i unu its		given in				
	Rules, 1989, viz. 75		ximum values during the								
	(daytime) and 70bBA(night time)		time the noise emission level went beyond the stipulated standards. Summary is given below:								
		Noise level monitoring data (Day Time):									
			- · · ·	-	T						
		Sr. No.	Location	Permissible Limits, dBA		for the p - Sep 20					
				75	Min.	Max.	Avg.				
		1	Near Main guest house	75	61.20	63.60	62.20				
		2	Near TSDF	75	63.70	65.80	64.56				
		3	At Wyeth Colony	75	54.60	56.70	55.78				
		4	Gram Panchayat Hall	75	62.50	66.50	64.50				
		5	Near Main Office North site	75	60.20	64.70	62.54				
		6	ETP North site	75	64.50	69.80	67.02				
		7	Opposite shed D	75	64.80	71.30	68.88				
		8	ETP West site	75	64.50	67.60	65.88				
		9	Haria Water tank	75	61.20	64.30	62.62				
		10	66KVA substation	75	63.80	66.00	64.70				
				1							

		Noise le	vel monitoring data (Nigh	nt Time):				
		Sr. No.	Location	Permissible Limits, dBA		Values for the period Apr 20 - Se. 20		
				70	Min.	Max.	Avg.	
		1	Near Main guest house	70	52.10	54.40	52.92	
		2	Near TSDF	70	54.50	56.50	55.12	
		3	At Wyeth Colony	70	50.30	52.60	51.42	
		4	Gram Panchayat Hall	70	54.50	56.70	55.56	
		5	Near Main Office North site	70	53.70	58.50	56.62	
		6	ETP North site	70	54.20	57.30	55.56	
		7	Opposite shed D	70	56.50	58.70	57.74	
		8	ETP West site	70	55.10	56.80	55.94	
		9	Water tank Haria road	70	52.60	55.80	54.20	
		10	66KVA substation	70	55.10	57.30	56.38	
iv	The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and	Recurrin comply MoEF a	easures are already imple asures are already imple ng cost: A separate budge with all the legal requiren part from upkeep of pollut spenditure for the report p	et is being allo nent stipulated tion control sy	cated ev d by SPC stems ar	B, CPCB nd faciliti	&	
	Forest as well as the State Government along with the	Sr.No.	Parameter	Recurring For the rep Apr 20 – S	ort perio	-		
	implementation	1	Air Pollution Control	2069.24	•			
	schedule for all the conditions stipulated	2	Liquid Pollution Control					
	herein. The funds so provided shall not be	3	Environmental Monitoring and Management	19.05				
	diverted for any other purposes.	4	Solid waste Disposal	293.46				
	puipuses.	5	Occupational health	15				
		6	Green belt	5				
		Total		2401.75				

V	The project authorities	Complied.
	must strictly comply	
	with the rules and	The company complies with the rules and regulations with regard to
	regulations with	handling and disposal of hazardous wastes in accordance with the
	regard to handling	Hazardous and Other Wastes (Management and Transboundary
	and disposal of	Movement) Rules, 2016. We have valid authorization under our current
	hazardous wastes in	CCA No. AWH-105110 for handling, storage and disposal of hazardous
	accordance with the	waste. Stipulation made in CCA by GPCB are being complied. This has
	Hazardous Wastes	been certified by our Environmental auditors, an authorized agency and
	(Management &	nominated by GPCB; through Environmental audit every year.
	Handling) Rules,	Excerpts of latest environmental audit report by Shroff S R Rotary
	2003.	Institute of Chemical Technology (SRICT), Bharuch for year 2019-20 is
		attached as Annexure 2
	Authorization from	Complied.
	the GPCB must be	
	obtained for	We have valid authorization under our current CCA No. AWH-105110
	collections /treatment/	for handling, storage and disposal of hazardous waste.
	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
	data should be	submitted to the Ministry at Bhopal with copy marked to GPCB regularly.
	submitted to them	
	regularly.	
L	,	

vii	The Project Proponent shall inform the public	Complied.
	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 of Environment and Forest at http://www.envfor.ni.i n.	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their end.
	This shall be advertised within seven days from the date of issue of the 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.	Complied. Advertisement was published as directed and copy of the same was submitted to Ministry.

3.0	The ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Bhopal.	Noted.
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 and will be complied.
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.

Table: 1 Stack results

		-	in the protocol	MAY, 2020	JUNE, 2020	JULY, 2020	AUG, 2020	SEPT., 202
Details	of Process and Flue stack					1.1.1		
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		T	Limits	Value	276 2	Value	Value	Value
Atul East	Site							
1	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	32	40	58	41	33
		co		ND	ND	ND	ND	ND
2	Reactor (Phosgene plant- New)	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
	hlorine Plant		123.123	*	23.5.2			17.50
3	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	3.5	3.2	4.9	Not running	Not runnin
	A State of the second second	HCI	20.0 mg/Nm3	5.8	5.6	5.1	1	13.05
4	Common stack of HCl Sigri unit 1862	Cl ₂	9.0 mg/Nm3	8.4	4.9	7.1	4.1	6.6
	a stand and a stand of the	HCI	20.0 mg/Nm3	12.9	8.2	7.4	6.2	7.8
FCB Palnt	t				1			a state
5	Foul Gas Scubber	SO2	40.0 mg/Nm3	Not in use			1	1.2.2.2.2
		NOx	25.0 mg/Nm3		Not in use	Not in use	Not in use	Not in use
2		Ino.	2010 mg/ milio					
ESSERIE - CONTRACTOR	Acid (East Site)	A.C.I.		1.000		and the	No. No. V.	
6	Sulfuric Acid Plant	SO ₂ Acid Mist	2.0 kg/T 50.0 mg/Nm3	1.3	0.6	1.6 23.8	1.35	1.7
		Acid Mist	50.0 mg/ Nm3	29.5	11.3	23.8	13.8	18.2
7	ChloroSulfonic Acid plant reactor	Cl ₂	9.0 mg/Nm3	4.9	4.3	8.4	7.2	6.2
		HCI	20.0 mg/Nm3	5.3	13.6	8.6	7.4	6.4
Resorcing	ol Pinat				1.			C 1 2 1 2 2
8	Spray Dryer (Resorcinol Plant)	PM	150.0 mg/Nm3	25	27	38	0.95	2.95
9	Scubber vent (Resorcinol Plant)	SO2	40.0 mg/Nm3	32.7	8.3	30.1	33.6	29.3
-	and the second				010			
Incinerate								
10 Incinerator	Incinerator	PM	150.0 mg/Nm3	Not Runnig During Visit	43	53.1	63.8	54.1
		SO2	40.0 mg/Nm3	1.	12.2	18.6	11.7	14.2
		NOx	25.0 mg/Nm3	-	15.4	20.7	23.2	19.9
	A DAMAGE AND A DAMAG		solo mg/ mile		1011		2012	
NI Plant								
11	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	27.8	Not Runnig During Visit	31.6	28.6	24.2
		NOx	25.0 mg/Nm3	15.6		19.4	21.8	17.8
2-4-D Plan	at		10000					
12	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	8.1	5.4	5.2	7.1	5.1
- WA		HCI	20.0 mg/Nm3	8.3	7.3	5.1	7.3	7.3
		Phenol		ND	ND	ND	ND	ND
13	Dryer-1	Phenoi PM with	20.0 mg/Nm3	14.2	7.4	9.4	8.1	11.8
		Pesticide						
		compound	10.11.1.5	The Sector	1			
14	Dryer-2	PM with	20.0 mg/Nm3	16.8	6.8	10.1	8.2	9.8
		Pesticide compound	-		1.1.			
	a station of the second		alartaria bo			-		
15	Dryer-3	PM with	20.0 mg/Nm3	15.7	7.3	8.6	14.1	18.3
	In this part of the second second	Pesticide compound	1					and and
			La contra					
16	Dryer-4	PM with Pesticide	20.0 mg/Nm3	18.9	11.4	7.2	9.8	15.9
10		compound						
10								
			1.	-				
17	Dryer-5	PM with Pesticide	20.0 mg/Nm3	Not Runnig During Visit	9.2	Not running	6.2	10.3

NBD Plant .								
18	Spray Dryer	PM	150.0 mg/Nm3	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
		HCl	20 mg/Nm3	12.4	4.2	17.8	18.2	13.6
20	Scrubber S-801/802	NOx	25.0 mg/Nm3	12.2	7.7	24.8	18.7	23.1
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		r	Limits	Value	1 - 20 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Value	Value	Value
CP Plant							1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 - 1944 -	
21	MČPA	Cl ₂	9 mg/NM ³	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runnin
		HCl	20 mg/NM ³	During Visit	During Visit		1. 1. 1. 1.	
		SO2	40 mg/NM^3		Lane Call	and and and	1999	
22	Fipronil	SO ₂	40 mg/NM ³	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
	The second second second	HC1	20 mg/Nm3		During Vian			
23	Imidacloprid	NHa	175 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
24	Pyrathroids	SO2	40 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
		HCI	20 mg/Nm3					
25	Stack at Amine Plant	NHa	175 mg/Nm3	108.0	16.3	Not Runnig	136	115
MPSL Plant								
26	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
NICO plant				1				
28	Central scrubber at Nico Plant	Acetonytryl e, IPA						
Ester Plant							201,8412,5	
29	Scrubber at Ester plant for Glyphosate	Formaldeh yde	10 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runniş
30	Central Scrubber MCPA Plant	HC1	20 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnij
31	MPP plant scrubber	HCl	20 mg/Nm3	13.1	Not Runnig	13.2	9.8	12.4
		Phosgene	0.1 ppm	ND	During Visit	ND	ND	ND
Atul West S	Site			1			Long State	
32	Shed A05/03/44	CI ₂	9 mg/NM ³	5.1	7.3	6.3	Not Runnig	Not Runnin
		HCI	20 mg/NM ³	5.24	11.3	6.2	See .	
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	7.8	5.3	7,4	8.4	Not Runnin
		HCI	20.0 mg/Nm3	10.3	8.2	7.5	8.6	
34	Shed B18/02/24 Fan	502	10 (1)143	36.4	14.2	21.6	5.38	24.8
	Sucu Dio/02/24 Pan	Cl ₂	40 mg/NM^3	7.7	5.6	8.8	5.2	7.1
		HCI	9 mg/NM^3	7.9	7.3	9	9	8.3
35	Shed C5/20/15 Chlorinator	Cl ₂	20 mg/NM ³ 9.0 mg/Nm3	Not Runnig	6.3	8.4	Not Runnig	Not Runnir
	shed C5/20/10 Chlorinator	HCI	20.0 mg/Nm3	During Visit	12.1	8.1		
36	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	Not Runnig	43	53.8	37.6	Not Runnir
		-		During Visit				
	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	44.6	51.2	Not Runnii
37		1.1.1.1.1.1.1	1.					
37	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runni
37	Shed E 7/12/49 Spray Dryer	РМ	150.0 mg/Nm3			Not Runnig	Not Runnig	Not Runnii
	Shed E 7/12/49 Spray Dryer Shed F F6/1/15 Reaction Vessel	PM Cl ₂ HCI	150.0 mg/Nm3 9.0 mg/Nm3 20.0 mg/Nm3			Not Runnig 8.1 8.4	Not Runnig 8.1 8.3	Not Runnir 6.5 14.8

40	Shed G 10/8/1 (receiver)	Cl ₂ HCI	9.0 mg/Nm3 20.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Running
41	Shed H 11/6/17 chlorinator	CL	9.0 mg/Nm3	6.9	2.2	7.9	7.3	3.5
**	Shed H 11/0/17 Chlorinator	Cl ₂ HCI	20.0 mg/Nm3	14.2	3.3 8.1	7.6	14.4	14.4
40		0.0	0.01.10				1.05	1.0
42	Shed K K-13/3/4 Final of Sulfuric acid plant	Acid Mist	2.0 kg/T 50.0 mg/Nm3	Not Runnig During Visit	0.6	1.6 2.8	1.25 3.9	1.3
43	Shed J15/09/25	HBr		Not Runnig	Not Runnig	ND	ND	Not Running
	•	SO2	40 mg/NM ³	During Visit	During Visit	16.8	23.9	
		1.	and the second	1.2.1				1 second set
Sr. No.	Stack Details	Paramente r	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
44	Shed J12/01/42	SO ₂	40 mg/NM ³	21.8	Not Runnig	26.4	20.3	29.7
		CI2	9.0 mg/Nm3	5.9	During Visit	5.4	8.1	5.2
	Contraction of the second	HCI	20.0 mg/Nm3	6.1		13.8	8.3	5.34
45	Shed J12/03/36	SO ₁	40 mg/NM ³	Not Runnig	Not Runnig	21.8	29.9	22.3
		HCI	20.0 mg/Nm3	During Visit	During Visit	17.2	14.8	13.9
46	Shed N Scrubber Fan N20/08/24	CI2	9 mg/NM ³	5.7	8.4	3.9	6.2	5.9
		HCl	20 mg/NM ³	5.85	14.2	12.8	6.4	11.1
47	Shed N Scrubber Fan N20/02/41	SOg	40 mg/NM ³	29.8	11.6	20.6	26.1	24
48	Sulfer Black Plant	H_2S		Not Runnig	ND	24.8	ND	ND
	The second second second second second	NH ₃	175 mg/NM ³	During Visit	17.5	19.4	98	105
49	Sulfer Dyes plant	H ₂ S		Not Runnig	ND	19	ND	ND
		NHa	175 mg/NM ³	During Visit	11.3	30.4	33.1	37.2
50	Flavors & Fragrances Plant	HCI	20 mg/NM ³	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
Atul North	Site							-
51	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
	The second second second	SO2	40.0 mg/Nm3					
		NOx	25.0 mg/Nm3		Sec. and			
		Formaldeh	10.0 mg/Nm3	and the second		1		a la come
52	PHIN Plant	Phosgene	0.1 ppm	Not Runnig	ND	ND	ND	ND
		2		During Visit			and the second	
53	PHIN-II Plant	HCI	20 mg/NM ³	5.2	7.3	7.4	5.8	3.15
54	DDS Plant (Pharma Plant)	NH ₃	175 Mg/Nm3	Not Runnig During Visit	43.2	Not Runnig	Not Runnig	Not Runnin
55	SPIC II Plant (DCDPS)	SO ₃	1.1.1.1	. 25.4	ND	15.1	ND	ND
56	SPIC I Plant (DCDPS)	NH ₃	175 mg/Nm3	140	62.4	13.1	120	126
57	SPIC IV Plant	NH ₃	175 mg/NM ³	140	69.6	58	63	92
-		SO ₃		15.1	4.3	15.8	ND	ND
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		r	Limits	Value	Contained Forme	Value	Value	Value
East site					and a start		1.1.1.5×102.4	ALC USE
1	FBC boiler El	PM	100 mg/Nm3	62	80	61.6	Not Runnig	71
		SO ₂	600 mg/Nm3	111	121	144		142
2		NOx	600 mg/Nm3	106	106	138	Con Constraint	176
2	FBC boiler E2	PM	100 mg/Nm3	not running during this	86	71.8	64.1	Not Runnin
	A CONTRACTOR OFFICE	SO ₂ NOx	600 mg/Nm3 600 mg/Nm3	month	110	126	134 110	
			our mg/rand	Section 2	110	121	110	-
3	FBC boiler E3	PM SO ₂	100 mg/Nm3 600 mg/Nm3	not running during this	78	66.2 136	76.1 140	50.8
					116			163

		NOx	600 mg/Nm3		124	130	126	198
4	Hot Oil Unit	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
	(Resorcinol Plant)	SO,	100 ppm	month	ND	ND		
12.1		NOx	50 ppm		28	31		
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	Stand by	Stand by	38.6	44.6	36.4
1	Contraction of the second	SO2	100 ppm	1.2.4.4		5.2	4.9	6.2
1.44		NOx	50 ppm	S. C. S.		46.4	48.2	41.7
West Sit	te	Ster St.	1 3 3 3 A C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 - No. 14	1.12.73	19.9	1999 (S. 197
6	FBC boiler W1	PM	100 mg/Nm3	* 54.8	59	62.4	83.6	71.8
	ALL SALES AND ALL	SO2	600 mg/Nm3	120	123	124	156	156
		NOx	600 mg/Nm3	126	119	119	122	198
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
1		SO2	100 ppm	month	ND	ND		
1.5.5		NOx	50 ppm		23	26		
8	Oil burner Shed B	PM	150.0 mg/Nm3	Stand by	Stand by	Not Runnig	Not Runnig	Not Runnig
055	(Stand By)	SO2	100 ppm		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	20.000	12 2 12	
		NOx	50 ppm	1.11.1.1				
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	41.9	37	44.7	41.2	46.1
		SO2	600 mg/Nm3	109	113	132	140	128
		NOx	300 mg/Nm3	92	108	128	136	160
		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	Stand by	Stand by	32.4	30.8	53.8
	(Stand By)	SO ₂	100 ppm	1.2.3		4.4	5.2	7.2
1213		NOx	50 ppm			42.8	42.4	36.8
North Si	ite	- ALCON		15000				1. JU
11	Thermic fluid heater of	PM	150.0 mg/Nm3	not running during this	ND	43.6	33.8	54.2
	DCO/DAP Plant	SO ₂	100 ppm	month	ND	14.8	9.8	16.2
		NOx	50 ppm		29	30.1	21.6	24.8

Note: Kindly note that due to COVID 19 pandemic and lockdown conditions, production plants remain closed for almost all time in April 20. Hence utility consumption was at the lowest and off line monitoring through outside agency could not take place.

Plant	Area	Parameter	Prescribed Limit	Results	of VOCs ir	n Milligraı	m per NM	1 ³
				May 20	Jun 20	Jul 20	Aug 20	Sep 20
2,4 D	Reactor	Phenol	19	14.8	17.2	14.1	10.3	18.5
	Buffer tank	Chlorine	3.0	1.1	0.8	1.25	2.1	2.6
Resorcinol	Benzene storage tank area near vent		15	8.9	6.2	9.4	5	6.9
	Near Extraction/scru bber unit	Butyl acetate	-	518	546	495	564	740
Pharma	At second floor work area	Ammonia	18	ND	ND	ND	ND	ND
	Ammonia recovery area	Ammonia	18	ND	ND	ND	ND	ND
Epoxy - I	At vacuum pump 2nd floor		10	6.9	3.1	2	3.6	4.8
	At vessel POS 1208 G.F	ECH	10	8.2	6.2	3.9	2.4	3.9
Shed H	At second floor work area	Nitrobenzene	5	3.9	3.1	4.4	1.3	2.1
Shed J	Buffer Tank	Chlorine	3	ND	ND	2.1	1.7	ND

Table 2: Fugitive Emission Monitoring details

Table 3: Quality of treated efflu	uent
-----------------------------------	------

Sr. No.	Parameter	Results	;				GPCB Limits
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	
1	рН	7.35	7.65	7.95	7.48	7.56	5.5 to 9.0
2	Temperature °C	32	33	32.5	31.7	31.9	40 oC
3	Colour (pt. co. scale)	60	50	65	50	60	
4	Suspended solids, mg/l	48	64	78	92	75	100
5	Phenolic Compounds, mg/l	0.035	0.045	0.085	0.048	0.036	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	0.55	0.68	0.55	0.45	0.55	2
8	Sulphides, mg/l	1.4	1.1	1.5	1.2	1.6	2
9	Ammonical Nitrogen, mg/l	30	22	28	34	39.8	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	55	45	50	41	48	100
13	COD, mg/l	180	156	172	144	162	250
Note	ND is Not Detectable.			·	·	•	·

Sr.	Location		No	oise Leve	l, dBA		Permissible
No.		May 20	Jun 20	Jul 20	Aug 20	Sep 20	Limits, dBA
1	Near Main guest house	61.20	62.30	61.40	62.50	63.60	75
2	Near TSDF	63.70	64.80	63.70	64.80	65.80	75
3	At Wyeth Colony	56.40	55.50	54.60	55.70	56.70	75
4	Gram Panchayat Hall	62.50	63.60	64.50	65.40	66.50	75
5	Near Main Office North site	60.20	61.30	62.70	63.80	64.70	75
6	ETP North site	65.60	66.50	64.50	68.70	69.80	75
7	Opposite shed D	64.80	68.40	69.50	70.40	71.30	75
8	ETP West site	64.50	65.00	67.60	65.40	66.50	75
9	Water tank Haria road	62.10	61.20	62.30	63.20	64.30	75
10	Near 66KVA substation	64.70	63.80	64.00	65.00	66.00	75

Table 4: Noise level monitoring data (Day Time)

Table 5: Noise level monitoring data (Night Time)

Sr. No.	Location		No	ise Level,	dBA		Permissible Limits, dBA
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	
1	Near Main guest house	52.10	53.30	52.40	52.40	54.40	70
2	Near TSDF	54.50	55.60	54.50	54.50	56.50	70
3	At Wyeth Colony	52.50	51.40	50.30	50.30	52.60	70
4	Gram Panchayat Hall	56.50	55.60	54.50	54.50	56.70	70
5	Near Main Office North site	53.70	57.30	56.80	56.80	58.50	70
6	ETP North site	57.30	56.20	54.80	54.20	55.30	70
7	Opposite shed D	58.50	57.40	56.50	57.60	58.70	70
8	ETP West site	56.50	55.60	55.10	55.70	56.80	70
9	Water tank Haria road	55.80	54.30	52.60	53.70	54.60	70
10	Near 66KVA substation	57.30	56.20	55.10	56.20	57.10	70

Annexure 1 : GPCB Result

ANALYS WATER / WAS	IS REPORT I	NUMBER OF STREET		Board, Vapi GIDC Vapi, otel Pritam.
Sample ID:286666 - /	Sample ID:286666 - Analysis Completion:03/09/2020			
Dyes and Dye- Inter	mediates / LAB	Inward : 53386	Tele:(02	60) 2432089
		TEST REPORT		
Test Report No. : 53386			Date: 0	4/09/2020
1. Name of the Customer	: Atul I	limited - 23158		
2. Address	: 5, 6, 2	9, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, et	c., AT & P.O.ATUL, Dist.	Valsad, Pin
	ATUL	-396020, Taluka : Valsad, District : Valsad,	GIDC : Not In Gide	
3. Nature of Sample	: REP-1	Representative/Grab, (Insp Type : ROU-Ro	outine Visit)	
4. Sample Collected By	: C.C P	atel,SO		
5. Quantity of Sample Received	: 5 lit			
6. Code No. of the Sample	: 28666	6		
7. Date & Time of Collection & Inwarding	: 19/08/	2020 , (1130 to 1130) & 20/08/2020		
8. Date of Start & Completion of Analysis	: 20/08/	2020 & 03/09/2020		
9. Sampling Point	: From	Final outlet of central ETP ~		
10. Flow Details (Remarks)	: yes			
11. Mode of Disposal	: Into e	stuary of River Par		
12. Ultimate Receiving Body	: Estua	ry zone of river par		
13. Temperature on Collection	: 29 &	pH Range on pH Strip :@ 7 to 8 On pH str	·ip	
14. Carboys Nos for	: barco	de & Color & Appearance :Brownish		
15. Water Consumption & W.W.G (KLPD)	: Ind :2	3726.000 , Dom :938.000 & Ind :21727.000	, Dom :939.000	
Sr Parameter	Unit	Test Method	Range of Testing	Result
1 Temperature	Centiorade	IS: 3025 (Part - 9) - 1984/Reaffirmed 2006)	Ambient oC - 60 oC	29

Parameter	Unit	Test Method	Range of Testing	Result
Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	29
pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1-14 pH value As or	7.18
Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	85
Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 - 200000 mg/L	5800
Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 - 10000 mg/L	52
Ammonical Nitrogen	mg/l	1). Titrimetric method (4500 NH3 B & C APHA Standar	1 - 2000 mg/l.	5.04
Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	1190
Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	2177
Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	208
Oil & Grease	mg/l	Liquid - Liquid Partition Gravimetric method. (5520 B	01 - 1000 mg/l	1.6
Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra-	0.1 - 50 mg/l	0.257
Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F -lodometric Method	1-500.0 mg/l	0.8
B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	0550000 mg/l	48
	Parameter Temperature pH Colour Total Dissolved Solids Suspended Solids Ammonical Nitrogen Chloride Sulphate Chemical Oxygen Demand Oil & Grease Phenolic Compounds Sulphide B.O.D (3 Days 270C)	Temperature Centigrade pH pH Units Colour Pt Co. Sc. Total Dissolved Solids mg/l Suspended Solids mg/l Ammonical Nitrogen mg/l Chloride mg/l Sulphate mg/l Chemical Oxygen Demand mg/l Oil & Grease mg/l Sulphide mg/l	Temperature Centigrade IS: 3025 (Part - 9) - 1984(Reaffirmed 2006) pH pH Units 4500 H+ B APHA Standard Methods 22nd edi.2012 Colour Pt.Co.Sc. 2120 B APHA Standard Methods 22nd edi.2012 Total Dissolved Solids mg/l Gravimetric method. (2540 C APHA Standard Methods Suspended Solids mg/l Gravimetric method. (2540 D APHA Standard Method Ammonical Nitrogen mg/l 1). Titrimetric method. (4500 DH-B & CAPHA Standard Method Chloride mg/l Argentometric method. (4500 CI? B APHA Standard Method-2 Sulphate mg/l APHA(22nd edi)4500 SO4 E Chemical Oxygen Demand mg/l APHA(22nd Edition)- 5220 B Open Reflux Method-2 Oil & Grease mg/l Liquid – Liquid Partition Gravimetric method. (5520 B Phenolic Compounds mg/l 4 Amino Antipyrene method without Chloroform Extra-	Temperature Centigrade IS: 3025 (Part – 9) – 1984(Reaffirmed 2006) Ambient of – 60 of C pH pH Units 4500 H+ B APHA Standard Methods 22nd edi.2012 1 – 14 pH value As or Colour Pt Co.Sc. 2120 B APHA Standard Methods 22nd edi.2012 2 - to 99 Hazen & 1-50 Total Dissolved Solids mg/l Gravimetric method. (2540 C APHA Standard Method 10 – 200000 mg/L Suspended Solids mg/l Gravimetric method. (2540 D APHA Standard Method 2 - to 99 Hazen & 1-50 Ammonical Nitrogen mg/l Gravimetric method. (2540 D APHA Standard Method 2 - 00000 mg/L Suspended Solids mg/l Mg/l Gravimetric method. (2540 D APHA Standard Method 2 - 00000 mg/L Ammonical Nitrogen mg/l 1). Titrimetric method (4500 NH3 B & C APHA Standari 1 - 20000 mg/L Sulphate mg/l Argentometric method. (4500 Cl? B APHA Standari 1 - 50000 mg/l Chemical Oxygen Demand mg/l APHA(22nd edi)4500 SO4 E 2-40mg/l Chemical Oxygen Demand mg/l APHA (22nd Edition)- 5220 B Open Reflux Method-2 (50- 500000 mg/l Oil & Grease mg/l Liquid – Liquid Partition Gravimetric method. (5520 B

Laboratory Remarks : freeze By:335-vig_335 Dt.: 04/09/2020

H. M. Ganvit,SSO

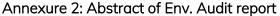
Field Observation :

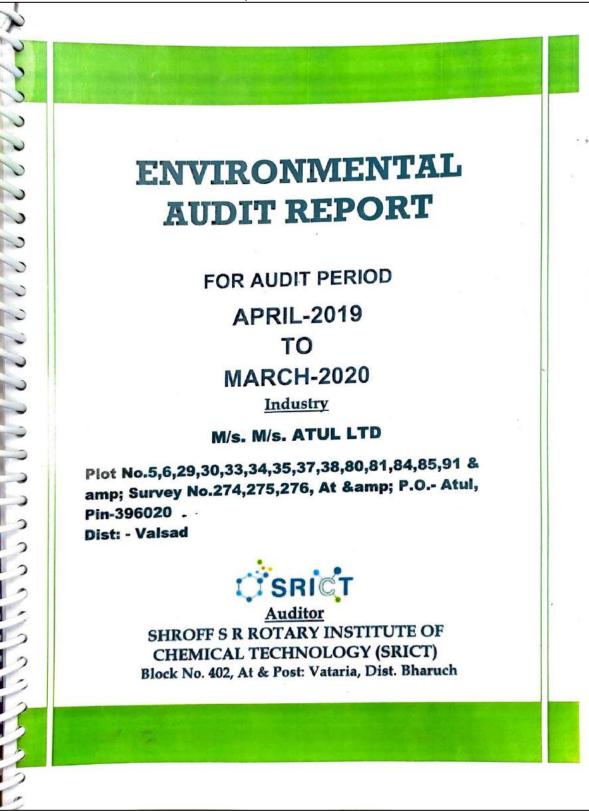
Note :

- 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.
 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.

