Atul Limited

Project: Expansion of agro-chemicals (Pesticides/Herbicides) and bulk drug and pharmaceuticals manufacturing unit EC Compliance Report for the period May 2018-October 2018 to EC F. No. J -11011/48/2003-IA II (I)

lo. A.	Condition	Compliance							
	Specific Conditions:	Compliance							
	The gaseous emissions (SO ₂ , NOx, and HCl) and particulate matters from various process units should confirm to the standards prescribed by the concerned authorities from time to time.	The g variou CCA.	plied. gaseous emissicus process unit	s confirms	to the stand				
		Sumi	nary of Proces						
		No.	Parameter	Standard values as per CCA	Unit	18 -Oc	t 18	eriod May-	
		1	SO ₂	40	and on / Name 3	Min.	Max. 19.3	Avg. 9.7	
		1	·		mg/Nm³	3.8			
		2	SO ₂ (kg/T)	2	kg/T	0.3	1.1	0.69	
		3	NOx	25	mg/Nm³	4.8	12.5	8.7	
		4	HC1	20	mg/Nm³	3.9	10.2	6.0	
		5	PM	150	mg/Nm³	7.2	54	29.8	
		6	PM with Pesticide compound	20	mg/Nm³	4.3	10	6.9	
		No.	nary of Flue S Parameter	Standard Values as per CCA	Unit	Values 18 –Oc Min.		eriod May-	
		1	PM	100	mg/Nm³	40	65	53	
		2	PM (New Boiler)	50	mg/Nm³	24	39	31	
		3	SO_2	600	mg/Nm³	39	112	83	
		4	NOx	600	mg/Nm³	27	121	76	
		5	NOx (NewBoiler)	300	mg/Nm³	69	92	78	
		(P1. se	ls of stack resu ee pg. no. 12)		compliance	period i	s given ir	Table 1.	
	At no time, the emission levels should go beyond the stipulated standards.	Complied. Monthly monitoring is being done by GPCB approved, NABL appragencies. At no time, the emissions exceeded the prescribed limits during report pe Summary of stack results given in specific condition no. i as above.							
	In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control	Comp	plied. uch case happe	-					

ii Ambient air quality monitoring
Station should be set up in down
wind direction as well as where
max. ground level concentration
of SPM anticipated in
consultation with the state
pollution control board.

Complied.

10 Ambient air quality monitoring Station have been set up in down wind direction as well as where max. ground level concentration of SPM anticipated in consultation with GPCB. The same had been shown to authority like SPCB, CPCB & MoEF during their visit to our factory.

List of our ambient air monitoring station is given below:

No.	Location
1	66 KVA GEB substation
2	Opposite Shed D
3	Near ETP (West Site)
4	ETP Plat (North site)
5	Near TSDF
6	Near Main Guest House
7	At Wyeth Colony
8	Gram panchayat hall
9	Near Main office, North site
10	Water tank at Haria Road

Fugitive emission in work zone environment, product, raw material storage areas must be regularly monitored.

Complied.

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	ea Parameter		Values of VOCs in Milligram per NM ³ for the period May-18 -Oct 18				
				Min.	Max.	Avg.		
2,4 D	Reactor	Phenol	19	15.2	7.8	11.9		
	Buffer tank	Chlorine	3	1.8	0.8	1.4		
Resorcinol	Benzene storage tank area near vent	Benzene	15	8.2	3.8	5.9		
	Near Extraction/s crubber unit	Butyl acetate	-	4.2	1.4	2.5		
Pharma	At second floor work area	Ammonia	18	13.7	8.1	10.4		
	Ammonia recovery area	Ammonia	18	16.6	6.6	10.7		
Epoxy - I	At vacuum pump 2nd floor	ECH	10	3.4	1.2	2.3		
	At vessel POS 1208 G.F	ECH	10	7.8	5.2	6.3		
Shed H	At second floor work area	Nitrobenzene	5	2.3	0.4	1.4		
Shed J	Buffer Tank	Chlorine	3	2.5	0.6	1.0		

The company should install alkali scrubbers for scrubbing of HCl.	Results for the compliance period is given in Table 2. (Pl. see pg. no. 16) Complied. 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 tank should be monitored regularly.	Complied. pH of the scrubber tank is monitored regularly and logged. It is a regular operating practice.
Liquid effluent generated from the scrubber should be sent to effluent treatment plant.	Complied. Liquid effluent generated from the scrubber is being sent to ETP along with plant effluent stream.
All the process equipment/reaction vessels should be connected with central exhaust system.	Complied. 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 should be taken to reduce the losses of solvents.	Complied. Reactors are connected to chilled brine condenser system. Breather valve have been provided to all solvent storage tanks.
Cooling arrangement should be made for all the solvent storage tanks to minimize evaporation losses.	Complied. 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 the incinerator and data submitted regularly to SPCB and Ministry of Environment and forests.	Complied. Incinerator stack has been regularly monitored and data submitted regularly to GPCB and MoEF through six monthly EC compliance report. Details o stack results for the compliance period is given in Table 1. (Pl. see pg. no 12)

iv	The effluent generation should not exceed 1191 m3/day (936	Complied.								
	m3/d of process effluent and 255 m3/d of domestic effluent).	However, sir request to co According to II (I) dated	nsider la o specif	atest figu ic condi	ires give	n in san . i) of E	ne. C F No. J	J 11011,	- /85/2009	9 IA
		The average v Detail break	wastewa up is giv	ter gener ven belov	v:		ort period	l is 9104	m³/day o	only.
		Wastewater generation m ³ /day			Jul-18		Sep-18	Oct-18	Total	
		Month wise	315342	292855	299412	289015	240608	238296	1675528	
		Per day	10172	9762	9658	9323	8020	7687	Avg. 9104	
		The maximum the wasteward is given below Wastewater generation	ter gener	ration we		nd the s	tipulated	standar		nary
		0				Min.	Max		vg.	
		Wastewater generation m	ı³/d	17283		7687	101	72 91	104	
	The effluent should be segregated at source of generation.	Complied. Concentrated through reco					chemicals	are be	ing retrie	eved
	The Concentrated effluent stream should be incinerated and non-concentrated effluent after tertiary treatment should be discharged into the CETP.	Among the concentrated and product sent to ETP	l. We hav so obta	ve install ined are	ed distill sold. Aft	ation pla ter recov	ant where very of pro	the streaduct, le	am is disti an effluer	illed nt is
		is required.		10 troute		ac arry a				

The treated effluent should be discharged into estuary zone of river Par through 4.0 km long HDPE pipe line only after it meets the standards stipulated by the Gujarat Pollution Control Board/EPA rules.

Complied.

The discharged effluent is meeting all state pollution control board limits and values of various parameters of treated effluent is given in **Table 3**. (Pl. see pg. no. 16) Apart from the same, we have carried out EIA study of river Par in 2009 & 2015.

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

Sr. No.	Parameter	Norms		for the 8 –Oct 1	
			Min.	Max.	Avg.
1	рН	5.5-9.0	6.9	7.5	7.2
2	Temperature	40 deg C	28.0	31.0	29.5
3	Colour (pt. co. scale)in units		20.0	48.0	33.3
4	Suspended solids	100 mg/l	24.0	62.0	43.8
5	Phenolic Compounds	5 mg/l	0.4	2.0	0.9
6	Cyanides	0.2 mg/1	0.0	0.0	0.0
7	Fluorides	2 mg/l	0.0	0.0	0.0
8	Sulphides	2 mg/l	0.1	0.3	0.2
9	Ammonical Nitrogen	50 mg/l	26.8	44.0	37.8
10	Total Chromium	2 mg/1	0.0	0.0	0.0
11	Hexavalent Chromium	1 mg/l	0.0	0.0	0.0
12	BOD (3 days at 27°C)	100 mg/l	38.0	42.0	40.0
13	COD	250 mg/l	190.0	232.0	218.0

The domestic waste water should be disposed off through septic tank / soak pit system.

Complied.

Domestic waste water goes to septic tank and subsequently in to ETP for further treatment.

Detail of Domestic effluent generation is given in below table:

Domestic Wastewater generation m ³	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
Month wise	13712	12712	12946	12343	9694	10005	71412
Per day	442	424	418	398	323	323	Avg. 388

The maximum, minimum and average values are given below:

Domestic Wastewater generation	Values for	r the period	May 18- Oct 18
	Min.	Max.	Avg.
Domestic Wastewater generation m³/d	323	442	388

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 online fish pond using treated effluent at our ETP.

	The effluent quality at the	Complied	<u> </u>		
	discharge point must also be	_			
	monitored periodically by an independent agency authorized by CPCB and report of the		ent quality at the ETP disch vironmental auditors appoi	arge point is regularly being mor nted by GPCB.	nitored
	independent agency should be submitted to the Ministry's Regional office at		o monitor the treated efflue g results of GPCB is attache	ent quality at regular intervals. I ed as Annexure A .	Recent
	Bhopal/CPCB/GPCB	GPCB. Ag Envision I monitorin	encies like Pollucon Labora Enviro Technologies Pvt. Ltd g in 2009 & 2105 respective	ge point is regularly being monito tories Pvt. Ltd- MoEF approved a l- NABET accredited have also do ly. Relevant extracts from latest r letter Atul/SHE/MoEF/Visit/3	gency, one the reports
vi	As reflected in the EIA/EMP	Complied	1.		
	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.	have take approved	n permission from MoEF vi	F instead of incineration for wh de letter dated 6.5.04 and same We also send our incinerable wa given through our CCA.	is also
	The ground water quality in and	Complied	1.		
	around the unit and the hazardous waste storage site should be regularly monitored and the data recorded to ensure that there is no contamination	and the h		ed regularly for in and around the te. Latest GPCB Groundwater ar	
	of the groundwater.				
vii	The destructive efficiency of the incinerator should be assessed	Complied			
	by an agency like CPCB and a report submitted to the Ministry.	reputed a	agency in field on enviro	nerator was assessed by M/s. Sonmental monitoring. Report a 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	I.		
	Further, specific conditions	Complied	I.		
	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		ompliance report is already Atul/SHE/MoEF/Visit/3 d	submitted to the Ministry vide ou: ated 4.4.17.	r letter
	estuary zone of the River Par Zone should be strictly adhered to.				
ix	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per		onal health surveillance of	the workers is being done on r he factory act which is shown in	
	the Factories Act.	table:	as per t	The factory act willer is shown in	DETOM
		Sr. No.	Month of Examination	Total No. of Employees	
		1	Quarter 1	1312	
		2	Quarter 2	865	

х	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.	Complied. Company has expanded its harvesting pond capacity to 9000 KL capacity pond to harvest rain water. 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 are also constructing temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain
хi	The project authorities may undertake a survey to assess the	water in river Par. Complied.
	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.	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 16.8.04.
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 ecodevelopment measures including community welfare measures in the project area.	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 17.05.2004. 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 4.4.17.
	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 17.05.2004.
	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.	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.
	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.
i B.	General Conditions 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

		autho every	rized agency and nominate year.	d by GPCB; th	nrough 1	Environr	nental a	audit		
		of En	compliance report by GPCE gineering Technology and ned as Annexure C .							
ii	At no time, the emissions should	Comp	lied.							
	not go beyond standards.	Month	alre manitaring is baing dans	hr NADI opp	norrad th	ind nontr	-			
			nly monitoring is being done time, the emissions exceeded					riod.		
			naximum values during the consission level went beyond the				at at no	time		
		Sumn	nary of stack results given	in specific c	ondition	no. i a	s above	:_		
	In the event of failure of any	Comp						•		
	pollution control system adopted by the units, the respective unit should be immediately put out of	No su	ch incident happened durin	g compliance _l	period.					
	operation and should not be restarted until the desired efficiency has been achieved.									
iii	The overall noise level in and	Comp	lied.							
	around the plant area shall be kept well within the standard by	Acous	tic hood, silencer and acous	stic enclosures	and ins	sulation	are prov	vided		
	providing noise control		propriate high noise area like				F			
	measures including acoustic hoods silencers, enclosures etc.									
	on all source of noise									
	generation.	•	1. 1							
	The ambient noise levels should confirm to the standards	Comp	onea.							
	prescribed under EPA Rules, 1989, viz. 75 (daytime) and 70bBA(night time)	The ambient noise level is regularly monitored and its data are given in Table 4 and 5 . (Pl. see pg. no. 17)								
		The maximum values during the compliance period confirms that at no time the noise emission level went beyond the stipulated standards. Summary is given below:								
		Noise	level monitoring data (Da	v Time)						
		Sr. No.	Location	Permissible Limits, dBA		for the p 8- Oct 18				
				75	Min.	Max.	Avg.			
		1	Near Main guest house	75	60.8	67.4	64.8			
		2	Near TSDF	75	62.5	67.2	64.2			
		3	At Wyeth Colony	75	59.8	65.5	62.6			
		4	Gram Panchayat Hall	75	60.3	68.4	62.2			
		5	Near Main Office North site	75	61.3	65.4	63.6			
		6	ETP North site	75	62.4	66.8	64.5			
		7	Opposite shed D	75	63.1	68.2	65.7			
		8	ETP West site	75	62.4	65.7	64.3			
		9	Water tank Haria road	75	60.8	64.3	62.9			
		10	Near 66KVA substation	75	61.6	64.9	63.4			
l										

	Sr. No.	Location	Permissible Limits, dBA	Values for the period May 18- Oct 18		
	1		70	Min.	Max.	Avg. 54.0 55.9
		Near Main guest house	70	49.3	58.6	
	2	Near TSDF	70	52.6		
	3	At Wyeth Colony	70	48.2	53.7	51.3
	4	Gram Panchayat Hall	70	51.3	53.3	52.2
	5	Near Main Office North site	70	54.2	56.8	55.5
	6	ETP North site	70	50.3	54.7	52.6
	7	Opposite shed D	70	52.7	56.5	54.0
	8	ETP West site	70	52.2	55.2	53.9
	9	Water tank Haria road	70	47.2	54.4	50.4
	10	Near 66KVA substation	70	48.5	52.7	50.6
The project authorities will provide adequate funds to	Comp	lied.		<u> </u>	1	1

The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.

Non recurring cost: 6.3 Cr

Recurring cost: A budget is prepared for every coming six months and separate fund is allocated towards environmental management. Total expenditure for the report period is given in below table:

Expenditure for months	Particular	Expenses Rs.
	Fuel	2828087
	Chemicals(Raw Material)	84873715
May 2018-October 2018	Electricity	27638619
Including, recurring maintenance,	Waste disposal	22312742
modifications	Salary	14195816
and monitoring.	Maintenance & modifications	27210467
	Monitoring	4119476
	Total	183178922

The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.

Complied.

The company complies with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003. We have valid authorization under our current CCA No. AWH-67717 for handling, storage and disposal of hazardous waste. Stipulation made in CCA by GPCB are being complied. This has been certified by our Environmental auditors, an authorized agency and nominated by GPCB; through Environmental audit every year. Latest compliance report by GPCB appointed Environmental auditor Faculty of Engineering Technology and Research, Dist. Surat for year 17-18 is attached as **Annexure C**.

	Authorization from the GPCB	Complied.
	must be obtained for collections	We have valid outhorization under our gurrent CCA No. AWII 67717 for
	/treatment/ storage/ disposal of hazardous waste.	We have valid authorization under our current CCA No. AWH-67717 for handling, storage and disposal of hazardous waste.
vi	The stipulated conditions will be	Noted.
	monitored by the Regional office	
	of this Ministry at Bhopal/GPCB.	
	A six monthly compliance report	Complied.
	and the monitored data should	-
	be submitted to them regularly.	Six monthly compliance report and the monitored data are being submitted to the Ministry at Bhopal with copy marked to GPCB regularly.
Vii	The Project Proponent shall	Complied.
	inform the public that the	
	project has been accorded environmental clearance by the	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions
	Ministry and copies of the	at their end.
	clearance letter are available	at their one.
	with the SPCB/Committee and	
	may also be seen at website of	
	the Ministry of Environment and Forest at	
	http://www.envfor.ni.in.	
	This shall be advertised within	Complied.
	seven days from the date of	
	issue of the clearance letter at	Advertisement was published as directed and copy of the same was
	least in two local newspaper that are widely circulated in the	submitted to Ministry.
	region of which one shall be in	
	the vernacular language of the	
	locality concerned and a copy of	
	the same shall be forwarded to the concerned Ministry's	
	Regional office at Bhopal.	
3.0	The ministry or any competent	Noted.
	authority may stipulate any	
	further condition(s) on receiving reports from the project	
	reports from the project authorities.	
	The above conditions will be	Noted.
	monitored by the Regional	
	Office of this Ministry located at Bhopal.	
4.0	The Ministry may revoke or	Noted.
	suspend the clearance if	
	implementation of any of the	
	above conditions is not satisfactory.	
5.0	Any other conditions or	Noted and will be complied.
	alternation in the above	
	conditions will have to be	
	implemented by the project	
	authorities in a time bound manner.	
6.0	The above conditions will be	Noted.
	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.

