



Atul 396020, Gujarat, India Telephone: (+91 2632) 230000 | 233261 Telefax: (+91 2632) 233027 | 233619

CIN: L99999GJ1975PLC002859 Email: atul_infra@atul.co.in Website: www.atul.co.in

Ref : Atul/SHE/EC Compliance/07

Through Reg. AD Post

Date: 30th November, 2017

To,

Regional Officer,

Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, E-5, Ravi Shankar Nagar, Bhopal 462016, Madhya Pradesh.

: Six Monthly Compliance on EC/CRZ Condition

Reference: 1. EC F. No. J-11011/48/2003- IA II (I) dated 20.02.2004

2. EC F. No. J -11011/85/2009- IA II (I) dated 13.05.2009

3. CRZ Clearance No. ENV-1097-2942-P, dated 17.01.1998

Respected Sir,

Please find attached herewith six monthly compliance reports for the period of May 2017- October 2017 with respect to the above referred Environment Clearances granted to M/s Atul Ltd. Valsad, Gujarat.

We hereby request you to kindly validate the same.

Kindly do the needful and oblige.

Thanking you.

Yours truly,

For ATUL LIMITED,

(B. N. Mohanan)

Whole time Director & President - Utility & Services

CC: 1. Mr. B. R. Naidu (Scientist 'E' & In charge), Central Pollution Control Board, Zonal Office, Vadodara

2. The Member Secretary, Gujarat Pollution Control Board, Gandhinagar



Atul Limited

Project: Expansion of Pesticide and Synthetic Organic Chemicals manufacturing unit at post Atul, Dist. Valsad EC Compliance Report for the period May 2017 – October 2017as per EC F. No. J -11011/85/2009-IA II (I) dated 13.05.2009

No.	Condition		Compliance					(-)				
A. Sp	ecific Conditions		-									
i	Industrial Waste water generation exceed 17,283 m ³ /d.	n shall not										
			Wastewater generation m³/day	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total		
			Month wise	252740	235340	190201	224370	233190	307040	1442881		
			Per day	8153	7845	6136	7238	7773	9905	Avg. 7841		
			below: Wastewater g	eneration	5	Stipulated	value	Values for the period May 17 – Oct 17 Min. Max. Avg.		vg.		
			wastewater g	wastewater generation Stipulated value			varue	May 17				
			Wastewater ge	neration m	n^3/d 1	17283				841		
	23 m ³ /d High COD effluent shall be	incinerated.	being taken fo ppm is finally All the high (incineration. Phenolics, etc	r recovery sent to E7 COD strea Streams . are takes	to get ec IP for tre ams are contain n for the	onomic be atment. being div ing Amm recovery	201 224370 2 6 7238 7 coliance period continue stipulated ated value Streams (COD sic benefit. Rest 1 ant. diverted to recommonia, Methorery of the same	st lean el recovery ethanol, me and	>50000 ppm) and same is lean effluent of COD <2000 ecovery system rather than thanol, Copper, Solvents are and reused. Hence, then and therefore no incineration			

97 m ³ /d High TDS effluent shall be evaporated through MEE.	Complied. To MEE. Detail 1					vaste wat	ter was e	vaporated	
	High TDS effluent m ³	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total	
	Month wise	3533.9	3200.6	2954.9	3733.7	3179.1	4025.5	20627.7	
	Per day	113.9	106.7	98.5	124.5	105.9	134.2	Avg . 113.9	
				1 M	7 Iin.	Max.	Avg.		
	High TDS effluent Values for the period May 17 -						- Oct		
	m^3/d				8.5	134.2	113.9		
Total quantity of 17283 m ³ /d shall be treated at company's own effluent treatment plant.	High TDS effluent generation is variable as per the production.								
	Complied . The average 7841 m³/day wastewater was treated in the company's own effluent treatment plant during the reporting period.								
Final Discharge of Treated effluent is being discharge into river par through 4 km line			_		_	-	lution co	ntrol boar	

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:

Amm. bearing effluent	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total
KL	320	347	364	325	325	369	2050

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-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total
DCP crude distilled	1185.6	1209.5	1544.7	1576.62	1630.2	1664.4	8811.02
2,4DCP recovered	1040	1061	1355	1383	1430	1460	7729
2.6DCP recovered	78	79.57	101.625	103.725	107.25	109.5	579.67
OCP/ Residue	67.6	68.93	88.075	89.895	92.95	94.9	502.35

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. 25)