NIC

04/09/2020





M	arch 2019 - April 2020 M/s.Atul Ltd, Valsad.
C	DBSERVATION:
3	 Industry has valid CC&A number AWH-105110 which shall be valid up to 30/09/2025.
>	The water and fuel consumptions are within the limits.
2	Total Production of the industry increased up to 8.65 % in year 2019-20 from the previous audit ye 2018-19.
2	Electricity consumption increased up to 1.21 % in year 2019-20 from the previous audit year 2018-1
	Water consumption is decreased up to 7.64 % in year 2019-20 from the previous audit year 2018-1
	This indicates the various efforts of water conservation taken by the company.
	Wastewater generation is also decreased up to 2.63 % in year 2019-20 from the previous audit ye
	2018-19. - Company has received certified compliance report for its recent Environmental Clearance f
а. К. т.	expansion of existing production and addition of new products.
	Company has applied for 50MW CPP.
>	a non-tractic constraint in the second
-	Company has a proper platform with electrical connection for ambient air monitoring.
>	Record of the data of CETP chemical, Water consumption and Wastewater generation are maintaining
	regularly.
>	Overall housek eening is satisfactory:
~	Company has initiated construction of one more ETP having capacity 450 KLD to treat segregate
	steam from Pharmaceutical intermediate plan.
-	Letter has provided PPE in all the unit and used well in different area of working.
>	Stock identification at site is done for most of the stack. It shall be done for remaining stacks also.
7	the time dural production is within the consented quantity given by GPCB.
2	Industry has appointed full time doctor and adequate facility for treatment within the premises.
Ď	a semmendations:
N	the treated effluent monitoring system.
2000	a shall repair and/or make asphalt concrete/RCC roads to minimize and/or make asphalt concrete/RCC roads to minimize and/or
۶.	
>0	Company shall obtain stability certificate for its TSDF site. Company shall plan for ZLD for the ongoing South ETP project for Pharmaceutical intermediate pla
2	Company shall plan for La
	stream. Company shall provide proper identification plat with information regarding limits and stack in all t
2	Company shall provide property
	north and west site plant. Company shall update its online OCEMS facility in phase wise manner for auto calibration for stacks
2	Company shall update its online OCLAND INFO TO THE CELL ENVIRONMENT AUDIT CELL 7 of 177

_	rch 2019 - April 2020			COM	M/s.Attul Ltd, Valsad. ANNEXURE – 30 IPLIANCE REPORT			
Sr.No.	CONS	ENT REQUIRE	MENT		COMPLIANCE STATUS			
1	Consent No. AWH - 16.11.2019	sent No. AWH - 105110 dated						
2	Validity up to 30.9.2025 Production capacities 478922.004 TPA]	of differen	nt products	[Total	Complied			
pecifi	c Condition	8	· · · ·	1				
	The unit shall manufacture having multilevel of safety	the Phosgene g provisions.	gas in fully automa	ated plant	Complied.			
	Unit will utilize the generation for captive purpo	se only	as immediately afte		Complied			
÷	Unit shall establish and m mock drill as per period dec	ided		1	Complied.			
	Unit shall submit production	Complied.						
	Unit shall install new 4 Km pipeline for disposal of treat the identified point by NIO.	ed waste water in			Complied.			
2 5 2	Unit shall use pipeline in ca maintenance only when old get prior permission from pipeline	unit shall	Complied.					
	Unit shall comply und the board.	ertaking dated	: 08/07/2016 give	en with	Complied.			
	Unit shall comply coal han management, spent acid ma		spent solvent hand	ling and	Complied.			
3. Соп	dition under the water (pre	vention and con	trol of pollution)A	ct 1974 .				
÷	Particulars	Actual	Consented					
3.1	Water Consumption (Industry + domestic)	9371 KL/Day	28358 KL/Day		Complied.			
	Industrial effluent (Low + High COD)	8643 KL/Day	24096 KL/Day					
	Sewage generated	365 KL/Day	939 KL/Day		5			
3.2	Total quantity of effluent g other ancillary operation sha			ess and	Complied			

March 2019 - April 2020 wi/s.Atul Ltd, Valsad. 20514 KLD (excluding quantity of M/s. Atul Bioscience Ltd. =438.63 33 KLD) waste water shall be treated in ETP and then discharged into par Complied river through 4 km Pipeline. 1000 KLD waste water shall be sent to RO/MEE. 800 KLD RO permeates shall be recycled into cooling tower. 200 KLD RO reject shall be sent to MEE. 190 KLD recovered MEE water shall be recycle into cooling tower. 10 MT MEE salt shall be sent to TSDF. 2500 KLD waste water shall be sent to RO/MEE. 2000 KLD RO permeates shall be Complied. 3.4 recycled into cooling tower. 150 KLD RO reject water shall be utilized for quenching/Ash cooling. 350 KLD RO reject shall be sent to MEE. 345 KLD recovered MEE water shall be recycled into Boiler. 5 MT MEE salt shall be sent to TSDF. 82 KLD high COD waste water shall be sent to incinerator. The quantity of the domestic waste water (sewage) shall not exceed 322 KI.D. Trade Efiluent 35 The treated effluent from the industrial unit shall conform to the GPCB Complied. norms mentioned in table no. 3.6 3.6 All efforts shall be made to remove Colour & unpleasant odor as far as Complied practicable. The final treated effluent from central ETP confirming to the above standard shall be collected in the guard pond and then discharged 37 Complied through closed pipeline to estuary zone of river Par via diffuser. Domestic effluent shall be sent to ETP. Complied. 3.8 4. CONDITION UNDER (PREVENTION AND POLLUTION) ACT 1981: THE CONTROL OF AIR (a) The table no. 4.1(a) shall be used as fuel. 4.1 (b) The table no. 4.1(b) shall be used for captive power consumption. Fuel consumption figures for boilers /Heaters Consumption for 2019-20 Fuel: Ouantity/year (MT) Coal 299614.8 Complied 4.1a 56763.89 Lignite 356378.7 Total 9135 Ltr/Year Diesel captive power of boilers for Noted List 4.1b consumption The applicant shall install & operate air pollution control system in Complied order to achieve norms prescribed in table no. 4.3 4.2 The flue gas emission through stack attached to boiler shall confirm to the Complied. standard mentioned in table. 4.3 The process emission through various stack / vent of reactors process, Complied. vessel shall confirm to the standards mentioned in 4.4 4.4) ENVIRONMENT AUDIT CELL 173 of 177 SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATARIA 2

4.5	The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack / vent with height of more than 9 ,meters from the ground level) shall not exceed the levels mentioned in table no. 4.5	Complied.
4.6	The applicant shall provide portholes, ladders, platform etc. at chimney(s) for monitoring the air emission and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.	Complied
4.7	The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB (a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and night time is reckoned between 10 p.m. and 6 a.m. NERAL CONDITIONS:	Complied.
er on		
5.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	Noted
5.2	Management of Solid Waste generated from industrial activity shall be as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46).	, Noted
6. Au	thorization under Hazardous and other waste (management and trans	boundary Movement) Rules
2010	, Form-2 (See rule 6(2)) Number of authorization: AWH-105110, Date of issue: 16/10/2019	
6.1		Noted
6.2	Reference of application No. 163867 and date: 05/10/2019.	
6.3	M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad.	ж. ж
6.3	Haz. Waste disposal as stipulated.	Complied.
6.4	The authorization shall be valid for a period of 30/09/2025.	Noted
6.5	The authorization is subject to the following general and specific conditions:	
	specific conditions. eneral conditions under Hazardous and other Wastes (Manage ovement) Rules-2016;	ment and Transboundary
1.	The authorized person shall comply with the provision of the Environment (protection) Act, 1986, and the rules made there under.	Noted and Complied.
2.	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	Noted.
	ENVIRONMENT AUDIT CELL SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATA	RIA 174 of 177

3,	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	Noted and Complied.
4.	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted.
5.	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.	Complied.
6.	The person authorized shall comply with the provision outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"	Noted.
7.	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Noted.
8.	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.	Not Applicable as no Haz waste is imported.
9.	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Not Applicable as no Haz waste is imported.
10.	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific condition of authorization.	. Complied.
11.	The importer or exporter shall bear the cost of import and export and mitigation of damages if any.	Not Applicable as no Haz waste is imported or exported.
12.	An application for the renewal of an authorization shall be made as laid down under these Rules.	Noted
13.	Any other conditions for compliance as per the guidelines issued by the Ministry of the Environment, Forest and climate Change or Central Pollution Control Board from time to time.	Noted and will be complied.
14.	Annual return shall be filed by June 30 th for the period ensuring 31st March of the year.	Complied.
1. Sp	ccific Conditions: The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.	Noted.
2.	Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry into the passbook of the actual user.	Noted and complied.
3.	In case of renewal of authorization, a self- certified compliance report in respect of effluent, emission standard and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.	Noted.
5	ENVIRONMENT AUDIT CELL SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATAR	• RIA 175 of 177

• Mar	ch 2019 - April 2020	M/s.Atul Ltd, Valsad.
4.	The occupier of the facility shall comply standard operating procedure/ guidelines published by MoEF&CC or GPCB from time to time.	Complied.
5.	Unit shall comply provisions of E-waste (Management) Rules-2016.	Complied.
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20		
	나는 것 같은 것 같은 것 같은 것 같아.	
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	ENVIRONMENT AUDIT CELL	•



Atul Ltd

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: April 2020- September 2020

NL-			eptember 202							
No.	Condition		Compliance							
	ecific Condition		Comment's 1							
i		Waste	Complied.							
	water gene		<u>.</u>				0010	-		
	shall not e		Since we hav							
	17,283 m³/d.		to consider lo					•		
			of EC F No.				• •			Industria
			Waste wate	r gener	ation sr	nall not ex	ceed 20),514 m ^s ,	/day.	
			T 1				C			
			The average		-			• •		
			7324 m ³ /day	-	nich is v	weir with	n the lim	nt. Detan	break u	o is giver
			in below tabl	le:						
			Wastewater	- <u> </u>	May 20	2 10 20	1	Aug 20	San 20	Total
				Apr20	way zu	Jun 20	Jul 20	Aug 20	Sep 20	Total
			generation m³/day							
			Month	50720	20417	8239223	251120	250420	210670	1211257
			wise	50750	50417	0239223	201120	250420	240070	1344337
			Per day	1691	9812	7974	8101	8078	8289	A
			Per day	1091	9012	/9/4	8101	8078	0209	Avg. 7324
										7324
			time the wa Summary is g	stewat	er gene	0	•			
				stewat given b	er gene elow:	Stipulate	ent bey	ond the	stipulate	ed value
			Summary is g	stewat given b	er gene elow:	eration w	ent bey	ond the Values for Apr 20 –	stipulate	riod
			Summary is g	stewat given b	er gene elow:	Stipulate	ent bey	ond the	stipulate	ed value
			Summary is g Wastewate Wastewate	stewat given b e r gener	er gene elow: ration	Stipulate	ent bey	ond the Values for Apr 20 –	stipulate	ed value. riod
			Summary is g	stewat given b e r gener	er gene elow: ration	Stipulate	ent bey	ond the Values for Apr 20 – Min.	stipulate or the pe Sep 20 Max.	riod
			Summary is g Wastewate Wastewate	stewat given b e r gener	er gene elow: ration	Stipulate	ent bey	ond the Values for Apr 20 – Min.	stipulate or the pe Sep 20 Max.	riod
			Summary is g Wastewate Wastewate m³/d	stewat given b e r gener er gener	er gene elow: ration ration	Stipulate value 20514	ent bey	Values for Apr 20 – Min. 1691	stipulate or the pe Sep 20 Max. 9812	riod Avg. 7324
			Summary is g Wastewate Mastewate m ³ /d	stewat given b er gener er gener note t	er gene elow: ration ration	Stipulate value 20514 e to CO	ent bey ed	Values for Apr 20 – Min. 1691 pandem	stipulate or the pe Sep 20 Max. 9812 ic and le	riod Avg. 7324
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p	stewat given b er gener er gener note t roductio	er gene elow: ration ration chat du on plan	Stipulate value 20514 e to CO ts remain	ent bey ed	Values for Apr 20 – Min. 1691 pandem	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdown e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdown e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	ed value riod Avg. 7324 ockdowr e in Apri
			Summary is g Wastewate Mastewate m ³ /d Note: Kindly conditions, p 20. Hence uti	stewat given b er gener er gener note t roducti	er gene elow: ration ration that du on plan sumptio	Stipulate value 20514 e to CO ts remain	vID 19 closed	Values for Apr 20 – Min. 1691 pandem for almo est and o	stipulate or the pe Sep 20 Max. 9812 ic and le st all tim	riod Avg. 7324 ockdowr e in Apri

23 m³/d High COD	Complied.			
effluent shall be	•			
incinerated.	to consider latest figure No. viii) of EC F Ne "Industrial/trade efflue Low COD/TDS efflue through stripper follow Low TDS effluent st prescribed standards Accordingly the High now 291 m ³ /d and 82 We have been segred same is being taken effluent of COD <200 All the high COD street than incineration. St Solvents, Phenolics, a	res given in s b. J 11011/1 ent shall be s ent streams. wed by MEE ream shall E ream shall E a." n TDS and Hi L m ³ /d respec gating high CO for recovery 0 ppm is fina ams are being reams contai etc. are taker is no High C	ame. Accord 08/2015-IA segregated High TDS and ATFD Be treated igh COD w tively. OD streams to get ecord ly sent to E g diverted to ining Ammon for the reaction OD Waste	o recovery system rathe onia, Methanol, Coppe covery of the same an water stream remainin
97 m ³ /d High TDS	Complied.			
97 m³/d High TDS effluent shall be evaporated through MEE	As stated above, the	high TDS wo Detail break u Break up o High	aste water up is given in of effluent K Low	1/Day Total Effluent
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period.	high TDS wo Detail break u Break up o High	aste water up is given i of effluent K	was evaporated in ME n below table: 1/Day Total Effluent generation
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period.	high TDS wo Detail break u Break up o High	aste water up is given in of effluent K Low	was evaporated in ME n below table: I/Day Total Effluent generation 1691
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period. Sr. No. Month	high TDS wo Detail break u Break up o High TDS/COD	aste water up is given in of effluent K Low TDS/COD	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period. Sr. No. Month <u>1 April-20</u>	high TDS wo Detail break u Break up o High TDS/COD 12.7	aste water up is given in of effluent K Low TDS/COD 1678.3	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812 7974
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period. Sr. No. Month <u>1 April-20</u> 2 May-20	high TDS wo Detail break up High TDS/COD 12.7 74	aste water up is given i of effluent K Low TDS/COD 1678.3 9738	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812 7974 8101
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period. Sr. No. Month 1 April-20 2 May-20 3 June-20	high TDS wo Detail break up o High TDS/COD 12.7 74 95	oste water up is given i of effluent K Low TDS/COD 1678.3 9738 7879	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812 7974 8101 8078
effluent shall be evaporated	As stated above, the average 96.78 m ³ /d during report period. Sr. No. Month <u>1 April-20</u> 2 May-20 3 June-20 4 July-20	high TDS wo Detail break up o High TDS/COD 12.7 74 95 128 142	oste water up is given i of effluent K Low TDS/COD 1678.3 9738 7879 7879	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812 7974 8101
effluent shall be evaporated	As stated above, the average 96.78 m³/d during report period. Sr. No. Month 1 April-20 2 May-20 3 June-20 4 July-20 5 August-20	high TDS wo Detail break up High TDS/COD 12.7 74 95 128 142 129	aste water v up is given in of effluent K Low TDS/COD 1678.3 9738 7879 7879 7973 7936 8160	was evaporated in ME n below table: 1/Day Total Effluent generation 1691 9812 7974 8101 8078 8289

	The average 7324 m³/day wastewater was treated in the company's own effluent treatment plant during the reporting period.											
Final Discharge of Treated effluent is being discharge into river par through 4 km line constructed by M/s Atul.		Final discharged effluent meeting all state pollution control board's lim s being discharged into river Par through 4 km line.										
Ammonia bearing effluent shall be subject to ammonia recovery before mixing with normal effluent stream.	Complied. Ammonia bearing effluent streams generated from 4,4 DDS productions recovered by stripping in series of packed column. The ammontained water from the stripper is condensed in condenser recovered ammonia is being recycled back in production of 4,4 I Details are given in below table: Recover Apr 20 May 20 Jun 20 Jul 20 Aug 20 Sep 20 Tot							mmonia ser and .,4 DDS.				
	Ammonia (KL)		170	261	402	202		1337				
Phenol will be recovered from phenol containing effluent.	Complied. 20 Kgs ph production. Resin towe table:	A distill	ation colu	umn has	been ins	stalled for	r phenol re	ecovery.				
			May 20		-	Aug 20						
	DCP crude distilled	91.2	1451.2	1037.4	1334.9	1273.3	3 1166.2	6354.3				
	2,4DCP recovered	80	1273	910	1171	1117	1023	5574				
	2.6DCP recovered	0.608	99.92	73.314	92.24	84.89	76.4	427.3				
	OCP/ Residue	10.6	78.3	54.1	71.7	71.5	66.8	40.7				

The treated effluent shall	Comp									
confirm the		reated eff			•					
discharge norms.		arge norm				param	eters of	treated	efflue	
	5	en in Tabl e	•	1.0	,			с		
		naximum v		0		•				
		he emissi below:	on wen	t beyon	a the stip	Sulatea	stanaa	ras. Sun	ımary	
	Sr.	Parame	ter		Norms		Values for the period			
	No.					A	or 20 –	Sep 20		
								Max.	Avg.	
	1	рН			5.5-9.0) 7.	35	7.95	7.598	
	2	Tempero	ature		40°C	32	L.7 🔅	33	32.22	
	3	Colour (ot. co. so	cale)		50) (ô5	57	
	4	Suspend	led solid	s	100 m	g/l 48	3 9	92	71.4	
	5	Phenolic	Compo	ounds	5 mg/l	0.	035 (0.085	0.049	
	6	Cyanide	S		0.2 mg	j/l N) I	ND	ND	
	7	Fluoride	S		2 mg/l	0.	45 (0.68	0.556	
	8	Sulphide	es		2 mg/l	1.	1	1.6	1.36	
	9	Ammon	ical Nitr	ogen	50 mg		2	39.8	30.76	
	10	Total Ch	romium	1	2 mg/l	N	D I	ND	ND	
	11	Hexaval	ent Chr	omium	1 mg/l	N) I	ND	ND	
	12	BOD (3	days at	27°C)	100 m		L !	55	47.8	
	13	COD			250 m	g/l 14	14	180	162.8	
The domestic effluent shall be disposed off through septic tank / soak pit.		l ied . estic efflue Detail of d	-	•						
	Dom	estic	Apr 20	May 20	lun 20	lul 20	Aug 20) Sep 20		
	gene	tewater eration				,			Tota	
	gene m³		2757	11731	10560		10489	10677		
	gene m³	eration th wise					10489 338		5730	
	gene m ³ Mon ⁻ Per c	th wise day naximum,	2757 92 minimu	11731 378 m and c	10560 352 average \	11087 358 /alues c	338 are give	10677 356 n below:	5730 Avg. 312	
	gene m ³ Mon Per c The m	th wise day naximum,	2757 92 minimu	11731 378	10560 352 average v	11087 358 /alues c	338 are give	10677 356 n below:	5730: Avg. 312	
	gene m ³ Mon ⁻ Per c The m gene	th wise day naximum,	2757 92 minimu Waste	11731 378 m and c	10560 352 average \	11087 358 /alues c	338 are give period A ax.	10677 356 n below:	5730: Avg. 312	

ii	The process	Complied.
	emissions (SO ₂ , NH ₃ , Cl ₂ , and HCl, shall be scrubbed with Scrubbers.	All the SO ₂ , NH ₃ , Cl ₂ , and HCl vents are being routed through adequate and properly designed scrubbing system. Furthermore, most of the process and flue gas stacks have been monitored through online monitoring system and also connected to GPCB and CPCB website.
	The emission shall be dispersed through stack of adequate height as per CPCB standard.	Complied. The emission is dispersed through adequate height of stacks as per CPCB standard as given below: For Incinerator: Minimum stack height shall be 30 meters above ground. For Boilers : Stack Height H=14(Q) ^{0.3} Details of stack results along with its height data is given in Table 2 . (Pl. see pg. no. 28) Gaseous emissions from process units are
		monitored regularly on monthly basis. During the report period no case varies from standard.
	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): $H = h+0.2x\sqrt{KVA}$ H = Total height of stack in meter h = Height of the building in meters where the generator set is installed $KVA = Total generator capacity of the set in KVA$
	Acoustic enclosures shall be provided to the DG set to control the noise pollution.	However, DG sets are being used only during emergency startups. 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	Complied . Compliance status report to the stipulated environmental clearance conditions are regularly submitted to the regional office of MoEF, zonal
		Page 5 of /3

clearance conditions to be sent to Regional office of MoEF, the respective Zonal office of CPCB and the state pollution control board. The criteria levels pollutant namely; SPM. RSPM, SO2, NOx (ambient levels as well Stack as emissions) or critical sectorial parameters like VOC, indicated for the project shall be monitored and displayed at α convenient location near the main gate of company in the public domain.

office of CPCB and state pollution control board.

Complied.

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.(Pl. see pg. no.28,32,33)

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	Values for the period Apr 20 – Sep 20		
		per CCA		Min.	Max.	Avg.
1	SO ₂	40	mg/Nm ³	5.3	36.4	22.8
2	SO ₂ (kg/T)	2	kg/T	0.6	1.7	1.2
3	NOx	25	mg/Nm ³	7.7	23.2	18.4
4	HCI	20	mg/Nm³	3.1	18.2	9.4
5	PM	150	mg/Nm³	0.95	63.8	39.05
6	PM with Pesticide compound	20	mg/Nm ³	6.2	18.9	11.1

Summary of Flue Stack results:

No.	Parameter	Standard values as	Unit	Values for the perioc Apr 20 – Sep 20		
		per CCA		Min.	Max.	Avg.
1	PM	100	mg/Nm ³	50.8	86	68.7
2	PM (New Boiler)	50	mg/Nm ³	37	46.1	42.18
3	SO ₂	600	mg/Nm ³	109	163	130.6
4	NOx	600	mg/Nm ³	106	198	133.5
5	NOx (NewBoiler)	300	mg/Nm ³	92 160 12		124.8

Summary of Ambient Air Quality results:

Station	Parameter	Limit microgm/	Values for the period Apr 20 – Sep 20		riod
		NM ³	Min.	Max.	Avg.
66 KV	RSPM (PM2.5)	60	22.4	38.1	29.8
	PM10	100	43.3	54.8	49.7

	SO2	80	9.2	13.8	11.32
	NOx	80	11.7	16.3	13.78
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Opposite	RSPM	60	20.1	32	25.1
Shed D	(PM2.5)		2011	02	2011
	PM10	100	48.2	52	50.14
	SO2	80	7.4	12.6	9.28
	NOx	80	10.3	15.1	12.18
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
West site ETP	RSPM (PM2.5)	60	18	36	25.6
	PM10	100	40	55	46.4
	SO2	80	6.4	7.7	7.06
	NOx	80	7.8	10.5	8.92
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
North site ETP	RSPM (PM2.5)	60	24	40	30.8
	PM10	100	39	54	45.4
	SO2	80	5.8	9.3	7.24
	NOx	80	6.7	13.3	9.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
TSDF	RSPM (PM2.5)	60	20	42	29.6
	PM10	100	43	50	46.2
	SO2	80	4.4	10.2	6.9
	NOx	80	5.3	12.5	8.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Main Guest House	RSPM (PM2.5)	60	19	24	21.4
	PM10	100	47	50	49
	SO2	80	6.2	7.3	6.78
	NOx	80	6.8	7.5	7.28
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Wyeth Colony	RSPM (PM2.5)	60	22	26	24
	PM10	100	45	50	47.2
	SO2	80	6.4	7.8	7.2
	NOx	80	5.9	8.1	6.7
	Ammonia	850	ND	ND	ND
					of 4 2

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		HCI		200		ND	1	ND	N	D
Gram		RSPM		60		23		27	2	5
panchayat		(PM2.								
hall		PM10		100		47		53		9.8
		SO2		80		5.6		8.2		.92
		NOx		80		5.1		7.3		.52
		Amm	onia	850		ND		ND		D
		HCI		200		ND		ND		D
Main office	2,	RSPM		60		21	4	23	2	2.2
North site		(PM2.		100		11	1	55	4	7
		PM10 SO2		100 80		41 6.5		35 8.2		.22
				80 80				5.2 8.2		.22 .78
		NOx Ammo	onic	80 850		7.1 ND		8.2 ND		.78 D
			JIIU							
Haria wate	ar	HCI RSPM	1	200 60		ND 14.2		ND 34.8		D 4.88
tank	21	(PM2.		00		14.2	-	J4.Ö		4.00
Carik		PM10	,	100		45.7	7 [56.8	5	1.42
		S02		80		6.8		13.5		0.06
		NOx		80		9.5		16.3	1	2.96
		Amm	onia	850		ND	1	ND	N	D
		HCI		200		ND	1	ND	N	D
Summary o	f VOC Arec		s : Param	neter	Prescr Limit		Milli	ues of gram	per l	
								he pei		20
							Min	20 – S	ux veh v	Avg.
2,4 D	Rea	ctor	Phen	ol	19		10.3			14.98
	Buff tank		Chlor	ine	3		0.8	2.6	5	1.57
Resorcinol	Ben stor tank	zene	Benz	ene	15		5	9.4		7.28
		action ubber	Butyl aceto		-		495	74	0	572.6
Pharma		econd r work a	Amm	ionia	18		ND	NC)	ND

		Ammonia recovery area	Ammonia	18	ND	ND	ND
	Epoxy - I	At vacuum pump 2nd floor	ECH	10	2	6.9	4.08
		At vessel POS 1208 G.F	ECH	10	2.4	8.2	4.92
	Shed H	At second floor work area	Nitrobenze ne	5	1.3	4.4	2.96
	Shed J	Buffer Tank	Chlorine	3	1.7	2.1	1.9
					1	1	

iv	The company shall	Complied.							
	adopt cleaner production	Company is fully	, devoted to	wards prote	ction of environm	ent and has			
	technology to			•	production project				
	minimize the	continuously imp							
	quantity of fresh								
	water requirement				r plants as ZLD				
	and process effluent generation.	is completely ZL	5 ,	other plants	as ZLD. Our Ankl	esnwar unit			
	endent generation.		D unit.						
		Treated wastewater is being used in lime preparation at ETP, steam condensate is being collected and used in place of raw water, vacuum pump, gland cooling and other water is being collected and reused. Vacuum pumps are removed by installing centrifuge in place of neutch filter and water consumption is reduced.							
		0	as fire hydrant m sh quenching inst	•					
		Water used for	washing pu	rpose is reuse	ed.				
		Details of water	consumptio	on break up is	given below:				
		Details of water	consumptio	on:					
		Water Consum	iption Break	up m°					
		Period	Water con	sumption in A	Apr 20 – Sep 20	Total			
			Process	Cooling	Domestic				
		April 20	42459	9925	2757	55141			
		May 20	254406	64559	11731	330696			
		June 20	201683	48210	10560	260453			
		July 20	207803	51438	11087	270328			
		August 20	207914	51109	10489	269512			
		September 20	207035	52450	10677	270162			

V	The company shall	Complied.
	obtain Authorization for Collection; Storage and Disposal of 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.	We have obtained authorization for our own TSDF through GPCB notification no. GPCB/HAZ/GEN-55/9647 dated 13 th March 2000 and NOC no. CTE-65621 dated 19/11/2014. Also we have valid authorization under our current CCA No. AWH-105110 for handling, storage and disposal of hazardous waste.
	The concerned company shall undertake measures for the firefighting facility in case of emergency.	Compiled . Company is having two nos. of fire tenders, fully adequate hydrant system and trained staff, emergency response team(ERT) of trained workers, power supply from two source with emergency backup power provision from DG set as well grid and detailed on-site emergency plan. Mock drills are also carried out at regular interval.
vi	The project authorities shall strictly comply with the rules and guidelines under manufacturing, storage and import of hazardous chemicals rule 1989 as amended in October, 1994 and January, 2000.	
	All Transportation of Hazardous chemicals shall be as per the MVA, 1989.	Complied . Transportation of Hazardous chemicals are being done as per the MVA rule 1989. TREM (Transport Emergency) card and MSDS of chemicals are provided to transporter.

vii	The company shall undertake waste minimization measures : Metering and control of quantities of active ingredients to minimize waste.	Complied . All the liquid ingredients are being charged through measure vessels and/or flow meters to control on quantity as per the stoichiometry. All the solid ingredients are charged after proper weighment only. All these meters and weighing machines are calibrated and records are maintained.
	Reuse of by products from the process as raw materials or as raw material substitutes in other processes.	Complied . 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.
	Use of automated filling to minimize spillage.	Complied . Automated filling system for our agro products, polymers, resorcinol, dyes for small and bulk packing is provided to minimize spillage.
	Use of 'close feed' system into batch system.	Complied . Chemicals and solvents are handled in close handling system through pipe lines only.
	Venting equipment through vapor recovery system.	Complied . All the reactors are equipped with vents/stacks, which are connected to either vapor recovery system consisting of condensers, ejector/vacuum pumps and/or scrubbers. Genosorb technology for solvent vapor recovery is also installed and working perfectly.
	Use of high pressure hoses for equipment cleaning to reduce wastewater generation.	Complied . Many equipment like reactors, spray dryers, condenser wherever necessary are being cleaned with high pressure sparger / jet to reduce waste water generation.

viii	Fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emission shall conform to the limits imposed by l.	Complied. Fugitive emissions in the work zone environment and raw material storage area is being regularly monitored by NABL approved third party. Data for the reporting period is given in Table 4 . (Pl. see pg. no.33) Besides this online monitors in work area for parameters like Chlorine, HCl, Phosgene are also installed. The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Summary is given in specific condition iii
ix	The project authority shall provide chilled brine solution in secondary condenser for condensation of the VOCs.	Summary is given in specific condition iii. Complied. All the VOCs/solvent recovery systems are attached with chilled brine solution in secondary condenser for condensation of VOCs.
	The project authority shall ensure that solvent recovery shall not be less than 95%	Complied . On an average solvent recovery is 96%.
	The VOC monitoring shall be carried in the solvent storage area and data	Complied. We are monitoring VOC as well as other chemicals in work area as per Factories Act and records are being maintained in Form No. 37. VOC monitoring in solvent storage area is being done and data are submitted through EC compliance report. Data for the report period is given in Table 4 (Pl. see pg. no.33)
×	Solvent management shall be as follows: Reactor shall be connected to chilled brine condenser system.	Complied . All the reactors handling solvent are connected/attached with chilled brine condenser for solvent recovery.

Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	Complied . All the reactors and pumps handling solvent are equipped with mechanical seals to prevent leakages.
The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	Complied . The condensers provided are properly designed with respect to HTA and Residence time to achieve more than 95 % recovery. As mentioned above, average 96 % solvent recovery is being achieved.
Solvents shall be stored in a separate space specified with all safety measures.	Complied . Solvents are stored in tank farms in separate tanks with proper earthing, flame arresters, lightening arresters, fencing, Fire hydrant system, Fire extinguishers, flame proof equipment, etc. safety measures.
Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	Complied . Double earthing is provided and regular checking and testing of the same is being done and recorded.
Entire plant shall be flame proof.	Complied . Plants are equipped with Jumpers, flame proof electrical fittings and proper earthing as per the Hazardous area classification of PESO.
The solvent storage tanks shall be provided with breather valve to prevent loses.	Complied . Breather valves have been provided to all the solvent storage tanks to minimize the loses.
xi Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.	Complied . Hazardous chemicals are being stored in tanks, drums and carboys considering the storage quantity and chemical stored.

	Company shall	Complied.						
	develop an area of 33% green belt and selection of plant species shall be as per the guideline of CPCB.	Company has developed green belt and dense plantation inside and outside the factory in more than 33 % of total land. Company is having green belt development plan and planting more than about 50000 plants per year on regular basis.						
xii	The company shall	Complied.						
	harvest surface as	0						
	well as rain water from the roof tops of the building and		has expanded it ond to harvest rai	- ·	ond capacity to 140)00 KL		
	storm water drain	We are cr	eating facility/ ca	pacity to cater	our consumption wi	th rain		
	to recharge the	harvested	water with zero r	iver drawls of v	vater during the rain	y days.		
	ground water and			ee check dam	s and pumping fac	ility to		
	use the same water for the various	harvest rai	n water.					
	activities of the	We also c	onstruct tempora	ry sand bag do	am on top of dam to	wards		
	project to conserve		monsoon to store	e additional free	e flowing rain water	in river		
	fresh water.	Par.	to above outface	rup off water a	nd roof ton water in u	upped to		
		recharge b		erunon water a	nd roof top water is u	ised to		
xiii	Occupational	Complied.						
	health surveillance							
	of the workers shall be done on a	•			workers is being do r the factory act. Det			
	be done on a regular basis and	-	period is shown ir		i the factory act. Det			
	records maintained		yment Check-up					
	as per the Factories		1		-	,		
	Act.	Sr. No.	Employee	Qty	Check-up	-		
		1	Staff Operators	2688	Pre-Employment			
		3	Workers					
		5	WORKERS			1		
		Annual Medical Check-Up:						
		Sr.No.	Employee	Qty	Check-up]		
			Staff	1024	Annual Checkup			
			Operators	4				
		3	Workers]		
B. Gen	eral Conditions:							

i	The project	Complied.
	authorities shall	
	strictly adhere to	The company adheres to the compliances and has not exceeded the
	the stipulations	stipulation. This has been certified by our Environmental auditors, an
	made by the State	authorized agency and nominated by GPCB; through Environmental
	Pollution Control	audit every year.
	Board.	
		Excerpts of latest environmental audit report by Shroff S R Rotary
		Institute of Chemical Technology (SRICT), Bharuch for year 2019-20 is
	NI- funtless	attached as Annexure 1.
ii	No further	Complied.
	expansion or	A purpage in will be done only after actting EC
	modification in the	Any expansion will be done only after getting EC.
	plant shall be carried out without	
	prior approval of	
	the Ministry of	
	Environment and	
	Forests.	
	In case of	
	deviations or	
	alterations in the	
	project proposal	
	from those	
	submitted to this	
	Ministry for	
	clearance, a fresh	
	reference shall be	
	made to the	
	Ministry to assess	
	the adequacy of	
	conditions imposed	
	and to add	
	additional	
	environmental	
	protection	
	measures required,	
	if any.	
iii	At no time, the	Complied.
	emissions shall	Monthly monitoring is being done by NABL approved third party.
	exceed the	At no time, the emissions eveneded the preservined limits during report
	prescribed limits.	At no time, the emissions exceeded the prescribed limits during report period.
		Summary of stack results given in specific condition no. iii.
		Summary of stack results given in specific condition no. iii.