Details of Process and Flue stack

Detai	ls of Process and Flue stack														
Sr. No.	Stack Details	Paramenter	Permissible Limits	Date of Sampling	Obtained Value	Date of Sampling	Obtained Value								
Atul I	Cast Site														
1	Phosgene Plant (Old Plant)	Phosgene	0.1 ppm	-	Not in use	-	Not in use								
Caust	ic Chlorine Plant														
2	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	10.5.18	4.7	13.6.18	3.9	5.7.18	3.2	9.8.18	2.9	6.9.18	3.1	6.10.18	2.6
		HCI	20.0 mg/Nm3		3.9		5.2	1	5.5		4.8	1	4.2		4.3
3	Common stack of HCl Sigri unit	Cl ₂	9.0 mg/Nm3		5.1		4.8		4.2	17.8.18	5.1	6.9.18	4.8	6.10.18	3.8
	18-2	HCI	20.0 mg/Nm3		4.3		6.3		5.8		5.3		6.2		4.7
FCB I	Palnt	1	· L												
4	Foul Gas Scubber	SO_2	40.0 mg/Nm3		Not in use		Not in use								
		NOx	25.0 mg/Nm3												
Sulfu	ric Acid (East Site)														
5	Sulfuric Acid Plant	SO ₂	2.0 kg/T		Not Runnig	27.6.18	0.7	5.7.18	0.5	18.8.18	0.4	7.9.18	0.3	6.10.18	0.7
		Acid Mist	50.0 mg/Nm3		During Visit		7.8		6.2	10.0.10	5.7		4.9		5.3
6	ChloroSulfonic Acid plant	Cl ₂	9.0 mg/Nm3	10.5.18	5.2		4.9		3.2	18.8.18	4.1		5.2		4.8
	reactor	HCI	20.0 mg/Nm3	-	7.1		8.3		5.5	10.0.10	5.1		4.8		6.7
Incin	erator										3.1				
7	Incinerator	PM	150.0 mg/Nm3	11.5.18	53	13.6.18	49	5.7.18	44	9.8.18	47	8.9.18	51	27.10.18	54
		SO ₂	40.0 mg/Nm3	-	11.2		12.3		16.5	5.0.10	17.3		14.3		19.3
		NOx	25.0 mg/Nm3		7.1		9.6		12.4		11.6		12.5		12.1
NI Pla	nt .		ar ar								11.0				
8	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	11.5.18	9.3	13.6.18	10.2		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		NOx	25.0 mg/Nm3		4.8		5.3		During Visit		During Visit		During Visit		During Visit
NBD I	Plant .		O,												
9	Spray Dryer	PM	150.0 mg/Nm3		Not Runnig During Visit		Not in use								
2-4-D	Plant														
10	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	11.5.18	5.1	6.6.18	6.8	6.7.18	5.5	9.8.18	4.9	13.9.18	5.1	9.10.18	4.9
		HCI	20.0 mg/Nm3		6.1		7.2		7		6.7		6		5.4
		Phenol			ND		ND	1	ND		ND		ND		ND
11	Dryer-1	PM with Pesticide compound	20.0 mg/Nm3	10.5.18	8.7	6.6.18	8.7	6.7.18	5.8	9.8.18	4.7	14.9.18	5.2	10.10.18	6.2
12	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3		9.1		6.5		7.0		6.5	-	4.6		4.3
13	Dryer-3	PM with Pesticide compound	20.0 mg/Nm3		10		9.2		8.0		7.4		6.8		5.2
14	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3		8.4		7.4		6.0		6.3		6.2		6.4
														Page 12 of	,_

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Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value										
No.			Limits	Sampling											
CP Pla												T			
15	MCPA	Cl ₂	I3		Not Dannie		Not Dumnia		Not Dummin		Not Runnig		Not Dummin		Not Dumnia
15	MCPA	HCI	9 mg/NM ³	_	Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		During Visit		Not Runnig During Visit		Not Runnig During Visit
			20 mg/NM ³	_							8				
		SO ₂	40 mg/NM ³												
16	Fipronil	SO ₂	40 mg/NM ³		Not Runnig During Visit										
15	Tue idea de cuid	HCl	20 mg/Nm3												
17	Imidacloprid	NH ₃	175 mg/Nm3		Not Runnig During Visit										
18	Pyrathroids	SO ₂	40 mg/Nm3		Not Runnig		Not Runnig		Not Runnig		,		Not Runnig		Not Runnig
		HC1	20 mg/Nm3	1	During Visit		During Visit		During Visit				During Visit		During Visit
19	Stack at Amine Plant	NH_3	175 mg/Nm3	11.5.18	9.6	13.6.18	8.4	7.7.18	6.0	2.8.18	5.4	7.9.18	4.9	8.10.18	7.4
MPSL	Plant														
20	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm		Not Runnig		Not Runnig	26.7.18	ND	3.8.18	ND	20.9.18	ND	5.10.18	ND
21	Central Scrubber at MPSL	Phosgene	0.1 ppm		During Visit		Not Runnig		ND				ND	5.10.18	ND
							During Visit			3.8.18	ND				
	plant														
22	Central scrubber at Nico Plant	Acetonytryle, IPA		-	-	-	-	-	-	-	-	-	-	-	-
Ester	Plant														
23	Scrubber at Ester plant for	Formaldehyde	10 mg/Nm3		Not Runnig										
	Glyphosate				During Visit										
24	Central Scrubber MCPA Plant	HC1	20 mg/Nm3		Not Runnig										
25	MPP plant scrubber	HC1	20 mg/Nm3		During Visit Not Runnig		During Visit Not Runnig		During Visit Not Runnig		During Visit		During Visit Not Runnig		During Visit Not Runnig
25	WFF plant scrubber				During Visit		During Visit		During Visit		Not Runnig		During Visit		During Visit
		Phosgene	0.1 ppm		ŭ		Ü		, ,		During Visit		Ü		Ü
	West Site														
26	Shed A05/03/44	CI ₂	9 mg/NM ³		Not Runnig During Visit		Not Runnig During Visit	12.7.18	2.5	3.8.18	2.9	13.9.18	3.1	7.10.18	3.9
		HCI	20 mg/NM ³						4.5		5.1		6.2		4.3
27	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	3.5.18	10.8	7.6.18	4.8	12.7.18	4.2	9.8.18	5.1	13.918		7.10.18	4.6
		HCI	20.0 mg/Nm3		4.1		7.3		6.5		4.9				5.8
28	Shed B18/02/24 Fan	SO ₂	40 mg/NM ³	3.5.18	5.6	7.6.18	10.6	12.7.18	6.3		Not Runnig During Visit		Not Runnig During Visit	10.10.18	3.8
		Cl ₂	9 mg/NM ³		4.2		1.2		1.5		During visit		During visit		5.1
		HCI	20 mg/NM ³		6.1		5.1		5.5						6.1
29	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	3.5.18	5	14.6.18	4.3	12.7.18	4.1	3.8.18	5.3	8.9.18	6.3	10.1018	3.7
		HCI	20.0 mg/Nm3		7.2		5.1		5.5		7.2		8.6		5.9
30	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	4.5.18	10.8	14.6.18	9.8	12.7.18	7.2	11.8.18	8.4	27.9.18	7.8	8.10.18	9.2
31	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	4.5.18	11.2	14.6.18	13.6	12.7.18	14.3	11.8.18	13.8	27.9.18	Not Runnig	8.10.18	8.5
32	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	3.5.18	8.6	14.6.18	10.4	12.7.18	12.5	11.8.18	12.3	1	During Visit		not running
33	Shed F F6/1/15 Reaction	Cl ₂	9.0 mg/Nm3	4.5.18	3.9	14.6.18	4.2	12.7.18	3.2	3.8.18	4.6	8.9.18	3.4	7.10.18	6.3
	Vessel	HCI	20.0 mg/Nm3	_	4.8		5.1		4.4	3.0.10	4.0		6.3		5.1
34	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3		Not Runnig	8.6.18	3.3		Not Runnig		Not Runnig	14.9.18	Not Runnig		Not Runnig
٠.	Shed d 10/0/1 (receiver)	HCI		_	During Visit	0.0.10			During Visit		During Visit	14.5.10	During Visit		During Visit
		-	20.0 mg/Nm3				6.2								
35	Shed H 11/6/17 chlorinator	Cl ₂	9.0 mg/Nm3	4.5.18	5.7	8.6.18	6.3	7.7.18	4.2	17.8.18	3.9	14.9.18	4.9	8.10.18	4.6
		HCI	20.0 mg/Nm3		6.9		8.6		7.3		6.1		7.2		4.9
36	Shed K K-13/3/4 Final of	SO ₂	2.0 kg/T	4.5.18	1	8.6.18	1.1	7.7.18	1	9.8.18	0.8	14.9.18	0.9	9.10.18	0.9
	Sulfuric acid plant	Acid Mist	50.0 mg/Nm3		12.3		10.2		12.4		11.2		13.6		12.2
37	Shed J15/09/25	HBr			Not Runnig	8.10.18									
		SO ₂	40 mg/NM ³		During Visit		During Visit	I	During Visit		During Visit		During Visit	I	6.3

Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value	Date of	Obtained Value	Date of	Obtained Value	Da+K81:K9	Obtained Value	Date of	Obtained Value	Date of	Obtained Value
No.			Limits	Sampling		Sampling		Sampling		6te of		Sampling		Sampling	
38	Shed J12/01/42	SO_2	40 mg/NM ³	17.5.18	13.6	16.6.18	12.5	7.7.18	7.5	10.8.18	6.5	7.9.18	5.8	8.10.18	4.8
		CI_2	9.0 mg/Nm3		8.8		7.9		3.5		4.1		5.3		5.1
		HC1	20.0 mg/Nm3		5.1		6.4		6.5		5.8		6.7		4.7
39	Shed J12/03/36	SO_2	40 mg/NM ³		Not Runnig	16.6.18	10.6	7.7.18	10.5	10.8.18	9.4	7.9.18	10.2	8.10.18	9.3
		HC1	20.0 mg/Nm3		During Visit		5.4	1	5.5		4.8		5.7	1	6.2
40	Shed N Scrubber Fan N20/08/24	CI ₂	9 mg/NM ³	17.5.18	4.9	8.6.18	3.7	7.7.18	4.1	10.8.18	5.2	7.9.18	4.9	8.10.18	3.7
		HC1	20 mg/NM ³		8.6		7.5		8.4		9.1		10.2		9.5
41	Shed N Scrubber Fan N20/02/41	SO ₂	40 mg/NM ³	17.5.18	11.2	8.6.18	10.4	7.7.18	5.4	10.8.18	7.2	7.9.18	8.3	8.10.18	8.2
42	Sulfer Black Plant	H ₂ S		17.5.18	ND	16.6.18	ND	12.7.18	ND	18.8.18	ND	27.9.18	ND	26.10.18	ND
		NH ₃	175 mg/NM ³		17.6		19.8		12.5	10.0.10	14.2		15.2		16.2
43	Sulfer Dyes plant	H ₂ S		18.5.18	ND		Not Runnig During Visit	12.7.18	Not Runnig During Visit	18.8.18	ND	27.9.18	ND	26.10.18	ND
		NH ₃	175 mg/NM ³	-	13.2				16.7	10.0.10	15.4		16.3		15.1
Atul N	orth Site		3/												
44	N-FDH Plant Catalytic	PM	150.0 mg/Nm3	18.5.18	49	21.6.18	53	13.7.18	50	17.8.18	43		not running in	27.10.18	54
	Incinerator	SO_2	40.0 mg/Nm3		13.1		14.2		12.7		10.8		this month		14.8
		NOx	25.0 mg/Nm3		9.5		10.8		10.5		9.5				10.2
		Formaldehyde	10.0 mg/Nm3		ND		ND		ND		ND				N.D
45	PHIN Plant vessel	Phosgene	0.1 ppm	19.5.18	ND	29.6.18	ND	13.7.18	ND	17.8.18	ND	20.9.18	ND	25.10.18	ND
46	DCDPS Plant	SO ₃		18.5.18	3.9		Not Runnig During Visit		Not Runnig During Visit	17.8.18	ND	20.9.18	ND	25.10.18	ND
47	DDS Plant	NH_3	175 Mg/Nm3	18.5.18	14.5					17.8.18	13.2		not running	25.10.18	14.2
48	SPIC II Plant	SO ₃		19.5.18	4.3		Not Runnig During Visit	13.7.18	ND	18.8.18	ND	20.9.18	ND	27.10.18	ND
49	SPIC I Plant	NH_3	175 mg/Nm3	19.5.18	11.1	30.6.18	14.8	13.7.18	13.3	18.8.18	12.4	20.9.18	14.8	25.10.18	12.1
50	SPIC IV Plant	NH_3	175 mg/NM ³	18.5.18	12.6	29.6.18	11.3	13.7.18	10.8	17.8.18	14.1		not running	25.10.18	15.6
		SO ₃			4.1		ND		4.8		5.2		in this month		7.2
51	Furnace (Phosgene plant-New)	PM	150 mg/NM ³	19.5.18	42	21.6.18	47	13.7.18	44	18.8.18	47	20.9.18	52	17.10.18	53
52	Reactor (Phosgene plant- New)	СО		19.5.18	ND	21.6.18	ND	13.7.18	ND	18.8.18	ND	20.9.18	ND	17.10.18	ND
		Phosgene	0.1 ppm	1	ND		ND	1	ND		ND		ND		ND
	1	1	1		1		1				1		1	Page 14 of	

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Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value	Date of	Obtained Value	Date of	Date of	Date of	Obtained Value	Date of	Obtained Value	Date of	Obtained Value
No.	otten Details	- dramenter	Limits	Sampling	obtained variation	Sampling	obtained value	Sampling	Sampling	Sampling	obtained value	Sampling	obtained value	Sampling	Obtained variation
East :	site	-	•												
1	FBC boiler El	PM	100 mg/Nm3	24.5.18	56	15.6.18	48	13.7.18	40	2.8.18	43	20.9.18	49	6.10.18	56
		SO_2	600 mg/Nm3		100		93		88		92		102		100
		NOx	600 mg/Nm3		119		102		95		101		112		112
2	FBC boiler E2	PM	100 mg/Nm3	24.5.18	59	22.6.18	53	13.7.18	55	2.8.18	51	21.9.18	53	6.10.18	53
		SO_2	600 mg/Nm3		97		101		95		98		100		89
		NOx	600 mg/Nm3		113		118		100		100		109		101
3	FBC boiler No.3	PM	100 mg/Nm3	24.5.18	49	15.6.18	59	13.7.18	65	9.8.18	59	20.9.18	61	5.10.18	65
		SO_2	600 mg/Nm3		83		111		105		103		109		112
		NOx	600 mg/Nm3		109		119		120		116		121		118
4	Hot Oil Unit	PM	150.0 mg/Nm3	26.5.18	ND	22.6.18	ND	14.7.18	ND	3.8.18	ND	21.9.18	ND	26.10.18	ND
	(Resorcinol Plant)	SO_2	100 ppm		ND		ND		ND		ND		ND		ND
		NOx	50 ppm		29		27		28		31		30		33
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³		Stand by		Stand by		Stand by		Stand by		Stand by		Stand by
		SO_2	100 ppm									1			
		NOx	50 ppm												
West	Site		•	l.											
6	FBC boiler W1	PM	100 mg/Nm3	31.5.18	42	28.6.18	47	14.7.18	45	10.8.18	48	21.9.18	52	25.10.18	56
		SO_2	600 mg/Nm3		60		63		65		71		79		72
		NOx	600 mg/Nm3		101		97		102		108		118		101
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	25.5.18	ND	22.6.18	ND	14.7.18	ND	18.8.18	ND	28.9.18	ND	26.10.18	ND
		SO_2	100 ppm		ND		ND		ND		ND	-	ND		ND
		NOx	50 ppm		33		31		35		29		35		32
8	Oil burner Shed B	PM	150.0 mg/Nm3		Stand by		Stand by		Stand by		Stand by		Stand by		Stand by
	(Stand By)	SO_2	100 ppm												
		NOx	50 ppm												
9	Boiler (50 TPH 2 Nos) (New	PM	50 mg/Nm3	25.5.18	29	29.6.18	27	12.7.18	24			28.9.18	34	27.10.18	39
	boilers) W2,W3									17.8.18	31				
		SO ₂	600 mg/Nm3		86		81		75		82		89		110
		NOx	300 mg/Nm3		ND		75 ND		69 ND		71		78 ND		92 ND
	DO . 1500 IIII	Mercury	0.03 mg/Nm3	-							ND				ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	_	Stand by		Stand by		Stand by		Stand by	1	Stand by		Stand by
	(Stand By)	SO ₂	100 ppm	4								1			
N ·	014 -	NOx	50 ppm												
North		D3.6	150.0 (N	06.5.16	140	00.6.10	50	12.7.10	56			07.0.10	61	07.10.10	61
11	Thermic fluid heater of	PM	150.0 mg/Nm3	26.5.18	48 39	22.6.18	50	13.7.18	56 45	3.8.18	56	27.9.18	61 49	27.10.18	61 52
	DCO/DAP Plant	SO ₂ NOx	100 ppm	4	39	4	43 28		35	-	45	4	56		34
		NOX	50 ppm		30		40		33		37		30	Page 15 of	

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Table 2: Fugitive Emission Monitoring details

Plant	Area	Parameter	Prescribed Limit	Prescribed Results of VOCs in Milligram per NM ³ Limit							
				May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18		
2,4 D	Reactor	Phenol	19	10.4	7.8	11.6	12.8	13.4	15.2		
	Buffer tank	Chlorine	3.0	1.5	1.8	1.4	0.8	1.3	1.6		
Resorcinol	Benzene storage tank area near vent	Benzene	15	4.8	8.2	5.4	3.8	5.6	7.8		
	Near Extraction/scrubber unit	Butyl acetate	-	1.4	2.1	2.6	1.8	2.9	4.2		
Pharma	At second floor work area	Ammonia	18	9.6	13.7	9.6	10.8	8.1	10.3		
	Ammonia recovery area	Ammonia	18	6.6	10.4	12.8	16.6	10.6	7.4		
Epoxy - I	At vacuum pump 2nd floor	ECH	10	2.8	3.4	2.1	2.4	2	1.2		
	At vessel POS 1208 G.F	ECH	10	6.4	5.6	7.8	5.2	6.1	6.8		
Shed H	At second floor work area	Nitrobenzene	5	1.8	2.3	0.44	1.1	1.6	1		
Shed J	Buffer Tank	Chlorine	3	0.56	0.88	closed	0.56	2.5	0.6		

 $\ \, \textbf{Table 3: Quality of treated effluent} \\$

Sr. No.	Parameter	Result	s					GPCB Limits
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	
1	pH	7.2	7.5	7.2	7.1	7	6.92	5.5 to 9.0
2	Temperature °C	31	30	29	28	29	29.8	40 °C
3	Colour (pt. co. scale)in units	48	35	37	20	25	35	
4	Suspended solids, mg/l	62	55	46	44	32	24	100
5	Phenolic Compounds, mg/1	0.8	0.5	0.7	2	0.7	0.4	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	ND	ND	ND	ND	ND	ND	2
8	Sulphides, mg/l	0.2	0.3	0.2	0.1	0.2	0.1	2
9	Ammonical Nitrogen, mg/l	26.8	42	44	36	42	36	50
10	Total Chromium, mg/l	0.01	0.02	0.01	0.01	0.01	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	42	38	42	38	42	38	100
13	COD, mg/1	232	220	232	212	222	190	250
Note	: ND is Not Detectable.		I	1	I	1	1	

Table 4: Noise level monitoring data (Day Time)

Sr. No.	Location				Permissibl e Limits, dBA			
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	75
1	Near Main guest house	66.5	67.4	66.8	63.1	60.8	64.2	75
2	Near TSDF	67.2	62.5	64.3	63.7	62.8	64.4	75
3	At Wyeth Colony	61.3	63.1	65.5	62.4	59.8	63.2	75
4	Gram Panchayat Hall	68.4	60.8	61.2	61.2	60.3	61.5	75
5	Near Main Office North site	65.3	61.3	62.7	65.4	62.3	64.4	75
6	ETP North site	63.3	62.4	63.5	66.2	64.7	66.8	75
7	Opposite shed D	68.1	68.2	67.5	64.3	63.1	63.2	75
8	ETP West site	62.4	64.3	65.6	65.7	62.8	65.2	75
9	Water tank Haria road	60.8	63.7	64.3	62.1	63.1	63.2	75
10	Near 66KVA substation	63.1	62.4	63.7	64.9	61.6	64.4	75

Table 5: Noise level monitoring data (Night Time)

Sr. No.	Location	Noise 1	Level, d		Permissibl e Limits, dBA			
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	70
1	Near Main guest house	58.6	54.8	55.1	53.2	49.3	52.8	70
2	Near TSDF	61.1	55.6	54.4	56.1	52.6	55.3	70
3	At Wyeth Colony	50.1	53.7	52.7	51.3	48.2	51.5	70
4	Gram Panchayat Hall	51.3	52.1	53.3	52.3	51.6	52.4	70
5	Near Main Office North site	56.8	55.2	54.2	55.4	56.8	54.4	70
6	ETP North site	53.6	51.2	50.3	52.4	54.7	53.3	70
7	Opposite shed D	55.3	52.7	53.3	53.2	56.5	52.8	70
8	ETP West site	54.9	53.6	52.8	54.7	52.2	55.2	70
9	Water tank Haria road	47.3	48.1	47.2	53.8	51.8	54.4	70
10	Near 66KVA substation	49.1	49.5	48.5	51.3	52.7	52.7	70