	In the event of failure of any pollution control system adopted by the units, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Complied. No such case happened during compliance period. Whenever such incident of failure of pollution control system happened, we will stop the operation and rectify the problem and then only restart.
iv	The Gaseous emission (NOx, HCl, SO2 and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	Complied. The gaseous emissions (SO ₂ , NOx, and HCI) and particulate matters from various process units confirms to the standards prescribed by GPCB through CCA. Details of stack results for the compliance period is given in Table 2. (Pl. see pg. no. 28)
	At no time, the emission levels shall go beyond the stipulated standards.	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.
	In the event of failure of 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 SPM shall be carried.	Complied. 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 (Pl. see pg. no.28) Whenever such incident of failure of pollution control system happened, we will stop the operation and rectify the problem and then only restart.

V	The Location of ambient air quality monitoring stations shall be decided in consultation with state pollution control Board and it shall be ensured that at least one station is installed in the up wind and	The Location of decided in con installed in the maximum grou been shown to our factory.	nsultat e up v ind le autho	bient air quality monitoring stations had b tion with GPCB so that at least one station vind and downwind direction as well as wh vel concentration are anticipated. The same prity like SPCB, CPCB & MoEF during their vis ir monitoring station is given below:	n is nere had
	downwind		No.	Location	
	direction as well as		1	66 KVA GEB substation	
	where maximum		2	Opposite Shed D	
	ground level		3	West site ETP	
	concentration are		4	North site ETP	
	anticipated.		5	Near TSDF	
			6	Near Main Guest House	
			7	At Wyeth Colony	
			8	Gram panchayat hall	
			9	Near Main office, North site	
			10	Haria Water tank	
		Details of amb no.32)	ient a	ir quality results is given in Table 3 (Pl. see	pg.
vi	Dedicated	Complied.			
	Scrubbers and				
	stacks of			s with stacks of appropriate height (as per	
	appropriate height			rol board guideline) have been provided to cor	
	as per the central			rious vents. Details of stack results along with	h its
	pollution control	height data is g	given i	n Table 2 . (Pl. see pg. no. 28)	
	board guideline				
	shall be provided to control the				
	emission from				
	various vents.				
	The scrubber water shall be sent to ETP	Complied.			
	for further	The scrubber water is being sent to ETP for further treatment.			
	treatment or sell to		uter l		
	actual end users.				

vii	The overall noise level in and around	Comp	Complied.						
	the plant area shall be kept well within the standard by	source	In built acoustic enclosure, silencer and insulation are provided on all source of noise generation to keep over all noise level within the stipulated standards like turbine, DG set, etc.						
	providing noise control measures								
	including acoustic hoods silencers.								
	hoods silencers, enclosures etc. on								
	all source of noise generation.								
	The ambient noise	Comp	lied.						
	level shall confirm	т							
	to the standards prescribed under		mbient noise level confirr ame is being regularly ma						
	Environment(6 . (Pl. see pg. no. 34)			5			
	Protection) Act- 1986 Rules,1989	The m	naximum values during th	ne compliance	period o	onfirms	that at no		
	viz 75 dBA (day	time t	he noise emission level	•	•				
	time) and 70 dBA (night time)	Summ	nary is given below:						
		Noise	level monitoring data (D	ay Time):					
		Sr. No.	Location	Permissible Limits,		for the J – Sep 2			
				dBA	Min.	Max.	Avg.		
		1	Near Main guest house	75	61.20	63.60	62.20		
		2	Near TSDF	75	63.70	65.80	64.56		
		3	At Wyeth Colony	75	54.60	56.70	55.78		
		4	Gram Panchayat Hall	75	62.50	66.50	64.50		
		5	Near Main Office North site	75	60.20	64.70	62.54		
		6	North site ETP	75	64.50	69.80	67.02		
		7	Opposite shed D	75	64.80	71.30	68.88		
		8	West site ETP	75	64.50	67.60	65.88		
		9	Haria water tank	75	61.20	64.30	62.62		
		10	66KVA substation	75	63.80	66.00	64.70		
Noise level monitoring data (Night Time):Sr.LocationPermissibleValue									
		No.		Limits,		– Sep 2			
				dBA	Min.	Max.	Avg.		
		1	Near Main guest house	70	52.10	54.40	52.92		
		2	Near TSDF	70	54.50	56.50	55.12		

Page **20** of **43**

		3	At Wyeth Colony	70	50.30	52.60	51.42
		4	Gram Panchayat Hall	70	54.50	56.70	55.56
		5	Near Main Office North site	70	53.70	58.50	56.62
		6	North site ETP	70	54.20	57.30	55.56
		7	Opposite shed D	70	56.50	58.70	57.74
		8	West site ETP	70	55.10	56.80	55.94
		9	Haria Water tank	70	52.60	55.80	54.20
		10	66KVA substation	70	55.10	57.30	56.38
viii	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment	Complied. Company is imparting training to all new employees as well as regular employees at regular intervals on safety and health aspects of chemicals handling. Safety precautions and hazards are also being communicated through display boards at appropriate places in the plants.					
	and routine periodical medical examination for all employees shall be undertaken on regular basis.	 Pre medical checkup and routine medical checkup for the employee being done on regular basis. 					
ix	Usage of PPE's by employee/ workers shall be ensured.	Complied.					
×	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in project report submitted to the ministry.	and	lied. any has complied with all safeguards proposed mendations made their ir	in the r	nental pr eport d		measures from the

	All the recommendation made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Since ToR didn't suggest for EIA or public hearing, no such recommendations mentioned. However, recommendations made in respect of adequacy report for the referred project are complied and compliance report submitted vide our letter dated July 07, 2020
xi	The company will undertake all relevant measures for improving the socio economic condition for the surrounding area, CSR activities will be undertaken by involving local villages and administration:	Complied. Company is doing CSR activities through its Atul Rural Development Fund trust and is specially designed for up gradation of surrounding area and well fare of nearby localities. List of CSR activities carried out during April 20- September 20 is given in Table 7 (Pl. see pg. no.35)
xii	The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied as mentioned in xi above.

xiii	A Separate environmental management cell equipped with full flagged laboratory facility shall be set up to carry out the environmental management and monitoring function.	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.					
xiv	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Eorest as well as	Recurrin comply MoEF ap	asures are implemented b g cost: A separate budge with all the legal requirer part from upkeep of pollu	y 2010. et is being allocated every year to ment stipulated by SPCB, CPCB & ution control systems and facilities. riod is given in below table.			
	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.	ParameterAir Pollution ControlLiquid Pollution ControlEnvironmentalMonitoring andManagementSolid waste DisposalOccupational healthGreen belt	Recurring Cost (Rs. In lacs) For the report period Apr 20 – Sep 20 2069.24 19.05 293.46 15 5 2401.75			

XV	A copy of the	Complied.
	clearance letter shall be sent by the proponent to concerned Panchayat, Zila parishad/Municipal Corporation. Urban local body and the local NGO, if any, from who suggestions/repres entation, if any, were received while processing the proposal.	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 4.4.17.
	The clearance letter shall also be put on the web site of the company by the proponent.	Complied. Available at company's website at www.atul.co.in
xvi	The implementation of the project vis-à- vis environmental action plan shall be monitored by Ministry's Regional office at Bhopal / SPCB / CPCB.	Complied . SPCB and MoEF is monitoring through their regular visits.
xvii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of Environment and Forest at <u>http://www.envfor.</u>	Complied. We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their end.

	<u>ni.in</u> .	
	This shall be	Complied.
	advertised within	
	seven days from	Advertisement was published as directed and copy of the same was
	the date of issue of	submitted to Ministry vide our letter dated 14.11.2009.
	the 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.	
xviii	The project	Complied.
	authorities shall	
	inform the Regional	Start date: May 2009
	Office as well as	
	the Ministry, the	Final approval: We have obtained NOC and CCA from GPCB.
	date of financial	Company has funded the project internally and hence not submitted
	closures and final	the financial closure details.
	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.	

0	The Ministry	Noted and will be complied
9	The Ministry	Noted and will be complied.
	reserves the right	
	to stipulate	
	additional	
	conditions, if found	
	necessary. The	
	company in a time	
	bound manner will	
	implement these	
	conditions.	
10	Any appeal against	Noted.
	this 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.
		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	
	Transboundry	
	movement) Rules,	
	2008 and the	
	Public Liability	
	Insurance Act,	
	1991 along with	
	their amendments	
	and rules.	
L		

Sr. No.	Parameter	Results					GPCB Limits	
		May 20	Jun 20	Jul 20	Aug 20	Sep 20		
1	рН	7.3	7.6	7.9	7.4	7.5	5.5 to 9.0	
2	Temperature °C	32	33	32.5	31.7	31.9	40 oC	
3	Colour (pt. co. scale)in units	60	50	65	50	60		
4	Suspended solids, mg/l	48	64	78	92	75	100	
5	Phenolic Compounds, mg/l	0.03	0.04	0.08	0.04	0.03	5	
6	Cyanides, mg/l	ND	ND	ND	ND	ND	0.2	
7	Fluorides, mg/l	0.5	0.6	0.5	0.4	0.5	2	
8	Sulphides, mg/l	1.4	1.1	1.5	1.2	1.6	2	
9	Ammonical Nitrogen, mg/l	30	22	28	34	39.8	50	
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	2	
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	1	
12	BOD (3 days at 27°C), mg/l	55	45	50	41	48	100	
13	COD, mg/l	180	156	172	144	162	250	
Note:	ND is Not Detectable.							

Table: 2 Stack Results

			in the period	MAY, 2020	JUNE, 2020	JULY, 2020	AUG, 2020	SEPT., 202
Details	of Process and Flue stack		and the second	and the second				
Sr. No.	Stack Details	Paramente r	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
Atul East 8	Site							
1	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	32	40	58	41	33
2	Reactor (Phosgene plant- New)	CO		ND	ND	ND	ND	ND
Caustia Ch	lorine Plant	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
3	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	* 3.5	3.2	4.9	Not running	Not runnin
	Decinormation r jant	HCI	20.0 mg/Nm3	5.8	5.6	5.1	Not running	Not runnin
4	Common stack of HCl Sigri unit 1862	Cl ₂	9.0 mg/Nm3	8.4	4.9	7.1	4.1	6.6
And the		HCI	20.0 mg/Nm3	12.9	8.2	7.4	6.2	7.8
FCB Paint								
5	Foul Gas Scubber	SO2	40.0 mg/Nm3	Not in use				
	and the second	NOx	25.0 mg/Nm3		Not in use	Not in use	Not in use	Not in use
	The states of the second						Section Section	
	cid (East Site)	00	0.01-07				1.00	
6	Sulfuric Acid Plant	SO ₂ Acid Mist	2.0 kg/T 50.0 mg/Nm3	1.3 29.5	0.6	1.6 23.8	1.35	1.7 18.2
	And the second second	Acid Mist	50.0 mg/Nm3	29.5	11.3	23.8	13.8	18.2
7	ChloroSulfonic Acid plant reactor	Cl ₂	9.0 mg/Nm3	4.9	4.3	8.4	7.2	6.2
		HCI	20.0 mg/Nm3	5.3	13.6	8.6	7.4	6.4
Resorcinol					4.52	0		C. Contract
8	Spray Dryer (Resorcinol Plant)	PM	150.0 mg/Nm3	25	27	38	0.95	2.95
9	Scubber vent (Resorcinol Plant)	SO ₂	40.0 mg/Nm3	32.7	8.3	30.1	33.6	29.3
Incinerato	e		122 124			1.2	1000	1.2.2
10	Incinerator	PM	150.0 mg/Nm3	Not Runnig During Visit	43	53.1	63.8	54.1
		802	40.0 mg/Nm3		12.2	18.6	11.7	14.2
	and the state of the state	NOx	25.0 mg/Nm3		15.4	20.7	23.2	19.9
NI Plant								
11	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	27.8	Not Runnig During Visit	31.6	28.6	24.2
		NOx	25.0 mg/Nm3	15.6		19.4	21.8	17.8
2-4-D Plan	t	1	-			The second		A CONTRACTOR
12	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	8.1	5.4	5.2	7.1	5.1
		HCI	20.0 mg/Nm3	8.3	7.3	5.1	7.3	7.3
179-12		Phenol		ND	ND	ND	ND	ND
13	Dryer-1	PM with Pesticide compound	20.0 mg/Nm3	14.2	7.4	9.4	8.1	11.8
14	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3	16.8	6.8	10.1	8.2	9.8
15	Dryer-3	PM with Pesticide compound	20.0 mg/Nm3	15.7	7.3	8.6	14.1	18.3
16	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3	18.9	11.4	7.2	9.8	15.9
17	Dryer-5	PM with Pesticide compound	20.0 mg/Nm3	Not Runnig During Visit	9.2	Not running	6.2	10.3

NBD Plant .				10000				
18	Spray Dryer	PM	150.0 mg/Nm3	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
		HCI	20 mg/Nm3	12.4	4.2	17.8	18.2	13.6
20	Scrubber S-801/802	NOx	25.0 mg/Nm3	12.2	7.7	24.8	18.7	23.1
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		r	Limits	Value	S. 201 2.24	Value	Value	Value
CP Plant								
21	MČPA	Cl ₂	9 mg/NM ³	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runnin
		HC1	20 mg/NM ³	During Visit	During Visit	ALL ALL THE		
		SO2	40 mg/NM^3		and alt l	and the second	Sec. S. A.	
22	Fipronil	SO ₂	40 mg/NM ³	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
	Real Production of the Area	HC1	20 mg/Nm3					
23	Imidacloprid	NHa	175 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
24	Pyrathroids	SO2	40 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
		HCI	20 mg/Nm3		1. 1. 1. 1. 1. 1. 1.			
25	Stack at Amine Plant	NHa	175 mg/Nm3	108.0	16.3	Not Runnig	136	115
MPSL Plant	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
NICO plant	as an interview of the state of the state of the state of the	rnosgene	0.1 ppm	nD	ILS		110	
28	Central scrubber at Nico Plant	Acetonytryl e, IPA						
Ester Plant							LON FAILERS	
29	Scrubber at Ester plant for Glyphosate	Formaldeh yde	10 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
30	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
31	MPP plant scrubber	HCI	20 mg/Nm3	13.1	Not Runnig	13.2	9.8	12.4
		Phosgene	0.1 ppm	ND	During Visit	ND	ND	ND
Atul West S	Site		and the second	1		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	English and	in the second second
32	Shed A05/03/44	CI2	9 mg/NM ³	5.1	7.3	6.3	Not Runnig	Not Runnin
		HCI	20 mg/NM ³	5.24	11.3	6.2		
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	7.8	5.3	7.4	8.4	Not Runnin
		HCI	20.0 mg/Nm3	10.3	8.2	7.5	8.6	
34	Shed B18/02/24 Fan	SO2	40 mg/NM ³	36.4	14.2	21.6	5.38	24.8
		Cl ₂	9 mg/NM ³	7.7	5.6	8.8	5.2	7.1
		HCI	20 mg/NM ³	7.9	7.3	9	9	8.3
35	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	Not Runnig	6.3	8.4	Not Runnig	Not Runnin
		HCI	20.0 mg/Nm3	During Visit	12.1	8.1		
36	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	Not Runnig During Visit	43	53.8	37.6	Not Runnir
	and the second second	and the			é	- main		
37	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	44.6	51.2	Not Runnir
38	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnir
145	Shed F F6/1/15 Reaction Vessel	Cl ₂	9.0 mg/Nm3	5.6	4.1	8.1	8.1	6.5
39						57+A		Mill.
39	Shear 10/1/10 Reaction Vessel	HCI	20.0 mg/Nm3	17.4	7.3	8.4	8.3	14.8

	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runnin
		HCI	20.0 mg/Nm3	During Visit	During Visit		Charlen an	a back of
41	Shed H 11/6/17 chlorinator	Cl ₂	9.0 mg/Nm3	6.9	3.3	7.9	7.3	3.5
	chica in 11707 in childranda	HCI	20.0 mg/Nm3	14.2	8.1	7.6	14.4	14.4
100 50 6	A Provincial Advances			Service State			See 2	
42	Shed K K-13/3/4 Final of Sulfuric acid plant		2.0 kg/T	Not Runnig During Visit	0.6	1.6	1.25	1.3
		Acid Mist	50.0 mg/Nm3		11.3	2.8	3.9	4.4
43	Shed J15/09/25	HBr	5 10 20 20 5	Not Runnig	Not Runnig	ND	ND	Not Runnin
	•	SO2	40 mg/NM ³	During Visit	During Visit	16.8	23.9	and the second
		122.228	and the second	1				
Sr. No.	Stack Details	Paramente	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
44	Shed J12/01/42	SO ₂	40 mg/NM ³	21.8	Not Runnig	26.4	20.3	29.7
		CI2	9.0 mg/Nm3	5.9	During Visit	5.4	8.1	5.2
	Contraction of the second	HCI	20.0 mg/Nm3	6.1	1.1.1.1.1.1.1	13.8	8.3	5.34
45	Shed J12/03/36	SO2	40 mg/NM ³	Not Runnig	Not Runnig	21.8	29.9	22.3
	Sale of the second second	HCI	20.0 mg/Nm3	During Visit	During Visit	17.2	14.8	13.9
46	Shed N Scrubber Fan N20/08/24	CI2	9 mg/NM ³	5.7	8.4	3.9	6.2	5.9
		HCl	20 mg/NM ³	5.85	14.2	12.8	6.4	11.1
47	Shed N Scrubber Fan N20/02/41	SO2	40 mg/NM ³	29.8	11.6	20.6	26.1	24
48	Sulfer Black Plant	H ₂ S		Not Runnig During Visit	ND	24.8	ND	ND
		NH ₃ H ₂ S	175 mg/NM ³	Not Runnig	17.5 ND	19.4 19	98 ND	105 ND
49	Sulfer Dyes plant	NH _a	175 mg/NM ³	During Visit	11.3	30.4	33.1	37.2
50	Flavors & Fragrances Plant	HCl	20 mg/NM ³	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runnir
				During Visit	During Visit			
Atul North			150.0					
51	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
		SO2	40.0 mg/Nm3					
		NOx	25.0 mg/Nm3		Stan and the			
			and a set of the set of the set		and the second sec			2. 2. 2. 2. 2
-		Formaldeh	10.0 mg/Nm3					
52	PHIN Plant	Formaldeh yde Phosgene		Not Runnig	ND	ND	ND	ND
52	PHIN Plant	yde	10.0 mg/Nm3	Not Runnig During Visit	ND	ND	ND	ND
		yde Phosgene	10.0 mg/Nm3 0.1 ppm	During Visit				
52 53 54	PHIN Plant PHIN-II Plant DDS Plant (Pharma Plant)	yde	10.0 mg/Nm3		ND 7.3 43.2	ND 7.4 Not Runnig	ND 5.8 Not Runnig	ND 3.15 Not Runnin
53	PHIN-II Plant	yde Phosgene HCl	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³	During Visit	7.3	7,4	5.8	3.15
53 54	PHIN-II Plant	yde Phosgene HCl	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³	During Visit 5.2 Not Runnig	7.3	7,4	5.8	3.15
53 54 55	PHIN-II Plant DDS Plant (Pharma Plant)	yde Phosgene HCl NH ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3	During Visit 5.2 Not Runnig During Visit	7.3 43.2	7.4 Not Runnig	5.8 Not Runnig	3.15 Not Runnir
53	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS)	yde Phosgene HCl NH ₃ SO ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4	7.3 43.2 ND	7,4 Not Runnig 15,1	5.8 Not Runnig ND	3.15 Not Runnir ND
53 54 55 56	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3	During Visit 5.2 Not Runnig During Visit * 25.4 140	7.3 43.2 ND 62.4	7,4 Not Runnig 15,1 120	5.8 Not Runnig ND 120	3.15 Not Runnin ND 126
53 54 55 56 57	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ NH ₃ SO ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ 	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1	7.3 43.2 ND 62.4 69.6 4.3	7.4 Not Runnig 15.1 120 58 15.8	5.8 Not Runnig ND 120 63 ND	3.15 Not Runnir ND 126 92 ND
53 54 55 56	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant	yde Phosgene HCl NH ₃ SO ₃ NH ₃ NH ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3	During Visit 5.2 Not Runnig During Visit * 25.4 140 112	7.3 43.2 ND 62.4 69.6	7,4 Not Runnig 15.1 120 58	5.8 Not Runnig ND 120 63	3.15 Not Runnin ND 126 92
53 54 55 56 57	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ NH ₃ SO ₃	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained	7.3 43.2 ND 62.4 69.6 4.3	7.4 Not Runnig 15.1 120 58 15.8 Obtained	5.8 Not Runnig ND 120 63 ND Obtained	3.15 Not Runnin ND 126 92 ND Obtained
53 54 55 56 57 Sr. No.	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6	5.8 Not Runnig ND 120 63 ND Obtained	3.15 Not Runnin ND 126 92 ND Obtained Value 71
53 54 55 56 57 Sr. No. East site	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details	yde Phosgene HCl NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r PM SO ₂	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144	5.8 Not Runnig ND 120 63 ND Obtained Value	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCl NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r PM SO ₂ NOx	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r PM SO ₂ NOx	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106 not running	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138 71.8	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r. PM SO ₂ NOx PM SO ₂	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86 110	7,4 Not Runnig 15,1 120 58 15,8 Obtained Value 61,6 144 138 71,8 126	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1 134	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r PM SO ₂ NOx	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 0btained Value 62 62 111 106 not running during this	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138 71.8	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente r. PM SO ₂ NOx PM SO ₂	10.0 mg/Nm3 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 0btained Value 62 62 111 106 not running during this	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86 110	7,4 Not Runnig 15,1 120 58 15,8 Obtained Value 61,6 144 138 71,8 126	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1 134	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176

		NOx	600 mg/Nm3		124	130	126	198
4	Hot Oil Unit	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
	(Resorcinol Plant)	SO2	100 ppm	month	ND	ND	Same -	
(Mires)		NOx	50 ppm		28	31	No. I I	
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	Stand by	Stand by	38.6	44.6	36.4
	Contract Contract States	SO ₂	100 ppm	1.000	States Con	5.2	4.9	6.2
11.44		NOx	50 ppm	Contract of		46.4	48.2	41.7
West Sit	te	Sec. 1	1 3 30 Mar 24	1 60 50 3		11111	14 11 2	(see built
6	FBC boiler W1	PM	100 mg/Nm3	* 54.8	59	62.4	83.6	71.8
1.200	and the second second	SO2	600 mg/Nm3	120	123	124	156	156
	A STATE STATE	NOx	600 mg/Nm3	126	119	119	122	198
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runni
		SO2	100 ppm	month	ND	ND		
		NOx	50 ppm		23	26		
8	Oil burner Shed B	PM	150.0 mg/Nm3	Stand by	Stand by	Not Runnig	Not Runnig	Not Runnig
0.00	(Stand By)	SO2	100 ppm					
	and the second	NOx	50 ppm	1.000	1			
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	41.9	37	44.7	41.2	46.1
	and the second second second	SO2	600 mg/Nm3	109	113	132	140	128
	a state of the second	NOx	300 mg/Nm3	92	108	128	136	160
		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	Stand by	Stand by	32.4	30.8	53.8
	(Stand By)	SO ₂	100 ppm		1000	4.4	5.2	7.2
		NOx	50 ppm		1446	42.8	42.4	36.8
North Si	ite		and the second		Service of		282.2.1	Service M
11	Thermic fluid heater of	PM	150.0 mg/Nm3	not running during this	ND	43.6	33.8	54.2
	DCO/DAP Plant	SO2	100 ppm	month	ND	14.8	9.8	16.2
10.25		NOx	50 ppm		29	30.1	21.6	24.8

Table 3: Ambient Air Monitoring details

Station	Parameter	Limit microgm/NM ³	May 20	Jun 20	Jul 20	Aug 20	Sep 20
	PM 2.5	60	38.1	37.9	22.5	22.4	28.1
	PM10	100	54	53	43.3	43.4	54.8
	SO2	80	12.6	11.7	9.2	9.3	13.8
66 KV	NOx	80	13.6	16.3	13.8	11.7	13.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	30	32	21.3	20.1	22.5
Opposite	PM10	100	50	52	50.2	48.2	50.3
Shed D	SO2	80	7.4	8.5	9.5	8.4	12.6
	NOx	80	10.3	11.2	15.1	11.5	12.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	34	36	20	18	20
	PM10	100	53	55	42	40	42
	SO2	80	6.6	7.7	7.3	6.4	7.3
West site ETP	NOx	80	9.4	10.5	8.2	7.8	8.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	38	40	26	24	26
	PM10	100	52	54	41	39	41
	SO2	80	8.2	9.3	6.2	5.8	6.7
North ETP	NOx	80	12.1	13.3	7.1	6.7	7.6
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	40	42	22	20	24
	PM10	100	48	50	45	43	45
TODE	SO2	80	9.3	10.2	5.3	4.4	5.3
TSDF	NOx	80	11.4	12.5	6.4	5.3	6.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	21	19	21
	PM10	100	50	47	50	48	50
Main Guest	tSO2	80	7.1	6.2	7.1	6.2	7.3
House	NOx	80	7.5	7.3	7.3	6.8	7.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	24	26	24	22	24
March Calara	PM10	100	50	48	46	45	47
Wyeth Colony	SO2	80	7.2	7.8	7.5	6.4	7.1
	NOx	80	7.1	8.1	6.2	5.9	6.2

	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	25	27	25	23	25
	PM10	100	51	53	49	47	49
Gram panchayat	SO2	80	7.8	8.2	6.5	5.6	6.5
hall	NOx	80	6.5	7.3	6.9	5.1	6.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	21	23	23	21	23
	PM10	100	55	53	43	41	43
Main office,	SO2	80	6.8	7.5	6.5	7.1	8.2
North site	NOx	80	7.8	8.2	7.6	7.1	8.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	34.8	33.6	14.2	15.3	26.5
	PM10	100	54.6	53.3	46.7	45.7	56.8
Haria water tank	SO2	80	11.8	10.6	6.8	7.6	13.5
	NOx	80	14.5	9.5	16.3	11.8	12.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND

Table 4: Fugitive Emission Monitoring details

Plant	Area		Prescribed Limit	Results of VOCs in Milligram per NM ³					
				May 20	Jun 20	Jul 20	Aug 20	Sep 20	
2,4 D	Reactor	Phenol	19	14.8	17.2	14.1	10.3	18.5	
	Buffer tank	Chlorine	3.0	1.1	0.8	1.25	2.1	2.6	
	Benzene storage tank area near vent	Benzene	15	8.9	6.2	9.4	5	6.9	
	Near Extraction/scrubber unit	Butyl acetate	-	518	546	495	564	740	
	At second floor work area	Ammonia	18	ND	ND	ND	ND	ND	
	Ammonia recovery area	Ammonia	18	ND	ND	ND	ND	ND	
Ероху - І	At vacuum pump 2nd floor	ECH	10	6.9	3.1	2	3.6	4.8	
	At vessel POS 1208 G.F	ECH	10	8.2	6.2	3.9	2.4	3.9	
	At second floor work area	Nitrobenzen e	5	3.9	3.1	4.4	1.3	2.1	
Shed J	Buffer Tank	Chlorine	3	ND	ND	2.1	1.7	ND	

Sr. No.	Location		Permissible Limits, dBA				
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	
1	Near Main guest house	61.20	62.30	61.40	62.50	63.60	75
2	Near TSDF	63.70	64.80	63.70	64.80	65.80	75
3	At Wyeth Colony	56.40	55.50	54.60	55.70	56.70	75
4	Gram Panchayat Hall	62.50	63.60	64.50	65.40	66.50	75
5	Near Main Office North site	60.20	61.30	62.70	63.80	64.70	75
6	ETP North site	65.60	66.50	64.50	68.70	69.80	75
7	Opposite shed D	64.80	68.40	69.50	70.40	71.30	75
8	ETP West site	64.50	65.40	67.60	65.40	66.50	75
9	Haria Water tank	62.10	61.20	62.30	63.20	64.30	75
10	66KVA substation	64.70	63.80	64.00	65.00	66.00	75

Table 5: Noise level monitoring data (Day Time)

Table 6 : Noise level monitoring data (Night Time)

Sr. No.	Location	Noise Level, dBA					Permissible Limits, dBA
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	70
1	Near Main guest house	52.10	53.30	52.40	52.40	54.40	70
2	Near TSDF	54.50	55.60	54.50	54.50	56.50	70
3	At Wyeth Colony	52.50	51.40	50.30	50.30	52.60	70
4	Gram Panchayat Hall	56.50	55.60	54.50	54.50	56.70	70
5	Near Main Office North site	53.70	57.30	56.80	56.80	58.50	70
6	ETP North site	57.30	56.20	54.80	54.20	55.30	70
7	Opposite shed D	58.50	57.40	56.50	57.60	58.70	70
8	ETP West site	56.50	55.60	55.10	55.70	56.80	70
9	Haria Water tank	55.80	54.30	52.60	53.70	54.60	70
10	66KVA substation	57.30	56.20	55.10	56.20	57.10	70

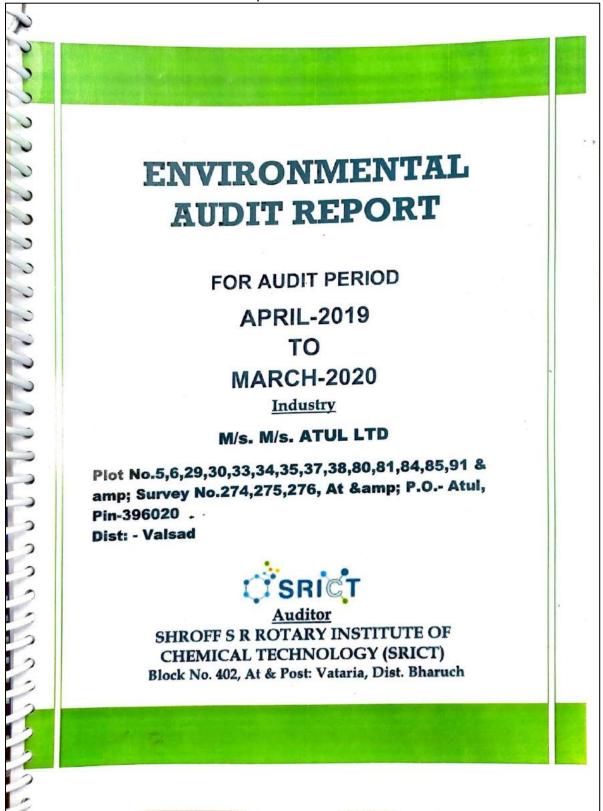
Table 7: CSR Activities

		Atu	I Limited			
		CSR projec	ts April 202	0 to Septembe	er 2020	
No.	Programme	Description	Location	Final Implementing Agency	Estimated budget FY 2020-21 (₹ in lakhs)	Expenditure April 20 to September 20 (₹ in lakhs)
1	Education	Enhancement of education practices in Kalyani Shala	Atul, Valsad (Gujarat)	AFT Atul Kelavani Mandal	75.00	4.14
2	Education	Enhancement of education practices in Atul Vidya Mandir	Atul, Valsad (Gujarat)	AFT Atul Vidyalaya Trust	6.00	0
3	Education	Imparting training to women to become skilled elementary school teachers (Adhyapika) to improve rural education	Valsad (Gujarat)	AFT ARDF	60.00	26.51
4	Education	Sporting a tribal school ,M D Desai school Chondha	Chondha, Navsari (Gujarat)	AFT	5.00	2.51
6	Education	ARDF activities	Atul, Valsad (Gujarat)	AFT ARDF	50.00	23.82
7	Empowerment	Skill training to youth as apprentice	Atul, Valsad (Gujarat)	Atul	180.00	0
8	Health	Nutrition Garden project		AFT BAIF	15.00	0
10	Relief	Relief for COVID - 19	Valsad (Gujarat)	AFT	600.00	561.60
11	Infrastructure	Atul Model Village Project	Atul, Valsad (Gujarat)	AFT	30.00	0

		Support to schools	s Ankleshwa			
12	Infrastructure	and institutes in Ankleshwar	r, Bharuch (Gujarat)	AFT	10.00	2.89
13	Infrastructure	Development of Ulhas Cricket ground	Atul, Valsad (Gujarat)	AFT	20.00	0
14	Conservation	Afforestation	Atul, Valsad (Gujarat)	Atul	5.00	0
15	Conservation	Solid waste Management project	Valsad (Gujarat)	AFT	50.00	15.09
16	Conservation	Nature based sewage treatment plant	Atul, Valsad (Gujarat)	AFT	50.00	0
17	Other	Support to other institutes	Gujarat, India	AFT	44.00	0
18	Administration expense				50.00	0
	Total		1,250.00	636.56		

Remark: Due to COVID-19 many budgeted activities could not initiated/completed

Annexure 1: Abstract of Env. Audit Report



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March 2019 - April 2020	M/s.Atul Ltd, Valsad
OBSERVATION:	20/00/2025
Industry has valid CC&A number AWH-105110 which sha	Ill be valid up to 30/09/2025.
The water and fuel consumptions are within the limits.	ious audit
> Total Production of the industry increased up to 8.65 % in	year 2019-20 from the previous audit
2018-19.	e as sieus audit vear 2018-
Electricity consumption increased up to 1.21 % in year 201	9-20 from the previous audit year 2018
➤ Water consumption is decreased up to 7.64 % in year 2019	
This indicates the various efforts of water conservation take	an by the company.
➤ Wastewater generation is also decreased up to 2.63 % in	year 2019-20 from the previous data
2018-19.	in another Environmental Clearance
> Company has received certified compliance report for	
expansion of existing production and addition of new produ	icts.
 Company has applied for 50MW CPP. 	ation program
Company has successfully launched 5 S system implementation	for ambient air monitoring.
 Company has a proper platform with electrical connection f 	and Wastewater generation are maintain
> Record of the data of CETP chemical, Water consumption	and wasternier generation
regularly.	
 Overall housekeeping is satisfactory. Company has initiated construction of one more ETP have 	ring canacity 450 KLD to treat segreg
 Company has initiated construction of one more ETT have 	ing capacity is the second
steam from Pharmaceutical intermediate plan.	ifferent area of working.
 Industry has provided PPE in all the unit and used well in d Stack identification at site is done for most of the stack. It si 	hall be done for remaining stacks also.
Stack identification at site is done for most of the stack. It's	antity given by GPCB.
 Stack identification are a state of the stat	y for treatment within the premises.
 Total and individual production to an adequate facility Industry has appointed full time doctor and adequate facility 	y tot a calification and a set of the
Recommendations:	
 Company shall upgrade its online treated effluent monitorin 	ig system.
and/or make asphalt concrete/RCC 10	add to minimize the may
 Company shall obtain stability certificate for its ToD, one Company shall plan for ZLD for the ongoing South ETP pr 	roject for Pharmaceutical intermediate p
Company care i	u u to a data data d
 stream. Company shall provide proper identification plat with information 	rmation regarding limits and stack in a
Company shart please a	111 - i - E i -
 north and west site plant. Company shall update its online OCEMS facility in phase with the plant. 	wise manner for auto calibration for state
Company shall update the ENVIRONMENT AUDIT ENVIRONMENT AUDIT SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHN	CELL 7 of 177

March 2019 - April 2020

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M/s. Aul Ltd, Valsad.

ANNEXURE – 30 COMPLIANCE REPORT

r.No.	CONS		COMPLIANCE STATUS					
1	Consent No. AWH - 16.11.2019		Noted.					
2	Validity up to 30.9.2025		3.		Trotted.			
2	Production capacities of different products [Total 478922.004 TPA]							
pecifi	c Condition	18. j. 1						
- 1	The unit shall manufacture having multilevel of safety	d plant	Complied.					
2	Unit shall establish and m mock drill as per period dec	rry oùt	Complied.					
	Unit shall submit production	n data of Phosgen	e every month to this	office!	Complied.			
	Unit shall install new 4 Km pipeline for disposal of trea the identified point by NIO.	ted waste water in	the estuary of Par Ri	iver at	Complied.			
2 2 2	Unit shall use pipeline in ca maintenance only when old get prior permission from pipeline	pipeline is under	maintenance and unit	t shall	Complied.			
	Unit shall comply und the board.	lertaking dated	: 08/07/2016 given	with	Complied.			
	Unit shall comply coal han management, spent acid ma	g and	Complied.					
3. Con	dition under the water (pro	evention and con	trol of pollution)Act	1974 .				
	Particulars	Actual	Consented					
3.1	Water Consumption (Industry + domestic)	9371 KL/Day	28358 KL/Day		Complied.			
	Industrial effluent (Low + High COD)	8643 KL/Day	24096 KL/Day					
	Sewage generated	365 KL/Day	939 KL/Day		5			
			nanufacturing process	and	Complied			
3.2	Total quantity of effluent g other ancillary operation sha							

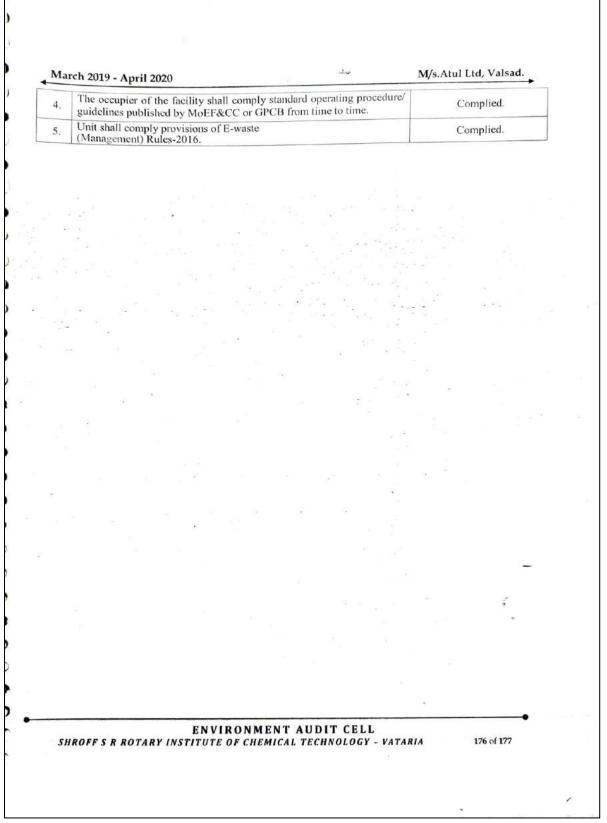
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	rch 2019 - April 2020	ivi/s.Atul Ltd, Valsad.
3.3	20514 KLD (excluding quantity of M/s. Atul Bioscience Ltd. =438.63 KLD) waste water shall be treated in ETP and then discharged into par river through 4 km Pipeline.	Complied
3.4	1000 KLD waste water shall be sent to RO/MEE. 800 KLD RO permeates shall be recycled into cooling tower. 200 KLD RO reject shall be sent to MEE. 190 KLD recovered MEE water shall be recycle into cooling tower. 10 MT MEE salt shall be sent to TSDF. 2500 KLD waste water shall be sent to RO/MEE. 2000 KLD RO permeates shall be recycled into cooling tower. 150 KLD RO reject water shall be utilized for quenching/Ash cooling. 350 KLD RO reject shall be sent to MEE. 345 KLD recovered MEE water shall be recycled into Boiler. 5 MT MEE salt shall be sent to TSDF. 82 KLD high COD waste water shall be sent to incinerator. The quantity of the domestic waste water (sewage) shall not exceed 322 KLD.	Complied.
3.5	Trade Effluent	
3.6	The treated effluent from the industrial unit shall conform to the GPCB norms mentioned in table no. 3.6	Complied.
eng	All efforts shall be made to remove Colour & unpleasant odor as far as practicable.	Complied
3.7	The final treated effluent from central ETP confirming to the above standard shall be collected in the guard pond and then discharged through closed pipeline to estuary zone of river Par via diffuser.	Complied
3.8	Domestic effluent shall be sent to ETP.	Complied.
4.1	(a) The table no. 4.1(a) shall be used as fuel.(b) The table no. 4.1(b) shall be used for captive power consumption.	
	Fuel consumption figures for boilers /Heaters	
	Fuel: Consumption for 2019-20 Quantity/year (MT)	
4.1a	Coal 299614.8	Complied
4. j.u	Lignite 56763.89	
	Total 356378.7	
	Diesel 9135 Ltr/Year	
	List of boilers for captive power	Noted
4.1b		Complied
4.1b 4.2	consumption The applicant shall install & operate air pollution control system in order to achieve norms prescribed in table no. 4.3	
4.2	The applicant shall install & operate air pollution control system in order to achieve norms prescribed in table no. 4.3 The flue gas emission through stack attached to boiler shall confirm to the standard mentioned in table.	Complied.
	The applicant shall install & operate air pollution control system in order to achieve norms prescribed in table no. 4.3	Complied.

rch 2019 - April 2020	M/s.Atul Ltd, Valsad.
The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack / vent with height of more than 9, meters from the ground level) shall not exceed the levels mentioned in table no. 4.5	Complied.
chimney(s) for monitoring the air emission and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.	Complied
quality standards in respect of noise to less than 75 dB (a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and night time is reckoned between 10 n m and 6 a.m.	Complied.
NERAL CONDITIONS:	
Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	Noted
Management of Solid Waste generated from industrial activity shall be as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46).	Noted
(101m-2 (See Fulle 6(2))	ooundary Movement) Rule
Number of authorization: AWH-105110, Date of issue: 16/10/2019	Noted
Reference of application No. 163867 and date: 05/10/2019.	
Reference of application No. 163867 and date: 05/10/2019.	
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous	-
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-	Complied.
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad.	1.4 1. 1.
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co- processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad. Haz. Waste disposal as stipulated. The authorization shall be valid for a period of 30/09/2025. The authorization is subject to the following general and	Complied.
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co- processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad. Haz. Waste disposal as stipulated. The authorization shall be valid for a period of 30/09/2025. The authorization is subject to the following general and specific conditions:	Complied. Noted
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co- processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad. Haz. Waste disposal as stipulated. The authorization shall be valid for a period of 30/09/2025. The authorization is subject to the following general and specific conditions: meral conditions under Hazardous and other Wastes (Managerovement) Rules-2016;	Complied. Noted
M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co- processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad. Haz. Waste disposal as stipulated. The authorization shall be valid for a period of 30/09/2025. The authorization is subject to the following general and specific conditions:	Complied. Noted
	 and the stack / vent with height of more than 9 ,meters from the ground level) shall not exceed the levels mentioned in table no. 4.5 The applicant shall provide portholes, ladders, platform etc. at chimney(s) for monitoring the air emission and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB (a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and night time is reckoned between 10 p.m. and 6 a.m. ENERAL CONDITIONS: Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board. Management of Solid Waste generated from industrial activity shall be as per Solid Waste Management Rules-2016 (solid waste as defined in the state of solid waste as defined in the state of the solid waste management Rules-2016 (solid waste as defined in the state of the solid waste management Rules-2016 (solid waste as defined in the consents form).

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3,	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	Noted and Complied.
4.	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted.
5.	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also earry out mock drill in this regard at regular interval of time.	Complied.
6.	The person authorized shall comply with the provision outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"	Noted.
7.	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Noted.
8.	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.	Not Applicable as no Haz waste is imported.
9.	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Not Applicable as no Haz waste is imported.
10.	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific condition of authorization.	Complied.
11.	The importer or exporter shall bear the cost of import and export and mitigation of damages if any.	Not Applicable as no Haz waste is imported or exported.
12.	An application for the renewal of an authorization shall be made as laid down under these Rules.	Noted
13.	Any other conditions for compliance as per the guidelines issued by the Ministry of the Environment, Forest and climate Change or Central Pollution Control Board from time to time.	Noted and will be complied.
14.	Annual return shall be filed by June 30 th for the period ensuring 31st March of the year.	Complied.
. Sp 1.	ccific Conditions: The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.	Noted.
2.	Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry into the passbook of the actual user.	Noted and complied.
3.	In case of renewal of authorization, a self- certified compliance report in respect of effluent, emission standard and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.	Noted.
5	ENVIRONMENT AUDIT CELL HROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATA	• RIA 175 of 177







Atul Ltd

Project: Setting up an addition captive power plant of 22 MW at post Atul, Dist.Valsad EC Compliance Report for EC No. SEIAA/GUJ/EC/1(d)/340/2016 Report period: April 2020 - September 2020

No.	Condition	Compliance Status					
А	. Conditions :						
A.1 S	Specific Condition:						
1.	Unit shall comply the emission standards	Complied.					
	mentioned in the 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 and or prescribed limits. In such cases occurrences we will intimate to board & authority time to time. event of failure of APCM, the unit shall not restarted until the control measures are rectified to achieve efficiency.					h cases / to time. In
		Flue gas stack analysis is monitored 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 NABL approved TC-5945 , issue date- 28/05/2019 and validity till 27/05/2021 .					
		confirms that stipulated stan					
		Parameter	Standard values as	Unit		for the pe 0 – Sep.	
			per CCA		Min.	Max.	Avg.
		PM	100	mg/Nm ³	50.8	86	68.7
		PM(New Boiler)	50	mg/Nm ³	37	46.1	42.18
		SO ₂	600	mg/Nm ³	109	163	130.6
		NOx	600	mg/Nm ³	106	198	133.5
		NOx (New 300 mg/Nm³ 92 160 124.8 Boiler)					
		Flue gas stac Annexure I	k results for	the repo	rt perio	d is at	tached as



D.G.SET STACK (D.G.SET)

The Ambient Air Quality is being monitored at regular interval for ensuring the compliance. The testing lab appointed is M/s. Royal Environment Auditing & Consultancy Service, Rajkot NABL Approved TC – 5948, issue date-1/06/2019 and valid till 31/05/2021.

The maximum value (PM2.5, PM10, SO_2 , NOx, Ammonia, HCl) during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given below:

Ambient air monitoring Reports:

Station	Parameter	Limit micro			or the period o Sep. 20	
		gram/ NM³	Min.	Max.	Avg.	
66 KV	RSPM (PM2.5)	60	22.4	38.1	29.8	
	PM10	100	43.3	54.8	49.7	
	SO ₂	80	9.2	13.8	11.32	
	NOx	80	11.7	16.3	13.78	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Opposite Shed D	RSPM (PM2.5)	60	20.1	32	25.1	
	PM10	100	48.2	52	50.14	
	SO ₂	80	7.4	12.6	9.28	
	NOx	80	10.3	15.1	12.18	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Near West Site ETP	RSPM (PM2.5)	60	18	36	25.6	

		100	40		40.4
	PM10	100	40	55	46.4
	SO ₂	80	6.4	7.7	7.06
	NOx	80	7.8	10.5	8.92
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Near North ETP	RSPM (PM2.5)	60	24	40	30.8
	PM10	100	39	54	45.4
	SO ₂	80	5.8	9.3	7.24
	NOx	80	6.7	13.3	9.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
TSDF	RSPM (PM2.5)	60	20	42	29.6
	PM10	100	43	50	46.2
	SO ₂	80	4.4	10.2	6.9
	NOx	80	5.3	12.5	8.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Main Guest House	RSPM (PM2.5)	60	19	24	21.4
	PM10	100	47	50	49
	SO ₂	80	6.2	7.3	6.78
	NOx	80	6.8	7.5	7.28
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Wyeth Colony	RSPM (PM2.5)	60	22	26	24
	PM10	100	45	50	47.2
	SO ₂	80	6.4	7.8	7.2
	NOx	80	5.9	8.1	6.7
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Gram Panchayat	RSPM (PM2.5)	60	23	27	25
Hall	PM10	100	47	53	49.8
	SO ₂	80	5.6	8.2	6.92
	NOx	80	5.1	7.3	6.52
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND

			1	1	1	-	
		Main Office North Site	RSPM (PM2.5)	60	21	23	22.2
			PM10	100	41	55	47
			SO ₂	80	6.5	8.2	7.22
			NOx	80	7.1	8.2	7.78
			Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
		Haria Water Tank	RSPM (PM2.5)	60	14.2	34.8	24.88
			PM10	100	45.7	56.8	51.42
			SO ₂	80	6.8	13.5	10.06
			NOx	80	9.5	16.3	12.96
			Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
2.	All measures shall be taken to prevent soil and ground water contamination The project proponent shall submit the detailed study						exure II ockdown nce utility a source eakages We are zardous pervious ent soil il quality Pvt.Ltd, ality. The
	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	Complied. 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. Latest Soil and Groundwater analysis report for year 2019-20 is attached as Attachment A.					

A.2: \ 4.	waste water generation from the CPP and shall adopt the additional mitigation measures as may be suggested through such studies. WATER The fresh water requirement for the	Compl The av	l ied. /erage water cons	umption for the reg	port period is
	proposed expansion shall not exceed 2095 KL/day and it shall be met through	895 KI	0	well within the pe	ermissible limit of 2095
	the existing water supply system from River par.	Sr. No.	Month	Qty. F/W (KL/Month)	Avg. Qty. F/W (KL/Day)
		1	April 20	3543	118
		2	May 20	26636	859
		3	June 20	34560	1152
		4	July 20	31650	1021
		5	August 20	32720	1055
		6	September 20	34985	1166
5.	Metering of water shall be	Compl	liance/06 dated 19	0	e letter Atul/SHE/EC
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 mainta	etic water flow me line (outlet) at RO ained. We are not (permeate line. Its r using ground wate	inlet line of ETP and records are regularly er tapped in any case ource of water is river
		Water	meter @Inlet line	Water me	eter @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.	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. Month Waste Water Avg. Waste Wa				
		No.		Generation (KL/Month)	Generation/ Reused Qty.(KL/Day)	
		1	April 20	1000	33	
		2	May 20	3925	127	
		3	June 20	4056	135	
		4	July 20	4250	137	
		5	August 20	4368	141	
		6	September 20	4659	155	
7.	There shall be no discharge of industrial effluent from the proposed project in any case.					

8.	Domestic waste water generation shall not exceed 1 KL/day Which shall be disposed of into soak system.	of EC during The average 0.54 KL/day	report period. wastewater gene only which is we	not exceeding the prescribed limit eration for the report period is ell within the limit. Domestic waste pit / septic tank system. Domestic Waste Water Generation (KL/Day) 0.32 0.47	
		3	June 20	0.59	
		4	July 20	0.55	
		5	August 20	0.62	
		6	September 20	0.71	
9.	The unit shall provide	Complied.			
	metering facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.	tank and reu maintained. Photograph	ise system of was of water meter is		
		We are reus storage yarc hydrant mak are achievin Captive pow	t to attend coal sn ce up, Gardening p g ZLD. No waste v	Water meter @Reuse line water in ash quenching , coal noldering, dust suppression, fire plants & floor cleaning. Hence, we water discharge to ETP from our	
10.	Proper logbooks of waste water reuse system showing quantity and quality of effluent reused shall be maintained and furnished the GPCB from time to time.	Complied. We are properly maintaining logbook of water consumptive waste water generation & reuse data showing quantity of quality of effluent. The data is furnished through EC complian			

11.	Rain water harvesting of	Complied.				
	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 two 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 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. Total No. of Pond: 2 Nos. Capacity of Pond: (1 Nos. x 12000 KL) & (1 Nos. x 2000 KL) Company has harvest 9.63 lac KL rain water during 2019.				
A.3 A	Air:					
12.	Existing two coal fired steam boilers shall be replaced with two AFBC Boilers having capacity 50 TPH each.	Complied. The old coal fired steam boilers are replaced with higher efficiency AFBC boilers with adequate APC facility (4 field ESP).				
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. Month No. 1 1 May 20 2 June 20 3 July 20 4 August 20 5 September 20	Avg. Fuel consumption MT 12981 14601 14230 13522 14921 compliance period confirm that			

14.	Sulfur and ash content of	Complied	l.			
	the fuel to be used shall be analyzed and its record shall be maintained.	We are using Indian coal or Imported coal and lignite in different proposition as per availability. We are regularly monitored and analyzed the proximate & ultimate analysis of coal / Lignite which show % Ash content, GCV, Sulphur content and heavy metal present in coal /lignite.				nd ch
			ent: 30-35 % (Indiar Content: <0.1% (Indi	,		
15.	A Long term study of radio activity and heavy metal contents in coal/ lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/lignite and Fly ash (Including bottom ash) shall be put in place. Height of flue gas stacks attached to boilers shall	has beer	o activity and heavy n carried out and Re I/SHE/EC Complianc	eport had bee	n submitted vide o	
	be minimum 74.58 meters.	Height of the stack is 106 meters. The emission is disperse through adequate height of stacks as per CPCB standard as give below:				
		Stack No.	Stack Attached to	Stack Height In meter	APCM	
		1	Boiler (50 TPH x 2Nos.)	106	ESP with 4 field	
			rs: Stack Height H=1 f the stack is 106 m		actually higher the	an
17.	A flue gas stack of 74.58m height shall be provided with online monitoring system to proposed steam boiler.	Complied. Height of the stack is 106 meters attached to Boiler (50 TPH \times 2 Nos.). We have installed online monitoring system to boiler for SPM, SO ₂ and NOx and the same is connected to CPCB server.				

	Mercury gas emission from	Complied.
	stacks shall also be monitored on periodic basis.	Mercury emission is also monitored on monthly basis by NABL approved agency.
		For Mercury stack emission data please refer specific condition No.1.
		No Mercury is detected in Flue gas stack in the monitoring results.
18.	High efficiency Electro static precipitators (ESP)	Complied.
	with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers.	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 42 mg/Nm ³ which is below permissible limit of 50mg/Nm ³ . Photograph of ESP is shown below:
		ESP
	The ESP shall be operated efficiently to ensure that	Complied.
	particulate matter emission does not exceed the GPCB norms.	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%).
	norms.	which shows that LSF is working enclency (33.370).
		For PM stack emission data please refer specific condition No.1

	The control system shall be designed and	Complied.
	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.	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
19.	Third party monitoring of the functioning of ESP along with efficiency shall be carried out once in a year through a reputed institute / organization.	Complied. We are regularly monitoring the functioning of ESP along with efficiency once in year through a reputed institute. The monitoring has been carried out by GPCB approved (schedule-II) M/s. Pollucon Laboratories Pvt.Ltd, surat NABL approved TC-5945, issue date-28/05/2019 and validity till 27/05/2021 and ESP efficacy found satisfactory (i.e. 99.9% efficiency).
20.	Lime stone injection technology shall be adopted to control SO ₂ and it shall be ensured that SO ₂ levels in the ambient air do not exceed the prescribed standards.	 Complied. We have adopted lime stone injection technology to control SO₂ emission in atmosphere as standard prescribed in the Environment (protection) Rules 1986 as amended from time to time and interconnected with the online emission monitoring system. Ambient Air quality analysis report shows that SO₂ levels is below the prescribed standards during the report period. For Ambient Air quality data please refer specific condition No.1

prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPS and assign responsibility of preventive maintenance to the senior officer of the company. Diesel to the tune of 300 Lit/hr shall be used as a fuel in stand –by D. G. Set (1500 KVA)	preventiv our syste / activitiv electrical percenta as per reviewed Complied	npany is ISO 14 ve maintenance of em. We have stanc es (monthly, By 1 l parts or equipme age completion of p schedule. These d / approved by ser d.	all the critical lard preventive monthly, yearly ent's of ESPS. \ reventive maint scheduled has hior officer of the	equipment is a part of maintenance schedul /) of mechanical and We have recorded the enance assigned wor been prepared and e company.
The flue gas emission from DG set shall be dispersed through adequate stack height as per CPCB standards. At no time the emissions levels shall go beyond the stipulated standards. Acoustic enclosure be provided to DG set to mitigate the noise	Adequat of D.G. se Complied	e stack height of 1 et (1010 KVA) as p d.	er CPCB stand	ards.
	carry out regular preventive maintenance of mechanical and electrical parts of ESPS and assign responsibility of preventive maintenance to the senior officer of the company. Diesel to the tune of 300 Lit/hr shall be used as a fuel in stand –by D. G. Set (1500 KVA) The flue gas emission from DG set shall be dispersed through adequate stack height as per CPCB standards. At no time the emissions levels shall go beyond the stipulated standards.	carryoutregular preventiveOur com preventive our syster / activiti electrical percentor as per reviewedDiesel to the tune of 300 Lit/hr shall be used as a fuel in stand –by D. G. Set (1500 KVA)Complied Diesel to the tune of 300 Lit/hr shall be used as a fuel in stand –by D. G. Set (1500 KVA)Diesel complication Sr. No.The flue gas emission from DG set shall be dispersed through adequate stack height as per CPCB standards. At no time the emissions levels shall go beyond the stipulated standards.Complication ComplicationAcousticenclosure be provided to DG set to mitigateComplication to DG set to We have	carryoutregular preventiveOur company is ISO 144 preventive maintenance of our system. We have stand activities (monthly, By 1 electrical parts or equipme percentage completion of p as per schedule. These reviewed / approved by serDiesel to the tune of 300 Lit/hr shall be used as a fuel in stand –by D. G. Set (1500 KVA)Complied.The flue gas emission from DG set shall be dispersed through adequate stack height as per CPCB standards. At no time the emissions levels shall go beyond the stipulated standards.Complied.The flue gas enclosure be provided to DG set to mitigate the noiseComplied.Complied.Complied.Complied.May 20Sept. 20Sept. 20Complied.Sept. 20Complied.Sept. 20Complied.May 20Sept. 20Sept. 20Complied.Sept. 20Complied.Sept. 20Complied.Sept. 20Sept.	carryoutregular preventivepreventivemaintenanceofmechanicaland assign responsibility ofpreventiveofpreventivemaintenance to the senioractivitiesofficer of the company.compled.Diesel to the tune of 300 Lit/hr shall be used as a fuel in stand -by D. G. SetComplied.(1500 KVA)Sr. No.MonthDiesel to the tune of 300 Lit/hr shall be used as a (1500 KVA)Sr. No.MonthDiesel (KL/Month)1April 206Sept. 202May 202May 203June 20044July 205Aug. 20064July 205Aug. 20065Aug. 20066Sept. 205Standards. At nonotime the emissions levels shall go beyond the stipulated standards.Acousticenclosure be provided to DG set to mitigateAcousticenclosure be provided Acoustic enclosure to be

24.	Online monitoring system shall be installed to monitor the SOx, NOx and	Complied.				
	SPM in the flue gas stack.	Online monitoring system for SPM, SO ₂ and NOx is already been made and connected to CPCB server.				
		Restructed Madity Strange				
		Forbes Marshall ATUL LTD-VALSAD				
		ATUL LTD, POST-ATUL, VALSAD, VALSAD, GUJARAT - 396020				
		Station Report Station: Stack 1_GAS_50 TPH BOILER				
		From : 01-09-2020 00:00 To : 30-09-2020 23:59:59				
		Instantaneous Function:				
		ee water				
		- The set of the set o				
		The second se				
		1 μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ				
		K - Average with less date, C - Calibration mode, M - Maintenance mode, S - Data under schafty, B - Bad date, H - High permissible limit crossed, L - Low permissible limit crossed, P - Processed Date, V - Connoted Date, D - Delayed Date, R- Average with Average with Average with Average and				
		Calender SOx NOx				
		Linds mgNm3 mgNm3				
		Tanga				
		01-05-2020-00007/95 3.00 41.00				
		01-05-2020 00:08:28 3.00 41:00				
		01-05-2020 00:08:95 3:00 4:2:00				
		01406-2020.00.00258 3.00 42.00				
		01-09-2020.00/19:01 0.00 0.00				
		Page 1 of State Industrial Table State Sta				
	An arrangement shall also be done for reflecting the	Complied.				
	online monitoring result on	We have arrangement of reflecting the online monitoring result				
	the company's server,	on the company's server, which can be assessable by the				
	which can be assessable	constructed.				
	by the constructed.					

25.	Adequate storage facility for the fly ash in terms of closed silos shall be provided at site. No pond shall be constructed.	of be ndWe have not constructed ash pond for the CPP closed three silo of 200 MT and Two silo of 300 I each, total 1200 MT capacity, which is well e average generation of report period 173 TPD. W fly ash daily from these silos so we have not prepo Fly ash / bottom ash generation and disposal of period is shown in below table:Fly AshUnitMay 20Jun 20Jul 20Au					00 MT cc I enoug We dis repare as al data t	apacity of h for our patch the sh pond.
		Disposal	MT	4241	6311	5645	3713	6440
		Photograph o	f Closed	silos for I	=ly ash /	Bottom	n ash sto	rage:
26.	Handling of the fly ash shall be through a closed pneumatic system.	Complied. We are handli which is show	n below:	Dense ph				vstem

27.	Ash shall be handled only in dry 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 condition No. 25.		
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.	 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 for transfer of coal. Water sprinkle 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 transfer points 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 shuit, dust mask, safety goggles, face shield, safety shoes etc. 		

All handing & transport of coal & Lignite shall be exercised through covered coal conveyors only.	Complied. All handing & transport of coal & Lignite is done through covere coal conveyors only. Image: Conveyors only.
Provided at coal / Lignite loading and <u>uploading operations</u> Water shall be sprinkled on coal / Lignite stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	Enclosure is provided at coal / Lignite loading and uploading operations Complied. 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.
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.
Adequate dust suppression / extraction system at crusher house as well as for the coal/ Lignite stock yard and other vulnerable areas shall be provided 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 area to abate dust nuisance.