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Gujarat Pollution Control Board, Vapi
C5/124, GIDC Vapi,
Near Hotel Pritam,
Vani - 396 195

Vapi - 396 195 Tele:(0260) 2432089



Sample ID:243655 - Analysis Completion:20/10/2018

Dyes and Dye-Intermediates / LAB Inward : 46965

Accreditation Standards & NABL Certificate Details: Biological(T-3121) / Chemical(T-3120) / 18.09.2014 / 17.09.2016

TEST REPORT

Test Report No. : 46965 Date: 20/10/2018

1. Name of the Customer : Atul Limited - 23158

2. Address : 5, 6, 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc.,AT & P.O.ATUL, Dist. Valsad, Pin:

ATUL-396020, Taluka: Valsad, District: Valsad, GIDC: Not In Gidc

3. Nature of Sample : REP-Representative/Grab, (Insp Type : VIG-By Vigilance Team)

4. Sample Collected By : A.G. Patel, Vigl Head

5. Quantity of Sample Received : 5

6. Code No. of the Sample : 243655

7. Date & Time of Collection & Inwarding : 30/09/2018, (1725 to 1725) & 01/10/2018

8. Date of Start & Completion of Analysis : 01/10/2018 & 20/10/2018

9. Sampling Point : final outlet of East side ETP (treated) ~

10. Flow Details (Remarks) : ye

11. Mode of Disposal : into treated w/w pond & finally into estuary zone of Par river

12. Ultimate Receiving Body : Estuary zone of river par

13. Temperature on Collection : 30 & pH Range on pH Strip :@ 7-8 on pH strip

14. Carboys Nos for : VAP-WTB651 & Color & Appearance : Yellowish Brown

15. Water Consumption & W.W.G (KLPD) : Ind :23726.000 , Dom :938.000 & Ind :21727.000 , Dom :939.000

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	30
2	рН	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.51
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	100
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	3642
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	88
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	21.74
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	1550
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	73
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	237
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.2
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.82
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	0.89
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	44

<u>Laboratory Remarks</u>: Freeze By:445-lab_445 Dt.: 20/10/2018

Jigo

J.D.OZA, Lab Head

Field Observation: sample collected as per is 3025

Note:

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



Annexure B

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



Sample ID:205274 - Analysis Completion:27/02/2017

Dyes And Dye-Intermediates. / LAB Inward: 40525

Accreditation Standards & NABL Certificate Details: Biological(T-3121) / Chemical(T-3120) / 18.09.2014 / 17.09.2016

TEST REPORT

Test Report No. : 40525 Date: 27/02/2017

1. Name of the Customer : Atul Limited - 23158

2. Address : 5, 6, 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc.,AT & P.O.ATUL, Dist. Valsad, Pin:

ATUL-396020, Taluka: Valsad, District: Valsad, GIDC: Not In Gidc

3. Nature of Sample : REP-Representative/Grab, (Insp Type : HOR-H.O.Reference)

4. Sample Collected By : A.G. Rana, SO(M)

5. Quantity of Sample Received : 0

6. Code No. of the Sample : 205274

7. Date & Time of Collection & Inwarding : 10/02/2017, (1105 to 1105) & 13/02/2017

8. Date of Start & Completion of Analysis : 13/02/2017 & 27/02/2017

9. Sampling Point : Water sample collected from borewell No. 1 (Upstream of TSDF) ~

10. Flow Details (Remarks): ---11. Mode of Disposal: ---12. Ultimate Receiving Body: 0

13. Temperature on Collection : 25 & pH Range on pH Strip :@ 7 on pH strip 14. Carboys Nos for : Barcode & Color & Appearance :colourless

15. Water Consumption & W.W.G (KLPD) : Ind :22627.000, Dom :938.000 & Ind :19210.000, Dom :938.000

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	25
2	рН	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.37
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	2.5
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	1106
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	14
6	Ammonical Nitrogen	mg/l	1). Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	<1.0
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	333
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	29
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	16
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	BDL
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	BDL
12	Cyanide	mg/l	Titrimetric method. (4500 - CN? D APHA Standard Me	1-10 mg/l	BDL
13	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	BDL
14	Hexavalent Chromium	mg/l	APHA (22nd Edition) -3500 - Cr B: -2012 Colorimet	0.1 – 100 mg/l	BDL
15	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	3.0

<u>Laboratory Remarks</u>: FREEZE By:445-lab_445 Dt.: 27/02/2017

J.D.OZA, Lab Head

Field Observation :

Note:

- 1. * These parameters are 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.
- 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.

ENVIRONMENTAL AUDIT REPORT (AUDIT PERIOD: APRIL 2017 TO MARCH 2018)

M/S. ATUL LIMITED

Annexure C

Plot No. 5,6,29,30,33,34,35,37,38,80,81,84,85,91 & Survey No. 274,275,276, At & PO Atul — 396020, Dist: Valsad.





ENVIROCHEM AUDIT CELL CHEMICAL ENGINEERING DEPARTMENT

SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED

FACULTY OF ENGINEERING TECHNOLOGY AND RESEARCH

AT. ISROLI, PO. AFWA, TAL. BARDOLI, DIST. SURAT PIN-394620 Phone: 9228000867, 9228003867, 02622-290933, Fax: 02622-291411 E-mail: fetr.bardoli@gmail.com • Website: www.svpesfetr.ac.in

- Overall housekeeping is satisfactory.
- Company has updated its ISO 14001 system as per its 2015 amendment.
- Company has implemented ZLD at some of its plants.
- Company had harvested approx. 850 million liter rain water during monsoon which indeed a great amount.

RECOMMENDATIONS:

- Sampling facility at chlorosulfonic acid stack shall be updated.
- CCTV shall be placed at CETP.
- Lime handling system shall be installed to further minimize local dusting.
- Company shall explore above ground effluent network system.
- Weather monitoring station for climate monitoring shall be installed.

Compliance of last year Recommendations:

- Company shall introduce zero liquid discharge to more of its plants: Complied. Company has made SPIC IV & Sulfur dyes plants zero liquid discharge in addition to Sulfur black & DCP distillation plant.
- Company shall make one more SLS looking to the present scenario: Presently company has two cells at Atul for captive use. Second cell is still having more than two to three years capacity remaining. Company is in process of getting quotation and finalization for the third cell. At the same time, Company is also exploring possibility for disposing waste to the common SLS after getting necessary approvals from the board.
- Company shall introduce online display at main gate for online ambient measurement: Complied.
- Company shall update its ISO 14001 system as per its 2015 amendment: Complied. Company has upgraded EMS as per ISO 14001: 2015 and certified also.

ANNEXURE – 22 COMPLIANCE REPORT

[A] Consent Status

Sr. No.	Details of Conditions	Compliance Status
1.	Status of valid Consolidated consent & Authorization	Complied
		Valid up to 03/11/2019

[B] Water (Prevention and Control of Pollution) act 1974

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* of water as per Water Act,1974: If No. comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[C] AIR (Prevention and Control of Pollution) ACT 1981

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for Air as per Air Act, 1981: If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[D] MANAGEMENT & HANDLING OF HAZARDOUS WASTE Form -2 (See Rule 3(C) & 5 (5)

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for the storage and handling of hazardous waste/chemicals under the Hazardous Waste (Management and Handling) Rule,1989 & EPA-86. If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

of Ingal: Teeh, & Research, Bardoli)

Ta: Bardoli,
Di: Surai,

Atul Limited

Project: Expansion of Pesticide and Synthetic Organic Chemicals manufacturing unit at post Atul, Dist. Valsad

EC Compliance Report for the period May 2018-October 2018 as per EC F. No. J -11011/85/2009-IA II (I) dated 13.05.2009

-IA II (I) dated 13.05.2009									
Condition	Compliance								
Industrial Waste water generation shall not exceed 17,283 m ³ /d.	. -								
	Wastewater generation	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	3 Total	
	m³/day Month wise	315342	292855	299412	289015	240608	238296	167552	
	Per day	10172	9762	9658	9323	8020	7687	Avg. 9104	
	time the wa Summary is Wastewater generation		elow:	ed value	Values	s for the 1	period M	ay-18	
					Min.	Max		lvg.	
	Wastewater generation m³/d 17283 7687 10172 9104								
	effluent of CO All the high than inciner Solvents, Ph reused. Hence	COD stration. Senolics, there	reams are Streams etc. are e is no H	e being o containi taken f igh COD	liverteding Ammore the rown the rown waste	to recove nonia, M ecovery water st	ery system ethanol, of the s ream re	m rath Coppe ame ar	
	and therefore	e no inc	ineration	was dor	ne durin	g this pe	riod.		
97 m ³ /d High TDS effluent shall be evaporated through MEE.						was eva	porated	in ME	
	High TDS effluent m ³	May-18	3 Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total	
	Month wise	2852	2670	2914	2883	2700	2821	16840	
	Per day	92	89	94	93	90	91	Avg. 91.5	
1	The maximum, minimum and avera High TDS effluent Values for the p				verage values are given below: he period May-18 -Oct 18			-	
		lluent							
		lluent	Min.	Ма	х.	Avg.			
		lluent		Ma 94	x.	Avg. 91.5			
Total quantity of 17283 m ³ /d	m ³ /d High TDS eff		Min. 89	94		91.5			

Final Discharge of Treated effluent is being discharge into river par through 4 km line constructed by M/s Atul.

Complied.

Final discharged effluent meeting all state pollution control board's limit is 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 production is recovered by stripping in series of packed column. The ammonia contained water from the stripper is condensed in condenser and recovered ammonia is being recycled back in production of 4,4 DDS. Details are given in below table:

Recover Ammonia	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
KL	399	406	458	447	399	414	2523

Phenol will be recovered from phenol containing effluent.

Complied.

20 Kgs phenol is recovered from effluent per one MT of 2,4 D production. A distillation column has been installed for phenol recovery. Resin tower are installed to recover phenol. Data is given in below table:

	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
DCP crude distilled	1573.2	1698.6	1552.68	1497.11	1226.07	1383.96	8931.615
2,4DCP recovered	1380	1490	1349.3	1297.35	1060.25	1203.6	7780.5
2.6DCP recovered	104.88	113.24	117.482	117.297	98.513	103.704	655.116
OCP/ Residue	88.32	95.36	85.898	82.458	67.307	76.656	495.999

The treated effluent shall confirm the discharge norms.

Complied.

The treated effluent is meeting all the state pollution control board's discharge norms and values of various parameters of treated effluent is given in **Table 1**. (Pl. see pg. no. 17)

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

Sr. No.	Parameter	Norms	Values for the period May-18 -Oct 18				
			Min.	Max.	Avg.		
1	рН	5.5-9.0	6.9	7.5	7.2		
2	Temperature	40 deg C	28.0	31.0	29.5		
3	Colour (pt. co. scale)in units		20.0	48.0	33.3		
4	Suspended solids	100 mg/l	24.0	62.0	43.8		
5	Phenolic Compounds	5 mg/l	0.4	2.0	0.9		
6	Cyanides	0.2 mg/l	0.0	0.0	0.0		
7	Fluorides	2 mg/l	0.0	0.0	0.0		
8	Sulphides	2 mg/l	0.1	0.3	0.2		
9	Ammonical Nitrogen	50 mg/l	26.8	44.0	37.8		
10	Total Chromium	2 mg/l	0.0	0.0	0.0		
11	Hexavalent Chromium	1 mg/l	0.0	0.0	0.0		
12	BOD (3 days at 27°C)	100 mg/l	38.0	42.0	40.0		
13	COD	250 mg/l	190.0	232.0	218.0		

	The domestic effluent shall be disposed off through septic	Complied.							
	tank / soak pit.	Domestic efflue ETP. Detail of D							
		Domestic Wastewater generation m ³	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total
		Month wise	13712	12712	12946	12343	9694	10005	71412
		Per day	442	424	418	398	323	323	Avg. 388
		The maximum,	minimu	m and av	verage va	alues ar	e given 1	below:	
		Domestic Wastewater		Values fo					
		generation		Min.	Ма	ıx.	Avg.		
		Domestic Waste generation m ³ /d		323	44	2	388		
ii	The process emissions (SO ₂ , NH ₃ , Cl ₂ , and HCl, shall be scrubbed with Scrubbers.	Complied. All the SO ₂ , NH; and properly d							
		process and fl	ue gas	stacks 1	have be	en mor	nitored	through	online
	The emission shall be dispersed through stack of adequate height as per CPCB standard. The emission is dispersed through adequate CPCB standard as given below: For Incinerator: Minimum stack height sha ground. For Boilers: Stack Height H=14(Q)0.3 Details of stack results along with its height of (Pl. see pg. no. 18) Gaseous emissions from proregularly on monthly basis. During the report period no case varies from some properties of adequate height as per CPCB standards. The gaseous emission from the DG sets is being of adequate height as per CPCB standards given below: For Incinerator: Minimum stack height sha ground. For Boilers: Stack Height H=14(Q)0.3 Details of stack results along with its height of (Pl. see pg. no. 18) Gaseous emissions from proregularly on monthly basis. During the report period no case varies from some properties of adequate height as per CPCB standards given below: For Incinerator: Minimum stack height sha ground. For Boilers: Stack Height H=14(Q)0.3 Details of stack results along with its height of (Pl. see pg. no. 18) Gaseous emissions from proregularly on monthly basis. During the report period no case varies from some properties of adequate height as per CPCB standards given below: For Incinerator: Minimum stack height sha ground. For Boilers: Stack Height H=14(Q)0.3 Details of stack results along with its height of Pl. see pg. no. 18) Gaseous emissions from properties from properties from stack in the propertie					eight da om proc from sta	data is given in Table 2 . ocess units are monitored standard. g dispersed through stack ven below:		
		H = h+0.2x√KVA H =Total height h =Height of the KVA = Total ger However, DG se	of stack buildir erator o	ng in meto capacity o	ers wher of the se	t in KVA	1		
	Acoustic enclosures shall be provided to the DG set to control the noise pollution.	All DG sets are pollution and m					res to co	ontrol th	e noise
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 conditions included it http://www.atu.Report.pdf	iding res	sults of m can	onitored b	l data is e	posted oview	on our w red	eb site. at:
	Status of compliance of stipulated environmental clearance conditions to be sent to Regional office of MoEF, the	Compliance state conditions are n							

respective Zonal office of CPCB and the state pollution control board.

office of CPCB and state pollution control board.

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

Complied.

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

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. 18,22,23)

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 May 18 –Oct 18				
		per CCA		Min.	Max.	Avg.		
1	SO_2	40	mg/Nm³	3.8	19.3	9.7		
2	SO ₂ (kg/T)	2	kg/T	0.3	1.1	0.69		
3	NOx	25	mg/Nm ³	4.8	12.5	8.7		
4	HC1	20	mg/Nm³	3.9	10.2	6.0		
5	PM	150	mg/Nm³	7.2	54	29.8		
6	PM with Pesticide compound	20	mg/Nm³	4.3	10	6.9		

Summary of Flue Stack results:

No.	Parameter	Standard values as	Unit	Values for 18 –Oct	-	riod May-
		per CCA		Min.	Max.	Avg.
1	PM	100	mg/Nm³	40	65	53
2	PM (New Boiler)	50	mg/Nm³	24	39	31
3	SO_2	600	mg/Nm³	39	112	83
4	NOx	600	mg/Nm³	27	121	76
5	NOx (NewBoiler)	300	mg/Nm³	69	92	78

Summary of Ambient Air Quality results:

Station		Parameter	Limit microgm /NM ³	Values for the period May 18- Oct 18			
			/ 11112	Min.	Max.	Avg.	
66 KV		RSPM (PM2.5)	60	19	34	28.3	
		PM10	100	31.4	56.1	41.2	
		SO2	80	7.1	9.2	8.1	
		NOx	80	6.5	10.1	8.5	
		Ammonia	850	0	10.2	6.2	
		HC1	200	0	0	0	
Opposite D	Shed	RSPM (PM2.5)	60	9	37	27.2	
ע		PM10	100	25	58	39.5	
		SO2	80	6.5	10.2	8.5	

	NO		160		T 0 0
-	NOx	80	6.9	9.8	8.2
-	Ammonia HCl	850 200	0	16.4	5.5
Near West site ETP	RSPM (PM2.5)	60	8	36	27.3
_	PM10	100	22	52	37.0
	SO2	80	5.5	9.8	8.2
	NOx	80	7.2	10.1	8.5
	Ammonia	850	0	0	0
	HC1	200	0	0	0
Near North ETP	RSPM (PM2.5)	60	10	37	26.3
_	PM10	100	26	54	37.5
	SO2	80	7.2	10.2	9.1
	NOx	80	5.8	9.5	7.9
	Ammonia	850	0	12.8	4.3
	HC1	200	0	0	0
TSDF	RSPM (PM2.5)	60	9	35	27.0
S P	PM10	100	24	56	37.3
	SO2	80	6.8	9.8	8.7
	NOx	80	7.8	10.2	8.9
	Ammonia	850	0	0	0
	HC1	200	0	0	0
Main Guest	RSPM (PM2.5)	60	21	31	26.5
House	PM10	100	31	42	36.2
_	SO2	80	6.2	9.5	8.1
-	NOx	80	5.7	13.2	10.0
-	Ammonia	850	0	0	0
-	HC1	200	0	0	0
Wyeth Colony	RSPM (PM2.5)	60	12	33	26.2
-	PM10	100	25	50	36.5
-	SO2	80	4.4	9.7	7.3
-	NOx	80	7.5	11.6	9.6
-	Ammonia	850	0	0	0
-	HC1	200	0	0	0
Gram	RSPM (PM2.5)	60	10	34	27.5
panchayat hall	PM10				
		100	22	51	38.0
	SO2	80	3.5	9.3	7.5
	NOx	80	6.5	12.8	10.1
	Ammonia	850	0	0	0
	HC1	200	0	0	0
Main office, North site	RSPM (PM2.5)	60	22	31	26.5
P.	PM10	100	33	52	39.8
	SO2	80	7.1	9.2	8.5
					110
	NOx Ammonia	80 850	6.4	13.1	11.0

٦			HC1	200	0	0	0
	Haria tank	water	RSPM (PM2.5)	60	16	35	28.0
	tank		PM10	100	33.2	51.8	42.5
			SO2	80	7.2	71	18.4
			NOx	80	6.8	8.6	7.9
			Ammonia	850	0	0	0
			HC1	200	0	0	0

Summary of VOC results:

Plant	Area	Parameter	Prescribed Limit	Values of VOCs in Milligram per NM ³ for the period May- 18 –Oct 18			
				Min.	Max.	Avg.	
2,4 D	Reactor	Phenol	19	15.2	7.8	11.9	
	Buffer tank	Chlorine	3	1.8	0.8	1.4	
Resorcinol	Benzene storage tank area near vent	Benzene	15	8.2	3.8	5.9	
	Near Extraction/s crubber unit	Butyl acetate	-	4.2	1.4	2.5	
Pharma	At second floor work area	Ammonia	18	13.7	8.1	10.4	
	Ammonia recovery area	Ammonia	18	16.6	6.6	10.7	
Epoxy - I	At vacuum pump 2nd floor	ECH	10	3.4	1.2	2.3	
	At vessel POS 1208 G.F	ECH	10	7.8	5.2	6.3	
Shed H	At second floor work area	Nitrobenzene	5	2.3	0.4	1.4	
Shed J	Buffer Tank	Chlorine	3	2.5	0.6	1.0	

The company shall adopt cleaner production technology to minimize the quantity of fresh water requirement and process effluent generation.

iv

Complied.