Accumulated coal dust / fly ash on the ground and	Complied.
surfaces shall be removed / swept regularly and water the area after sweeping.	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.
Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	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	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
transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	

	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: v = v = v = v = v = v = v = v = v = v =
30.	Regular Monitoring of ground level concentration of PM2.5, PM10, NOx, SO2 and Hg shall in the impact zone and its records shall be maintained.	Complied. We are regularly monitoring ground level concentration of PM2.5, PM10, NOx, 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 stipulated by GPCB.	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 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	Complied.
	prescribed 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.
A.4 S	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.	Not Applicable There is no Hazardous waste generation in Captive Power Plant.
	Authorization from the GPCB shall be obtained for collection /treatment /storage disposal of hazardous waste	Complied. We have CCA Amendment No. AWH – 105110, dated. 16/11/2019. However, no hazardous waste is generated in Captive Power plant.
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.	Not Applicable. There is no Hazardous waste generation in this project.
33.	The used oil shall be sold to only to the registered recyclers / refiners.	Complied. Used oil is being sold to GPCB authorized vendor.
34.	The discarded containers / barrels /bags/ liners shall be sold only to the registered recycler.	Complied . No bags / liners are being utilized for Power Plant.

35.	For storage of fly ash closed silos of adequate capacity shall be provided.	Complied . 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 173 TPD.							
	No ash pond shall be construed in the project.	Complied . No ash pond is construed in the project.							
36.	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc.	be Complied . the ash Fly ash is being given to cement and bricks manufactur also being used for our own Bricks Manufacturing unit. bocks, fictly Complied . Ash and We are strictly complying fly ash notification under EPA that are ensuring that that is 100 % utilization of fly as point of generated from the unit.							
	The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.						ash to be		
		Fly Ash	Unit	May 20	Jun 20	Jul 20	Aug 20	Sep 20	
		Generation	MT	4241	6311	5645	3713	6440	
		Disposal	MT	4241	6311	5645	3713	6440	
		We have don ash.	e agreer	nent with	n Ambuj	a Ceme	ent for su	pply of dry	
37.	All possible efforts shall be made for co-processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Not Applicable. There is no Hazardous waste generated in this unit.							
A.5 S	AFETY:								

38.	The project management	Complied.
	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.	We are complying all the rules and regulation led by MSIHC, 1989. We are complying with Hazardous and Other Wastes (Managements and transboundary Movement) Rules, 2016 towards ETP Sludge, Used Oil & Empty Drums-Handling, and Storage & Disposal to authorized Facility/TSDF. We have obtained valid authorization from GPCB towards handling of above mention waste vide CC&A Amendment No. 105110, dated. 16/11/2019. However, there is no hazardous waste generated in Captive Power Plant.
39.	Necessary precautions like	Complied.
	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	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	Complied.
	measures, general & specific recommendations mentioned in risk Assessments Report shall be implemented.	We will implement all the risk mitigation measures, general & specific recommendations mentioned in risk assessments report
41.	A well designed fire hydrants system shall be installed as per the prevailing standards	Complied. A well designed Fire 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 litre Foam generator with high expansion foam: 2 Nos.

42.	Personal protective Equipment shall be provided to worker and its usage shall be ensured	Complied . PPEs like nose masks, safety goggles, chemical resistive aprons, fire proof apron, Hand gloves, safety helmet, welding goggles,
	and supervised.	ear mugs, safety shoes etc. are provided to the workers and utilization of the PPEs is followed strictly in Power Plant.
43.	First Aid Box and required antidotes for the chemical used in the unit shall be readily available in adequate quantity at all the times	Complied. First aid box are kept in each plant and at strategic locations whereas antidotes are kept in the medical Centre.

4.4		Complia	<u>م</u>				
44.	Occupational health surveillance of the workers	Complied.					
	shall be done its records	Reina da	Being done on regular basis as per the Factories Act & rules.				
	shall be maintained. Pre -	-	-	•	e workers is carried out on		
	employment and periodical				the Factories Act and rule-		
	medical examination for all	-			records are maintained.		
	the worker shall be		2		yees are done by in- house		
	undertaken as per the	-	in following manne	•			
	Factories Act &rules.	doctors	in tono wing marine	1,			
		The follo	wina medical chec	kup has be	en completed during report		
		period:					
			oloyment Check-Up	(In-house)	:		
		Sr.	Employee	Qty.	Check-up		
		No.					
		1	Staff	2688	Pre-employment		
		2	Operators				
		3	Workers				
		Annual I	Medical Check-Up:				
		Sr.	Employee	Qty.	Check-up		
		No.					
		1	Staff	1024	Annual Check-up		
		2	Operators				
		3	Workers				
		 A. F 1. V 2. C 3. C 4. U 5. F 6. V 7. E 8. F 9. F 10. F 11. F 12. Ic B. 7 3. E 4. U 5. F 6. E 	Urine Height Veight A/P Pulse Habit Personal History Gamily History dentification Mark Annual Checkup Physical checkup Vision Blood Urine PFT SCG	neck-up:	ology lab is equipped with		
			•	•	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 3Beds
 Full equipped Pathological lab with advanced diagnostic
equipment
 ECG Equipment
Cardiac monitor
 Finger pulse Oxy meter Bulmongry Function Test Apparatus
 Pulmonary Function Test Apparatus O2Administration
 O2Administration Antidates with routing langestrat and Vital life any ing
 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
AMBULANCE
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 employ found medically fit to work, no contiguous
diseases were observed.

45.	Flameproof fittings shall be provided at the proposed	Complied.				
	power plant.	Flame proof fittings are provided.				
46.	Adequate firefighting facilities shall be provided	Complied.				
	at the proposed power plant	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 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 doluging system at critical reactors				
		 Auto water deluging system at critical reactors Auto water sprinkler system at tank farms Onsite mock drill and firefighting Training 				
47.	Proper ventilation shall	Complied.				
	be provide in the work area.	Proper ventilation provided in work area.				

48.	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	Complied. The roads inside factory are either of cement concrete or Bitumen concrete.
49.	The project management shall prepare a details Disaster management plan (DMP) for the project as the guidelines from Directors of Industrial safety and Health.	Complied. Detailed disaster management plan is already prepared and submitted to your good office vide letter Ref. Atul/SHE/EC Compliance/01 dated 19.12.2019 for the project as the guidelines from Directors of Industrial safety and health.
A.6 N	NOISE:	
50.	To minimize the noise pollution the following noise control measures shall be implemented.	Complied. We are regularly implemented noise control measures to minimize the noise pollution.
	Selection of any new plant equipment shall be made with specifications of low levels.	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	Complied.
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 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.
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. We 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 machineries and equipment to reduce noise generation.	Complied. Proper oiling lubrication and preventive maintenance is carried out of the machineries and equipment to reduce noise generation.
Construction equipment generating minimum noise vibration shall be chosen.	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 of adequate mufflers on all motorized equipment	Noted &Complied. We are using mufflers on all motorized equipment to reduce noise levels.
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.

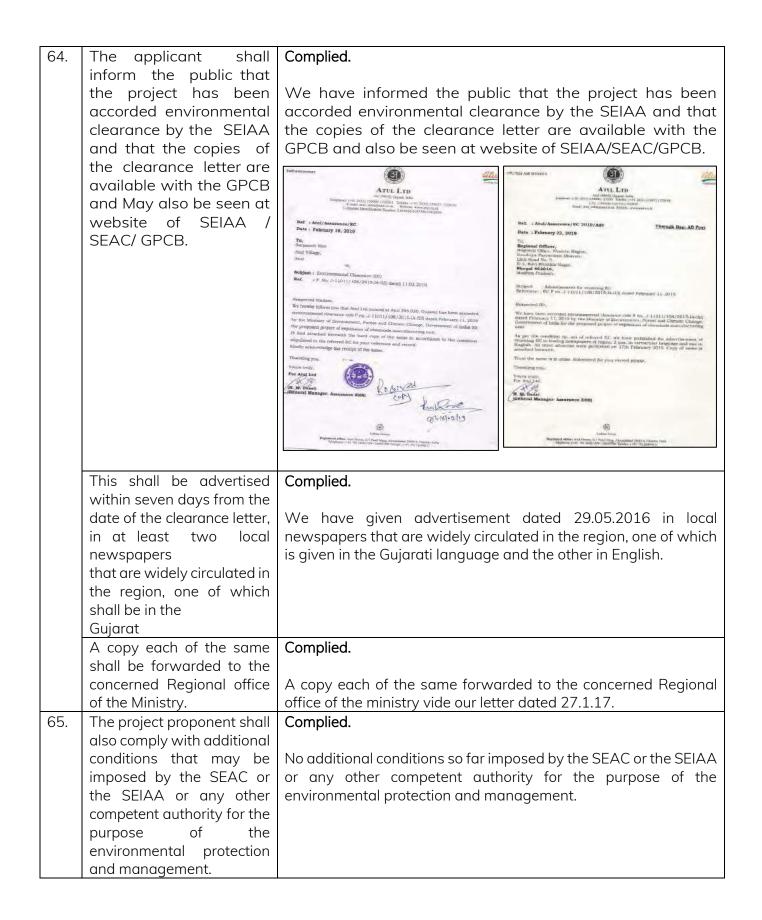
The ambient noise levels shall confirm to the standards prescribed under the Environment (protection) Act and Rules. Workplace noise levels for workers shall be as per the factories Act and Rules.	The ambient and workplace noise level confirms to the standard prescribed under EPA. The same is being regularly 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 (April 20 to September 20) is attached as Annexure III. Summary is given below: Noise level monitoring data (Day Time)Sr.LocationNo.Permissible Limits,Values for the period Apr. 20 to						
				Sep. 20 Min.	Max.	Avg.	
	1	Near Main guest house			63.60	62.20	
	2	Near TSDF	75	63.70	65.80	64.56	
	3	At Wyeth Colony	75	54.60	56.70	55.78	
	4	Gram Panchayat Hall	75	62.50	66.50	64.50	
		Near Main Office North site	75	60.20	64.70	62.54	
	6	ETP North site	75	64.50	69.80	67.02	
	7	Opposite shed D	75	64.80	71.30	68.88	
	8	ETP West site	75	64.50	67.60	65.88	
		Haria Water tank			64.30		
	10	66KVA substation	75	63.80	66.00	64.70	
	Noise level monitoring data (Night Time)Sr.LocationNo.PermissibleValues for Limits,70dBApr. 20 to) to Sep	for the to Sep. 20	
				Min.	Max.	Avg.	
		Near Main guest house			54.40	52.92	
				56.50	55.12		
	3	At Wyeth Colony	70		52.60	51.42	
	4	,			56.70	55.56 56.62	
	5 Near Main Office North 70 53.70 58.50 site						
	6	ETP North site	70	54.20	57.30	55.56	

		-		70			
		/	Opposite shed D	70		58.70	57.74
		8	ETP West site	70	55.10	56.80	
		9	Haria Water tank	70	52.60	55.80	54.20
		10	66KVA substation	70	55.10	57.30	56.38
A 7 G	 GREEN BELT AND OTHER PL4		ION				
52.	The unit shall develop						
	green belt in at least 68000 sq.m 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	d Green belt is developed and we plant more than 500 plants every year. Green belt is comprised of at lea minimum 3 to 4 raw plantation with minimum height native trees is 5 to 6 mtr with thick foliage in the periphe of the factory premises. Proper plantation is done all arou				least ght of phery round tive &	
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.	We plant more than 50000 plants every year on road sides and other open areas in nearby villages or schools in					
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		plied. uch case during the repo ens we ensure to close	•		, if such	n case

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	Complied. 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 Compliance/06 dated 19.12.2019.
	strictly adhered to in letter and spirit.	
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 & Managing Director Chairman & Managing Director Whole Time Director President – Utility & Services VP - Corporate SHE VP - Legal Assurance SHE VP - DOH Manager Mana
58.	The project authorities must strictly adhere to	Noted &Complied We are strictly adhere to stipulations made by the

	stipulations made by the Gujarat Pollution Control Board (GPCB), state government and statutory authority	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- alla 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 Movements) Rules 2016 and the public liability insurance Act, 1991 along with their amendments and rules.	Noted.
61	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.	Complied. Details of CSR projects done during report period is given in Annexure-V.

62.	The project proponent	Complie	ed.		
	shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk .Assessments study repot as well as proposed by project proponent.	All the recommendations suggested in the EMP repo and Risk assessments study repot as well as propose by us have been implemented.			
63.	The project authorities shall earmark adequate funds to implement the conditions 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.	EMP measures for the project are implemented and investment details submitted vide our letter Atul/SHE/EC Compliance/06 dated 19.12.2019 . Further, 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			
		Sr. No.	Parameter	Recurring Cost (Rs. In lacs) Apr 20 – Sep 20	
		1	Air Pollution Control	2069.24	
		2	Liquid Pollution Control		
		3	Environmental Monitoring and Management	19.05	
		4	Solid waste Disposal	293.46	
		5	Occupational health	15	
		6	Green belt	5	
		Total		2401.75	



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	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 have already submitted the 6 monthly compliance reports to the authority for all six monthly periods & same is being updated on website. SN EC Compliance Report Period Submission Date
	June and 1st December of each calendar year. 3 4 5 6 7 8	2Dec 16 to May 1717/07/20173May 17 to Oct 1730/11/20174Nov 17 to Apr 1830/07/20185May 18 to Oct 1831/12/20186Nov 18 to Apr 1923/07/20197Apr 19 to Sep 1919/12/2019
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

Flue Gas Stack Result

	and the second second		and the second second	MAY, 2020	JUNE, 2020	JULY, 2020	AUG, 2020	SEPT., 2020
Sr. No.	Stack Details	Paramenter	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
			Limits	Value		Value	Value	Value
East site	Inna L. H. M							
	FBC boiler El	PM	100 mg/Nm3	62	80	61.6	Not Runnig	71
		SO ₂	600 mg/Nm3	111	121	144		142
11233	Constant States and States	NOx	600 mg/Nm3	106	106	138		176
2	FBC boiler E2	PM	100 mg/Nm3	not running during this	86	71.8	64.1	Not Running
		SO2	600 mg/Nm3	month	110	126	134	
		NOx	600 mg/Nm3		118	121	110	1000
3	FBC boiler E3	PM	100 mg/Nm3	not running	78	66.2	76.1	50.8
	The second second second	SO ₂	600 mg/Nm3	during this month	116	136	140	163
		NOx	600 mg/Nm3	monu	124	130	126	198
4	Hot Oil Unit (Resorcinol Plant)	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
		SO2	100 ppm	month	ND	ND		1000
		NOx	50 ppm		28	31		1000
5	DG set 1010 KVA	PM	150 mg/Nm ³	Stand by	Stand by	38.6	44.6	36.4
	(Standby)	SO2	100 ppm	1 - Carlo	1.	5.2	4.9	6.2
		NOx	50 ppm		1.0000000000000000000000000000000000000	46.4	48.2	41.7
West Site	•							
6	FBC boiler W1	PM	100 mg/Nm3	54.8	59	62.4	83.6	71.8
		SO ₂	600 mg/Nm3	120	123	124	156	156
	A Company of the second	NOx	600 mg/Nm3	126	119	119	122	198
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
		SO ₂	100 ppm	month	ND	ND		
		NOx	50 ppm		23	26		
8	Oil burner Shed B (Stand By)	PM	150.0 mg/Nm3	Stand by	Stand by	Not Runnig	Not Runnig	Not Runnig
		SO2	100 ppm					1213
		NOx	50 ppm					the second
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	41.9	37	44.7	41.2	46.1
		SO2	600 mg/Nm3	109	113	132	140	128
		NOx	300 mg/Nm3	92	108	128	136	160
		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND
10	DG set 1500 KVA (Stand By)	PM	150.0 mg/Nm3	Stand by	Stand by	32.4	30.8	53.8
		SO ₂	100 ppm	399.00		4.4	5.2	7.2
		NOx	50 ppm			42.8	42.4	36.8
North Sit	te							
11	Thermic fluid heater of DCO/DAP Plant	PM	150.0 mg/Nm3	not running during this	ND	43.6	33.8	54.2
		SO ₂	100 ppm	month	ND	14.8	9.8	16.2
		NOx	50 ppm		29	30.1	21.6	24.8

Annexure II: Ambient Air Result

		Limit	May 20	Jun 20	Jul 20	Aug 20	Sep 20
Station	Parameter	microgm/NM ³		-	-		•
	PM 2.5	60	38.1	37.9	22.5	22.4	28.1
	PM10	100	54	53	43.3	43.4	54.8
	SO2	80	12.6	11.7	9.2	9.3	13.8
66 KV	NOx	80	13.6	16.3	13.8	11.7	13.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	30	32	21.3	20.1	22.5
Opposite	PM10	100	50	52	50.2	48.2	50.3
Shed D	SO2	80	7.4	8.5	9.5	8.4	12.6
	NOx	80	10.3	11.2	15.1	11.5	12.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	34	36	20	18	20
	PM10	100	53	55	42	40	42
Near West site ETP	SO2	80	6.6	7.7	7.3	6.4	7.3
inedi vvest site ETP	NOx	80	9.4	10.5	8.2	7.8	8.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	38	40	26	24	26
	PM10	100	52	54	41	39	41
	SO2	80	8.2	9.3	6.2	5.8	6.7
Near North ETP	NOx	80	12.1	13.3	7.1	6.7	7.6
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	40	42	22	20	24
	PM10	100	48	50	45	43	45
	SO2	80	9.3	10.2	5.3	4.4	5.3
TSDF	NOx	80	11.4	12.5	6.4	5.3	6.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	21	19	21
	PM10	100	50	47	50	48	50
	SO2	80	7.1	6.2	7.1	6.2	7.3
Main Guest House	NOx	80	7.5	7.3	7.3	6.8	7.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	24	26	24	22	24
	PM10	100	50	48	46	45	47
	SO2	80	7.2	7.8	7.5	6.4	7.1
Wyeth Colony	NOx	80	7.1	8.1	6.2	5.9	6.2
	Ammonia	850	ND	ND			ND
	HCI	200	ND	ND			ND
Gram panchayat hall	PM 2.5	60	25	27	25	23	25

	PM10	100	51	53	49	47	49
	SO2	80	7.8	8.2	6.5	5.6	6.5
	NOx	80	6.5	7.3	6.9	5.1	6.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	21	23	23	21	23
	PM10	100	55	53	43	41	43
Main office North site	SO2	80	6.8	7.5	6.5	7.1	8.2
Main office, North site	NOx	80	7.8	8.2	7.6	7.1	8.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	34.8	33.6	14.2	15.3	26.5
	PM10	100	54.6	53.3	46.7	45.7	56.8
Haria water tank	SO2	80	11.8	10.6	6.8	7.6	13.5
	NOx	80	14.5	9.5	16.3	11.8	12.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND

Annexure III: Noise Data

Noise level monitoring data (Day Time)

Sr.	Location		Noi	Permissible			
No.							Limits, dBA
		May 20	Jun 20	Jul 20	Aug 20	Sept 20	75
1	Near Main guest house	61.2	62.30	61.40	62.50	63.60	75
2	Near TSDF	63.7	64.80	63.70	64.80	65.80	75
3	At Wyeth Colony	56.4	55.50	54.60	55.70	56.70	75
4	Gram Panchayat Hall	62.5	63.60	64.50	65.40	66.50	75
5	Near Main Office North site	60.2	61.30	62.70	63.80	64.70	75
6	ETP North site	65.6	66.50	64.50	68.70	69.80	75
7	Opposite shed D	64.8	68.40	69.50	70.40	71.30	75
8	ETP West site	64.5	65.40	67.60	65.40	66.50	75
9	Water tank Haria road	62.1	61.20	62.30	63.20	64.30	75
10	Near 66KVA substation	64.7	63.80	64.00	65.00	66.00	75

Noise level monitoring data (Night Time)

Sr.	Location	Noise Le	evel, dBA		Permissible		
No.							Limits, dBA
		May 20	Jun 20	Jul 20	Aug 20	Sept 20	70
1	Near Main guest house	52.1	53.30	52.40	52.40	54.40	70
2	Near TSDF	54.5	55.60	54.50	54.50	56.50	70
3	At Wyeth Colony	52.5	51.40	50.30	50.30	52.60	70
4	Gram Panchayat Hall	56.5	55.60	54.50	54.50	56.70	70
5	Near Main Office North site	53.7	57.30	56.80	56.80	58.50	70
6	ETP North site	57.3	56.20	54.80	54.20	55.30	70
7	Opposite shed D	58.5	57.40	56.50	57.60	58.70	70
8	ETP West site	56.5	55.60	55.10	55.70	56.80	70
9	Water tank Haria road	55.8	54.30	52.60	53.70	54.60	70
10	Near 66KVA substation	57.3	56.20	55.10	56.20	57.10	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 and or prescribed limits by MOEF&CC vide S.O. 3305(E) dated 07/12/2015.
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, Dated20/05/2016 EC No. SEIAA/GUJ/EC/1(d)/340/2016
4	Development of SO2 & NOx emission standards. Development standards for of guide mercury lines / & other	NA	Action by CPCB Action by CPCB
	Review of stack height requirement	NA	Action by CPCB
5	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.
	Use of beneficiated coal	As soon as it is viable option with respect to its limited availability and proximity of source, will be used.	Currently not available.
6	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	-
	Adhere to schedule by	NA	Action by State Dept.

	State Dept.		
	Environment Clearance	Complied	-
	Existing plants shall		
	adopt any of systems		
	mentioned in 13(1)		
	Fly ash Mission shall	NA	Action by GOI
	prepare guideline		
	New plants shall	NA	-
	promote adoption of		
	clean coal & clean power		
7	CC&A status	Complied	Consent no. AWH no. 105110 valid up to 30/9/2025 .
8	Compliance with respect	Complied	Being checked & verified by Regional
	to norms prescribed in		Office of GPCB time to time.
	CC&A for last one year		
9	Overall compliance with	Yes	Fully complied with all the condition
	respect to charter		stipulated in EC as well as CC&A.
	(Yes/No)		

Annexure V: CSR Activities

			Atul Limit	ed		
		CSR projects : A	pril 2020 to S	eptember 2020)	-
No.	Programme	Description	Location	Final Implementing Agency	Estimated budget FY 2020-21 (₹ in lakhs)	Expenditure April 20 to September 20 (₹ in lakhs)
1	Education	Enhancement of education practices in Kalyani Shala	Atul, Valsad (Gujarat)	AFT Atul Kelavani Mandal	75.00	4.14
2	Education	Enhancement of education practices in Atul Vidya Mandir	Atul, Valsad (Gujarat)	AFT Atul Vidyalaya Trust	6.00	0
3	Education	Imparting training to women to become skilled elementary school teachers (Adhyapika) to improve rural education	Valsad (Gujarat)	AFT ARDF	60.00	26.51
4	Education	Sporting a tribal school ,M D Desai school Chondha	Chondha, Navsari (Gujarat)	AFT	5.00	2.51
6	Education	ARDF activities	Atul, Valsad (Gujarat)	AFT ARDF	50.00	23.82
7	Empowerme nt	Skill training to youth as apprentice	Atul, Valsad (Gujarat)	Atul	180.00	0
8	Health	Nutrition Garden project	Villages of Valsad (Gujarat)	AFT BAIF	15.00	0
10	Relief	Relief for COVID - 19	Valsad (Gujarat)	AFT	600.00	561.60
11	Infrastructure	Atul Model Village Project	Atul, Valsad (Gujarat)	AFT	30.00	0
12	Infrastructure	Support to schools and institutes in Ankleshwar	Ankleshwar, Bharuch (Gujarat)	AFT	10.00	2.89
13	Infrastructure	Development of Ulhas Cricket ground		AFT	20.00	0
14	Conservation	Afforestation	Atul, Valsad (Gujarat)	Atul	5.00	0
15	Conservation	Solid waste	Valsad	AFT	50.00	15.09

		Management project	(Gujarat)			
				·		-
16	Conservation	Nature based	Atul, Valsad	AFT	50.00	0
		sewage	(Gujarat)			
		treatment plant				
17	Other	Support to other	Gujarat,	AFT	44.00	0
		institutes	India			
18	Administratio	n expense	50.00	0		
		·				
	Total				1,250.00	636.56

Remark: Due to COVID-19 many budgeted activities could not initiated/completed



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: April 2020- September 2020

Sr. No.	Condition	Compliance
	and Conditions:	
i.	Consent to Establish/ Operate for the project shall be obtain from the State Pollution Control Board as required under the Air (prevention and control of pollution) Act, 1981 and the Water (prevention and control of pollution)Act, 1974.	Complied. We have obtained CTE after receiving ToR. CTE was granted by GPCB Vide No. GPCB/CCA- VSD- 313(12)/ID: 23158/363958 on 25.7.2016 (CTE no. 80394) Valid Till- 17/7/2023. We had applied for amendment in existing CTO after receiving EC. CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO amendment No. AH 102080), Valid Till-03.11.2019. Renewal for the same has been granted (CCA no AWH 105110) valid till 30.9.2025 Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/EC Compliance/01 dated 19.12.2019

ii.	The treated effluent of	Compli	ed.		
	3335 cum/day shall be	The treated effluent recycled in system is Avg.222 KL/Day			
	recycled/reused to meet the requirement of different		ated effluent recycl the reported period		vg.222 KL/Day
	industrial operations, and	uunng	the reported period	4.	
	the remaining treated	Sr.	Month	Total	Avg. KL/Day
	effluent of 20514 cum/day	No.		Recycle	<u> </u>
	shall be discharge to estuary	1	April-2020	1328	44
	of Par River through the existing pipeline.	2	May-2020	6294	203
		3	June-2020	6907	230
		4	July-2020	8399	271
		5	August-2020	8920	288
		6	September-2020	8906	297
		conditio	vithin below limit on. . <mark>Month</mark>	Effluent	in stipulated Avg. KL/Day
		Sr. No.	.Month	Discharged to Estuary of Par	Avg. KL/Day
		1	April-2020	River 50730	1691
		2	May-2020	304178	9812
		3	June-2020	239223	7974.1
		4	July-2020	251128	8101
		5	August-2020	250420	8078
		6	September-2020		8289
		monito The tes Pvt Ltc 28/05/2 The tre control parame The m confirm	eated waste wat red at regular inter- sting lab appointed d, Surat NABL App 2019 and valid till 2 ated effluent is me board's discharge eters of treated effl maximum values of that at no time ted standards. Sum	val for ensuring t d is M/s. Polluco proved TC – 594 27/05/2021. eting all the stat norms and value uent is given in <i>P</i> luring the com the emission we	the compliance. In Laboratories 45, issue date- e pollution es of various Annexure 1. pliance period ent beyond the

		Sr. No.	Parameter	Limit	period Apr. 2	0 - Sep.	20
					Min.	Max.	Avg.
		1	рН	5.5- 9.0	7.35	7.95	7.598
		2	Temperature (°C)	40	31.7	33	32.22
		3	Colour (pt. co. scale)		50	65	57
		4	Suspended solids (mg/l)	100	48	92	71.4
		5	Phenolic Compounds (mg/l)	5	0.035	0.085	0.0498
		6	Cyanides (mg/l)	0.2	ND	ND	ND
		7	Fluorides (mg/l)	2	0.45	0.68	0.556
		8	Sulphides (mg/l)	2	1.1	1.6	1.36
		9	Ammonical Nitrogen (mg/l)	50	22	39.8	30.76
		10	Total Chromium (mg/l)	2	ND	ND	ND
		11	Hexavalent Chromium (mg/l)	1	ND	ND	ND
		12	BOD (3 days at 27°C) (mg/l)	100	41	55	47.8
		13	COD (mg/l)	250	144	180	162.8
iii	Necessary authorization required under the Hazardous and other Wastes Management Rule, 2016 shall be obtain and the Provisions contained in the Rules shall be strictly adhered to.	Existi CTO (No. G 17.7.2 03.11		ng EC. n grante (16)/ID: ent No. / the sar	taining / ed by GF 23158/9 AH 102 me has	PCB Vid 513897 080), Vo been r	nent in e Letter , Dated alid Till-

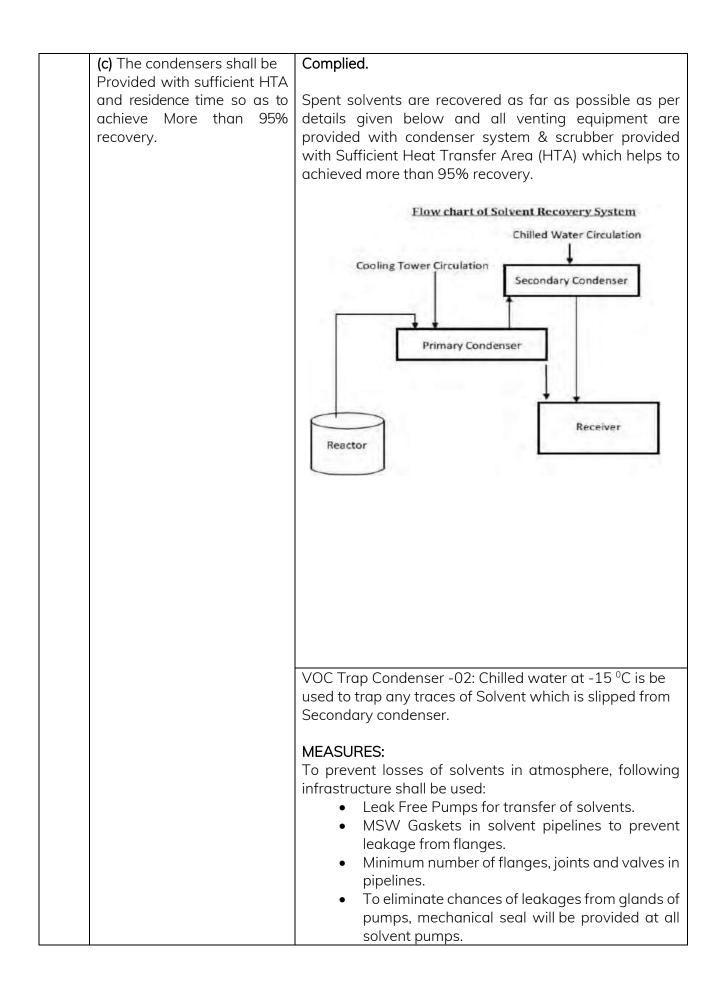
IV	National Emission	Noted & Co	mplied.					
	Standards for organic							
	chemicals Manufacturing	We have b		-				
	Industry issued by the	since begi	0					
	Ministry vide G.S.R. 608(E)	monitoring						
	Dated 21 July, 2010 and	with GPCB						
	Amended from time to time shall be followed.	up wind a maximum						
	shun be followed.	This also co	0					
		same had		•	-			
		MoEF duri			-			
		selected 1			monito	ored suc	cessfully.	
			attached h	nerewith.				
		The Ambie	ent Air Quo	ality is bei	ing moi	nitored o	at regular	
		interval for reputed ag	•	he compli	ance by	y NABL	approved	
			ency.					
			The analysis reports were within the permissible limits. A					
			detail of analysis report of monitoring report is attached in Annexure 2					
		The maxir		-		•		
		confirm the the stipula					-	
		given belov		ilus. i ulu	interer	wise sui	innury is	
		Summary a	of Ambient	Air Quality	y result	S:		
		Station	Values for the period					
			er		micro	Apr. 20 to Sep. 20		
					Apr. 2	0 to Sep	•	
				gram/ NM ³	Apr. 2 Min.	0 to Sep Max.	•	
		66 KV	RSPM	gram/			. 20	
		66 KV	RSPM (PM2.5)	gram/ NM ³ 60	Min. 22.4	Max. 38.1	. 20 Avg. 29.8	
		66 KV	(PM2.5) PM10	gram/ NM ³ 60 100	Min. 22.4 43.3	Max. 38.1 54.8	. 20 Avg. 29.8 49.7	
		66 KV	(PM2.5)	gram/ NM ³ 60 100 80	Min. 22.4 43.3 9.2	Max. 38.1 54.8 13.8	. 20 Avg. 29.8 49.7 11.32	
		66 KV	(PM2.5) PM10 SO ₂ NOx	gram/ NM ³ 60 100 80 80	Min. 22.4 43.3 9.2 11.7	Max. 38.1 54.8 13.8 16.3	20 Avg. 29.8 49.7 11.32 13.78	
		66 KV	(PM2.5) PM10 SO ₂ NOx Ammonia	gram/ NM ³ 60 100 80 80 850	Min. 22.4 43.3 9.2 11.7 ND	Max. 38.1 54.8 13.8 16.3 ND	20 Avg. 29.8 49.7 11.32 13.78 ND	
			(PM2.5) PM10 SO ₂ NOx Ammonia HCI	gram/ NM ³ 60 100 80 80 80 850 200	Min. 22.4 43.3 9.2 11.7 ND ND	Max. 38.1 54.8 13.8 16.3 ND ND	20 Avg. 29.8 49.7 11.32 13.78 ND ND	
		Opposi te	(PM2.5) PM10 SO ₂ NOx Ammonia	gram/ NM ³ 60 100 80 80 850	Min. 22.4 43.3 9.2 11.7 ND 20.1	Max. 38.1 54.8 13.8 16.3 ND ND 32	20 Avg. 29.8 49.7 11.32 13.78 ND ND 25.1	
		Opposi	(PM2.5) PM10 SO ₂ NOx Ammonia HCI RSPM	gram/ NM ³ 60 100 80 80 80 850 200	Min. 22.4 43.3 9.2 11.7 ND ND 20.1 48.2	Max. 38.1 54.8 13.8 16.3 ND ND 32 52	20 Avg. 29.8 49.7 11.32 13.78 ND ND 25.1 50.14	
		Opposi te	(PM2.5) PM10 SO ₂ NOx Ammonia HCI RSPM (PM2.5)	gram/ NM ³ 60 100 80 80 80 850 200 60	Min. 22.4 43.3 9.2 11.7 ND 20.1	Max. 38.1 54.8 13.8 16.3 ND ND 32	20 Avg. 29.8 49.7 11.32 13.78 ND ND 25.1	