Company is fully devoted towards protection of environment and has successfully completed many cleaner production projects and will continuously improve further.

We have already converted few of our plants as ZLD and are in process of converting many other plants as ZLD. Our Ankleshwar unit is completely ZLD 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.

Cooling tower blow down water is used as fire hydrant make up and also used for dust suppression and fly ash quenching instead of fresh water.

Water used for washing purpose is reused.

Details of water consumption break up is given below:

		Details of v	rater consu	mntion			
			sumption Bre				
		Period		sumption in		Total	
			Process	Cooling	Domestic		
		May-18	263918	61705	17140	342763	
		Jun-18	245113	58392	15890	319395	
		Jul-18	250687	58590	16182	325459	
		Aug-18	241529	57628	15429	314586	
		Sep-18	197741	48508	12118	258367	
		Oct-18	197415	46204	12506	256125	
v	The company shall 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 G notification no. GPCB/HAZ/GEN-55/9647 dated 13th March 2000 NOC no. CTE-65621 dated 19/11/2014. Also we have was authorization under our current CCA No. AWH-67717 for hand storage and disposal of hazardous waste. Copy of the same was submitted to Ministry vide our leader. Atul/SHE/MoEF/Visit/3 dated 4.4.17. Company is having two nos. of fire tenders, fully adequate hyd system and trained staff, emergency response team(ERT) of traworkers, power supply from two source with emergency backup poprovision from DG set as well grid and detailed on-site emergency provision.					
	The concerned company shall undertake measures for the firefighting facility in case of emergency.						
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.	We are complying with all the requirement of MSIHC rule amended in October, 1994 and January, 2000 and having storage and handling system, Onsite emergency plan, I reporting, etc.					
	All Transportation of Hazardous chemicals shall be as per the MVA, 1989.	_					
vii	The company shall undertake waste minimization measures: Metering and control of quantities of active ingredients to minimize waste.					the stoichiometry. All these	

	Reuse of by products from the process as raw materials or as raw material substitutes in other processes. Use of automated filling to minimize spillage. Use of 'close feed' system into	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. Complied. Automated filling system for our agro products, polymers, resorcinol, dyes for small and bulk packing is provided to minimize spillage. Complied.
	Venting equipment through vapor recovery system.	Chemicals and solvents are handled in close handling system through pipe lines only. Complied. All the reactors are equipped with vents/stacks, which are connected to either water recovery system consisting of condensers, circum/yearung.
	Hea of high processes become	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. Complied.
	Use of high pressure hoses for equipment cleaning to reduce wastewater generation.	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 I.	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.23). 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. The project authority shall	Complied. All the VOCs/solvent recovery systems are attached with chilled brine solution in secondary condenser for condensation of VOCs. Complied.
	ensure that solvent recovery shall not be less than 95%	On an average solvent recovery is 96%.
	The VOC monitoring shall be carried in the solvent storage area and data submitted to the Ministry.	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.
•	Solvent management shall be	Data for the report period is given in Table 4. (Pl. see pg. no.23) Complied .
ж	Solvent management shall be as follows: Reactor shall be connected to chilled brine condenser system.	All the reactors handling solvent are connected/attached with chilled brine condenser for solvent recovery.
	Reactor and solvent handling pump shall have mechanical	Complied . All the reactors and pumps handling solvent are equipped with
	seals to prevent leakages. The condensers shall be	mechanical seals to prevent leakages. Complied.
	provided with sufficient HTA	The condensers provided are properly designed with respect to HTA and

1	and residence time so as to			than 95 % recovery. As mentioned			
	achieve more than 95%	above, av	verage 96 % solvent recove	ry is being achieved.			
	recovery.		_				
	Solvents shall be stored in a	Complie					
	separate space specified with			ns in separate tanks with proper			
	all safety measures.	earthing, flame arresters, lightening arresters, fencing, Fire hydra system, Fire extinguishers, flame proof equipment, etc. safety measur					
		system, l	fire extinguishers, flame pr	oof equipment, etc. safety measures.			
	Proper earthing shall be	Complie	d.				
	provided in all the electrical			regular checking and testing of the			
	equipment wherever solvent		peing done and recorded.				
	handling is done.		8				
	Entire plant shall be flame	Complie	Complied.				
	proof.			s, flame proof electrical fittings and			
	F			ous area classification of PESO.			
	/N11						
	The solvent storage tanks shall	Complie		1, 11,1 1 , , , 1 ,			
	be provided with breather valve			d to all the solvent storage tanks to			
	to prevent loses.	minimize	the loses.				
хi	Hazardous chemicals shall be	Complie	d.				
	stored in tanks in tank farms,	Hazardo	as chemicals are being st	cored in tanks, drums and carboys			
	drums, carboys etc.	consider	ing the storage quantity ar	nd chemical stored.			
	Company shall develop an area	Complie	d				
	of 33% green belt and selection			It and dense plantation inside and			
	of plant species shall be as per			3 % of total land. Company is having			
	the guideline of CPCB.						
	the guidenne of CFCB.	green belt development plan and planting more than about 50000 plants per year on regular basis. Green belt map is attached herewith.					
		plants po	r year on regular basis. G	reen ben map is attached herewith.			
xii	The company shall harvest	Complie	d.				
AII	surface as well as rain water	Compile	u .				
	from the roof tops of the	Compon	, has expanded its harm	esting pond capacity to 9000 KL			
	building and storm water drain						
	to recharge the ground water	capacity	pond to harvest rain water				
	and use the same water for the	We ere e	reating facility/ conscity	to optor our consumption with roin			
	various activities of the project			to cater our consumption with rain awls of water during the rainy days.			
	to conserve fresh water.			dams and pumping facility to harvest			
		rain wate		tains and pumping lacinty to harvest			
		lan wan					
		We also	construct temporary sand	bag dam on top of dam towards the			
				free flowing rain water in river Par.			
				f water and roof top water is used to			
			bore wells.	water and reer top water is about to			
	01 1141						
xiii	Occupational health surveillance of the workers	Complie	a.				
		0		41			
	shall be done on a regular basis and records maintained as per			the workers is being done on regular er the factory act which is shown in			
	the Factories Act.	below tal	-	er the factory act which is shown in			
	the Factories Act.	_					
ì		Sr No	Month of Evamination	Total No. of Employees			
		Sr. No.	Month of Examination	Total No. of Employees			
		Sr. No.	Month of Examination Quarter 1	Total No. of Employees			
		1	Quarter 1	1312			
R Cor	neral Conditions:	1	Quarter 1	1312			
	neral Conditions:	1 2	Quarter 1 Quarter 2	1312			
B. Ger	The project authorities shall	1	Quarter 1 Quarter 2	1312			
	The project authorities shall strictly adhere to the	1 2 Complie	Quarter 1 Quarter 2 d.	1312 865			
	The project authorities shall strictly adhere to the stipulations made by the State	1 2 Complie The com	Quarter 1 Quarter 2 d. pany adheres to the com	1312 865 pliances and has not exceeded the			
	The project authorities shall strictly adhere to the	Complie The comstipulation	Quarter 1 Quarter 2 d. pany adheres to the compon. This has been certified	pliances and has not exceeded the by our Environmental auditors, an			
	The project authorities shall strictly adhere to the stipulations made by the State	Complie The comstipulation authorized	Quarter 1 Quarter 2 d. pany adheres to the compon. This has been certified agency and nominated	1312 865 pliances and has not exceeded the			
	The project authorities shall strictly adhere to the stipulations made by the State	Complie The comstipulation	Quarter 1 Quarter 2 d. pany adheres to the compon. This has been certified agency and nominated	pliances and has not exceeded the by our Environmental auditors, an			
	The project authorities shall strictly adhere to the stipulations made by the State	Complie The comstipulation authorized audit even	Quarter 1 Quarter 2 d. pany adheres to the compon. This has been certified agency and nominated ary year.	pliances and has not exceeded the by our Environmental auditors, an by GPCB; through Environmental			
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	The project authorities shall strictly adhere to the stipulations made by the State	Complie The comstipulation authorized audit every Latest configuration.	Quarter 1 Quarter 2 d. pany adheres to the compon. This has been certified ed agency and nominated erry year. compliance report by GPCI of Engineering Technology	pliances and has not exceeded the by our Environmental auditors, an by GPCB; through Environmental			
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concentration are anticipated. List of our ambient air monitoring station is given below: No. Location			our factory.					
No. Location								
		concentration are anticipated.						
1 66 KVA GEB substation								
			1 66 KVA GEB substation					

		2 Opposite Shed D				
		3 Near ETP (West Site)				
		4 ETP Plat (North site)				
		5 Near TSDF				
		6 Near Main Guest House				
		7 At Wyeth Colony				
		8 Gram panchayat hall				
		9 Near Main office, North site				
		10 Water tank at Haria Road				
		Details of ambient air quality results is given in Table 3 . (Pl. see pg. no.				
		22)				
vi	Dedicated Scrubbers and stacks	Complied.				
	of appropriate height as per the					
	central pollution control board	Dedicated Scrubbers with stacks of appropriate height (as per the				
	guideline shall be provided to	central pollution control board guideline) have been provided to control				
	control the emission from	the emission from various vents. Details of stack results along with its				
	various vents.	height data is given in Table 2 . (Pl. see pg. no. 18)				
	The scrubber water shall be	Complied.				
	sent to ETP for further	Compiled.				
	treatment or sell to actual end	The scrubber water is being sent to ETP for further treatment.				
		The scrubber water is being sent to ETP for further treatment.				
vii	The overall noise level in and	Complied.				
VII		Compnea.				
	around the plant area shall be	To besit Acceptic and come allower and insertation are massided as all				
	kept well within the standard	In built Acoustic enclosure, silencer and insulation are provided on all				
	by providing noise control	source of noise generation to keep over all noise level within the				
	measures including acoustic	stipulated standards like turbine, DG set, etc.				
	hoods silencers, enclosures etc.					
	on all source of noise					
	generation.					

The ambient noise level shall confirm to the standards prescribed under Environment(Protection) Act-1986 Rules,1989 viz 75 dBA (day time) and 70 dBA (night time)

Complied.

The ambient noise level confirm to the standard prescribed under EPA. The same is being regularly monitored and its details are given in **Table 5 and 6**. (Pl. see pg. no. 24)

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

Noise level monitoring data (Day Time)

Sr. No.	Location	Permissible Limits, dBA	Values for the period May 18- Oct 18		
		75	Min.	Max.	Avg.
1	Near Main guest house	75	60.8	67.4	64.8
2	Near TSDF	75	62.5	67.2	64.2
3	At Wyeth Colony	75	59.8	65.5	62.6
4	Gram Panchayat Hall	75	60.3	68.4	62.2
5	Near Main Office North site	75	61.3	65.4	63.6
6	ETP North site	75	62.4	66.8	64.5
7	Opposite shed D	75	63.1	68.2	65.7
8	ETP West site	75	62.4	65.7	64.3
9	Water tank Haria road	75	60.8	64.3	62.9
10	Near 66KVA substation	75	61.6	64.9	63.4

Noise level monitoring data (Night Time)

Sr. No.	Location	Permissible Limits, dBA	Values for the period May 18- Oct 18		
		70	Min.	Max.	Avg.
1	Near Main guest house	70	49.3	58.6	54.0
2	Near TSDF	70	52.6	61.1	55.9
3	At Wyeth Colony	70	48.2	53.7	51.3
4	Gram Panchayat Hall	70	51.3	53.3	52.2
5	Near Main Office North site	70	54.2	56.8	55.5
6	ETP North site	70	50.3	54.7	52.6
7	Opposite shed D	70	52.7	56.5	54.0
8	ETP West site	70	52.2	55.2	53.9
9	Water tank Haria road	70	47.2	54.4	50.4
10	Near 66KVA substation	70	48.5	52.7	50.6

viii

Training shall be imparted to all employees on safety and health aspects of chemicals handling.

Complied.

Company is imparting training to all new employees as well as regular 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.

Pre-employment and routine periodical medical examination for all employees shall be undertaken on regular basis.

Complied.

Pre medical checkup and routine medical checkup for the employees is being done on regular basis (Six monthly). Data are submitted in below table :

		Sr. No	. Month of Examination	Total No. of Employees				
		1	Quarter 1	1312				
		2	Quarter 2	865				
ix	Usage of PPE's by employee/	Compl						
	workers shall be ensured.	00111						
			ny have PPE policy in pla ng adequate PPEs to all tl	ace and is strictly followed. Company is he employees.				
x	The project proponent shall	Compl	Complied.					
	also comply with all the	0		41				
	environmental protection measures and safeguards			the environmental protection measures report apart from the recommendations				
	proposed in project report		heir in.	report apart from the recommendations				
	submitted to the ministry.	made (aron m.					
	All the recommendation made	Since	ToR didn't suggest for	r EIA or public hearing, no such				
	in respect of environmental			lowever, we are committed for healthy				
	management and risk	work e	nvironment and safe work	r practices.				
	mitigation measures relating to the project shall be	TT	01:					
	the project shall be implemented.		acy report for the referred	recommendation made in respect of				
	implemented.	No.	Recommendation	Compliance				
		1		Complied. However, We have been				
			be refurbished.	segregating high COD streams (COD				
				>50000 ppm) and same is being taken for recovery to get economic benefit. Rest				
				lean effluent of COD <2000 ppm is finally				
				sent to ETP for treatment. Hence no				
				incineration required for high COD wastewater.				
		2	Online pH and DO	Complied. Online pH and DO monitoring				
			measuring arrangement	available.				
			in aeration tank	9 11 1 0 PMP 11 1 5				
		3	ETP lab should be equipped with auto	Complied. Our ETP lab has 5 nos. of auto samplers for various stages sample				
			sampler, auto titrator,	collections. The lab also have COD				
			COD digester etc.	digesters.				
		4	Explore possibility of more efficient mode of	Complied. We have replaced our surface aerators with more efficient jet aerators.				
			aeration	aerators with more emclent jet aerators.				
		5	Company shall initiate	Complied. Company has recently				
			rain water harvesting	constructed 6000 KL capacity pond to				
			projects	harvest rain water, which is the almost 75% of our per day requirement.				
		6	Change fuel (CNG) in	Complied. We use CNG at our				
			Incinerator	incinerator.				
			Auto pH control system at	Complied. Auto pH control system installed and being working at new				
			new Incinerator plant.	Installed and being working at new Incinerator plant.				
		(ref: co	omprehensive study repo	rt by Atmiya Institute of Technology,				
		Rajkot		Σ ω				

хi	The company will undertake all	Comp	olied.			
	relevant measures for improving the socio economic condition for the surrounding area, CSR activities will be undertaken by involving local villages and administration:	Fund area a	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 Apr-Nov 18 is given below table :			
		No.	CSR activities during 1	8-19 (till Nov 2018)		
		1	Enhancement of educati	on practices in Kalyani Shala		
		2	teachers (Adhyapika)	men to become skilled elementary s	school	
		3		ootan Kelavani Mandal, Valsad		
		4	4 Provision of immediate relief to victims of floods in Kerala			
		5	5 Skill development (Atul Institute of Vocational Excellence) Ozarpada, Valsad			
		6	villages,Valsad	through construction of toilets in 2		
		7	Valsad	tives Health Camps in nearby villa		
		8	_	life skills to blind people, Trivandr		
		9	9 Up gradation of medical equipment in hospital at Laxmipura, Sabarkantha			
		10	Up liftmen of Life of Salt	Pan Workers Kharaghoda, Surenda	ranagar	
		below Bu	The summary of expense occurred in CSR activities for last year is listed below: Budget for Financial year Actual Expense during Apr- 18-19 (Rs. in lakhs) Nov 18 (Rs. in lakhs) 800.00 329.61			
xii	The company shall undertake	Comp	olied as mentioned in x	i above.		
	eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.					
xiii	A Separate environmental management cell equipped	Comp	olied.			
	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. Organogram of Environment Health & Safety was already submitted vide our letter Atul/SHE/EC Compliance/06 dated 12.7.17. Company has developed a separate laboratory equipped with equipment such as pH meter, TDS meter, COD meter, Glass ware, gas chromatography system, and oven, muffle furnace, etc. to carry out testing of routine parameters. However sampling and testing is carried out by GPCB approved and company appointed consultant also. Currently the parameters measured in-house are pH, COD, TDS, MLVSS, and MLSS.				
		14117 4 (2)	o, and wildo.			

xiv	The project authorities shall	Complied.		
	earmark adequate funds to implement the conditions		re implemented by 2010 and	many things have already
	stipulated by the Ministry of	been at place.	4 D 500	
	Environment and Forest as well as the State Government along	Non recurring c	ost: Rs. 5.0 Cr : A separate budget is being	r allocated every vear to
	with the implementation		the legal requirement stipu	
	schedule for all the conditions	MoEF apart from	n upkeep of pollution contro	ol systems and facilities.
	stipulated herein. The funds so		e for the report period is given	n in below table.
	provided shall not be diverted for any other purposes.	Expenditure for months	Particular	Expenses Rs.
	for any other purposes.	101 months	Fuel	2828087
		May-18-Oct 18	Chemicals(Raw Material)	84873715
		Including,	Electricity	27638619
		recurring maintenance,	Waste disposal	22312742
		modifications and	Salary	14195816
		monitoring.	Maintenance & modifications	27210467
			Monitoring	4119476
			Total	183178922
xv	A copy of the clearance letter shall be sent by the proponent	Complied.	on to the Panchayat, Zila par	righed District Industrial
	to concerned Panchayat, Zila		ibuted on 11.11.2016. Copy o	
	parishad/Municipal		our letter Atul/SHE/MoEF/V	
	Corporation. Urban local body		, ,	,
	and the local NGO, if any, from			
	who			
	suggestions/representation, if any, were received while			
	processing the proposal.			
	The clearance letter shall also	Complied.		
	be put on the web site of the		_	
	company by the proponent.	Available	at company's .co.in/sustainability/pdf/Atu	website at
			pansion-2009.pdf	u-Environmentar-
xvi	The implementation of the	Complied.		
22.4.2	project vis-à-vis environmental	Compiles.		
	action plan shall be monitored	SPCB and MoEF	is monitoring through their i	egular visits.
	by Ministry's Regional office at			
xvii	Bhopal / SPCB / CPCB.	Complied.		
XVII	The Project Proponent shall inform the public that the	Complied.		
	project has been accorded	We informed the	public through advertisemen	nt and by sending our EC
	environmental clearance by the		at, Zila parishad, District Ind	lustrial Centre for further
	Ministry and copies of the	actions at their e	end.	
	clearance letter are available with the SPCB/Committee and			
	may also be seen at website of			
	the Ministry of Environment			
	and Forest at			
	http://www.envfor.ni.in.			
	This shall be advertised within	Complied.		
	seven days from the date of issue of the clearance letter at	Advertisement w	as published as directed an	d copy of the same was
	or the orderance retter at		nistry vide our letter dated 14	
1	least in two local newspaper	Submitted to Min	nsny viae our lener daied 14	.11.2009.
I	least in two local newspaper that are widely circulated in	submitted to win	iistry vide our letter dated 14	.11.2009.
	that are widely circulated in the region of which one shall be	Submitted to Will	nsity vide our letter dated 14	.11.2009.
	that are widely circulated in the region of which one shall be in the vernacular language of	Submitted to win	nstry vide our letter dated 14	.11.2009.
	that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a	submitted to Min	nsity vide our letter dated 14	.11.2009.
	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	submitted to Min	nstry vide our letter dated 14	.11.2009.
	that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a	submitted to Min	nsity vide our letter dated 14	.11.2009.

xviii	The project authorities shall	Complied.
	inform the Regional Office as well as the Ministry, the date of financial closures and final approval of the project by the concerned authorities and the date of start of the project.	Start date : May 2009 Completion date: May 2010 Final approval: We have obtained NOC and CCA from GPCB. Company has funded the project internally and hence not submitted the financial closure details.
8	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
9	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted and will be complied.
10	Any appeal against 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.	Noted.
11	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, Handling and Transboundry movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

Table 1 : Quality of treated effluent

Sr. No.									
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18		
1	рН	7.2	7.5	7.2	7.1	7	6.92	5.5 to 9.0	
2	Temperature °C	31	30	29	28	29	29.8	40 °C	
3	Colour (pt. co. scale)in units	48	35	37	20	25	35		
4	Suspended solids, mg/l	62	55	46	44	32	24	100	
5	Phenolic Compounds, mg/l	0.8	0.5	0.7	2	0.7	0.4	5	
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2	
7	Fluorides, mg/l	ND	ND	ND	ND	ND	ND	2	
8	Sulphides, mg/l	0.2	0.3	0.2	0.1	0.2	0.1	2	
9	Ammonical Nitrogen, mg/l	26.8	42	44	36	42	36	50	
10	Total Chromium, mg/l	0.01	0.02	0.01	0.01	0.01	ND	2	
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1	
12	BOD (3 days at 27°C), mg/l	42	38	42	38	42	38	100	
13	COD, mg/l	232	220	232	212	222	190	250	
Note	: ND is Not Detectable.		I					I	

Details of Process and Flue stack

Detai	ls of Process and Flue stack														
Sr. No.	Stack Details	Paramenter	Permissible Limits	Date of Sampling	Obtained Value	Date of Sampling	Obtained Value								
Atul l	East Site														
1	Phosgene Plant (Old Plant)	Phosgene	0.1 ppm	-	Not in use	-	Not in use								
Caust	ic Chlorine Plant	I													
2	Dechlorination Plant	Cl ₂	9.0 mg/Nm3	10.5.18	4.7	13.6.18	3.9	5.7.18	3.2	9.8.18	2.9	6.9.18	3.1	6.10.18	2.6
		HCI	20.0 mg/Nm3	-	3.9		5.2		5.5	5.0.10	4.8		4.2		4.3
3	Common stack of HCl Sigri unit	Cl ₂	9.0 mg/Nm3	-	5.1		4.8		4.2	17.8.18	5.1	6.9.18	4.8	6.10.18	3.8
	18-2	HCI	20.0 mg/Nm3	-	4.3		6.3		5.8		5.3		6.2		4.7
FCB I	Palnt	I	1												
4	Foul Gas Scubber	SO_2	40.0 mg/Nm3		Not in use		Not in use								
		NOx	25.0 mg/Nm3	-											
Sulfu	ric Acid (East Site)														
5	Sulfuric Acid Plant	SO ₂	2.0 kg/T		Not Runnig	27.6.18	0.7	5.7.18	0.5	18.8.18	0.4	7.9.18	0.3	6.10.18	0.7
		Acid Mist	50.0 mg/Nm3		During Visit		7.8		6.2		5.7		4.9		5.3
6	ChloroSulfonic Acid plant	Cl ₂	9.0 mg/Nm3	10.5.18	5.2		4.9		3.2	18.8.18	4.1		5.2		4.8
	reactor	HCI	20.0 mg/Nm3	-	7.1		8.3		5.5		5.1		4.8		6.7
Incin	erator														
7	Incinerator	PM	150.0 mg/Nm3	11.5.18	53	13.6.18	49	5.7.18	44	9.8.18	47	8.9.18	51	27.10.18	54
		SO ₂	40.0 mg/Nm3		11.2		12.3		16.5		17.3		14.3		19.3
		NOx	25.0 mg/Nm3	-	7.1		9.6		12.4		11.6		12.5		12.1
NI Pla	nt .														
8	Foul Gas Scubber	SO_2	40.0 mg/Nm3	11.5.18	9.3	13.6.18	10.2		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		NOx	25.0 mg/Nm3		4.8		5.3		During Visit		During Visit		During Visit		During Visit
NBD I	Plant .	I	1												
9	Spray Dryer	PM	150.0 mg/Nm3		Not Runnig During Visit		Not in use								
2-4-D	Plant														
10	Common Scrubber; 2,4D Plant	Cl ₂	9.0 mg/Nm3	11.5.18	5.1	6.6.18	6.8	6.7.18	5.5	9.8.18	4.9	13.9.18	5.1	9.10.18	4.9
		HCI	20.0 mg/Nm3		6.1		7.2		7	1	6.7	1	6		5.4
		Phenol			ND		ND								
11	Dryer-1	PM with Pesticide compound	20.0 mg/Nm3	10.5.18	8.7	6.6.18	8.7	6.7.18	5.8	9.8.18	4.7	14.9.18	5.2	10.10.18	6.2
12	Dryer-2	PM with Pesticide compound	20.0 mg/Nm3		9.1		6.5		7.0		6.5		4.6		4.3
13	Dryer-3	PM with Pesticide compound	20.0 mg/Nm3		10		9.2		8.0		7.4		6.8		5.2
14	Dryer-4	PM with Pesticide compound	20.0 mg/Nm3		8.4		7.4		6.0		6.3		6.2		6.4
														Page 18 of	24

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Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value										
No.			Limits	Sampling											
CP Pl	nnt .											1			
15	MCPA	Cl ₂	lo (222.63		Not Runnig										
13	MCI A	HCl	9 mg/NM ³	_	During Visit		During Visit								
		SO ₂	20 mg/NM ³						J						
		-	40 mg/NM ³												
16	Fipronil	SO ₂	40 mg/NM ³		Not Runnig During Visit										
17	Imidacloprid	HCl NH ₃	20 mg/Nm3 175 mg/Nm3		Not Runnig										
11	imidacioprid	NH ₃	175 IIIg/NIII5		During Visit										
18	Pyrathroids	SO ₂	40 mg/Nm3		Not Runnig		Not Runnig		Not Runnig		1		Not Runnig		Not Runnig
		HC1	20 mg/Nm3		During Visit		During Visit		During Visit				During Visit		During Visit
19	Stack at Amine Plant	NH ₃	175 mg/Nm3	11.5.18	9.6	13.6.18	8.4	7.7.18	6.0	2.8.18	5.4	7.9.18	4.9	8.10.18	7.4
MPSL	Plant														
20	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm		Not Runnig		Not Runnig	26.7.18	ND	3.8.18	ND	20.9.18	ND	5.10.18	ND
21	Central Scrubber at MPSL	Phosgene	0.1 ppm		During Visit		Not Runnig		ND				ND	5.10.18	ND
****	Ļ						During Visit			3.8.18	ND				
	plant														
22	Central scrubber at Nico Plant	Acetonytryle, IPA		-	-	-	-	-	-	-	-	-	-	-	-
	Plant														
23	Scrubber at Ester plant for	Formaldehyde	10 mg/Nm3		Not Runnig										
	Glyphosate				During Visit										
24	Central Scrubber MCPA Plant	HC1	20 mg/Nm3		Not Runnig										
25	MPP plant scrubber	HC1	20 mg/Nm3		During Visit Not Runnig		During Visit Not Runnig		During Visit Not Runnig		During Visit		During Visit Not Runnig		During Visit Not Runnig
25	MFF plant scrubber				During Visit		During Visit		During Visit		Not Runnig		During Visit		During Visit
		Phosgene	0.1 ppm		8						During Visit		8		
	Vest Site														
26	Shed A05/03/44	CI ₂	9 mg/NM ³		Not Runnig During Visit		Not Runnig During Visit	12.7.18	2.5	3.8.18	2.9	13.9.18	3.1	7.10.18	3.9
		HCI	20 mg/NM ³						4.5		5.1		6.2		4.3
27	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	3.5.18	10.8	7.6.18	4.8	12.7.18	4.2	9.8.18	5.1	13.918		7.10.18	4.6
		HCI	20.0 mg/Nm3		4.1		7.3		6.5		4.9				5.8
28	Shed B18/02/24 Fan	SO ₂	40 mg/NM ³	3.5.18	5.6	7.6.18	10.6	12.7.18	6.3		Not Runnig During Visit		Not Runnig During Visit	10.10.18	3.8
		Cl ₂	9 mg/NM ³		4.2		1.2		1.5		During visit		During visit		5.1
		HCI	20 mg/NM ³		6.1		5.1		5.5						6.1
29	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	3.5.18	5	14.6.18	4.3	12.7.18	4.1	3.8.18	5.3	8.9.18	6.3	10.1018	3.7
		HCI	20.0 mg/Nm3		7.2		5.1		5.5		7.2		8.6		5.9
30	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	4.5.18	10.8	14.6.18	9.8	12.7.18	7.2	11.8.18	8.4	27.9.18	7.8	8.10.18	9.2
31	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	4.5.18	11.2	14.6.18	13.6	12.7.18	14.3	11.8.18	13.8	27.9.18	Not Runnig	8.10.18	8.5
32	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/Nm3	3.5.18	8.6	14.6.18	10.4	12.7.18	12.5	11.8.18	12.3	1	During Visit		not running
33	Shed F F6/1/15 Reaction	Cl ₂	9.0 mg/Nm3	4.5.18	3.9	14.6.18	4.2	12.7.18	3.2			8.9.18	3.4	7.10.18	6.3
	Vessel	HCI	20.0 mg/Nm3		4.8		5.1		4.4	3.8.18	4.6		6.3		5.1
34	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3		Not Runnig	8.6.18	3.3		Not Runnig		Not Runnig	14.9.18	Not Runnig		Not Runnig
0.7	Siled G 10/8/1 (receiver)			_	During Visit	0.0.10			During Visit		During Visit	14.5.10	During Visit		During Visit
		HCI	20.0 mg/Nm3				6.2								
35	Shed H 11/6/17 chlorinator	Cl ₂	9.0 mg/Nm3	4.5.18	5.7	8.6.18	6.3	7.7.18	4.2	17.8.18	3.9	14.9.18	4.9	8.10.18	4.6
		HCI	20.0 mg/Nm3		6.9		8.6		7.3		6.1		7.2		4.9
36	Shed K K-13/3/4 Final of	SO ₂	2.0 kg/T	4.5.18	1	8.6.18	1.1	7.7.18	1	9.8.18	0.8	14.9.18	0.9	9.10.18	0.9
	Sulfuric acid plant	Acid Mist	50.0 mg/Nm3		12.3	1	10.2		12.4		11.2		13.6]	12.2
37	Shed J15/09/25	HBr			Not Runnig		Not Runnig		Not Runnig		Not Runnig	•	Not Runnig	8.10.18	
		SO ₂	40 mg/NM ³		During Visit		During Visit	1	During Visit		During Visit		During Visit		6.3

Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value	Date of	Obtained Value	Date of	Obtained Value	Da+K81:K9	Obtained Value	Date of	Obtained Value	Date of	Obtained Value
No.	Stack Betano	- urumenter	Limits	Sampling	Obtained value	Sampling	Obtained Value	Sampling	Obtained value	6te of	Obtained value	Sampling	obtained varie	Sampling	obtained variae
38	Shed J12/01/42	SO ₂	40 mg/NM ³	17.5.18	13.6	16.6.18	12.5	7.7.18	7.5	10.8.18	6.5	7.9.18	5.8	8.10.18	4.8
		CI ₂	9.0 mg/Nm3		8.8		7.9		3.5		4.1		5.3		5.1
		HC1	20.0 mg/Nm3		5.1		6.4		6.5		5.8		6.7		4.7
39	Shed J12/03/36	SO_2	40 mg/NM ³		Not Runnig	16.6.18	10.6	7.7.18	10.5	10.8.18	9.4	7.9.18	10.2	8.10.18	9.3
		HC1	20.0 mg/Nm3		During Visit		5.4		5.5		4.8		5.7		6.2
40	Shed N Scrubber Fan N20/08/24	CI ₂	9 mg/NM ³	17.5.18	4.9	8.6.18	3.7	7.7.18	4.1	10.8.18	5.2	7.9.18	4.9	8.10.18	3.7
		HC1	20 mg/NM ³		8.6		7.5		8.4		9.1		10.2		9.5
41	Shed N Scrubber Fan N20/02/41	SO ₂	40 mg/NM ³	17.5.18	11.2	8.6.18	10.4	7.7.18	5.4	10.8.18	7.2	7.9.18	8.3	8.10.18	8.2
42	Sulfer Black Plant	H ₂ S		17.5.18	ND	16.6.18	ND	12.7.18	ND	18.8.18	ND	27.9.18	ND	26.10.18	ND
		NH ₃	175 mg/NM ³		17.6		19.8		12.5		14.2		15.2		16.2
43	Sulfer Dyes plant	H ₂ S		18.5.18	ND		Not Runnig During Visit	12.7.18	Not Runnig During Visit	18.8.18	ND	27.9.18	ND	26.10.18	ND
		NH ₃	175 mg/NM ³		13.2				16.7		15.4		16.3		15.1
Atul I	orth Site														
44	N-FDH Plant Catalytic	PM	150.0 mg/Nm3	18.5.18	49	21.6.18	53	13.7.18	50	17.8.18	43		not running in	27.10.18	54
	Incinerator	SO ₂	40.0 mg/Nm3		13.1		14.2		12.7		10.8		this month		14.8
		NOx	25.0 mg/Nm3		9.5		10.8		10.5		9.5				10.2
		Formaldehyde	10.0 mg/Nm3		ND		ND		ND		ND				N.D
45	PHIN Plant vessel	Phosgene	0.1 ppm	19.5.18	ND	29.6.18	ND	13.7.18	ND	17.8.18	ND	20.9.18	ND	25.10.18	ND
46	DCDPS Plant	SO ₃		18.5.18	3.9		Not Runnig During Visit		Not Runnig During Visit	17.8.18	ND	20.9.18	ND	25.10.18	ND
47	DDS Plant	NH ₃	175 Mg/Nm3	18.5.18	14.5					17.8.18	13.2		not running	25.10.18	14.2
48	SPIC II Plant	SO ₃		19.5.18	4.3		Not Runnig During Visit	13.7.18	ND	18.8.18	ND	20.9.18	ND	27.10.18	ND
49	SPIC I Plant	NH_3	175 mg/Nm3	19.5.18	11.1	30.6.18	14.8	13.7.18	13.3	18.8.18	12.4	20.9.18	14.8	25.10.18	12.1
50	SPIC IV Plant	NH_3	175 mg/NM ³	18.5.18	12.6	29.6.18	11.3	13.7.18	10.8	17.8.18	14.1		not running	25.10.18	15.6
		SO ₃			4.1		ND		4.8		5.2		in this month		7.2
51	Furnace (Phosgene plant-New)	PM	150 mg/NM ³	19.5.18	42	21.6.18	47	13.7.18	44	18.8.18	47	20.9.18	52	17.10.18	53
52	Reactor (Phosgene plant- New)	со		19.5.18	ND	21.6.18	ND	13.7.18	ND	18.8.18	ND	20.9.18	ND	17.10.18	ND
		Phosgene	0.1 ppm	1	ND	1	ND	1	ND		ND		ND		ND
_	·													Page 20 of	<u> </u>

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Sr.	Stack Details	Paramenter	Permissible	Date of	Obtained Value	Date of	Obtained Value	Date of	Date of	Date of	Obtained Value	Date of	Obtained Value	Date of	Obtained Value
No.	Stack Betails	raramenter	Limits	Sampling	Obtained value	Sampling	Obtained value	Sampling	Sampling	Sampling	Obtained value	Sampling	Obtained value	Sampling	Obtained value
East s	site		•												
1	FBC boiler El	PM	100 mg/Nm3	24.5.18	56	15.6.18	48	13.7.18	40	2.8.18	43	20.9.18	49	6.10.18	56
		SO_2	600 mg/Nm3		100	1	93	1	88		92		102	1	100
		NOx	600 mg/Nm3		119	1	102	1	95		101		112	1	112
2	FBC boiler E2	PM	100 mg/Nm3	24.5.18	59	22.6.18	53	13.7.18	55	2.8.18	51	21.9.18	53	6.10.18	53
		SO_2	600 mg/Nm3		97	1	101	1	95		98		100	1	89
		NOx	600 mg/Nm3		113	1	118	1	100		100		109	1	101
3	FBC boiler No.3	PM	100 mg/Nm3	24.5.18	49	15.6.18	59	13.7.18	65	9.8.18	59	20.9.18	61	5.10.18	65
		SO_2	600 mg/Nm3		83		111		105		103		109		112
		NOx	600 mg/Nm3		109	1	119	1	120		116		121	1	118
4	Hot Oil Unit	PM	150.0 mg/Nm3	26.5.18	ND	22.6.18	ND	14.7.18	ND	3.8.18	ND	21.9.18	ND	26.10.18	ND
	(Resorcinol Plant)	SO_2	100 ppm		ND		ND		ND		ND		ND		ND
		NOx	50 ppm		29		27		28		31		30		33
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³		Stand by		Stand by		Stand by		Stand by		Stand by		Stand by
		SO ₂	100 ppm								1				
		NOx	50 ppm												
West	Site	•													
6	FBC boiler W1	PM	100 mg/Nm3	31.5.18	42	28.6.18	47	14.7.18	45	10.8.18	48	21.9.18	52	25.10.18	56
		SO_2	600 mg/Nm3		60		63		65		71	_	79		72
		NOx	600 mg/Nm3		101		97		102		108		118		101
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	25.5.18	ND	22.6.18	ND	14.7.18	ND	18.8.18	ND	28.9.18	ND	26.10.18	ND
		SO_2	100 ppm		ND		ND		ND		ND	_	ND		ND
		NOx	50 ppm		33		31		35		29		35		32
8	Oil burner Shed B	PM	150.0 mg/Nm3		Stand by		Stand by		Stand by		Stand by		Stand by		Stand by
	(Stand By)	SO_2	100 ppm												
		NOx	50 ppm												
9	Boiler (50 TPH 2 Nos) (New	PM	50 mg/Nm3	25.5.18	29	29.6.18	27	12.7.18	24			28.9.18	34	27.10.18	39
	boilers) W2,W3	50	COO (N 2	_	96		0.1		75	17.8.18	31	_	89		110
		SO ₂ NOx	600 mg/Nm3	_	86 81		81 75		75 69		82	_	78		92
		Mercury	300 mg/Nm3 0.03 mg/Nm3	_	ND		ND		ND		71	_	ND		ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3		Stand by		Stand by		Stand by		ND Stand by		Stand by		Stand by
10					Stand by		Stand by		Stand by		Stand by	ĺ	Stand by		Stand by
l	(Stand By)	SO ₂ NOx	100 ppm	-							1	4			
North	Site	NOX	50 ppm		1						1		 		
North 11	Thermic fluid heater of	PM	150.0 mg/Nm3	26.5.18	48	22.6.18	50	13.7.18	56	4		27.9.18	61	27.10.18	61
• •	DCO/DAP Plant	SO ₂		20.3.16	39	22.0.10	43	13.7.10	45	3.8.18	56	21.9.10	49	27.10.18	52
	DCO/DAP Plant	NOx	100 ppm 50 ppm	-	30	4	28	4	35		45	4	56	4	34
		NOX	30 ppm		30		20		JJ		37		30	Page 21 of	