	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Near Wes		60	18	36	25.6
Site	PM10	100	40	55	46.4
ETP	SO ₂	80	6.4	7.7	7.06
	NOx	80	7.8	10.5	8.92
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Near North		60	24	40	30.8
ETP	PM10	100	39	54	45.4
	SO2	80	5.8	9.3	7.24
	NOx	80	6.7	13.3	9.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
TSDF	RSPM (PM2.5)	60	20	42	29.6
	PM10	100	43	50	46.2
	SO ₂	80	4.4	10.2	6.9
	NOx	80	5.3	12.5	8.36
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Main Gues		60	19	24	21.4
Hous		100	47	50	49
	SO ₂	80	6.2	7.3	6.78
	NOx	80	6.8	7.5	7.28
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Wye Color		60	22	26	24
	PM10	100	45	50	47.2
	SO ₂	80	6.4	7.8	7.2
	NOx	80	5.9	8.1	6.7
	Ammonia	850	ND	ND	ND

Gram Panch- ayat Hall RSPM (PM2.5) 60 23 27 25 PM10 100 47 53 49.8 SO2 80 5.6 8.2 6.92 NOx 80 5.1 7.3 6.52 Ammonia 850 ND ND ND HCI 200 ND ND ND Main Office North Site RSPM (PM2.5) 60 21 23 22.2 NOx 80 5.1 7.3 6.52 Main Office RSPM (PM2.5) 60 21 23 22.2 NOx 80 7.1 8.2 7.22 NOx 80 7.1 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND Haria Water RSPM (PM2.5) 60 14.2 34.8 24.88 NOx 80 9.5 16.3 12.96				HCI	200	ND	ND	ND
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				RSPM		23	27	25
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			-	, ,	100	47	53	49.8
NOx 80 5.1 7.3 6.52 Ammonia 850 ND ND ND HCI 200 ND ND ND Main Office North Site RSPM (PM2.5) 60 21 23 22.2 NOx 80 6.5 8.2 7.22 Nox 80 7.1 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND NOx 80 9.5 16.3 14.2 SO2 <td></td> <td></td> <td>Hall</td> <td>SO₂</td> <td>80</td> <td>5.6</td> <td>8.2</td> <td>6.92</td>			Hall	SO ₂	80	5.6	8.2	6.92
Main Office North Site RSPM (PM2.5) 60 21 23 22.2 Noth Site PM10 100 41 55 47 SO2 80 6.5 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND HCI 200 ND ND ND PM10 100 41 55 47 SO2 80 6.5 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND HO1 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND <td></td> <td></td> <td></td> <td></td> <td>80</td> <td>5.1</td> <td>7.3</td> <td>6.52</td>					80	5.1	7.3	6.52
Main Office North Site RSPM (PM2.5) 60 21 23 22.2 North Site PM10 100 41 55 47 SO2 80 6.5 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND Haria RSPM (PM2.5) 60 14.2 34.8 24.88 Water Tank PM10 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND				Ammonia	850	ND	ND	ND
Indian Indian<				HCI	200	ND	ND	ND
Site Site Site So2 80 6.5 8.2 7.22 NOx 80 7.1 8.2 7.78 Ammonia 850 ND ND ND HCI 200 ND ND ND Haria RSPM 60 14.2 34.8 24.88 (PM2.5) 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND					60	21	23	22.2
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				PM10	100	41	55	47
Ammonia 850 ND ND Ammonia 850 ND ND ND HCI 200 ND ND ND Haria RSPM 60 14.2 34.8 24.88 Water Tank PM10 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND			Site	SO ₂	80	6.5	8.2	7.22
Haria RSPM 60 14.2 34.8 24.88 Water Tank RSPM 60 14.2 34.8 24.88 PM10 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND				NOx	80	7.1	8.2	7.78
Haria RSPM 60 14.2 34.8 24.88 Water Tank RSPM 60 14.2 34.8 24.88 PM10 100 45.7 56.8 51.42 SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND				Ammonia	850	ND	ND	ND
Water Tank More than a construction of the second seco				HCI	200	ND	ND	ND
SO2 80 6.8 13.5 10.06 NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND					60	14.2	34.8	24.88
NOx 80 9.5 16.3 12.96 Ammonia 850 ND ND ND			Tank	PM10	100	45.7	56.8	51.42
Ammonia 850 ND ND ND				SO ₂	80	6.8	13.5	10.06
				NOx	80	9.5	16.3	12.96
HCI 200 ND ND ND				Ammonia	850	ND	ND	ND
				HCI	200	ND	ND	ND

V	To control source and the	Complied.
	fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/ or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB Guidelines	For controlling source & Fugitive emissions in the work zone environment and raw material storage area is being regularly monitored by NABL approved third party. Further also numbers of gas detectors are provided in work area for close monitoring. We have installed various APCM, special hood, suction pipe for gases emission, Alkaline scrubber and has stack height as per stipulated condition & CPCB guidelines. Elephant trunk with flexible hoods are also provided at potential leak points, sampling points, man holes, charging points and connected with scrubbers.
		We are also monitoring VOC as well as other chemicals in work area as per Factories Act and records are being maintained in Form No. 37.
		Solvents are stored in tank farms in separate tanks with proper earthing, flame arresters, lightening arresters, fencing, Fire hydrant system, Fire extinguishers, flame proof equipment, etc. safety measures. Dedicated Scrubbers with stacks of appropriate height (as per the central pollution control board guideline) have been provided to control the emission from various vents. Central exhaust system has been provided at strategic locations and the critical operations evolving the hazardous gases are routed through multiple stages scrubbing system.
		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 below, detailed analysis report are attached as Annexure 3
		The Flue & Process Stack is being monitored at regular interval for ensuring the compliance by NABL approved reputed agency. Detailed analysis report are attached as Annexure 4

VI	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	Complied.
	mechanical seals to prevent leakages.	We have provided seals at all Reactors and pump's in order to prevent leakage as shown below:-
		Seal at Stirrer Pump Seal



	 All the rotating equipment like pumps will be installed with Mechanical Seals to arrest any sort of emissions.
(d) Solvents shall be stored	Complied.
in a separate space specified 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:-
	Here deter e (10 2) good
(f) Entire plant shall be flame	Complied.
proof. The solvent storage 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.	conde recov are p	e solvent storage ensers & chilled wo	iter circulation ssible and all enser system &	
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 concerned regulatory authority.	Avg. Detai Sr. No. 1 2 3 4 5 6 The confii beyou	Average water con 9047 KL/day only I break up is given Month April-2020 June-2020 July-2020 August-2020 September-2020 maximum values m that at no time and the stipulated ve	v, which is w in below table Qty.F/W (KL/Month) 55141 330696 260453 270328 269512 270162 during the the wastewat alue.	the report period is ell within the limit. e: Avg. Qty. F/W (KL/Day) 1838 10668 8682 8720 8694 9005 compliance period ter generation went

VIII	Industrial/trade effluent shall be segregated into	Complied.					
	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 standards	Industrial/trade effluent is being segregated as show below into High TDS/COD & Low TDS/COD. His COD/TDS stream is subjected to MEE and ATFD. Lo TDS/COD stream is treated in in-house Efflue Treatment Plant and discharged as per stipulated norm It's not exceeding then prescribed limit of EC & CCA. The average wastewater generation for the report period as under:					
	standards			Break up of effluent Kl/Day			
		Sr. No.	Month	High TDS/COD	Low TDS/COD	Total	
			April-2020	12.7	1678.3	1691	
		2	May-2020	74	9738	9812	
		3	June-2020	95	7879	7974	
		4	July-2020	128	7973	8101	
		5	August-2020	142	7936	8078	
		6	September- 2020	129	8160	8289	
		confirm beyond Entire quencl dust s plants Prescri outlet i complia Labora issue d	naximum valu n that at no tim d the stipulated quantity of w hing, coal stord suppression, f floor cleaning. bed Standards is monitored c ance. The test tories Pvt Ltd, ate- 28/05/201 for monitoring	ne the waste d value. aste water age yard to d ire hydrant :: The Waste it regular in ing lab app Surat NABI 9 and valid	is being uti attend coal make up, Water and terval for e ointed is M Approved till 27/05/20	lized in ash smoldering, Gardening alysis at ETP ensuring the l/s. Pollucon TC – 5945, 021.	

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.	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 after giving necessary pre- treatment to remove suspended matter as we have pumped this rain water to clarifloculator units to remove suspended matter.
		We have three numbers of check dams in natural storm water drains to collect and harvest rain water in monsoon season. We are creating facility/ capacity to cater our consumption with rain harvested water with almost 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.
Х	Hazardous chemicals shall	Complied.
	be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps	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 17.7.2019 (CTO amendment No. AH 102080), Valid Till- 03/11/2019. Renewal for the same has been received with consent order no. 105110 valid up to 30.09. 2025. Copy of CTE and CTO was submitted to Ministry vide our
1		letter Atul/SHE/EC Compliance/01 dated 19.12.2019

XII	The Company shall strictly	Complied.		
	comply with the rules and			
	guidelines under	We are complying all the rules and regulation led		
	Manufacture, Storage and	MSIHC, 1989. We are complying with Hazardous a		
	Import of Hazardous	Other Wastes (Managements and transbounda		
	Chemicals (MSIHC) Rules,	Movement) Rules, 2016 t	owards ETP Sludge, Used Oil &	
	1989 as amended time to	Empty Drums- Handling	, and Storage & Disposal to	
	time.		We have obtained necessary	
	All transportation of		rdous and other waste by	
	Hazardous Chemicals shall	0	existing CTO after receiving EC.	
	be as per the Motor Vehicle		en granted by GPCB vide letter	
	Act, 1989.		3(16)/ID: 23158/513897, dated	
			ed vide consent order no. AWH	
		105110 valid up to 30.09	.2025.	
		We have obtained TSDF	- memberships apart from our	
		own TSDF & Incineration	facility.	
		Conditions	Compliance	
		4. Responsibilities of the	e occupier for management of	
		hazardous and other wo	istes.	
		(1) For the	Complied.	
		management of		
		hazardous and	9	
		other wastes,	57	
		an occupier		
		shall follow the following steps,	generation for prevention, reuse, recycling and safe	
		namely:-	disposal to the authorized	
		 Prevention; 	actual user TSDF	
		 Minimization; 	/CHWIF facility.	
		 Reuse, 	,	
		 Recycling; 		
		Recovery,		
		utilization		
		including co-		
		processing;		
		 Safe disposal. 		
		(2) The occupier	Complied.	
		shall be		
		responsible for	We are ensuring for safe	
		safe and environmentall	and environmentally sound	
		y sound	management of hazardous and other wastes.	
		management of		
		hazardous and		
		other wastes.		
		(3) The hazardous	Complied.	
		and other		
		wastes		

generated in	We have our own captive
the	TSDF and Incinerator facility.
establishment	
of an occupier	
shall be sent or	
sold to an	
authorized	
actual user or	
shall be	
disposed of in	
an authorized	
disposal facility	
	Natad & Campiliad
(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	complied.
	We are baying congrate
get its	We are having separate
	hazardous waste storage
other wastes	facility with all safety
treated and	measures to avoid accident.
disposed of by	Also we are adopting safe
the operator of	disposal and storage
a treatment,	practices
storage and	
disposal facility	
shall give to the	
operator of that	
facility, such	
specific	
information as	
may be needed	
for safe storage	
and disposal	
	Complied
	Complied
shall take all the	
steps while	

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managing hazardous and other waste to- • contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and Provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety. (6) Grant of authorization for managing hazardous and other wastes.	Complied. We are strictly agreeing, complying & will continue to comply with all the stipulations made by GPCB as per latest CC&A no.
(7) Power to suspend or cancel an	AWH 105110 valid till 30.9.25. Not Applicable
authorization (8) Storage of hazardous and other wastes	Complied
(9) Utilization of hazardous and other wastes	Complied. Recovered spent solvent are being reused. Used oil & discarded drums are being sent to authorize recycler
(10)Standard Operating Procedure or guidelines for actual users	Noted.
(11) Import and export (transboundary movement) of hazardous and other wastes	Not Applicable

(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,	Complied.
storage and disposal	
facility for hazardous	We have our own captive
and other wastes.	TSDF and Incinerator. We
	also send waste to
	authorized facility as per the
	valid authorization.
(17) Packaging and	Complied.
Labelling – Form 8	
5	All hazardous waste
	transportation is being done
	through appropriate packing
	and labelling as per Form-8.
(18) Transportation of	Complied.
hazardous and other	
wastes	Waste is being transported
	through TREM Card as per
	Haz. Rules.
(19) Manifest system	Complied.
(Movement Document)	
for hazardous and	We are sending waste
other waste to be used	through Online Manifest
within the country only	system of GPCB XGN.
(20) Records and	Complied.
returns	
	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	

Schedule subject to the	
provisions of these	
rules.	
(22) Accident	Noted.
reporting. Where an	No accidents were reported
accident occurs at	during report period during
the facility of the	handling and transportation
occupier handling	of hazardous or other
hazardous or other	wastes.
wastes and operator	
of the disposal	
facility or during	
transportation, the	
occupier or the	
operator or the	
transporter shall	
immediately intimate	
the State Pollution	
Control Board	
through telephone,	
e-mail about the	
accident and	
subsequently send a	
report in Form 1.	
•	er, importer or exporter and
operator of a disposal fa	
(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 operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.	Noted.
 (24) Appeal (a) Any person 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 	Noted & Complied
time. (c) Every appeal filed under this rule shall be disposed of within a	

		period o from the filing.	-	-				
XIII	Fly ash should be stored 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.	Complied. We have have close capacity of enough fo We dispat not prepar Fly ash / MT)for the	not cons ed three of each, or our av tch the fl re ash po bottom	silo of 2 total 12 erage g y ash do ond. ash ger	00 MT 00 MT eneration aily from	and Two capacit on of ap n these s a and d i	o silo of y, which oprox. 30 silos so v isposal o	300 MT 1 is well 00 TPD. ve have
		-	Apr 20				Aug 20	
		Generatio n Disposal				10662 10662	5786 5786	9493 9493
XIV		waste minimization measures as below:-						
	(a) Metering and control of quantities of active ingredients to minimize waste.	Complied. Metering of the collect records ar Photograp	of water ion tank re being oh of wa	and reu maintair ter mete	ise syst ned. er show	n below	vaste wo /:	iter and
	(b) Reuse of by- products from the process as raw materials or as raw material substitutes in other processes.	Sodium S sodium hy are few b sold for u substitute being use sodium hy used as ro	ypochlor y-produ ising the to raw r ed as ray ypochlori	ite, copp cts from same materials aw mate ite, sodiu	per hyd 1 the pr either s. Also, erial fo um hydi	froxide, rocess v as raw fly ash o r brick ro sulfid	spent a which ar materic and gyps manufo	cid, etc. e being al or as sum are acturing.

	(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 wastewater 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: 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.

XVI	All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.	Complied. All the issued raised during public hearing were replied satisfactorily. Towards commitment company has been satisfactorily implementing CER/CSR as per the action plan / schedule; details given in next point xvii. of compliance report. Commitment towards coal transportation in covered truck is complied. Now coal transportation is being done 100% in closed / covered mechanical trucks. Towards employment of local we are consistent in hiring local as per the eligibility / educational cretier. 80% of total employees are from local.
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.	Complied. We ensured that at no time the emission level will go beyond the stipulated standards and or 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.N Stack Capacity/ Param Permissi APCD Fuel o. Details Stack Ht eter ble Limits 1 DG Set H: 10 PM 150 Adequ Diesel 1010KVA MM 150 Adequ Diesel

	1	r				
	(Stand		SO2	100	Stack	
	by)			ppm	Ht &	
	,,		NOx		Acoust	
					ic	
					Enclos	
					ure	
2		11.11		150		Disasl
2	DG Set	H: 11	РМ	150	Adequ	Diesei
	1500KVA			mg/Nm3		
	(Stand		SO2	100	Stack	
	By)				Ht &	
			NOx	50 ppm	Acoust	
					ic	
					Enclos	
					ure	
Pho	tograph of	Stack & S	tack Att	ached to	D.G Set	rs:
Hov	vever, DG s	sets are be	eing use	d only du	ring	
eme	ergency.					

XIX	The unit shall make the	Complied.
		complica.
	arrangement for Protection	
	of possible fire hazards	A well designed Fire hydrant system is adequate and as
	during manufacture ng	per standards.
	process in material handling.	
	Fire-fighting system shall be	Fire hydrant Network details:
	as per the norms.	• Four full-fledged fire hydrant system in the
	1	company Water Storage Capacity - 50 million
		Liters
		 Total length of hydrant line – 15 km
		 Fire Fighting Equipment
		• DCP1350 • CO 2 776 Foam :
		05Trolly
		Fire Tenders
		$_{\circ}$ One fire tender having 1800 Lit water
		capacity
		 Second multipurpose fire tenders having
		5000 Lit water &500Foam
		$_{\circ}$ Third Multipurpose tender having
		facility of DCP- 500 Kg, Foam – 500
		litand 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



XX	Occupation al health	Complied.					
	surveillance of the workers shall be done on a regular basis and records	Being done on regular basis as per the Factories Act & rules.					
	maintained as per the Factories Act.	Occupational health surveillance of the workers out on a regular basis as per section-41 C of the act and ruke-68T of Gujarat Factories Rules an are maintained. Regular medical checkup employees are done by in-house doctors. The following medical check-up has been co during report period: Pre-Employment Check-Up (In-house):					
		Sr. No.	Employee	Qty.	Check-up		
		1	Staff	2688	Pre-		
		2	Operators	-	employment		
		3	Workers	-			
		Annual Medical Check-Up:					
		Sr. No.	Employee	Qty.	Check-up		
		1	Staff	1024	Annual		
		2	Operators		Check-up		
		3	Workers	-			
		1. F 1. \ 2. C 3. C 4. L 5. F 6. \ 7. E 8. F 9. F 10. F 11. F	P re- employmen /ision Colour blindness CBC Jrine Height Veight B/P Pulse		re as below;		
		1. F 2. \ 3. E		•			

	 Our occupational health centre & 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 3Beds Full equipped Pathological lab with advanced diagnostic equipment Cardiac monitor Defibrillator Finger pulse Oxy meter Pulmonary Function Test Apparatus 02Administration 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 check-up 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 employ found medically fit to work, no contiguous diseases were observed

XI	Continuous online (24x7)	Complied.				
	monitoring system for stack	· ·				
	emissions shall be installed	Online monitoring system for SPM, SOx and NOx is				
	for measurement of flue gas	already been made and connected to CPCB server.				
	discharge and the pollutants					
	concentration, and the data	Photograph of online monitoring system (CEMS)				
	to be transmitted to the	connected to 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	Forbes Marshall				
	premises.	ATUL LTD-VALSAD				
	premises.					
		ATULITD, POST-ATUL, VALSAD, VALSAD, GUJARAT - 396020				
		Station Report Station: Stack 1_GAS_50 TPH BOILER				
		From : 01-09-2020 00:00 00 To : 30-09-2020 22 59 59				
		Interval : Instantaneous Function :				
		140 Storwartsen (147), Bans 1, (44, 31 The B11,041 Storwartsen (45), Dave 1, 244, 24 The 5(1,08)				
		- star With construction				
		- The set of the set o				
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		The second s				
		New 04 Sec 07 Sec 13 Sec 13 Sec 14 Sec 14 Sec 25 Sec 28 Sec 28 Sec				
		K - Austage with less dats, C - Cathonidon mode, M - Mantanane mode, S - Data under sondry, B - Bord dats, H - High permiseble limit crossed, L - Low permiseble limit crossed, P - Processed Data, V - Corrected Data, D - Delayed Data, II- Analyzer dati				
		Calender SOx NOs				
		Links mgNen3 mgNen3				
		Rega				
		01-00-2020 00:07-99 3:00 41:00				
		01-06-2020-00-08-28 3.00 41.00				
		01/20-2020 00:00:05				
		01-00-2020 00:00:25 3.00 42.00				
		01-08-2020-00 19:01 0.00 0.00 Peper of 28:00 Mitp/TETELED-Bit Mitted Bit Mitt				

B. Gen	eral Conditions:	
	The project authorities shall adhereto 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 made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority. Our compliances are further monitored by our Environmental auditors appointed by GPCB. Excerpts of latest environmental audit report by Shroff S R Rotary Institute of Chemical Technology (SRICT), Bharuch for year 2019-20 is attached as Annexure 8
11	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 tothe Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures	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.
	required, if any. 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.	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
IV	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.	the stipulated standards. Parameter wise summary is given above in Specific Condition IV
V	The overall noise levels in and around the plant area shall be kept well within the	Complied.

	standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time).		ambient and workpl dard prescribed un arly monitored at re bliance. maximum values o rm that at no time t stipulated standards below: e level monitoring da	der EPA. egular inte during th he emissi s. Parame t a (Day T	The serval for e com on leve eter wis	same is prensur pliance l went l se sumr	being ing the period beyond mary is
		Sr. No.	Location	Permissi ble	Values for the period Apr. 20 to Sep. 20		
		INO.		Limits, 75dB	Min.	Max.	Avg.
		1	Near Main guest house	75	61.20	63.60	62.20
		2	Near TSDF	75	63.70	65.80	64.56
		3	At Wyeth Colony	75	54.60	56.70	55.78
		4	Gram Panchayat Hall	75	62.50	66.50	64.50
		5	Near Main Office North site	75	60.20	64.70	62.54
		6	ETP North site	75	64.50	69.80	67.02
		7	Opposite shed D	75	64.80	71.30	68.88
		8	ETP West site	75	64.50	67.60	65.88
		9	Haria Water tank	75	61.20	64.30	62.62
		10	Near 66KVA substation	75	63.80	66.00	64.70
			e level monitoring da		-	o for the	pariad
		Sr. No.	Location	Permiss ble Limits,	Apr. 2	20 to Se	p. 20
				70dB	Min.	Max.	Avg.
		1	Near Main guest house	70	52.10	54.40	52.92
		2	Near TSDF	70	54.50	56.50	55.12

	3	At Wyeth Colony	70	50.30	52.60	51.42
	4	Gram Panchayat Hall	70	54.50	56.70	55.56
	5	Near Main Office North site	70	53.70	58.50	56.62
	6	ETP North site	70	54.20	57.30	55.56
	7	Opposite shed D	70	56.50	58.70	57.74
	8	ETP West site	70	55.10	56.80	55.94
	9	Water tank Haria road	70	52.60	55.80	54.20
	10	Near 66KVA substation	70	55.10	57.30	56.38

V	The company shall	Complied.
	harvest rainwater from the roof tops of the Buildings and	Rooftop rain water from Coal sheds and New TG building
	Storm water Drains to	is collected in well-constructed pond and used as make
	Recharge the ground water and to utilize the same	up water for cooling tower.
	For process Requirements	We have already two 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.
		Company has harvest 9.63 lac KL rain water during 2019. Capacity of Pond:(1 Nos. x 12000 KL) & (1 Nos. x 2000 KL)
		Photograph of rain water harvesting structure(Pond) as shown below:
		Water Harvesting Water Harvesting
		Project at Colony Project near
		Coconut Circle

VII	Training shall be imparted to	Complied.
	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	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 Handling of Biomedical 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, mock drill. Job-specific training e.g. safe work 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	Complied.
	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	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.	
X	The company shall undertake eco- developmental measures including community welfare measures in the project area for the Overall improvement of the environment.	Complied. CSR projects is given in specific condition (vii)
XI	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental anagement 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 earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Complied. EMP measures are implemented. Recurring cost: A separate budge every year to comply with all the stipulated by SPCB, CPCB & MoE pollution control systems and factor for the report period is given in be S.No. Parameter 1 Air Pollution Control 2 Liquid Pollution Control 3 Environmental Monitoring and Management 4 Solid waste Disposal 5 Occupational health 6 Green belt Total	et is being allocated legal requirement EF apart from upkeep of illities. Total expenditure
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.	Complied. We have informed the public th accorded environmental clearance Delhi and that the copies of t available with the GPCB and als EAC/GPCB.	te by the EAC, MoEF&CC he clearance letter are

XIV	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e- mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of EC and six monthly compliance status report shall be posted on the	
XV	website of the company.Theenvironmentalstatement for each financialyear ending 31st March inForm-V as is mandated shallbesubmitted to theconcernedState PollutionControl Board as prescribedundertheEnvironment(Protection)Rules, 1986, asamended.Subsequently,shallalso be put on thewebsiteof the companyalong withthe status ofcompliance of environmentalclearance conditions andshallalso be sent to therespective Regional Offices ofMoEF&CC by e- mail.	Complied. The Env. Statement (Form-V) for each financial year ending 31 st March is being submitted to State Pollution Control Board (GPCB) every year time to time on XGN portal as well as hard copy submission. Form V submitted for year 2019-20 is attached as Annexure 10

XVI	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the	Complied. We have granted EC Dated: 11.2.2019 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 Guajarati and another in English on 17.2.2019. Details
	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 Ministry.	submitted vide our letter Atul/SHE/EC Compliance/01 dated 19.12.2019
XVII	The project authorities shall inform the Regional Office as well as the Ministry, the Date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied. We have communicated with the regional officer & 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.

Annexure 1: Quality of Treated Effluent

Sr. No.	Parameter			GPCB Limits			
		May 20	Jun 20	Jul 20	Aug 20	Sep 20	
1	рН	7.3	7.65	7.95	7.48	7.56	5.5 to 9.0
2	Temperature oC	32	33	32.5	31.7	31.9	40°C
3	Colour (pt. co. scale)in units	60	50	65	50	60	
4	Suspended solids, mg/l	48	64	78	92	75	64
5	Phenolic Compounds, mg/l	0.03	0.045	0.085	0.048	0.036	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	0.5	0.68	0.55	0.45	0.55	2
8	Sulphides, mg/l	1.4	1.1	1.5	1.2	1.6	2
9	Ammonical Nitrogen, mg/l	30	22	28	34	39.8	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	2
11	Hexavalent Chromium, mg/l	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27oC), mg/l	55	45	50	41	48	100
13	COD, mg/l	180	156	172	144	162	250
Note: N	ND is Not Detectable.						

Note: Kindly note that due to COVID 19 pandemic and lockdown conditions, production plants remain closed for almost all time in April 20. Hence utility consumption was at the lowest and off line monitoring through outside agency could not take place.