Table 3: Ambient Air Monitoring details

	microgm/NM ³		Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
PM 2.5	60	34	27	19	26	32	32
PM10	100	56.1	47.4	40.9	31.4	32.1	39
SO2	80	8.7	7.1	8	7.1	8.6	9.2
NOx	80	10	7.3	8.4	6.5	8.8	10.1
Ammonia	850	10.2	7.8	0	9	10.2	0
HC1	200	ND	ND	ND	ND	ND	ND
PM 2.5	60	36	37	9	22	29	30
PM10	100	58	54	25	32	33	35
SO2	80	10.2	7.9	6.5	9.1	8.2	9.1
NOx	80	9.8	6.9	8.2	8.9	7.8	7.8
Ammonia	850	16.4	16.4	0	0	0	0
HC1	200	ND	ND	ND	ND	ND	ND
PM 2.5	60	34	36	8	24	30	32
PM10	100	52	51	22	33	34	30
	80	9.8	8.7	5.5	8.9	7.9	8.4
		10.1	7.2	7.7	8.1	8.5	9.2
	+	ND	ND	ND	ND	ND	ND
HC1		ND	ND	ND	ND	ND	ND
		37	27	10	22	31	31
	-	54	47	26	31	35	32
		8.9	10	7.2	10.2	9.1	8.9
		7.9	5.8	6.8	9.5	8.9	8.4
	-	12.8	12.8	0	0	0	0
	-	ND	ND	ND	ND	ND	ND
		31	29	9	29	35	29
		56	42	24	30	38	34
		9.2	9.5	6.8	8.5	8.5	9.8
		8.6	10.2	9.2	7.8	9.2	8.3
	+	ND	ND	ND	ND	ND	ND
		ND	ND	ND	ND	ND	ND
	-	29	22	21	27	31	29
		42	34	35	37	38	31
		7.8	6.2	8.5	9.5	8.5	7.8
	-	8.1	5.7	12.5	13.2	12.2	8.2
		ND	ND	ND	ND	ND	ND
		ND	ND	ND	ND	ND	ND
		33	29	12	22	29	32
		50	37	25	34	35	38
		8.6	5.4	4.4	7.8	8.1	9.7
		9.7	8.1	7.5	11.6	11.6	9.1
							ND
							ND
							30
	-						37
	NOx Ammonia HCl PM 2.5 PM10 SO2 NOx	NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100 SO2 80 NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100 SO2 80 NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100 SO2 80 NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100 SO2 80 NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100 SO2 80 NOx 80 Ammonia 850 HCl 200 PM 2.5 60 PM10 100	NOX 80 10 Ammonia 850 10.2 HCl 200 ND PM 2.5 60 36 PM10 100 58 SO2 80 10.2 NOX 80 9.8 Ammonia 850 16.4 HCl 200 ND PM 2.5 60 34 PM10 100 52 SO2 80 9.8 NOX 80 10.1 Ammonia 850 ND PM 2.5 60 37 PM10 100 54 SO2 80 80 9.8 NOX 80 10.1 Ammonia 850 ND HCl 200 ND PM 2.5 60 37 PM10 100 54 SO2 80 8.9 NOX 80 7.9 Ammonia 850 12.8 HCl 200 ND PM 2.5 60 31 PM10 100 56 SO2 80 9.2 NOX 80 7.9 Ammonia 850 ND HCl 200 ND PM 2.5 60 31 PM10 100 56 SO2 80 9.2 NOX 80 8.6 Ammonia 850 ND HCl 200 ND PM 2.5 60 9.2 NOX 80 8.6 Ammonia 850 ND HCl 200 ND PM 2.5 60 29 PM10 100 56 SO2 80 ND HCl 200 ND PM 2.5 60 29 PM10 100 50 SO2 80 7.8 NOX 80 8.1 Ammonia 850 ND HCl 200 ND PM 2.5 60 33 PM10 100 50 SO2 80 ND HCl 200 ND PM 2.5 60 33 PM10 100 50 SO2 80 ND HCl 200 ND PM 2.5 60 9.7 Ammonia 850 ND HCl 200 ND PM 2.5 60 9.7 Ammonia 850 ND HCl 200 ND PM 2.5 60 9.7 Ammonia 850 ND HCl 200 ND PM 2.5 60 9.7 Ammonia 850 ND HCl 200 ND PM 2.5 60 9.7 Ammonia 850 ND HCl 200 ND PM 2.5 60 ND PM 2.5 60 NO SO2 80 NO SO2 80 NO SO2 80 NO SO2 80 NO SO3 NO SO3 NO SO3 NO SO3 NO SO3 NO SO4 NO SO5 NO SO5 NO SO5 NO SO6 NO SO6 NO SO7 NO	NOX 80 10 7.3 Ammonia 850 10.2 7.8 HCl 200 ND ND ND PM 2.5 60 36 37 PM10 100 58 54 SO2 80 10.2 7.9 NOX 80 9.8 6.9 Ammonia 850 16.4 16.4 HCl 200 ND ND ND PM 2.5 60 34 36 PM10 100 52 51 SO2 80 9.8 8.7 NOX 80 9.8 8.7 NOX 80 10.1 7.2 Ammonia 850 ND ND ND HCl 200 ND ND ND PM 2.5 60 37 27 PM10 100 54 47 SO2 80 8.9 10 NOX 80 7.9 5.8 Ammonia 850 12.8 12.8 HCl 200 ND ND ND PM 2.5 60 31 29 PM10 100 56 42 SO2 80 9.2 9.5 NOX 80 8.6 10.2 Ammonia 850 ND ND PM 2.5 60 31 29 PM10 100 56 42 SO2 80 9.2 9.5 NOX 80 8.6 10.2 Ammonia 850 ND ND HCl 200 ND ND PM 2.5 60 31 29 PM10 100 56 42 SO2 80 9.2 9.5 NOX 80 8.6 10.2 Ammonia 850 ND ND HCl 200 ND ND	NOX 80 10.2 7.8 0 HCI 200 ND ND ND ND PM 2.5 60 36 36 37 9 PM10 100 58 54 25 NOX 80 9.8 6.9 8.2 Ammonia 850 16.4 16.4 0 HCI 200 ND ND ND ND PM 2.5 60 34 36 8 PM10 100 52 51 22 SO2 80 9.8 8.7 5.5 NOX 80 9.8 8.7 5.5 NOX 80 10.1 7.2 7.7 Ammonia 850 ND ND ND ND HCI 200 ND ND ND ND PM 2.5 60 37 27 10 PM 2.5 60 37 27 10 PM 10 100 54 47 26 SO2 80 8.9 10 7.2 NOX 80 7.9 5.8 6.8 Ammonia 850 12.8 12.8 0 HCI 200 ND ND ND ND PM 2.5 60 31 29 9 PM10 100 56 42 24 SO2 80 9.2 9.5 6.8 NOX 80 8.6 10.2 9.2 Ammonia 850 ND ND ND ND PM 2.5 60 31 29 9 PM10 100 56 42 24 SO2 80 8.9 1.0 7.2 NOX 80 8.6 10.2 9.2 Ammonia 850 ND ND ND ND PM 2.5 60 31 29 9 PM10 100 56 42 24 SO2 80 9.2 9.5 6.8 NOX 80 8.6 10.2 9.2 Ammonia 850 ND ND ND ND ND HCI 200 ND ND ND ND HCI 200 ND ND ND ND PM 2.5 60 31 29 22 21 PM10 100 42 34 35 SO2 80 8.9 10 ND ND ND HCI 200 ND ND ND ND ND HCI 200 ND ND ND ND ND HCI 200 ND ND ND ND ND ND ND HCI 200 ND	NOX 80 10.2 7.8 0 9 HCl 200 ND	NOX 80 10 7.3 8.4 6.5 8.8 Ammonia 850 10.2 7.8 0 9 10.2 HCl 200 ND

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	SO2	80	8.2	9.3	3.5	8.1	7.8	8.1
	NOx	80	8.6	10.2	6.5	12.7	12.8	9.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	31	25	22	24	26	31
	PM10	100	52	39	40	41	34	33
Main office, North	SO2	80	9.1	7.1	9.2	8.7	7.9	9.2
•.	NOx	80	10.2	6.4	11.3	12.5	13.1	12.3
	Ammonia	850	0	0	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	34	26	16	25	35	32
	PM10	100	51.8	49.8	38.8	33.2	40.9	40.3
	SO2	80	7.6	7.5	71	7.6	9.2	7.2
Haria water tank	NOx	80	8.6	7.9	6.8	8.5	7.9	7.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND

Table 4: Fugitive Emission Monitoring details

Plant	Area	Parameter	Prescribed Limit	Results of VOCs in Milligram per NM ³							
				May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18		
2,4 D	Reactor	Phenol	19	10.4	7.8	11.6	12.8	13.4	15.2		
	Buffer tank	Chlorine	3.0	1.5	1.8	1.4	0.8	1.3	1.6		
Resorcinol	Benzene storage tank area near vent	Benzene	15	4.8	8.2	5.4	3.8	5.6	7.8		
	Near Extraction/scrubber unit	Butyl acetate	-	1.4	2.1	2.6	1.8	2.9	4.2		
Pharma	At second floor work area	Ammonia	18	9.6	13.7	9.6	10.8	8.1	10.3		
	Ammonia recovery area	Ammonia	18	6.6	10.4	12.8	16.6	10.6	7.4		
Epoxy - I	At vacuum pump 2nd floor	ECH	10	2.8	3.4	2.1	2.4	2	1.2		
	At vessel POS 1208 G.F	ECH	10	6.4	5.6	7.8	5.2	6.1	6.8		
Shed H	At second floor work area	Nitrobenzene	5	1.8	2.3	0.44	1.1	1.6	1		
Shed J	Buffer Tank	Chlorine	3	0.56	0.88	closed	0.56	2.5	0.6		

Table 5: Noise level monitoring data (Day Time)

Sr. No.	Location				Permissible Limits, dBA			
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	75
1	Near Main guest house	66.5	67.4	66.8	63.1	60.8	64.2	75
2	Near TSDF	67.2	62.5	64.3	63.7	62.8	64.4	75
3	At Wyeth Colony	61.3	63.1	65.5	62.4	59.8	63.2	75
4	Gram Panchayat Hall	68.4	60.8	61.2	61.2	60.3	61.5	75
5	Near Main Office North site	65.3	61.3	62.7	65.4	62.3	64.4	75
6	ETP North site	63.3	62.4	63.5	66.2	64.7	66.8	75
7	Opposite shed D	68.1	68.2	67.5	64.3	63.1	63.2	75
8	ETP West site	62.4	64.3	65.6	65.7	62.8	65.2	75
9	Water tank Haria road	60.8	63.7	64.3	62.1	63.1	63.2	75
10	Near 66KVA substation	63.1	62.4	63.7	64.9	61.6	64.4	75

Table 6: Noise level monitoring data (Night Time)

1 abic	o : Noise level monitoring	g uata p	iigiit III	110)				
Sr.	Location	Noise I	evel, d	BA				Permissible
No.					Limits, dBA			
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	70
1	Near Main guest house	58.6	54.8	55.1	53.2	49.3	52.8	70
2	Near TSDF	61.1	55.6	54.4	56.1	52.6	55.3	70
3	At Wyeth Colony	50.1	53.7	52.7	51.3	48.2	51.5	70
4	Gram Panchayat Hall	51.3	52.1	53.3	52.3	51.6	52.4	70
5	Near Main Office North site	56.8	55.2	54.2	55.4	56.8	54.4	70
6	ETP North site	53.6	51.2	50.3	52.4	54.7	53.3	70
7	Opposite shed D	55.3	52.7	53.3	53.2	56.5	52.8	70
8	ETP West site	54.9	53.6	52.8	54.7	52.2	55.2	70
9	Water tank Haria road	47.3	48.1	47.2	53.8	51.8	54.4	70
10	Near 66KVA substation	49.1	49.5	48.5	51.3	52.7	52.7	70

ENVIRONMENTAL AUDIT REPORT (AUDIT PERIOD: APRIL 2017 TO MARCH 2018)

Annexure 1

M/S. ATUL LIMITED

Plot No. 5,6,29,30,33,34,35,37,38,80,81,84,85,91 & Survey No. 274,275,276, At & PO Atul — 396020, Dist: Valsad.





ENVIROCHEM AUDIT CELL CHEMICAL ENGINEERING DEPARTMENT

SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED

FACULTY OF ENGINEERING TECHNOLOGY AND RESEARCH

AT. ISROLI, PO. AFWA, TAL. BARDOLI, DIST. SURAT PIN-394620 Phone: 9228000867, 9228003867, 02622-290933, Fax: 02622-291411 E-mail: fetr.bardoli@gmail.com • Website: www.svpesfetr.ac.in

- Overall housekeeping is satisfactory.
- Company has updated its ISO 14001 system as per its 2015 amendment.
- Company has implemented ZLD at some of its plants.
- Company had harvested approx. 850 million liter rain water during monsoon which indeed a great amount.

RECOMMENDATIONS:

- Sampling facility at chlorosulfonic acid stack shall be updated.
- CCTV shall be placed at CETP.
- Lime handling system shall be installed to further minimize local dusting.
- Company shall explore above ground effluent network system.
- Weather monitoring station for climate monitoring shall be installed.

Compliance of last year Recommendations:

- Company shall introduce zero liquid discharge to more of its plants: Complied. Company has made SPIC IV & Sulfur dyes plants zero liquid discharge in addition to Sulfur black & DCP distillation plant.
- Company shall make one more SLS looking to the present scenario: Presently company has two cells at Atul for captive use. Second cell is still having more than two to three years capacity remaining. Company is in process of getting quotation and finalization for the third cell. At the same time, Company is also exploring possibility for disposing waste to the common SLS after getting necessary approvals from the board.
- Company shall introduce online display at main gate for online ambient measurement: Complied.
- Company shall update its ISO 14001 system as per its 2015 amendment: Complied. Company has upgraded EMS as per ISO 14001: 2015 and certified also.

ANNEXURE – 22 COMPLIANCE REPORT

[A] Consent Status

Sr. No.	Details of Conditions	Compliance Status
1.	Status of valid Consolidated consent & Authorization	Complied
		Valid up to 03/11/2019

[B] Water (Prevention and Control of Pollution) act 1974

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* of water as per Water Act,1974: If No. comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[C] AIR (Prevention and Control of Pollution) ACT 1981

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for Air as per Air Act, 1981: If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[D] MANAGEMENT & HANDLING OF HAZARDOUS WASTE Form -2 (See Rule 3(C) & 5 (5)

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for the storage and handling of hazardous waste/chemicals under the Hazardous Waste (Management and Handling) Rule,1989 & EPA-86. If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

of Ingal: Teeh, & Research, Bardoli)

Ta: Bardoli,
Di: Surai,

Atul Limited

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

CRZ Compliance for the period May 2018-October 2018 as per CRZ Clearance No. ENV-1097-2942-P, dated 17.01.1998.

No.	Condition	Comp	liance				
1	The Company shall strictly	Comp	lied.				
	adhere to all the provisions of CRZ notification of 1991 and subsequent amendments.	Detail	s are given below in the tab	le:			
	•	No.	Clause under CRZ notif	fication	Co	mplianc	е
		1	Imposes the given restri up and expansion operations or processes	of industries		ted	
		2	List of prohibited activiti		No	ted	
		3	Guideline for regulation activities.			ted	
		4	enforcement.	nitoring an	Mi	plicable nistry	to
		Ann		egular zone.		ted	
		Ann 2	resort/ hotels.				
		Ann 3	List pf petroleum produ storage in CRZ except Cl		n NA	1	
3	The company shall strictly adhere to the conditions stipulated by the Gujarat Pollution Control Board in their Consent order. The company shall discharge the	Complied. The company complies with all stipulated norms under various acts. Stipulation made in CCA by GPCB are being complied and the same is certified by the external agency, i.e. our Environmental auditors appointed by GPCB. Latest audit report for year 17-18 is being submitted herewith as Annexure 1 .					
	treated effluent meeting the norms prescribed by G.P.C.B.	of vari no. 3) The m time t	ischarged effluent is meetin ious parameters of treated e aximum values during the he emission went beyond th	effluent is give	en in 1 eriod (Cable 1 .	(Pl. see pg.
		Summ Sr.	nary is given below: Parameter	Norms	Volue	s for the	noriod
		No.	Tarameter	Norms	May-1	8 -Oct 1	8
					Min.	Max.	Avg.
		1	рН	5.5-9.0	6.9	7.5	7.2
		2	Temperature	40 deg C	28.0	31.0	29.5
		3	Colour (pt. co. scale)in units		20.0	48.0	33.3
		4	Suspended solids	100 mg/l	24.0	62.0	43.8
		5	Phenolic Compounds	5 mg/l	0.4	2.0	0.9
		6	Cyanides	0.2 mg/l	0.0	0.0	0.0
		7	Fluorides	2 mg/l	0.0	0.0	0.0
		8	Sulphides	2 mg/l	0.1	0.3	0.2
		9	Ammonical Nitrogen	50 mg/1	26.8	44.0	37.8
		10	Total Chromium	2 mg/1	0.0	0.0	0.0

		Atul/SHE/CRZ Compliance/01 dated 17/7/17. The same has been already submitted to GPCB vide our latter Atul/GPCB/En. Audit/16-17 dated 28/6/17. The same was submitted to CPCB also as directed						
		dated 28/6/17. The same was submitted to CPCB also as directed. GPCB also monitor the treated effluent quality at intervals. Recent result by GPCB is attached as Annexure 2 .						
		The river water quality at the discharge point is regularly being monitored by GPCB. Agencies like NIO, Pollucon Laboratories Pvt. L. MoEF approved agency, Envision Enviro Technologies Pvt. Ltd –NAB accredited have also done the monitoring during the years. Relevatives a Relevative Relevation of the Relevation of the Ministry vide our let Atul/SHE/MoEF/Visit/3 dated 4/4/17.						
	The company shall keep records of the quality of effluents being discharge during the tides as per the recommendations of N.I.O.		olied. The keeping the records of quades in soft copy as per the re				ged during	
4	The company shall submit the quarterly progress report of compliance of conditions.	Depar report	olied. ave submitted progress reportment of Gujarat during the state were already submit SHE/MoEF/Visit/3 dated 4	e pipe line in ted to Mi	stallati	on work	. Couple of	
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.	,	and will be complied as and		ll come.			
	The company shall comply with	Comp	olied.					
6	all the recommendations, additional conditions and environmental safeguards prescribed in the report of NIO dated March, 1997.	comp Gujar	liance to NIO recommend liance report submitted to F at was already submit SHE/MoEF/Visit/3 dated 4	orest and Er ted to Mi	nvironm	ent Dep	artment of	
6	additional conditions and environmental safeguards prescribed in the report of NIO	compi Gujar Atul/S Comp	liance report submitted to F at was already submit SHE/MoEF/Visit/3 dated 4	orest and Er ted to Mi /4/17.	nvironm nistry	ent Dep vide (artment of our letter	
	additional conditions and environmental safeguards prescribed in the report of NIO dated March, 1997. The company shall submit an Environmental Audit Report	comp. Gujar Atul/S Comp Latesi herew Comp We ha letter	liance report submitted to Feat was already submit SHE/MoEF/Visit/3 dated 4 plied. t environmental audit report as Annexure 1 .	orest and Erted to Mi/4/17. rt for year for operating. Copy alrea	nvironm nistry 17-18 i g 4Km li dy sub	ne vide i	artment of our letter submitted	

Table 1: Quality of treated effluent

Sr. No.	Parameter	Results						GPCB Limits
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	
1	рН	7.2	7.5	7.2	7.1	7	6.92	5.5 to 9.0
2	Temperature °C	31	30	29	28	29	29.8	40 ∘C
3	Colour (pt. co. scale)in units	48	35	37	20	25	35	
4	Suspended solids, mg/l	62	55	46	44	32	24	100
5	Phenolic Compounds, mg/l	0.8	0.5	0.7	2	0.7	0.4	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	ND	ND	ND	ND	ND	ND	2
8	Sulphides, mg/l	0.2	0.3	0.2	0.1	0.2	0.1	2
9	Ammonical Nitrogen, mg/l	26.8	42	44	36	42	36	50
10	Total Chromium, mg/l	0.01	0.02	0.01	0.01	0.01	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	42	38	42	38	42	38	100
13	COD, mg/l	232	220	232	212	222	190	250
Note	: ND is Not Detectable.		_ L			_1		

ENVIRONMENTAL AUDIT REPORT (AUDIT PERIOD: APRIL 2017 TO MARCH 2018)

M/S. ATUL LIMITED

Annexure 1

Plot No. 5,6,29,30,33,34,35,37,38,80,81,84,85,91 & Survey No. 274,275,276, At & PO Atul — 396020, Dist: Valsad.





ENVIROCHEM AUDIT CELL CHEMICAL ENGINEERING DEPARTMENT

SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY MANAGED

FACULTY OF ENGINEERING TECHNOLOGY AND RESEARCH

AT. ISROLI, PO. AFWA, TAL. BARDOLI, DIST. SURAT PIN-394620 Phone: 9228000867, 9228003867, 02622-290933, Fax: 02622-291411 E-mail: fetr.bardoli@gmail.com • Website: www.svpesfetr.ac.in

- Overall housekeeping is satisfactory.
- Company has updated its ISO 14001 system as per its 2015 amendment.
- Company has implemented ZLD at some of its plants.
- Company had harvested approx. 850 million liter rain water during monsoon which indeed a great amount.

RECOMMENDATIONS:

- Sampling facility at chlorosulfonic acid stack shall be updated.
- CCTV shall be placed at CETP.
- Lime handling system shall be installed to further minimize local dusting.
- Company shall explore above ground effluent network system.
- Weather monitoring station for climate monitoring shall be installed.

Compliance of last year Recommendations:

- Company shall introduce zero liquid discharge to more of its plants: Complied. Company has made SPIC IV & Sulfur dyes plants zero liquid discharge in addition to Sulfur black & DCP distillation plant.
- Company shall make one more SLS looking to the present scenario: Presently company has two cells at Atul for captive use. Second cell is still having more than two to three years capacity remaining. Company is in process of getting quotation and finalization for the third cell. At the same time, Company is also exploring possibility for disposing waste to the common SLS after getting necessary approvals from the board.
- Company shall introduce online display at main gate for online ambient measurement: Complied.
- Company shall update its ISO 14001 system as per its 2015 amendment: Complied. Company has upgraded EMS as per ISO 14001: 2015 and certified also.

ANNEXURE – 22 COMPLIANCE REPORT

[A] Consent Status

Sr. No.	Details of Conditions	Compliance Status
1.	Status of valid Consolidated consent & Authorization	Complied
		Valid up to 03/11/2019

[B] Water (Prevention and Control of Pollution) act 1974

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* of water as per Water Act,1974: If No. comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[C] AIR (Prevention and Control of Pollution) ACT 1981

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for Air as per Air Act, 1981: If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

[D] MANAGEMENT & HANDLING OF HAZARDOUS WASTE Form -2 (See Rule 3(C) & 5 (5)

Sr. No.	Condition No. in consent	Details of Conditions	Compliance Status
1.	Compliance Report* for the storage and handling of hazardous waste/chemicals under the Hazardous Waste (Management and Handling) Rule,1989 & EPA-86. If No, comment:	CC&A AWH- 67717 has been received and valid till 03/11/2019	Yes

of Ingal: Teeh, & Research, Bardoli)

Ta: Bardoli,
Di: Surai,



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

Gujarat Pollution Control Board, Vapi C5/124, GIDC Vapi,

Near Hotel Pritam, Vapi - 396 195 Tele:(0260) 2432089



Sample ID:243655 - Analysis Completion:20/10/2018

Dves and Dve-Intermediates / LAB Inward: 46965

Accreditation Standards & NABL Certificate Details: Biological(T-3121) / Chemical(T-3120) / 18.09.2014 / 17.09.2016

TEST REPORT

Test Report No.: 46965 Date: 20/10/2018

1. Name of the Customer : Atul Limited - 23158

2. Address : 5, 6, 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc.,AT & P.O.ATUL, Dist. Valsad, Pin:

ATUL-396020, Taluka: Valsad, District: Valsad, GIDC: Not In Gidc

3. Nature of Sample : REP-Representative/Grab, (Insp Type : VIG-By Vigilance Team)

4. Sample Collected By : A.G. Patel, Vigl Head

: 5 5. Quantity of Sample Received

6. Code No. of the Sample : 243655

7. Date & Time of Collection & Inwarding : 30/09/2018, (1725 to 1725) & 01/10/2018

8. Date of Start & Completion of Analysis : 01/10/2018 & 20/10/2018

: final outlet of East side ETP (treated) ~ 9. Sampling Point

10. Flow Details (Remarks)

11. Mode of Disposal : into treated w/w pond & finally into estuary zone of Par river

12. Ultimate Receiving Body : Estuary zone of river par

13. Temperature on Collection : 30 & pH Range on pH Strip :@ 7-8 on pH strip

: VAP-WTB651 & Color & Appearance : Yellowish Brown 14. Carboys Nos for

15. Water Consumption & W.W.G (KLPD) : Ind:23726.000, Dom:938.000 & Ind:21727.000, Dom:939.000

Sr	Parameter	Unit	Test Method	Range of Testing	Result
1	Temperature	Centigrade	IS: 3025 (Part – 9) – 1984(Reaffirmed 2006)	Ambient oC - 60 oC	30
2	рН	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.51
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	100
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	3642
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	88
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	21.74
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	1550
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	73
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	237
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.2
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	0.82
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	0.89
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	44

Laboratory Remarks: Freeze By:445-lab_445 Dt.: 20/10/2018

Jigo.

J.D.OZA, Lab Head

sample collected as per is 3025 Field Observation:

Note:

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

Atul Limited

Project: Setting up an addition captive power plant of 22 MW at post Atul, Dist. Valsad EC Compliance Report for the period May 2018 - October 2018 as per EC No. SEIAA/GUJ/EC/1(d)/340/2016

No.	Condition	Complia		2010 8	is pe	JI BC	10. DE	IAA/ GU	0/ BC/ I(<u>иј/ Ото/</u>	2010
	fic Conditions :	Compile									
1.	Unit shall comply the emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015.								agency.		
		Summa	rv of Sta	ck result	ts:						
		Summary of Stack results: No. Parameter Standard Unit Values for the period values as per CCA 18- Oct 18							riod May		
								-	Min.	Max.	Avg.
		1	SPM		50.0)	mg	/Nm³	24	39	31
		2	SO ₂		600	1	mg	/Nm³	75	110	87
		3	NOx		300	1	mg	/Nm³	69	92	78
		4	Mercur	у	0.03	3	mg	/Nm³	ND	ND	ND
		Details o	of stack r	esults is	given	in Tat	ole 1. (F	l. see pg.	no. 12)		
2.	All measures shall be taken to prevent soil and ground water contamination.	Complie	ed. No co	ntaminat	ion fo	ound.					
4.	Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any due to application of waste water generation from the CPP and shall adopt the additional mitigation measures as may be suggested through such studies. A.2:WATER: The fresh water requirement for the proposed expansion shall not exceed 2095 KL/day and it shall be met through	Complied. The average water consumption for the referred expansion for the report									
	the existing water supply system from River par.	below ta		May-18	Jun	-18 .	Jul-18	Aug-18	Sep-18	Oct-18	Total
			mption	44704			39647	46501	44927	50604	271707
										30004	2/1/0/
		Per da	y	1490	14	62	1321	1500	1449	1687	1485 (avg.)
		The maximum values during the compliance period confirms that at no time the wastewater generation went beyond the stipulated value. Summary is given below: Water Consumption Stipulated values for the period May 18- value Oct 18							n below:		
		Min. Max. A					Av	or .			
		Water	Consump	otion KL/	day	2095		1321	1687	148	
	Permission from the Concern authority for additional water requirement shall be obtained.	Complie requiren		ready hav	e per	missio	n from (Governme	nt of Guja	rat for thi	s additional
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.		Complied. Metering of water is done and its records are maintained. No ground water is tapped for meeting the project requirements.						ound water		

6.	The industrial effluent generation from the proposed expansion shall not exceed	Complied . The							
	270 KL/day and entire quantity of effluent shall be utilized for ash	only which is well within the limit and entire quantity is utilized in house and discharge to ETP. Detail break up is given in below table:						nouse and n	
	quenching, dust suppression, fire hydrant make up, Gardening plants	Wastewater generation	May-18	Jun-18	Jul-18	Aug-18	Sep-18	8 Oct-1	8 Total
	floor cleaning.	Month wise	7182	7269	6367	7305	6766	7879	42768
		Per day	239	212	205	235	218	262	229 (avg.
		The maximum wastewater gen							
		Wastewater g	eneration		Stipulate value	d Value	s for the	e period N	Iay 18- Oct
						Min.	Ma	av A	vg.
		Wastewater ge	neration	n³/d	270	205	26		29
		" doto water ge		/ u					
		Entire quantity to attend coal s			being utili	zed in ash	ı quenchi	ing and co	al storage yard
7.	There shall be no discharge of industrial effluent from the proposed project in any case.	Complied. Neu D M Plant. RO l							
8.	Domestic waste water generation shall not exceed 1 KL/day Which shall be disposed of into soak system.	Complied. Domestic waste water disposed through soak pit system.							
9.	The unit shall provide metering facility at the inlets and outlets of the collection cum reuse system of waste water and maintain records of the same.	Complied. Meter is provided at the inlet of the collection cum reuse system of waste water and records are being maintained.							
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. Logbooks maintained.							
11.	Rain water harvesting of rooftop rain water shall be undertaken as proposed in the EIA report of the project and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water through percolation wells. Before recharging the rain water, pre-treatment must be done to remove suspended matter.	Complied . Rooftop rain water from Coal sheds and New TG building is collected and used as make up water for cooling tower. Rain water also collected from surrounding area and pumping it to the Clarifloculator units.							
	A.3 AIR:								
12.	Existing two coal fired steam boilers shall be replaced with two AFBC Boilers having capacity 50 TPH each.	Complied . Two boiler.	old stoker	fired bo	oilers have	already b	een dism	nantled for	the new AFBO
13.	Fuel (Indian coal/and or Imported coal and or Lignite) to the tune of 16725 MT/M shall be used for proposed boilers.	Complied . The which is well wi							27 MT/M only
	may memana se deca ter proposed soniere.	Fuel consumption	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Total Avg.
		Month wise	11998	13442	13041	13302	13368	13010 7	8161 13027
		The maximum values during the compliance period confirms that at no time th wastewater generation went beyond the stipulated value. Summary is given below:							
		wastewater gen	eration we	nt beyo	nd the st	pulated v	alue. Sur	mmary is a	
		Fuel consum		Stip	ulated				
					ulated				given below:

14.	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	Complied. Sulfur and ash content of the fuel used is analyzed and its records are maintained. Ash Content: 30-35 % (Indian Coal), 10-12% (Imported coal) Sulphur Content: <0.1% (Indian Coal), <0.2% (Imported coal)
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.	Complied . The radio activity and heavy metal contents in coal/ lignite used has been carried out and Report had been submitted vide our letter Atul/SHE/EC Compliance/03 dated 30.6.18.
	Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/lignite and Flyash (Including bottom ash) shall be put in place.	
16.	Height of flue gas stacks attached to boilers shall be minimum 74.58 meters.	Complied . The emission is dispersed through adequate height of stacks as per CPCB standard as given below:
		For Boilers : Stack Height H=14(Q) ^{0.3}
		Height of the stack is 106 meters, which is actually higher than norms.
17.	A flue gas stack of 74.58 m height shall be provided with online monitoring system to proposed steam Boiler. Mercury gas emission from stacks shall also be monitored on periodic basis.	Complied . Height of the stack is 106 meters. Online monitoring system for SPM, SOx and NOx is already been made and connected to CPCB server. Mercury emission is also monitored on monthly basis by GPCB approved M/s. Royal Environment Auditing & Consultancy Service, Rajkot, an NABL approved agency. Please refer point 1.
18.	High efficiency Electro static precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers.	Complied. Total 4 field ESP has been installed and commissioned to meet further stringent requirement also.
	The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms.	Complied . Particulate matter emission did not exceed the GPCB norms during report period. Please refer point 1.
	The control system shall be designed and integrated in plant DCS in such a way that amended from ESP exceeds the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time, utilization of boiler capacity shall so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.	Complied . Flue gas emission from the stack meets with the specified standards for the report period. Please refer point 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 . The monitoring has been carried out and found satisfactory.
20.	Lime stone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.	Complied. A system to inject lime stone powder and meeting with the prescribed norms of SO ₂ is already been installed and interconnected with the online emission monitoring system. SO ₂ levels in the ambient air did not exceed the prescribed standards for the report period. Please refer point 30.
21.	The company shall 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.	Complied . Our company is ISO 14001 certified company and regular preventive maintenance of all the critical equipment is a part of our system.
22.	Diesel to the tune of 300 Lit/hr shall be used as a fuel in stand -by D. G. Set (1500 KVA)	Complied . The diesel consumption for the report period is zero.

23.	The flue gas emission from DG set shall be dispersed through adequate stack	Complied . DG set run for emergency start up only.
	height as per CPCB standards. At no time	
	the emissions levels shall go beyond the	
	stipulated standards.	
	Acoustic enclosure be provided to DG	Complied . Acoustic enclosure provided to DG set.
24	seta to mitigate the noise pollution.	
24.	Online monitoring system shall be installed to monitor the SOx, NOx and	Complied . Online monitoring system for SPM, SOx and NOx is already been made and connected to CPCB server.
	SPM in the flue gas stack.	and connected to CFCB server.
	An arrangement shall also be done for	Complied.
	reflecting the online monitoring result on	•
	the company's server, which can be	
	assessable by the constructed.	
25.	Adequate storage facility for the fly ash in	Complied. Two silos of 330 m ³ capacity for fly ash and one silo of 45 m ³ for bottom
	terms of closed silos shall be provided at site. No pond shall be constructed.	ash are provided.
26.	Handling of the fly ash shall be through	Complied. It is already provided.
	a closed pneumatic system.	
27.	Ash shall be handled only in dry state.	Complied.
28.	The unit shall strictly comply with the fly	Complied . Fly ash generated is utilized 100%. Data given in Table 2 . (Pl. see pg. no.
	ash Notification under the EPA and it	[12)
	shall ensure that there is 100% utilization of fly ash to be generated from	
	the unit.	
29	The fugitive emission in the work zone	Complied.
	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.	
	All handing & transport of coal & Lignite	Complied. All handing & transport of coal & Lignite is done through covered coal
	shall be exercised through covered coal	conveyors only.
	conveyors only.	Completed Devices and idea
	Enclosure shall be provided at coal / Lignite loading and uploading	Complied . Enclosure provided.
	operations.	
	Water shall be sprinkled on coal / Lignite	Complied. Water regularly sprinkled on coal / Lignite stock piles to retain some
	stock piles periodically to retain some	moisture in top layer and also while compacting to reduce the fugitive emission.
	moisture in top layer and also while	
	compacting to reduce the fugitive emission.	
	All transfer points shall be fully enclosed.	Complied. All transfer points are fully enclosed.
	Adequate dust suppression / extraction	Complied. Adequate dust extraction system at crusher house is provided While dust
	system at crusher house as well as for	suppression system the coal/ Lignite unloading areas to abate dust nuisance.
	the coal/ Lignite stock yard and other	
	vulnerable areas shall be provided to	
	abate dust nuisance. Accumulated coal dust / fly ash on the	Complied. Coal dust / Fly ash is being cleaned regularly. Coal dust and fine particles
	ground and surfaces shall be removed /	are being loaded to coal handling plant after spraying water on it.
	swept regularly and water the area after	
	sweeping.	
	Internal roads shall be either concreted	Complied. Paver blocks have been provided in the ESP and some internal area of
	or asphalted or paved properly to reduce the fugitive emission during vehicular	power plant. Concrete Road have been built in the surrounding area of Power Plant to
	movement.	reduce fugitive emissions during vehicle movement.
	Air borne dust shall be controlled with	Complied . Waste water of neutralization pit is being used for dust suppression in Coal
	water sprinkles at suitable locations in	plant and Fly ash handling units. Covered trucks / closed bulkers are being utilized
	the plant.	for handling coal and fly ash.
	Coal / Lignite shall be transported	
	through covered trucks only whereas fly ash shall be transported through closed	
	trucks only.	
	A green belt shall be developed all around	Complied . Proper plantation is done all around the plant boundary and also the roads
	the plant boundary and also the roads to	to mitigate fugitive & transport dust emission.
	•	•

	mitigate fugitive & transport dust emission.								
	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 will be continued n							
	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 up wind a downwind direction as well as where maximum ground level concentration anticipated. This also covers the impact, if any, of the project plant. The same been shown to authority like SPCB, CPCB & MoEF during their visit to our factory							
		The maximum values during the compliance period confirms that at no tire emission level went beyond the stipulated standards. Parameter wise summigiven below:							
		Summary of Ambi	ient Air Quality 1	esults:					
		Station	Parameter	Limit microgm/NM ³		for the p 8- Oct 18			
					Min.	Max.	Avg		
		66 KV	RSPM (PM2.5)	60	19	34	28.3		
			PM10	100	31.4	56.1	41.2		
		SO2	80	7.1	9.2	8.1			
			NOx	80	6.5	10.1	8.5		
Opposite S D		Ammonia	850	0	10.2	6.2			
		HC1	200	0	0	0			
		RSPM (PM2.5)	60	9	37	27.2			
		PM10	100	25	58	39.5			
			SO2	80	6.5	10.2	8.5		
			NOx	80	6.9	9.8	8.2		
			Ammonia	850	0	16.4	5.5		
			HC1	200	0	0	0		
		Near West site ETP	RSPM (PM2.5)	60	8	36	27.3		
			PM10	100	22	52	37.0		
			SO2	80	5.5	9.8	8.2		
			NOx	80	7.2	10.1	8.5		
			Ammonia	850	0	0	0		
			HC1	200	0	0	0		
		Near North ETP	RSPM (PM2.5)	60	10	37	26.3		
			PM10	100	26	54	37.5		
			SO2	80	7.2	10.2	9.1		
			NOx	80	5.8	9.5	7.9		
			Ammonia	850	0	12.8	4.3		
			HC1	200	0	0	0		
		TSDF	RSPM (PM2.5)	60	9	35	27.0		
			PM10	100	24	56	37.3		
			SO2	80	6.8	9.8	8.7		
		I	NOx	80	7.8	10.2	8.9		