Annexure 2: Ambient Air Quality Monitoring Results

Station	Parameter	Limit microgm/NM ³	May 20	Jun 20	Jul 20	Aug 20	Sept 20
	PM 2.5	60	38.1	37.9	22.5	22.4	28.1
	PM10	100	54	53	43.3	43.4	54.8
	SO2	80	12.6	11.7	9.2	9.3	13.8
66 KV	NOx	80	13.6	16.3	13.8	11.7	13.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	30	32	21.3	20.1	22.5
Opposite	PM10	100	50	52	50.2	48.2	50.3
Shed D	SO2	80	7.4	8.5	9.5	8.4	12.6
	NOx	80	10.3	11.2	15.1	11.5	12.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	34	36	20	18	20
	PM10	100	53	55	42	40	42
	SO2	80	6.6	7.7	7.3	6.4	7.3
Near West site ETP	NOx	80	9.4	10.5	8.2	7.8	8.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	38	40	26	24	26
	PM10	100	52	54	41	39	41
	SO2	80	8.2	9.3	6.2	5.8	6.7
Near North ETP	NOx	80	12.1	13.3	7.1	6.7	7.6
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
TSDF	PM 2.5	60	40	42	22	20	24

	PM10	100	48	50	45	43	45
	SO2	80	9.3	10.2	5.3	4.4	5.3
	NOx	80	11.4	12.5	6.4	5.3	6.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	22	24	21	19	21
	PM10	100	50	47	50	48	50
Main Guest House	SO2	80	7.1	6.2	7.1	6.2	7.3
Main Guest House	NOx	80	7.5	7.3	7.3	6.8	7.5
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	24	26	24	22	24
	PM10	100	50	48	46	45	47
Wyeth Colony	SO2	80	7.2	7.8	7.5	6.4	7.1
	NOx	80	7.1	8.1	6.2	5.9	6.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	25	27	25	23	25
	PM10	100	51	53	49	47	49
Gram panchayat hall	SO2	80	7.8	8.2	6.5	5.6	6.5
Gram panenayat nai	NOx	80	6.5	7.3	6.9	5.1	6.8
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND
	PM 2.5	60	21	23	23	21	23
	PM10	100	55	53	43	41	43
Main office, North site	SO2	80	6.8	7.5	6.5	7.1	8.2
	NOx	80	7.8	8.2	7.6	7.1	8.2
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND

	PM 2.5	60	34.8	33.6	14.2	15.3	26.5
	PM10	100	54.6	53.3	46.7	45.7	56.8
Haria water tank	SO2	80	11.8	10.6	6.8	7.6	13.5
	NOx	80	14.5	9.5	16.3	11.8	12.7
	Ammonia	850	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND

Annexure 3: Stack Details

				MAY, 2020	JUNE, 2020	JULY, 2020	AUG, 2020	SEPT., 202
Details	of Process and Flue stack							
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		T	Limits	Value	1999	Value	Value	Value
Atul East	Site							
1	furnace (Phosgene Plant)	PM	150.0 mg/Nm3	32	40	58	41	33
		co		ND	ND	ND	ND	ND
2	Reactor (Phosgene plant- New)	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
Caustic C	hlorine Plant		1. A.	*		Contraction of	7 5.45	1. 2. 1.
3	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	3.5	3.2	4.9	Not running	Not runnin
		HCI	20.0 mg/Nm3	5.8	5.6	5.1		
4	Common stack of HCI Sigri unit 1862	Cl ₂	9.0 mg/Nm3	8.4	4.9	7.1	4.1	6.6
	a state of the second sec	HCI	20.0 mg/Nm3	12.9	8.2	7.4	6.2	7.8
FCB Paln								C. STATIST
5	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	Not in use				and a state
	and the second second	NOx	25.0 mg/Nm3		Not in use	Not in use	Not in use	Not in use
	and the second	INOX.	20.0 mg/ 4m5			No. of States		-
Carlo Contractorio Cont	Acid (East Site)	AND ST		10000000			(Treetife)	
6	Sulfuric Acid Plant	SO ₂ Acid Mist	2.0 kg/T 50.0 mg/Nm3	1.3	0.6	1.6 23.8	1.35 13.8	1.7
34	a second second second second	Acia Mist	50.0 mg/ km3	29.5	11.5	23.0	13.0	10.2
7	ChloroSulfonic Acid plant reactor	Cl ₂	9.0 mg/Nm3	4.9	4.3	8,4	7.2	6.2
		HCI	20.0 mg/Nm3	5.3	13.6	8.6	7.4	6.4
Resorcine	ol Pinat							200
8	Spray Dryer (Resorcinol Plant)	PM	150.0 mg/Nm3	25	27	38	0.95	2.95
9	Scubber vent (Resorcinol Plant)	SO2	40.0 mg/Nm3	32.7	8.3	30.1	33.6	29.3
	1 martin and a second second						Shire and	
Incinerat 10	Incinerator	PM	150.0 mg/Nm3	Not Runnig	43	53.1	63.8	54.1
	menerato	1 INK	150.0 mg/ Milis	During Visit	45	33.1	03.0	54.1
		SO2	40.0 mg/Nm3		12.2	18.6	11.7	14.2
		NOx	25.0 mg/Nm3		15.4	20.7	23.2	19.9
NI Plant						111		
11	Foul Gas Scubber	SO2	40.0 mg/Nm3	27.8	Not Runnig	31.6	28.6	24.2
					During Visit			
		NOx	25.0 mg/Nm3	15.6		19.4	21.8	17.8
2-4-D Pla	nt			12372.03			1	17 6.57
12	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	8.1	5.4	5.2	7.1	5.1
		HCI	20.0 mg/Nm3	8.3	7.3	5.1	7.3	7.3
		Phenol		ND	ND	ND	ND	ND
13	Dryer-1	PM with Pesticide	20.0 mg/Nm3	14.2	7.4	9.4	8.1	11.8
		compound	1		12	in the la		
100-00			10-1-1-19	and the second	10-10-10-10	S	00101	
14	Dryer-2	PM with Pesticide	20.0 mg/Nm3	16.8	6.8	10.1	8.2	9.8
		compound						PA Pre
15	Dryer-3	PM with	20.0 mg/Nm3	15.7	7.3	8.6	14.1	18.3
	La ju o	Pesticide	20.0 mg/ Millo	15.7	1.5	0.0	14.1	10.0
		compound			1			1.1.1.1.1
16	Dryer-4	PM with	20.0 mg/Nm3	18.9	11.4	7.2	9.8	15.9
		Pesticide						
		compound	1.5.5.5		. And the second			1
1.00	Dryer-5	PM with	20.0 mg/Nm3	Not Runnig	9.2	Not running	6.2	10.3
17		Pesticide		During Visit				

NBD Plant .						S. S. S. S. S.	A LOOP DUT	in the second second
18	Spray Dryer	PM	150.0 mg/Nm3	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
3		HCI	20 mg/Nm3	12.4	4.2	17.8	18.2	13.6
20	Scrubber S-801/802	NOx	25.0 mg/Nm3	12.2	7.7	24.8	18.7	23.1
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
	State State State State	r	Limits	Value		Value	Value	Value
CP Plant				-	Sectory of		Sugar 2	
21	MČPA	Cl ₂	9 mg/NM ³	Not Runnig	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
		HC1	20 mg/NM ³	During Visit	During visit	31.322.1		
-		SO2	40 mg/NM ³		and the second second			
22	Fipronil	SO2	40 mg/NM ³	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
	and the second second	HC1	20 mg/Nm3	1 A.		island a	Sec. Aler	
23	Imidaeloprid	NH ₃	175 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
24	Pyrathroids	SO2	40 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnin
		HC1	20 mg/Nm3		1. 1. 1. 1. 1. 1.			
25	Stack at Amine Plant	NHa	175 mg/Nm3	108.0	16.3	Not Runnig	136	115
MPSL Plant		Disc	0.1.00		ND	MID	ND	ND
26	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND		
27	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND
NICO plant 28	Central scrubber at Nico Plant	Acetonytryl e, IPA		-		•		•
Ester Plant		176 - C.S.			and the strength of			
29	Scrubber at Ester plant for Glyphosate	Formaldeh yde	10 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
30	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
31	MPP plant scrubber	HCI	20 mg/Nm3	13.1	Not Runnig	13.2	9.8	12.4
		Phosgene	0.1 ppm	ND	During Visit	ND	ND	ND
Atul West S	Site	1.2.2.2.2	Parket and	1.175.851			05064.57	
32	Shed A05/03/44	CI ₂	9 mg/NM ³	5.1	7.3	6.3	Not Runnig	Not Runnin
		HCI	20 mg/NM ³	5.24	11.3	6.2		
33	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	7.8	5.3	7.4	8.4	Not Runnir
		HCI	20.0 mg/Nm3	10.3	8.2	7.5	8.6	
34	Shed B18/02/24 Fan	SO2	40 mg/NM ³	36.4	14.2	21.6	5.38	24.8
		Cl ₂	9 mg/NM ³	7.7	5.6	8.8	5.2	7.1
		HCI	20 mg/NM ³	7.9	7.3	9	9	8.3
35	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	Not Runnig	6.3	8.4	Not Runnig	Not Runnin
		HCI	20.0 mg/Nm3	During Visit	12.1	8.1		
36	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	Not Runnig During Visit	43	53.8	37.6	Not Runnii
37	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	44.6	51.2	Not Runnir
38	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runni
39	Shed F F6/1/15 Reaction Vessel	Cl ₂	9.0 mg/Nm3	5.6	4.1	8.1	8.1	6.5
Sec. 1	Construction of the second	HCI	20.0 mg/Nm3	17.4	7.3	8.4	8.3	14.8

40	Shed G 10/8/1 (receiver)	Cl ₂ HCI	9.0 mg/Nm3 20.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Running
41	Shed H 11/6/17 chlorinator	Cl ₂	9.0 mg/Nm3	6.9	3.3	7.9	7.3	3.5
	bleu n' my of n' cilor mator	HCI	20.0 mg/Nm3	14.2	8.1	7.6	14.4	14,4
42	Shed K K-13/3/4 Final of Sulfuric acid	0	2.0 kg/T	Not Runnig	0.6	1.6	1.25	1.3
	plant	Acid Mist	50.0 mg/Nm3	During Visit	11.3	2.8	3.9	4.4
43	Shed J15/09/25	HBr		Not Runnig	Not Runnig	ND	ND	Not Runnin
	•	SO ₂	40 mg/NM ³	During Visit	During Visit	16.8	23.9	
Sr. No.	Stack Details	Paramente	Permissible	Obtained	Obtained Value	Obtained	Obtained	Obtained
		r	Limits	Value		Value	Value	Value
44	Shed J12/01/42	SO ₂	40 mg/NM ³	21.8	Not Runnig	26.4	20.3	29.7
		CI2	9.0 mg/Nm3	5.9	During Visit	5.4	8.1	5.2
	and an and a second	HCI	20.0 mg/Nm3	6.1		13.8	8.3	5.34
45	Shed J12/03/36	SO	40 mg/NM ³	Not Runnig	Not Runnig	21.8	29.9	22.3
		HCI	20.0 mg/Nm3	During Visit	During Visit	17.2	14.8	13.9
46	Shed N Scrubber Fan N20/08/24	CI ₂	9 mg/NM ³	5.7	8.4	3.9	6.2	5.9
		HCI	20 mg/NM ³	5.85	14.2	12.8	6.4	11.1
47	Shed N Scrubber Fan N20/02/41	SO2	40 mg/NM ³	29.8	11.6	20.6	26.1	24
48	Sulfer Black Plant	H_2S		Not Runnig During Visit	ND	24.8	ND	ND
	The second second second second second	NH ₃	175 mg/NM ³		17.5	19.4	98	105
49	Sulfer Dyes plant	H ₂ S		Not Runnig During Visit	ND	19	ND	ND
50	Flavors & Fragrances Plant	NH ₃ HCl	175 mg/NM ³ 20 mg/NM ³	Not Runnig	11.3 Not Runnig	30.4 Not Runnig	33.1 Not Runnig	37.2 Not Runnin
	and the second second second			During Visit	During Visit			
Atul North		1.1				131		
51	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig	Not Runnig	Not Runnig
		SO ₂	40.0 mg/Nm3				See 1	
		NOx	25.0 mg/Nm3		ales and a			1.000
			and the second sec		and the second se		and the second se	
1.21112	and the second second second	Formaldeh yde	10.0 mg/Nm3				1120	Carrier.
52	PHIN Plant	A DOMESTIC AND A DOMESTIC AND A DOMESTICAL DESIGNATION OF A DOMESTICAL DESIGNATIONO OF A DOMESTICAL DESIGNATICAL DESIGNATIONO OF A DOMESTICAL DESIGNATICAL DESIGN	10.0 mg/Nm3 0.1 ppm	Not Runnig During Visit	ND	ND	ND	ND
52	and the second second	yde Phosgene	0.1 ppm	During Visit	-			
	PHIN Plant PHIN-II Plant DDS Plant (Pharma Plant)	yde Phosgene HCl	0.1 ppm 20 mg/NM ³	During Visit 5.2	7.3	7.4	5.8	3.15
53	PHIN-II Plant	yde Phosgene	0.1 ppm	During Visit	-			3.15
53 54	PHIN-II Plant	yde Phosgene HCl	0.1 ppm 20 mg/NM ³	During Visit 5.2 Not Runnig	7.3	7.4	5.8	3.15
53 54 55	PHIN-II Plant DDS Plant (Pharma Plant)	yde Phosgene HCI NH ₃	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3	During Visit 5.2 Not Runnig During Visit	7.3 43.2	7.4 Not Runnig	5.8 Not Runnig	3.15 Not Runnir
53	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS)	yde Phosgene HCI NH ₃ SO ₃	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4	7.3 43.2 ND	7.4 Not Runnig 15.1	5.8 Not Runnig ND	3.15 Not Runnir ND
53 54 55 55	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140	7.3 43.2 ND 62.4	7.4 Not Runnig 15.1 120	5.8 Not Runnig ND 120	3.15 Not Runnir ND 126
53 54 55 55 56	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ NH ₃	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained	7.3 43.2 ND 62.4 69.6	7.4 Not Runnig 15.1 120 58 15.8 0btained	5.8 Not Runnig ND 120 63 ND Obtained	3.15 Not Runnir ND 126 92 ND Obtained
53 54 55 56 57 Sr. No.	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ 	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1	7.3 43.2 ND 62.4 69.6 4.3	7.4 Not Runnig 15.1 120 58 15.8	5.8 Not Runnig ND 120 63 ND	3.15 Not Runnir ND 126 92 ND
53 54 55 56 57 Sr. No. East site	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ Paramente T	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value	5.8 Not Runnig ND 120 63 ND Obtained Value	3.15 Not Runnin ND 126 92 ND Obtained Value
53 54 55 56 57 Sr. No.	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6	5.8 Not Runnig ND 120 63 ND Obtained	3.15 Not Runnin ND 126 92 ND Obtained Value 71
53 54 55 56 57 Sr. No. East site	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144	5.8 Not Runnig ND 120 63 ND Obtained Value	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T PM SO ₂ NOx	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T PM SO ₂ NOx PM	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138 71.8	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site 1	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T PM SO ₂ NOx	0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106 not running	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142 176
53 54 55 56 57 Sr. No. East site	PHIN-II Plant DDS Plant (Pharma Plant) SPIC II Plant (DCDPS) SPIC I Plant SPIC IV Plant Stack Details FBC boiler El	yde Phosgene HCI NH ₃ SO ₃ NH ₃ SO ₃ NH ₃ SO ₃ Paramente T PM SO ₂ NOx PM SO ₂	0.1 ppm 0.1 ppm 20 mg/NM ³ 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ Permissible Limits 100 mg/Nm3 600 mg/Nm3 100 mg/Nm3 100 mg/Nm3	During Visit 5.2 Not Runnig During Visit 25.4 140 112 15.1 Obtained Value 62 111 106 not running during this	7.3 43.2 ND 62.4 69.6 4.3 Obtained Value 80 121 106 86 110	7.4 Not Runnig 15.1 120 58 15.8 Obtained Value 61.6 144 138 71.8 126	5.8 Not Runnig ND 120 63 ND Obtained Value Not Runnig 64.1 134	3.15 Not Runnir ND 126 92 ND Obtained Value 71 142

		NOx	600 mg/Nm3		124	130	126	198
4	Hot Oil Unit	PM	150.0 mg/Nm3	not running during this	ND	ND	Not Runnig	Not Runnig
1.55	(Resorcinol Plant)	SO2	100 ppm	month	ND	ND		
-		NOx	50 ppm		28	31		
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	Stand by	Stand by	38.6	44.6	36.4
		SO2	100 ppm	chain 2)	chain by	5.2	4.9	6.2
N.C.L.	2010.400.0044	NOx	50 ppm			46.4	48.2	41.7
West Sit	te		ov ppm			1011	1012	
6	FBC boiler W1	PM	100 mg/Nm3	* 54.8	59	62.4	83.6	71.8
5		SO2	600 mg/Nm3	120	123	124	156	156
		NOx	600 mg/Nm3	126	119	119	100	198
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	during this	ND	ND	Not Runnig	Not Runnig
		SO2	100 ppm	month	ND	ND		
		NOx	50 ppm		23	26		
8	Oil burner Shed B	PM	150.0 mg/Nm3	Stand by	Stand by	Not Runnig	Not Runnig	Not Runnig
	(Stand By)	SO ₂	100 ppm					
		NOx	50 ppm		202.3	1. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
9	Boiler (50 TPH 2 Nos) (New boilers) W2,W3	PM	50 mg/Nm3	41.9	37	44.7	41.2	46.1
Jan		SO ₂	600 mg/Nm3	109	113	132	140	128
	a state a series of the	NOx	300 mg/Nm3	92	108	128	136	160
	Contraction of the	Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	Stand by	Stand by	32.4	30.8	53.8
	(Stand By)	SO ₂	100 ppm			4.4	5.2	7.2
200	a second a second se	NOx	50 ppm		SYSTEMES!	42.8	42.4	36.8
North Si	ite	120	S. President		and the same			and the
11	Thermic fluid heater of	PM	150.0 mg/Nm3	not running during this	ND	43.6	33.8	54.2
	DCO/DAP Plant	SO2	100 ppm	month	ND	14.8	9.8	16.2
-		NOx	50 ppm		29	30.1	21.6	24.8

Annexure 4: Flue Gas Stack Details

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

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

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

Sr. No.	Stack Details	Stack Htm	Parameter	Permissible Limit	APCD	
	ast Site					
1		1	DM	150	Alkali & Water	
1	New Phosgene plant-Furnace	15	PM	150 mg/Nm ³	Scrubber	
2	New Phosgene	15	СО		Alkali & Water	
	plant -Reactor		Phosgene	0.1 ppm	Scrubber	
Caus	tic Chlorine Plant					
3	Dechlorination	35	Cl ₂	9 mg/Nm3	Alkali Scrubber	
4	Plant(Hypo unit)	25	HCI	20 mg/Nm3		
4	Common Stack of HCl Sigri unit	25	Cl ₂ HCI	9.mg/Nm3 20 mg/Nm3	Alkali Scrubber	
<u>C. I</u>	1& 2					
Sultu	ric Acid (East Site)					
5	Sulfuric Acid	30	SO ₂	2.0 kg/T	Water Scrubber	
	plant		Acid Mist	50 mg/Nm3	With DCDA System	
6	Chloro Sulfonic	11	Cl ₂	9mg/Nm3	Caustic And Water	
	Acidplant reactor		HCI	20mg/Nm3	Scrubber	
FCB F	Plant					
7	Foul Gas	26.5	SO ₂	40mg/Nm3	Caustic scrubber	
	Scrubber		NOx	25mg/Nm3		
Incine	erator					
8	Incinerator	40	PM	150mg/Nm3	Alkali& water	
			SO ₂	40mg/Nm3	scrubber	
			NOx	25mg/Nm3		
NI Plo	ant					
9	Foul Gas	26.5	SO ₂	40mg/Nm3	Caustic scrubber	
	Scrubber		NOx	25mg/Nm3		
NBD	Plant	·				
10	Spray Dryer	21	PM	150mg/Nm3	Water Scrubber	
			NOx	25mg/Nm3	1	
11	Scrubber S-902	25	Phosgene	0.1 ppm	Caustic scrubber	
12	Scrubber S-	25	HCI	20mg/Nm3	Caustic scrubber	
	801/802		NOx	25mg/Nm3		
2-4-[) & related Products:	<u> </u>	I		1	
13		5	Cl ₂	9mg/Nm3	Caustic scrubber	
			HCI	20mg/Nm3	1	

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

Atul \	West Site				
35	Shed A05/03/44	19	Cl ₂	9 mg/NM3	Caustic Scrubber
			HCI	20 mg/NM3	
36	Shed B2/12/24	19	Cl ₂	9 mg/NM3	Caustic Scrubber
	Reaction Vessel		HCI	20 mg/NM3	
37	Shed B18/02/24	19	SO ₂	40 mg/NM3	Caustic Scrubber
	Fan		Cl ₂	9.0mg/Nm3	
			HCI	20 mg/Nm3	
38	Shed C5/20/15	19	Cl ₂	9 mg/NM3	Alkali& Water
	Chlorinator		HCI	20 mg/NM3	Scrubber
39	Shed D Niro Spray	19	PM	150 mg/Nm ³	Water Scrubber
	dryerNo.45			5	
40	Shed D Niro			150 mg/Nm ³	Water Scrubber
	Spray dryer No. 50	19	PM	5	
41	Shed E 7/12/49	19	PM	150 mg/Nm ³	Water Scrubber
	Spray Dryer			5	
42	Shed F 6/1/15	19	Cl ₂	9 mg/NM3	Alkali& Water
	Reaction Vessel		HCI	20 mg/NM3	Scrubber
43	Shed G 10/8/1	19	Cl ₂	9 mg/NM3	Alkali& Water
	(receiver)		HCI	20 mg/NM3	Scrubber
44	Shed H11/6/17	19		5	Alkali& Water
	Chlorinator				Scrubber
45	Shed K K-13/3/4	19	SO ₂	2 kg/T	Alkali& Water
	Final of Sulfuric acid		Acid Mist	50 mg/NM3	Scrubber
	plant			J.	
46	Shed J15/09/25	19	HBr		Alkali& Water
			SO ₂	40 mg/NM3	Scrubber
47	Shed J12/01/42	19	SO ₂	40mg/NM3	Alkali& Water
			Cl ₂	9.0mg/Nm3	Scrubber
			HCI	20 mg/Nm3	
48	Shed J12/03/36	19	SO ₂	40 mg/NM3	Caustic Scrubber
49	Shed N Scrubber	19	Cl ₂	9 mg/NM3	Caustic Scrubber
	Fan N20/08/24		HCI	20mg/Nm3	
50	Shed N Scrubber	19	SO ₂	40mg/NM3	Alkali& Water
	Fan N20/02/41				Scrubber
51	N-FDH Plant	31.5	PM	150 mg/Nm ³	Bag Filter
	Catalytic		SO ₂	40mg/Nm3	
	Incinerator		NOx	25mg/Nm3	
			Formaldehyde	10mg/Nm3	
			-	-	
52	PHIN Plant	15.5			Water Scrubber
			Phosgene	0.1 ppm	Followed By Two
					Stage Caustic
					Scrubber With
					Ammonia/Steam
F 2		20			Injection At stack
53	DDS (Pharma	20	NH ₃	175mg/Nm3	Water Followed By
	Plant)				Acid Scrubber

54	SPIC II Plant				Alkali & Water
	(DCDPS)	30	SO3		Scrubber
55	SPIC I Plant	30	NH ₃	175mg/Nm3	Water Scrubber
					Followed By Two
					Stage Caustic
					Scrubber With
					Ammonia/Steam
					Injection At Stack
56	SPIC IV Plant	2	NH ₃	175mg/Nm3	Alkali & Water
			SO ₃		Scrubber
57	PHIN II Plant	21	HCI	20mg/Nm3	Water Scrubber
			Phosgene	0.1 ppm	Followed By Two
			-		Stage Caustic
					Scrubber With
					Ammonia/Steam
					injection At Stack

Annexure 5: Details of Solvent Storage

Sr. No.	Name of	Quantity		Place of its	State &	Type of	Control Measures
INO.	Hazardous Substance	Max. qty. can be stored	Qty. stored	- Storage	Operating Pressure & Temp.	Hazard	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	Phenol	180+ 60MT	120+40 MT	PH-II Anisole tank farm	Temp- Ambient	Toxic spill	Dyke wall with valve, which do not allow liquid spill to go to normal drain. PVC suit, washing facility, SOP, etc.
3	Benzene	180 MT	100 MT	Resorcinol	Liquid at RT atmos. pressure	Fire	Isolated storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
4	Xylene	60	30	MPSL- NICO Plant	Atmospheric Normal Temp.	Fire	Dyke wall, Fire hydrant line, FLP, Spark arrester, Prohibited for vehicle movement &unauthorized person.
5	Phenol 98% solution	200 MT	170 MT	Near Bisphenol plant	Liquid at RT atmos. Pressure	Toxic spill	Dyke wall water spraying & washing facilities PEG 400 as antidote.
6	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.
7	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.
8	Toluene	120 KL	100 KL	Shed C	Atmo. Press and temp.	Fire &Chemical spillage	Underground tank, prohibited are, FLP, foam trolley etc.
9	Ethanol /Methanol	51 KL	40 KL	Shed N & A	Atmo. Press and temp.	Gas leakage, Spill	Respirators, Dry Sand, Dyke wall, spare tank
10	МСВ	105 MT	100 KI	Shed C	Atmo. Press and temp.	Fire &Chemical spillage	Underground tank, prohibited are, FLP, foam trolley etc.
11	Formaldehyde 37 to 43 %	1200 MT	600 MT	Storage Tank Opp. UF plant, FDH Plant & Nr. UF Plant	Liquid at RT, atm. press.	Toxic spill	Water spraying facilities L.I. Empty space for emergency transfer

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

Sr. No.	Name of RM	MOC	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 nm ³	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.

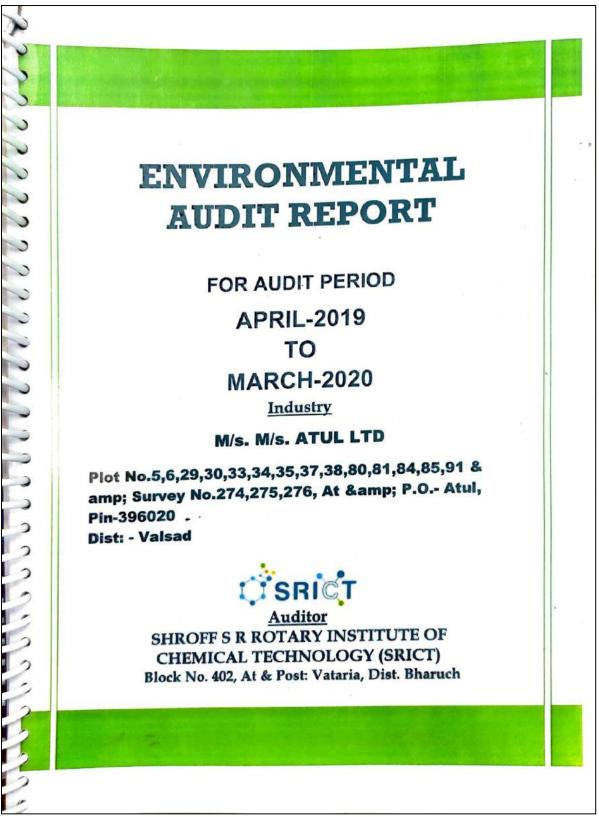
Annexure 7: CSR Activities

			Atul Limite	d		
			orojects Apri	2020 to		
		S	September 2	020		
No.	Programme	Description		Final Implementing Agency	Estimated budget FY 2020-21 (₹ in lakhs)	Expenditure April 20 to September 20 (₹ in lakhs)
1	Education	Enhancement of education practices in Kalyani Shala		AFT Atul Kelavani Mandal	75.00	4.14
2	Education	Enhancement of education practices in Atul Vidya Mandir	Atul, Valsad (Gujarat)	AFT Atul Vidyalaya Trust	6.00	0
3	Education	Imparting training to women to become skilled elementary school teachers (Adhyapika) to improve rural education	Valsad (Gujarat)	AFT ARDF	60.00	26.51
4	Education	Sporting a tribal school ,M D Desai school Chondha	Chondha, Navsari (Gujarat)	AFT	5.00	2.51
6	Education	ARDF activities		AFT ARDF	50.00	23.82
7	Empowerment	Skill training to youth as apprentice	Atul, Valsad (Gujarat)	Atul	180.00	0
8	Health	Nutrition Garden project	Villages of Valsad (Gujarat)	AFT BAIF	15.00	0
10	Relief	Relief for COVID -19	Valsad (Gujarat)	AFT	600.00	561.60
11	Infrastructure	Atul Model Village Project	Atul, Valsad (Gujarat)		30.00	0
12	Infrastructure	Support to schools and institutes in Ankleshwar	Ankleshwar , Bharuch (Gujarat)	AFT	10.00	2.89
13	Infrastructure	Development of Ulhas Cricket ground	Atul, Valsad (Gujarat)	AFT	20.00	0
14	Conservation	Afforestation	Atul, Valsad (Gujarat)	Atul	5.00	0
15	Conservation	Solid waste Management project	Valsad (Gujarat)	AFT	50.00	15.09
16	Conservation	Nature based sewage	Atul, Valsad	AFT	50.00	0

		treatment plant	(Gujarat)			
17		Support to other institutes	Gujarat, India	AFT	44.00	0
18	Administration exp	bense	50.00	0		
	Total				1,250.00	636.56

Remark: Due to COVID-19 many budgeted activities could not initiated/completed

Annexure 8: Abstract of Env. Audit report



*	March 2019 - April 2020 M/s.Atul Ltd, Valsad.
	OBSERVATION:
	Industry has valid CC&A number AWH-105110 which shall be valid up to 30/09/2025.
	The water and fuel consumptions are within the limits.
	Total Production of the industry increased up to 8.65 % in year 2019-20 from the previous audit ye 2018-19.
	Electricity consumption increased up to 1.21 % in year 2019-20 from the previous audit year 2018-1
	Water consumption is decreased up to 7.64 % in year 2019-20 from the previous audit year 2018-
	This indicates the various efforts of water conservation taken by the company.
	Wastewater generation is also decreased up to 2.63 % in year 2019-20 from the previous audit year 2018-19.
	- Company has received certified compliance report for its recent Environmental Clearance
	expansion of existing production and addition of new products.
	 Company has applied for 50MW CPP.
	Company has successfully launched 5 S system implementation program.
	 Company has a proper platform with electrical connection for ambient air monitoring.
4	> Record of the data of CETP chemical, Water consumption and Wastewater generation are maintaini
	regularly.
	> Overall housekeeping is satisfactory.
2	 Company has initiated construction of one more ETP having capacity 450 KLD to treat segregat
	steam from Pharmaceutical intermediate plan.
	L hat has provided PPE in all the unit and used well in different area of working.
	Check identification at site is done for most of the stack. It shall be done for remaining stacks also.
	the third production is within the consented quantity given by GPCB.
	 Total and individual production is writing and Industry has appointed full time doctor and adequate facility for treatment within the premises.
	Dmmendations:
×	the second offluent monitoring system.
	shall repair and/or make asphalt concrete/RCC loads to minimize the
	 Company shall obtain stability certificate for its Top1 site. Company shall plan for ZLD for the ongoing South ETP project for Pharmaceutical intermediate planet.
	Company shall plan for ZED for the ong
	 stream. Company shall provide proper identification plat with information regarding limits and stack in all
	Company shall provide proper identification plantage
	north and west site plant.
2	 North and west site plant. Company shall update its online OCEMS facility in phase wise manner for auto calibration for stack
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r.No.				COM	IPLIANCE REPORT
r.No.	CONS	ENT REQUIRE	MENT		COMPLIANCE STATUS
1	Consent No. AWH - 16.11.2019	-	- in		Noted.
2	Validity up to 30.9.2025 Production capacities 478922.004 TPA]	of differen	nt products	[Total	Complied
pecifi	Condition		-		
13 ⁴⁴	The unit shall manufacture having multilevel of safety		as in fully automa	ted plant	Complied.
	Unit will utilize the generation for captive purpo	Phosgene ga	as immediately after	its .	Complied
-	Unit shall establish and ma mock drill as per period dec		ergency plan and o	carry oùt	Complied.
	Unit shall submit production	n data of Phosgen	e every month to thi	is office'	Complied.
	Unit shall install new 4 Kn pipeline for disposal of treat the identified point by NIO.	ted waste water in	pipeline parallel to the estuary of Par l	existing River at	Complied.
2 5 3	Unit shall use pipeline in ca maintenance only when old get prior permission from pipeline	pipeline is under	maintenance and un	nit shall	Complied.
	Unit shall comply und the board.	Init shall comply undertaking dated: 08/07/2016 given with			Complied.
	Unit shall comply coal han management, spent acid ma	dling guideline, s magement	spent solvent handli	ing and	Complied.
3. Con	dition under the water (pre	vention and con	trol of pollution)Ac	et 1974 .	
T. 1	Particulars	Actual	Consented	1	
3.1	Water Consumption (Industry + domestic)	9371 KL/Day	28358 KL/Day		Complied.
	Industrial effluent (Low + High COD)	8643 KL/Day	24096 KL/Day		
	Sewage generated	365 KL/Day	939 KL/Day		-
	Total quantity of effluent g	generated from m Il not exceed 240		ss and	Complied

	rch 2019 - April 2020 20514 KLD (excluding quantity of M/s. Atul Bioscience Ltd. =438.63 KLD) west	ivi/s.Atul Ltd, Valsad.
3.3	river through 4 km Pipeline.	Complied
3.4	1000 KLD waste water shall be sent to RO/MEE. 800 KLD RO permeates shall be recycled into cooling tower. 200 KLD RO reject shall be sent to MEE. 190 KLD recovered MEE water shall be recycle into cooling tower. 10 MT MEE salt shall be sent to TSDF. 2500 KLD waste water shall be sent to RO/MEE. 2000 KLD RO permeates shall be recycled into cooling tower. 150 KLD RO reject water shall be utilized for quenching/Ash cooling. 350 KLD RO reject water shall be sent to MEE. 345 KLD recovered MEE water shall be recycled into Boiler. 5 MT MEE salt shall be sent to TSDF. 82 KLD high COD waste water shall be sent to incinerator. The quantity of the domestic waste water (sewage) shall not exceed 322 KLD.	Complied.
3.5	Trade Efiluent	
3.6	The treated effluent from the industrial unit shall conform to the GPCB norms mentioned in table no. 3.6	Complied.
	All efforts shall be made to remove Colour & unpleasant odor as far as practicable.	Complied
3.7	The final treated effluent from central ETP confirming to the above standard shall be collected in the guard pond and then discharged through closed pipeline to estuary zone of river Par via diffuser.	Complied
3.8	Domestic effluent shall be sent to ETP.	Complied.
4.1	(a) The table no. 4.1(a) shall be used as fuel.(b) The table no. 4.1(b) shall be used for captive power consumption.	
	Fuel consumption figures for boilers /Heaters	
	Fuel: Consumption for 2019-20 Quantity/year (MT)	
4.la	Coal 299614.8 Lignite 56763.89	Complied
.22		
	Total	
1.1b	List of boilers for captive power consumption control system in	Noted
4.2	The applicant shall install & operate air pollution control system in order to achieve norms prescribed in table no. 4.3	Complied
4.3	The flue gas emission through stack attached to boiler shall confirm to the standard mentioned in table.	Complied.
	The process emission through various stack / vent of reactors process, vessel shall confirm to the standards mentioned in 4.4	Complied.
4.4		
4.4		

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•	rch 2019 - April 2020	M/s.Atul Ltd, Valsad.
4.5	The concentration of the following substances in the ambient air within the premises of the industry and at a distance of 10 meters from the source (other than the stack / vent with height of more than 9 ,meters from the ground level) shall not exceed the levels mentioned in table no. 4.5	Complied.
4.6	The applicant shall provide portholes, ladders, platform etc. at chimney(s) for monitoring the air emission and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.	Complied
4.7	time and 70 dB (A) during night time. Daytime is reckoned in between 6 a.m. and night time is reckoned between 10 n m and 6 a m.	Complied.
5. GE	NERAL CONDITIONS:	
5.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	Noted
5.2	Management of Solid Waste generated from industrial activity shall be as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46).	r Noted
6. Au	thorization under Hazardous and other waste (management and transl	boundary Movement) Rules
2010	, Form-2 (See rule 6(2)) Number of authorization: AWH-105110, Date of issue: 16/10/2019	
6.1		Noted
6.2	Reference of application No. 163867 and date: 05/10/2019.	
6.3	M/S. ATUL LIMITED, is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated in Valsad.	17. 151
6.3	Haz. Waste disposal as stipulated.	Complied.
6.4	The authorization shall be valid for a period of 30/09/2025.	Noted
6.5	The authorization is subject to the following general and specific conditions:	
4. Ge	neral conditions under Hazardous and other Wastes (Manage ovement) Rules-2016;	ment and Transboundary
1.	The authorized person shall comply with the provision of the Environment (protection) Act, 1986, and the rules made there under.	Noted and Complied.
2.	The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	Noted.
3	ENVIRONMENT AUDIT CELL SHROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATA	• RIA 174 of 177

3.	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	M/s.Atul Ltd, Valsad.
4.	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Noted.
5.	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire, etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.	Complied.
6.	The person authorized shall comply with the provision outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"	Noted.
7.	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Noted.
8.	The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.	Not Applicable as no Haz waste is imported.
9.	The record of consumption and fate of the imported hazardous and other wastes shall be maintained.	Not Applicable as no Haz waste is imported.
10.	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific condition of authorization.	Complied.
11.	The importer or exporter shall bear the cost of import and export and mitigation of damages if any.	Not Applicable as no Haz waste is imported or exported.
12.	An application for the renewal of an authorization shall be made as laid down under these Rules.	Noted
13.	Any other conditions for compliance as per the guidelines issued by the Ministry of the Environment, Forest and climate Change or Central Pollution Control Board from time to time.	Noted and will be complied.
14.	Annual return shall be filed by June 30 th for the period ensuring 31st March of the year.	Complied.
3. Sp	cific Conditions: The authorized actual user of hazardous and other wastes shall maintain	
1.	records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.	Noted.
2.	Handling over of the hazardous and other wastes to the authorized actual user shall be only after making the entry into the passbook of the actual user.	Noted and complied.
3.	In case of renewal of authorization, a self- certified compliance report in respect of effluent, emission standard and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.	Noted.
		14 1
\$	ENVIRONMENT AUDIT CELL HROFF S R ROTARY INSTITUTE OF CHEMICAL TECHNOLOGY - VATA	• RIA 175 of 177

March 2019 - April 2020 M/s.Atul Ltd, Valsad.			
4.	The occupier of the facility shall comply standard operating procedure/ guidelines published by MoEF&CC or GPCB from time to time.	Complied.	
5.	Unit shall comply provisions of E-waste (Management) Rules-2016.	Complied.	
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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 /Year	Once a year	Green belt area is about 36% land area. Total area: 1126078.27 sq.mt Green belt area: 409030.00 sq.mt

Annexure 10 : Environmental statement





Atul Ltd

Utilities and Services Atul 396 020, Gujarat, India services@atul.co.in | www.atul.co.in (+91 2632) 230000

Ref: Atul/GPCB/Form V

Date: September 22, 2020

To,

Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10-A, GANDHINAGAR - 382 010

SUB: Submission of form V.

Dear Sir,

We are enclosing herewith duly filled form – V for the financial year ending 31st March, 2020.

Kindly receive the same.

Thanking you,

Yours faithfully,

For Atul Ltd,

Hriday Desai

(Vice president – Assurance EHS)

C.C. Regional Officer, Gujarat Pollution Control Board Vapi (Dist. Valsad)

> Registered office: Atul House, G I Patel Marg, Ahmedabad 380 014, Gujarat, India CIN: L99999GJ1975PLC002859

> > S Lalbhai Group

[Form V]

(See Rule 14)

Environmental Statement for the financial year ending the 31st March 2020

Part - A

(i) Name and address of the owner/occupier of the industry operation or process. Mr. B. N. Mohanan Occupier, Atul Limited, Atul – 396 020, Dist.: Valsad

(ii) Industry category Primary (STC code) Secondary (STC code) Large scale Chemical Manufacturing Industry

(iii) Production Capacity - Please refer Annexure - 1

(iv) Year of establishment : 1952

(v) Date of last environmental Statement submitted: Sept. 2019.

Part - B

Water and Raw Material Consumption

(1) Water consumption m³/day

Process : 7213 kl/day

Cooling : 1702 kl/day Domestic : 457kl/day

Sr. No.	Name of products	Process water consumption per unit of product output		
		During the previous financial year	During the current financial year	
AREA .	Hill an Install in the	(1)	(2)	
South States Control	products and anic chemical	4.7 kl/mt	3.91 kl/mt	
2. Colours		70.7 kl/mt	69.26 kl/mt	
3. Pharma & Polymer		4.3 kl/mt	4.22 kl/mt	

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(2) Raw material consumption

*Name of	Name of	Consumption of raw material per unit of		
raw	products	output		
materials		During the previous financial year	During the current financial year	

Please refer Annexure - 2

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

Part - C

Pollution discharged to environment/unit of output

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)Water	COD : 1987 kg/	day (230 mg/lit)	NIL
(b)Air	SOx : 13.7 Mg	/NM ³	
	NOx: 10 Mg/N	M ³ (Process)	

Part - D

Hazardous Wastes

(as specified under Hazardous Wastes (Management & Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (kg)		
and the second	During the previous financial year	During the current Financial year	
From process	1705663	2645585*	
From pollution control facilites (ETP sludge and Salt from MEE to Captive TSDF)	9481204	9181367	

*The increase in Process waste is due to implementation of EC project.

Further we are also furnishing details for the waste we sold/sent for recovery/further treatment as per valid authorization:

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Waste sale/sent for recovery as per authorization (including Process waste and waste from pollution control facilites during 19-20) 40246738

Part - E

Solid Waste

Solid Wastes	Total Qu	Total Quantity (kg)			
an 1997 it state it day a most it state I day in the state is a state in the	During the previous financial year	During the current financial year			
(a)From process (Fly Ash)	68353710	96513087			
(b)From pollution control facility					
(c) (1) Quantity recycled or re-utilised within the unit	Nil	Nil			
(2) Sold	68353710	96513087			
(3) Disposed					

Part – F

Please specify the characterisation (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Please Refer Annexure - 3

Part - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production. Please Refer Annexure - 4

Part – H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. Please Refer Annexure - 5

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Part - I

Any other particulars for improving the quality of the environment.

- a. Company has updated its EMS system as per ISO 14001:2015.
- b. Above ground pipe line network installation job for transferring effluent from production plants to ETP is almost completed.
- c. We have installed ATFD and DEE in downstream of MEE to make it zero liquid discharge plant.
- Recovery of various recoverable materials like Copper hydroxide, methanol, salt, mix dyes, PTSA, ammonia, etc. from the effluent streams is an ongoing process.

Apart from above, company has taken following initiatives during 19-20:

- ZLD project of NETP: We are in process of making whole North site a ZLD (Zero Liquid Discharge) site. We already have full-fledged ETP with tertiary treatment and MEE. Plan for reuse of Tertiary treated water and MEE condensate is as under;
- a. Scheme for MEE condensate reuse: At present high TDS|brine effluent is being treated in MEE. Now we have installed 3 stage RO system (capacity 200 KLD which can be upgraded up to 325 KLD in future) for the treatment of MEE condensate water. The permeate (approx. 80%) will be reuse in utility and reject of RO will be used in plant or will be treated at NETP. Thus MEE condensate will be fully reused and become ZLD.

This project is in commissioning stage.

b. Scheme for North ETP treated water reuse: At present, we have complete treatment facility at North site including tertiary treatment. Now we are upgrading our treatment facility for betterment. We are introducing one Fanton reactor (capacity: 100 KL) before equalization tank to treat abnormality, if any, found in inlet effluent. High Efficiency Air Dissolved air flotation (HEAF) unit (1200 KL) will be introduced after equalization tank to remove TSS, oil and grease, emulsion etc. We have two stage aeration system in series. We are introducing Anoxic Tank (1100 KL) in between two Aeration tanks for denitrification.

Apart from this changes in existing system, we are further upgrading our North ETP with MBR (Membrane Bio Reactor). The treated effluent after passing through MBR will be treated in three stage RO.

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- c. RO System :The treated water from MBR shall be pumped through the MCF followed three stage RO system having membrane assembly. The RO-1 feed water will be passed through RO System, permeate will be available for reuse and balance will be in reject stream which will be treated in second stage RO. RO-2 Reject stream which will be treated in RO3 system RO-3. Recovery in RO system will be more than 80 %. RO Reject will be passed through existing MEE having scale ban technology & condensate will be available for reuse, thus overall recovery will be more than 99%. Salt of MEE will be disposed in TSDF.
- d. Scheme for New MEE :Since our existing MEE at North site will be used for treatment of RO reject from NETP as stated above, we are installing new MEE having scale ban technology simultaneously for high TDS|brine effluent. Its capacity will be 325 KLD. This MEE plant is designed by M/s. Praj Industries Ltd and contains Pre-Treatment of brine, Recovery of Nacl by evaporation. Salt generated from MEE will be sold to the actual users as per the authorization.
- 2. Construction of new ETP: We manufacture polymers and Pharma intermediates at our North site. While updating our North site ETP as stated above, we have also planned to segregate the polymer and Pharma streams for better treatment and control. We are in process of construction of new ETP having all primary, secondary and tertiary treatment for this segregated pharma stream. We are already having one old ETP structure at our south site, which is not in used since years. We are refurbishing and adding new units. ETP (SETP) Capacity: 450 KLD

Brief Description:

The south ETP contains four stage treatment: Pre primary, primary, secondary and tertiary. Preprimary treatment consisting of bar screen and collection tank. Primary treatment is having neutralization tank and equalization tank. Anoxic tank followed by two stages of aeration and three clarifiers provided in secondary treatment. Tertiary treatment is having chlorine contact tank, DMF (Dual Media Filter) consisting of layers of graded sand & anthracite and ACF (Activated Carbon Filter) for removal of residual organics, odour and colour. The treated effluent will be sent to Central Effluent Treatment Plant (CETP) at East site for further treatment if required, or for final disposal.

3. Installation of MEE for High TDS stream from 2, 4 D plant : Presently high TDS stream of 300 KLPD is being treated in CETP along with normal effluent. This stream has been segregated and will be sent to new proposed MEE having capacity of 465 KLPD. Condensate of the same will be reused in the plant. Salt generated from MEE will be sold to the actual users as per the authorization. The project is in very initial stage and will be completed by August 2021.

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4. Raw material conservation : MCA (Mono Chloro Acetic Acid) is one of the main raw material used in production of 2,4 D Acid. Lab trails are successfully conducted for using sodium salt of MCA instead of pure MCA and results are worthy. This can reduce MCA consumption by 4% per MT of 2,4 D. Plant trials are going on at present.

Further, a steam is identified at 2,4 D plant which require only neutralization treatment. Neutralization facility is installed at plant. Treated effluent meeting with GPCB norms is directly disposed to guard pond. This has reduced effluent load of 4.5 MTD at ETP.

- Close system for Benzene charging: Power Charging System for benzene feeding is installed at Ester Plant. This is to prevent the loss of material and thus control VOC emission.
- Reduction in Pollution load at ETP: One of our Crop Protection plant i.e. NICO-MPSL has reduced its effluent load to ETP by 50 KI/month through implementation of effluent recycling scheme.
- 7. Up gradation of ESP: We have replaced single phase rectifier with three phase rectifier in electro static precipitator (ESP) of East fluidized bed combustion-2, 3 to achieve the amended norm for Suspended Particulate Matter (SPM) i.e. below 100 ppm from 150 ppm

Product	Consented Quantity TPA
Azo dyes	6600
Sulfur Black	9999.96
Sulfur Dyes range	300
Naphthol range	900
Fast Color Bases	480
Disperse dyes	1422
Optical Brighteners	120
Reactive Dyes	1527.6
Vat dyes	1260
Caustic soda/potash & sodium sulfide	48000
Liquid Chlorine /Hcl/Hydrogen	42000
Carbamate group of Agrochemicals	519.6
Diuron	2640
Trichlo Carbon	99.6

Annexure : 1: list of Products

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Cartap Hcl	600
Carbendazim	250.8
Herbicides (2,4-D & related products)	26040
MCPA	STATE ASTROLO
Pyridine based Insecticides & herbicides chemical Imidacloprid	349.92
Triazole based Fungiside	20.04
Pyrethroides	120
Sulphonyl Urea	423
Glyphosate	780
Isoprothiolane	219.6
Fipronil	60
Formulations	2400
Buprofesin	48
Imazethpyr	21.96
Kresoxim Methyl	24.96
Fenoxaprop	9.96
Cyhalofop	9.96
Pyrazosulfurone	6
BisPyribac Sodium	9.96
Azoxystrobin	24.96
Quizalofop	15
Thiamethoxam	120
Metribuzine	120
Diafenthiurone	50.04
Mabendazole	24
Tolbutamide	30
Quiniodochlor	180
Bulk Drugs & Intermediates	115.2
Dechlofenac sodium / potassium	30
Atenolol	20.4
Fresamide	15.6
Trimethoprim	10.8
Para hydroxy acetophenone	20.4
Para hydroxy phenyl acetamide	36
Acyclovir	62.4
Bathenechol	62.4
Pharma Intermediates & Chemicals	3600

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Epoxy Resin	31200
Vinyl Easter Resins	450
Ketone Formaldehyde Resins & Sulphonamide,	249.6
Formaldehyde Resins	1000 1000
UF/MF/PF/DiCyandiamide Resins	3250.8
Polyamide resins	1940.4
Polygrip TPU based	500.04
Polygrip rubber based	3600
Anthraquinone, Naphthalene, Benzene Intermediates.(Including Beta – Napthol & BON Acid)	8880
Meta hydroxy phenol	5520
Carbamite	360
Chlorzoxazone & other related products	60
4 Ethyl 2,3 – Diorcopiperazino carbonyl Chloride	39.6
Imino Dibenzyl 5 carbonyl Chloride	9.6
Formaldehyde and base products.	38400
Sulfuric Acid / Oleum / Chlorosulphonic Acid & Salts	138600
Sulpha Drug Intermediate	2325.6
Acetyl Sulphanilyl Chloride and its derivatives.	18000
Acetanilide	6000
Sulpha Methyl Phenazole Sodium	13.2
Pyrazole Base	126
Sulphanilic acid	300
Bis Phenol A	5000.4
Hexamine	1800
Epoxy Intermediates	285.6
Hardener & Auxiliaries	6000
Hardener Intermediates	8400
Bisphenol S & Intermediate Chemicals	199.2
Sodium Thio sulphate (dry basis)	10800
Sodium Thio sulphate (wet basis)	22800
Phosgene	5000.004
HX-13059	60
Anisole	1992
Resoform 18,19,20	1020
1,3 Cyclohexanedione	960

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Agro, Pharma intermediates, Isocyanats & Carbonat Esters, etc.	4980	
Trans-4-MCHI		
p-Anisyl chloroformate		
DI-TERT-BUTYL DICARBONATE (Boc. anhydride)	00	
N, N- Disuccinimidyl Carbonate		
Avobenzene	999.96	
Octacrylene	999.96	
OctaylMethoxy Cinnamate	2400	
Anethole	1999.92	
Raspberry Ketone	1200	
P-AninyIPropanal	1200	
Grand Total Production Sodium Thiosulphate (dry basis)	466922.004	
Grand Total Production Sodium Thiosulphate (wet basis)	478922.004	

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Name	Amount in Tonnes* per
0.000	month
Aluminium ingots	18
Iron Fillings	50
Alum	40
Aluminium Chloride	66
Anhydrous Ammonia	9
Ammonia gas liquor 25 %(In tanker)	317
Caustic Potash Flakes	75
Caustic Soda Flakes	2623
Caustic soda lye	1218
Caustic Soda Solution	1325
Chlorine	3822
Chlorosulphonic Acid	250
Hydrochloric Acid (gas)	1000
Hydrochloric Acid 33%	3679
Hydrated Lime	2000
Lime stone powder	1257
Manganese Dioxide	220
Nitric Acid 98%	95
Nitric Acid 60%	50
Oleum 65%	1221
Oleum 25%	140
Phosphoric Acid	50
Potassium Chloride	360
Sodium Chloride	6000
Sodium Thiosulphate	195
Soda Ash	182
Sulphuric Acid 98%	2497
Sulphur Powder	1900
Sodium Carbonate	60
Copper chloride	4
Activated carbon	1
Sulfinate	1

Annexure : 2 : List of raw material

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SOCI2	2
15% sodium bicarbonate	3
15% H2O2	24
10% FeSO4	10
Guanidine Nitrate	15
КОН	117
Acetanilide	52
Acetic acid	23
Acetic Anhydride	6.5
Acetonitrile	67
Acetone	33
Aniline oil	43
Anthraquinone	6
Benzene(KL.)	660
Bis Phenol A	1582
Castor oil (Comm.)	35
Cyanuric Chloride	18
Di Chloro Diphenyl sulphone	107
Dibutyl phthalate	7
Dimethyl Sulphate	148
Dimethyl Formamide (DMF)	34
Dimethyl Amino Dichloro Propane Hydrochloride	40
Epichlohydrine	4911
Formaldehyde	28
Glycerin	24
H-Acid	12
Hexa Hydro Phthalic anhydride	9
Methanol (KL.)	1100
Mono Chloro Acetic Acid	2170
Napthalene crude	60
Phenol	1200
Phthalic anhydride	55
Synthetic cresol	5
Tamol MNO	50
Tri ethylene tetramine	13
Toluene	80
Urea	183
IPA	230

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Cresol	133
MCB	86
Ethyl acetate	8
DMA Tosylate	9
Cyano Pyrazole	5.0
Ethyl acetate	46
PMIDA	69
EDA	31
2, Chloro 5-methyl chloro pyridine	17
Sodium Methoxide	9
Di isopropyl malonate	8
CS2	4
Ethylene Dibromide	. 7
n-Hexane	17
O-cresol	503
SO2CI2	376
DPS	son marchellon
PCF	13
2 Amino 4-6-Dimethoxy pyridine	13
Dioxane	45
N-N Dimethyl aniline	15
SNA	15
DBU	9
TFE P	2
Thionyl Chloride	1
m-phenoxy benzaldehyde	2
68	A NUL CONCERNED
Fuel:	and the second
Coal / Lignite	46925
Diesel Oil (KI)	640
Furnace oil (KI)	1100
Natural gas (m3)	200000

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Description of waste	Physical form	Calorific Value Cal / gms	Biodegradability	Nature / Chemical composition of Waste
Used oil, Kl	Wet cake	- 6006 pi.	Biodegradable	Lubricant oil with minor contamination
Wastes / residues / contaminant cotton rags or other cleaing material	Solid	•	Biodegradable	Lubricant oil with minor contamination
Sludge & filters contaminated with oil,	Semi solid	• •	- (1911) (1911)	internetions
Membranes	Solid	- Jungh Soll (197	initial valutations	Polyfluoro & Polycarboxylic groups
Waste Resin,	Solid	-	Non biodegradable	Polymer
Sulfurised Carbon,	Solid	6000	-	Carbon and impurity of product
Activated Carbon,	Solid	6000	-	Carbon and impurity of product
Brine purification sludge,	Sludge	No Calorific Value	Non biodegradable	Inorganic compounds e.g. CaCo ₃ , Mg(OH) ₂
Sulphur sludge,	Solid	5000	Partially Bio- degradable	Inorganic compounds and Sulphur
Hot Gas filter Ash,	Solid	No calorific Value	Non biodegradable	Inorganic Material
Bottom Sludge after recovery of Sulphur Sludge,	Solid	5000	Partialy Biodegradable	Inorganic
Waste Catalyst,	Solid	No calorific Value	Non biodegradable	Inorganic, Not explosive, Non
Su thank a	100 m	toroles art in the	nort should be	Reactivie

Annexure: 3: Description of Solid Waste at Atul

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Spent Solvents, KI/Month	Liq .	c to small know of	te program.	Solvent
Various type of Residue	Solid	6500	Partially Bio- degradable	Polymeric aromatic Organics
OCBC / OCT distillation residue,	Visc. Liq.	8000	Not Bio- degradable	Polymeric aromatic compound.
waste residue Bulk Intermediate (meta hydroxy phenol) (Tar),	Solid	·	(da) Unimpacino Sem	10-12% Hydroxyl based benzene derivative
Waste residue (from resorcinol plant)	Solid		hite	Ale molitage
Gypsum (From meta hydroxy phenol Plant),	Solid	Not Applicable	Non biodegradable	Inorganic Compound Mostly Calcium Sulphate 75 - 77%, Moisture 23-25%
Sodium Sulphite,	Solid	Not Applicable		Inorganic Compound, Mostly Sodium Sulphite 70-75%, Moisture 25-30%
Waste/Salt Lime Dust	Powder		-	Inorganic Compound
Waste from Urea Formaldehyde Polymer product,	Solid	3500	Bio-degradable	Organic polymeric compound
Sludge containing higheramino compound,	Tar	5200	Bio-degradable	Polymeric organic amines.
Filter cake of Epoxy resins with resin contamination	Semi Solid	3200	Bio-degradable	Polymeric organic compound
Aluminium Hydroxide,	Solid	No calorific Value	Non biodegradable	Mostly Al Hydroxide

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Iron sludge,	Solid	No calorific Value	Non biodegradable	Mostly Iron, oxide
Brass residue,	Solid	No calorific Value	Non biodegradable	Mostly Copper & Iron.
Still / Other residue,	Tar	6500	Partially Bio- degradable	Polymeric aromatic Organics
Darco / filter aid sludge,	Solid	2500	Partially Bio- degradable	Mainly Carbon.
Iron Residue,	Wet cake	- 0000	Non biodegradable	Water, iron
Hyflo sludge,	Wet cake	-		0.87 % Specific gravity, 80% solid, Inorganic & organic content
PER crystal residue,	Semi Solid			Specific gravity 1.1557, Organic
Filter aid sludge for Hg recovery,	•	•	1. 1 .	Containing Hg
Aluminium Ash,	Solid		Non biodegradable	Water, oxides of Aluminium & Aluminium Metal
N.B.Tar / ODCB Tar	Semi Solid	- 1 6025	-	176-2-2468(2X-4/12)
ONT Tar	Solid / Tary		t in 2 asteridos	
Copper Hydroxide Wet cake	Solid	Not applicable	Non biodegradable	Copper Hydroxide
Dust from Air Filtration System,	Solid	- 0038	h pič	Residual product particles
Spent Acid	Liquid	Not applicable	Non biodegradable	Sulphuric acid
Spent Organic solvent	Liquid		t and a second	Mainly contains Spent Organic solvent

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	10.04	A Children Street			Droas collidiae
Waste Residue (Phin)	Solid .	- select		-	
DCDPS waste	Solid	- 0628		-+).	-291 (101 (101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101 - 101
Waste from Pharma intermediates	Solid				
Spent Carbon catalyst	Solid				-
Spent carbon,	Solid	6000	-	Biodegradable	Carbon cake contains aq. Methanol Aqueous Carbon Cake
Date expired, discarded and off- specification product,	Solid	-	(467?) (467?)		on strategic 989
Spent Mother liquor, Kl/Month	Liquid	-		• 1147 • 1147	Mainly contains Spent Organic solvent
Spent Solvents, KI/Month	Liq	-		•	Solvent
Still / Other residue,	Tar	6500	CHISE O	Partially Bio- degradable	Polymeric aromatic Organics
Pyridine based insecticides & herbicides (Darco / Filter aid Sludge),	Solid	2500		Partly biodegradable	Mainly carbon
Sulfonyl Urea (Residue),	Solid	6500		Partly biodegradable	Polymeric Organic
Triazole based Fungicides (Residue),	Solid	6500		Partly biodegradable	Polymeric Organic
Pyrethroides	Solid	6500		Partly biodegradable	Polymeric Organic
Dust (Agro plant)	Solid	-		-	Mixture of Dust, Rust & Spillage chemicals

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Hyflo,	Semi Solid	No Calorific Value	Non biodegradable	Non flammable, non reactive, partly organic - Inorganic
Dust from Air Filtration System,	Solid	- Koloti -	-	Residual product particles
Liners /Bags, NOs	Solid	NA	NA	Without any Chemical contamination after decontamination
Drums /HDPE Carboys,	Solid	NA	NA	Without any
	Jong			Chemical contamination after decontamination
Chemical containing residue from decontamination and disposal,	solid	-	a • meetto 00	ець трі : Реј-
Flue gas cleaning residue,	Solid	-	-	-
Toxic metal containing residue from used-ion exchange material; in water purification,	Solid	musenna	- setternet	
Sludge from ETP, Gypsum from ETP, Chemical Gypsum, sludge from waste water treatment	Semi solid	No Calorific Value	Partly biodegradable	Mostly gypsum
MEA distillation residue,	Visc. Liq.	9500	Partly biodegradable	Polymeric aromatic compound
Spent Catalyst,	Solid	-	topy of been while	<i>Fu</i> a
Sludge from wet scrubber,	Solid	name of same the prosent of		antes la contra de

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Incineration ash,	Solid	No Calorific Value	Non biodegradable	Inorganic compounds e.g. Silica, NaCl.
Salt from MEE	Solid	Not applicable	Non biodegradable	99% Sodium salt
Dilute MnSo4	Liquid	-	-	
2,6 Dichloro phenol	Solid			Phenolic compound
2,4,6 Trichloro phenol	Solid	-	-	Phenolic compound
p-CBSA/Na-Salt	Solid	-	-	pCBSA
High TDS / High COD effluent	Liquid	-		
30% HCI	Liquid			Spent acid

Annexure : 4:

Water Conservation

Following actions were taken for water conservation during recent year.

- a) Utilized Steam condensate from Process plants of East site in Boilers.
- b) Boiler cooling tower blow down water is reused in water mist system at coal storage area for dust suppression.
- c) MEE condensate recovery water is being utilised as raw water in our Epoxy plant various purpose.
- d) Recycling of treated waste water: We have started using primary treated effluent for making lime slurry in our ETP. By doing so, we are able to save approximately 200 KL/day of fresh water.
- e) Fresh water consumption reduced by increasing COC of cooling tower by providing chemical water treatment and providing side stream filter.
- f) Reduction in fresh water requirement: In one of our Agro product, earlier second wash water was discharged to ETP. Now it is being recycled in first wash. This has completely eliminate the water requirement for second wash as well as process effluent has been reduced to 50%. In other product, 3 streams have been identified for recycling and its implementation has caused 1.4KL/day reduction in effluent. In Formulation, DM water used for Hexa SC vessel cleaning now carry forward to next

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batch in place of draining it to ETP. In Ester plant, recycling of ejector condensate water is done in place of first wash.

g) Using treated effluent in scrubbers

Rain water harvesting: In few plants, rain water is being recharged from the terrace and has been used as a makeup of cooling tower during the monsoon season. We already have two numbers of check dams in natural storm water drains to collect and harvest rain water in Monsoon.

A big pond having approximate storing capacity of 9000 KL to store surface runoff coming from Parnera hill area has been developed and in use. Company has harvest **9.63 lac KL** rain water during 2019.

Energy Conservation

Electricity forms one of the important components of energy used at Atul Limited. Major part of electricity used at Atul, is produced in the coal based captive power plant.

Energy Conservation Measures:

- h) Heat recovery at SAP and utilizing for preheating of Boiler feed water.
- i) Replacement of Induced draft CT (cooling tower) by Venturi type CT.
- j) Replacement of Burners by energy efficient burners in Gas/ FO fired Boilers.
- k) Replacing reciprocating compressors by screw compressors for Air & Chillers.
- I) Replacing old pumps/ motors by energy efficient pumps & motors.
- m) Utilizing oxygen rich air from PSA vent for COD reduction.
- n) Company has replaced roots blower by Energy efficient centrifugal blower at Sulfuric Acid Plant.
- o) Replacement of reciprocating air compressors by screw compressors.
- p) Optimization of cooling water header size is done.
- q) Company has started utilizing 7 bar steam in place of 19 bar steam to increase electricity generation benefit.
- r) Optimization of Hot water wash for filter cake is done
- s) Controlling Dry vacuum pump using VFD in place of air bleeding
- t) Replacing pumps by energy efficient pumps.
- u) Installed energy efficient LED light fittings.

Oil conservation

We have continued with our Oil Conservation Project, an essential component in pursuit of sustainable development. We are collecting used lubricant oil under this project and sending it to GPCB authorised party.

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Annexure : 5 :

Details of Investment for Environment Protection for the year 2019-20

S.N	Parameter	Capital cost per annum (Rs. In lacs) 2019-20	Investment /Recurring Cost per annum (Rs. in lacs) 2019-20	
1	Air Pollution Control	124.17	4507.2	
2	Liquid Pollution Control	341.7		
3	Environmental Monitoring and Management	29.3	70	
4	Solid waste Disposal	·	576.22	
5	Occupational health	trabulta schoos ut collina	30	
6	Green belt	• 000 tot may /29 closes	10.0	
Total	innertient months of	495.17	5193.42	

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