			Ammonia	850	0	0	0
			HC1	200	0	0	0
		Main Guest	RSPM (PM2.5)	60	21	31	26.5
		House	PM10	100	31	42	36.2
			SO2	80	6.2	9.5	8.1
			NOx	80	5.7	13.2	10.0
			Ammonia	850	0	0	0
			HC1	200	0	0	0
		Wyeth Colony	RSPM (PM2.5)	60	12	33	26.2
			PM10	100	25	50	36.5
			SO2	80	4.4	9.7	7.3
ı			NOx	80	7.5	11.6	9.6
			Ammonia	850	0	0	0
			HC1	200	0	0	0
		Gram	RSPM (PM2.5)	60	10	34	27.5
		panchayat hall	PM10	100	22	51	38.0
			SO2	80	3.5	9.3	7.5
			NOx	80	6.5	12.8	10.1
			Ammonia	850	0	0	0
			HC1	200	0	0	0
		Main office,	RSPM (PM2.5)	60	22	31	26.5
		North site	PM10	100	33	52	39.8
			SO2	80	7.1	9.2	8.5
			NOx	80	6.4	13.1	11.0
			Ammonia	850	0	0	0
			HC1	200	0	0	0
		Haria water	RSPM (PM2.5)	60	16	35	28.0
		tank	PM10	100	33.2	51.8	42.5
			SO2	80	7.2	71	18.4
			NOx	80	6.8	8.6	7.9
			Ammonia	850	0	0	0
	If at any store those levels are found to	Complied No1	HCl	200	0	0	0
	If at any stage these levels are found to exceed the prescribed limits necessary additional control measures shall be taken be decided in consultation with the GPCB.	Complied. No such	n case found.				
31.	A.4 SOLID/ HAZARDOUS WASTE: The company shall strictly comply with	Complied.					
31.	the rules and regulations with regards to handling and disposal of Hazardous waste in accordance from time to time.		004 1:1	0.11.10			
	Authorization from the GPCB shall be obtained for collection / treatment/storage disposal of hazardous waste.	Complied. We have	e CCA valid up to	3.11.19			

	1	
32.	Hazardous waste sludge shall be packed	Complied . There is no Haz. waste generation in this project.
	stored in separate designated hazardous	
	waste storage facility with impervious bottom and leachate collection facility,	
	before its disposal.	
33.	The used oil shall be sold to only to the	Complied. Used oil is being sold to GPCB authorized vendor namely ABC Organics &
	registered recyclers / refiners.	Chemicals.
34.	The discarded containers / barrels	Complied. No bags / liners are being utilized for Power Plant.
	/bags/ liners shall be sold only to the	
	registered recycler.	
35.	For storage of fly ash closed silos of	Complied . Fly ash Silos 2 No's of storage capacity 300 Cu.M each have been installed.
	adequate capacity shall be provided.	A separate bed ash silo of 100 Cu.M has been installed.
	No ash pond shall be construed in the	Complied . No ash pond is construed in the project.
36.	project. The fly ash shall be supplied to the	Complied. Fly ash is being given to Cement and Bricks manufacturers and also being
30.	manufacturers of fly ash based products	used for our own Bricks Manufacturing unit.
	such as cement, concrete blocks, bricks,	used for our own Bricks Manuacturing unit.
	panels, etc.	
	The unit shall strictly comply with the Fly	Complied. We are complying with the Fly Ash Notification under EPA and there is
	Ash Notification under EPA and it shall	100% utilization of fly ash being generated from the unit. Please refer point 28.
	be ensured that there is 100% utilization	
	of fly ash to be generated from the unit.	
37.	All possible efforts shall be made for co-	Complied.
	processing of the Hazardous waste prior	
	to disposal into TSDF/CHWIF.	
	A.5 SAFETY:	
38.	The project management shall strictly	Complied.
00.	comply with the provisions made in the	oomprou.
	Factories Act, 1948 as well as	
	manufacturer, storage and Impact of	
	Hazardous chemicals Rules 1989 as	
	amended in 2000 for handling of	
	hazardous chemicals.	
39.	Necessary precautions like continuous	Complied. Lignite is usually used on the same day of its receiving at site as far as
	monitoring of hot spot (ignite lignite) using temperature detection systems	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.
	water sprinklers, avoiding stacking of	and the flydrant system is available for the fact storage sheds.
	lignite near stream pipeline etc shall be	
	made for storing lignite to prevent fire	
	hazard.	
40.	All the risk mitigation measures, general	Complied . All recommendations implemented.
	& specific recommendations mentioned	
	in risk Assessments Report shall be	
41	implemented.	Camuliad Fire hydront system is adequate and as you stondards
41.	A well designed fire hydrants system shall be installed as per the prevailing	Complied. Fire hydrant system is adequate and as per standards.
	standards.	
42.	Personal protective Equipment shall be	Complied . PPEs like nose masks, safety goggles, chemical resistive aprons, fire proof
]	provided to worker and its usage shall be	apron, Hand gloves, safety helmet, welding goggles, ear mugs, safety shoes etc are
<u></u>	ensured and supervised.	provided to the workers and utilization of the PPEs is followed strictly in Power Plant.
43.	First Aid Box and required antidotes for	Complied. First aid box are kept in each plant and at strategic locations whereas
	the chemical used in the unit shall be	antidotes are kept in the medical Centre.
	readily available in adequate quantity at	
4.6	all the times.	Complied Daine dans as manufactured to Destroit Act 0 and a
44.	Occupational health surveillance of the workers shall be done its records shall be	Complied . Being done on regular basis as per the Factories Act & rules.
	maintained. Pre - employment and	
	periodical medical examination for all the	
	worker shall be undertaken as per the	
	Factories Act & rules.	
45.	Flameproof fittings shall be provided at	Complied. Flame proof fittings are provided.
	the proposed power plant.	
46.	Adequate firefighting facilities shall be	Complied. Firefighting facilities are adequate.
	provided at the proposed power plant.	

47.	Proper ventilation shall be provide in the work area.	Complied. Proper ventilation provided.
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.
	A.6 NOISE:	
50.	To minimize the noise pollution the following noise control measures shall be implemented.	Complied.
	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 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.	Complied.
	Regular maintenance of machinery and vehicles shall be undertaken to reduce the noise impact.	Complied.
	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.
	Proper oiling lubrication and preventive maintenance shall be carried out of the machineries and equipment to reduce noise generation.	Complied.
	Construction equipment generating minimum noise vibration shall be chosen.	Complied.
	Ear plugs and / muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	Complied.
	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	Complied.
	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	Complied.
	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	Complied.
	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment	Complied.
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. Silencers, acoustic hood are provided.

The ambient noise levels shall confirm to the standards prescribed under the Environment (protection) Act and Rules. Workplace noise levels for workers shall be as per the factories Act and Rules. **Complied.** The ambient and workplace noise level confirms to the standard prescribed under EPA. The same is being regularly monitored and its details are given in **Table 4** and **5**. (Pl. see pg. no. 14)

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

Noise level monitoring data (Day Time)

Sr. No.	Location	Permissible Limits, dBA	Values for the period May 18- Oct 18			
		75	Min.	Max.	Avg.	
1	Near Main guest house	75	60.8	67.4	64.8	
2	Near TSDF	75	62.5	67.2	64.2	
3	At Wyeth Colony	75	59.8	65.5	62.6	
4	Gram Panchayat Hall	75	60.3	68.4	62.2	
5	Near Main Office North site	75	61.3	65.4	63.6	
6	ETP North site	75	62.4	66.8	64.5	
7	Opposite shed D	75	63.1	68.2	65.7	
8	ETP West site	75	62.4	65.7	64.3	
9	Water tank Haria road	75	60.8	64.3	62.9	
10	Near 66KVA substation	75	61.6	64.9	63.4	

Noise level monitoring data (Night Time)

Sr. No.	Location	Permissible Limits, dBA	Values for the period May 18- Oct 18			
		70	Min.	Max.	Avg.	
1	Near Main guest house	70	49.3	58.6	54.0	
2	Near TSDF	70	52.6	61.1	55.9	
3	At Wyeth Colony	70	48.2	53.7	51.3	
4	Gram Panchayat Hall	70	51.3	53.3	52.2	
5	Near Main Office North site	70	54.2	56.8	55.5	
6	ETP North site	70	50.3	54.7	52.6	
7	Opposite shed D	70	52.7	56.5	54.0	
8	ETP West site	70	52.2	55.2	53.9	
9	Water tank Haria road	70	47.2	54.4	50.4	
10	Near 66KVA substation	70	48.5	52.7	50.6	

A.7 GREEN BELT AND OTHER PLANTATION.

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.

53.

Complied. Green belt is developed and we planted more than 50000 plants every year.

The unit shall also take up adequate plantation at suitable open Land on road sides and other open areas in nearby villages or schools in consultation with the Gram panchayat / GPCB and submit an action plan for the same for next three years to the GPCB.

Complied. We plant more than 50000 plants every year on road sides and other open areas in nearby villages or schools in consultation with the Gram panchayat.

	B.OTHER CONDITIONS:	
54.	In the event of failure of any pollution	Complied. No such case during the repot period. However, if such case happens we
	control system adopted by the unit, the	ensure to close down the unit.
	unit shall be safely closed down and shall	
	not be restarted until the desired	
	efficiency of the control equipment has	
	been achieved.	0 11
55.	All the recommendation , mitigation	Complied.
	measures ,environments protection	
	measures and safeguard proposed in the	
	EIA report of the project prepared by M/s	
	; Eco chem Sales & Service , surat &	
	submitted vide letter no NIL dated	
	03/11/2015 and commitments made during presentation before SEAC,	
	proposed in the EIA report shall be	
	strictly adhered to in letter and spirit.	
56.	All the recommendation of CREP	Complied. CREP guidelines is being followed.
30.	guidelines as may be applicable from	Complied. CREF guidennes is being followed.
	time to time shall be following vigorously.	
57.		Complied Implementation of atinulated environmental antegrands were encurred by
51.	A separate environment management cell with qualified staff shall be set up for	Complied . Implementation of stipulated environmental safeguards were ensured by the Company's SHE department.
	implementation of stipulated	are company s one acparament.
	environmental safeguards.	
58.	The project authorities must strictly	Complied.
55.	adhere to stipulations made by the	
	Gujarat Pollution Control Board (GPCB),	
	state government and statutory	
	authority.	
59.	No further expansion or modification in	Complied. No further expansion took place.
	the plant likely to cause environmental	The state of the s
	impacts shall be carried out without	
	obtaining prior Environment Clearance	
	from the concerned authority.	
60.	The above conditions will be enforced,	Noted.
	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.	
61.	The project proponent shall comply all	Complied.
	the conditions mentioned in ' The	
	Companies (Corporate Social	
	Responsibility Policy) Rules, 2014 and its	
	amendments from time to time in a letter	
60	and spirit.	Committed All the managed them are start of DMD at 1 222
62.	The project proponent shall ensure that	Complied. All the recommendations suggested in the EMP report and Risk
	unit complies with all the environment	assessments study repot as well as proposed by us have been implemented.
	protection measures, risk mitigation	
	measures and safeguards recommended in the FMP report and Rick Assessments	
	in the EMP report and Risk .Assessments	
	in the EMP report and Risk .Assessments study repot as well as proposed by	
3	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent.	Complied
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. The project authorities shall earmark	Complied.
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. The project authorities shall earmark adequate funds to implement the	
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as GPCB	EMP measures are implemented.
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as GPCB along with the implementation scheduled	EMP measures are implemented. A separate budget is being allocated every year to comply with all the legal requirement
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. 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.	EMP measures are implemented. A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. 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	EMP measures are implemented. A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. 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.	EMP measures are implemented. A separate budget is being allocated every year to comply with all the legal requirement stipulated by SPCB, CPCB & MoEF apart from upkeep of pollution control systems and facilities. Total expenditure is given in below table including EMS implementation:
3.	in the EMP report and Risk .Assessments study repot as well as proposed by project proponent. 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	

		Π	2000				
		Civil work					
		Plant and machinery	6049				
		Environment management system	984				
		Greenbelt development	10				
		Other assets Contingency	200				
		Establishment charges	15				
		Project management and consultancy	50				
		Idc and financial charges	350				
		Total	9683				
64.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and May also be seen at website of SEIAA / SEAC/GPCB.	Complied. The advertisement given in newsp Panchayat, Zila parishad, District Industrial					
	This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarat language and the other in English.	Complied. The advertisement copy already submitted vide our letter dated 27.1.17.					
	A copy each of the same shall be forwarded to the concerned Regional office of the Ministry.	Complied. The advertisement copy already submitted vide our letter dated 27.1.17.					
65.	The project proponent shall also comply with additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Complied. No additional conditions so far imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.					
66.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and condition in hard and soft copies to the regulatory authority concerned on 1st June and 1st December of each calendar year.	Complied. We regularly submit the half-year	rly compliance report.				
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	Complied.					

	and final approval of the project by the	
	concerned authorities and the date of	
	start of the project.	
72.	This environmental clearance is valid for	Noted.
	seven years from the date of issue.	
73.	Any appeal against this environmental	Noted.
	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.	

Table 1 : Stack Result

No.	Parameter	Standard values as per CCA	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
1	SPM	50 mg/Nm3	29	27	24	31	34	39
2	SO2	600 mg/Nm3	86	81	75	82	89	110
3	NOx	300 mg/Nm3	81	75	69	71	78	92
4	Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND

Table 2 : Fly ash generation and disposal details:

Fly Ash	Unit	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Generation	МТ	2724.27	2094.25	1043.057	1697.788	2634.097	3185.336
Disposal	MT	2724.27	2094.25	1043.057	1697.788	2634.097	3185.336

Table 3 : Ambient air monitoring:

Station Station	Parameter	Limit microgm/NM ³	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
	PM 2.5	60	34	27	19	26	32	32
	PM10	100	56.1	47.4	40.9	31.4	32.1	39
66 171	SO2	80	8.7	7.1	8	7.1	8.6	9.2
66 KV	NOx	80	10	7.3	8.4	6.5	8.8	10.1
	Ammonia	850	10.2	7.8	0	9	10.2	0
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	36	37	9	22	29	30
	PM10	100	58	54	25	32	33	35
Opposite	SO2	80	10.2	7.9	6.5	9.1	8.2	9.1
Shed D	NOx	80	9.8	6.9	8.2	8.9	7.8	7.8
	Ammonia	850	16.4	16.4	0	0	0	0
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	34	36	8	24	30	32
Near West site ETP	PM10	100	52	51	22	33	34	30
	SO2	80	9.8	8.7	5.5	8.9	7.9	8.4

	NO	90	10.1	7.2	7.7	8.1	8.5	9.2
	NOx ·	80	ND	ND	ND	ND		ND
	Ammonia	850	ND	ND	ND	ND		ND
	HC1	200						31
	PM 2.5	60	37	27	10	22		
	PM10	100	54	47	26	31	35	32
Near North ETP	SO2	80	8.9	10	7.2	10.2		8.9
	NOx	80	7.9	5.8	6.8	9.5		8.4
	Ammonia	850	12.8	12.8	0	0		0
	HC1	200	ND	ND	ND	ND		ND
	PM 2.5	60	31	29	9	29		29
	PM10	100	56	42	24	30	38	34
TODE.	SO2	80	9.2	9.5	6.8	8.5	8.5	9.8
TSDF	NOx	80	8.6	10.2	9.2	7.8	9.2	8.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	29	22	21	27	31	29
	PM10	100	42	34	35	37	38	31
	SO2	80	7.8	6.2	8.5	9.5	8.5	7.8
Main Guest House	NOx	80	8.1	5.7	12.5	13.2	12.2	8.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	33	29	12	22	29	32
	PM10	100	50	37	25	34	35	38
	SO2	80	8.6	5.4	4.4	7.8	8.1	9.7
Wyeth Colony	NOx	80	9.7	8.1	7.5	11.6	11.6	9.1
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	32	34	10	29	30	30
	PM10	100	48	51	22	31	39	37
	SO2	80	8.2	9.3	3.5	8.1	7.8	8.1
Gram panchayat hall	NOx	80	8.6	10.2	6.5	12.7	12.8	9.8
	Ammonia	850	ND	ND	ND	ND		ND
	HC1	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	31	25	22	24		31
	PM10	100	52	39	40	41		33
		80	9.1	7.1	9.2	8.7		9.2
Main office, North			10.2	6.4	11.3	12.5		12.3
-	NOx Ammonia	80 850	0	0	ND	ND		ND
		-	ND	ND	ND	ND		ND
	HCl	200	34	26	16	25		32
	PM 2.5	60	51.8	49.8	38.8	33.2		40.3
Haria water tank	PM10	100	7.6	7.5	71	7.6		7.2
	SO2	80			6.8			7.6
	NOx	80	8.6	7.9	0.0	8.5	1.9	7.0

minoma	850	ND	ND	ND	ND
HC1	200	ND	ND	ND	ND

Table 4: Noise level monitoring data (Day Time)

Sr. No.	Location		Permissible Limits, dBA					
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	75
1	Near Main guest house	66.5	67.4	66.8	63.1	60.8	64.2	75
2	Near TSDF	67.2	62.5	64.3	63.7	62.8	64.4	75
3	At Wyeth Colony	61.3	63.1	65.5	62.4	59.8	63.2	75
4	Gram Panchayat Hall	68.4	60.8	61.2	61.2	60.3	61.5	75
5	Near Main Office North site	65.3	61.3	62.7	65.4	62.3	64.4	75
6	ETP North site	63.3	62.4	63.5	66.2	64.7	66.8	75
7	Opposite shed D	68.1	68.2	67.5	64.3	63.1	63.2	75
8	ETP West site	62.4	64.3	65.6	65.7	62.8	65.2	75
9	Water tank Haria road	60.8	63.7	64.3	62.1	63.1	63.2	75
10	Near 66KVA substation	63.1	62.4	63.7	64.9	61.6	64.4	75

Table 5: Noise level monitoring data (Night Time)

Sr. No.	Location		Permissible Limits, dBA					
		May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	70
1	Near Main guest house	58.6	54.8	55.1	53.2	49.3	52.8	70
2	Near TSDF	61.1	55.6	54.4	56.1	52.6	55.3	70
3	At Wyeth Colony	50.1	53.7	52.7	51.3	48.2	51.5	70
4	Gram Panchayat Hall	51.3	52.1	53.3	52.3	51.6	52.4	70
5	Near Main Office North site	56.8	55.2	54.2	55.4	56.8	54.4	70
6	ETP North site	53.6	51.2	50.3	52.4	54.7	53.3	70
7	Opposite shed D	55.3	52.7	53.3	53.2	56.5	52.8	70
8	ETP West site	54.9	53.6	52.8	54.7	52.2	55.2	70
9	Water tank Haria road	47.3	48.1	47.2	53.8	51.8	54.4	70
10	Near 66KVA substation	49.1	49.5	48.5	51.3	52.7	52.7	70