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 f	for the per t 17	riod May
			Min.	Max.	Avg.
1	рН	5.5-9.0	7	7.5	7.3
2	Temperature	40 deg C	28	30	28.8
3	Colour (pt. co. scale)in units		35	62	46.7
4	Suspended solids	100 mg/l	39	68	48.5
5	Phenolic Compounds	5 mg/l	0.2	0.7	0.5
6	Cyanides	0.2 mg/1	0	0	0
7	Fluorides	2 mg/1	0	0	0
8	Sulphides	2 mg/1	0.1	0.2	0.2
9	Ammonical Nitrogen	50 mg/1	16	38	29.3
10	Total Chromium	2 mg/l	0.01	0.2	0.1
11	Hexavalent Chromium	1 mg/l	0	0	0
12	BOD (3 days at 27°C)	100 mg/l	32	48	39.3
13	COD	250 mg/l	198	232	215.7

	The domestic effluent shall be disposed off through septic tank / soak pit.	Complied . Domestic effluent goes to septic tank / soak pit and finally diverted to ETP. Detail of Domestic effluent generation is given in below table:								
		Domestic Wastewater generation m ³	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total	
		Month wise	11234	10458	9912	9731	10229	13167	64730	
		Per day	362	349	320	314	341	425	352 (Avg.)	
		The maximum, Domestic Wast			1	Values fo	given belo		7 – Oct	
					-	Min.	Max.	Avg.		
		Domestic Waste		314	425	352				
Ì	The process emissions (SO ₂ , NH ₃ , Cl ₂ , and HCl, shall be scrubbed with Scrubbers.	Complied . All the SO ₂ , NH ₃ , Cl ₂ , and HCl vents are being routed through adequate and properly designed scrubbing system. Furthermore, most of the process and flue gas stacks have been monitored through online monitoring system and also connected to GPCB and CPCB website.								
	The emission shall be dispersed through stack of adequate height as per CPCB standard.	Complied. The emission is dispersed through adequate height of stacks as particles of CPCB standard as given below:							acks as pe	
		For Incinerator	Minimu	ım stack	height sh	nall be 30) meters a	above gro	und.	
		For Boilers: Stack Height H=14(Q) ^{0.3} Details of stack results along with its height data is given in Table 2 no. 26) Gaseous emissions from process units are monitored r monthly basis.								
		During the report period no case varies from standard.								

	The gaseous emission from the DG sets shall be	Complied . The gaseous emission from the DG sets is being dispersed through
	dispersed through stack of adequate height as	stack of adequate height as per CPCB standards given below:
	per CPCB standards.	The minimum height of stack is provided using the following formula (ref. CPCB): $H = h + 0.2x\sqrt{KVA}$ H =Total height of stack in meter h =Height of the building in meters where the generator set is installed KVA = Total generator capacity of the set in KVA
		However, DG sets are being used only during emergency startups.
	Acoustic enclosures shall be provided to the DG	Complied . All DG sets are having inbuilt acoustic enclosures to control the noise
	set to control the noise pollution.	pollution and meeting the prescribed norms.
iii	The company shall upload the status of compliance of stipulated environmental clearance conditions including results of monitored data on its web site.	conditions including results of monitored data is posted on our web site. And it
	Status of compliance of stipulated environmental clearance conditions to be sent to Regional office of MoEF, the respective Zonal office of CPCB and the state pollution control board.	conditions are regularly submitted to the regional office of MoEF, zonal 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. 26,30,32)

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 Stack results:

No.	Parameter	Standard values as	Unit	Values for the period May 17 – Oct 17				
		per CCA		Min.	Max.	Avg.		
1	SO_2	40	mg/Nm³	2.9	6.8	5.2		
2	SO ₂ (kg/T)	2	kg/T	0.5	0.8	0.6		
3	NOx	25	mg/Nm ³	3.4	12.8	6.9		
4	HC1	20	mg/Nm ³	3.5	6.8	5.7		
5	PM	150	mg/Nm³	4.2	45	25.2		
6	PM with Pesticide compound	20	mg/Nm³	4.8	7.8	6.2		

Summary of Ambient Air Quality results:

Station	Parameter	Limit microgm/NM ³	Values for the period M 17 - Oct 17				
			Min.	Max.	Avg.		
66 KV	RSPM (PM2.5)	60	22.0	29.0	26.3		
	PM10	100	48.0	59.0	55.0		
	SO2	80	8.2	56.0	17.0		
	NOx	80	9.5	11.8	10.4		

TT			1.55	1		
	Ammonia	850	ND	10.2	1.7	_
	HC1	200	ND	5.6	1.7	_
Opposite	RSPM (PM2.5)	60	27.0	35.0	30.7	
Shed D	PM10	100	49.0	59.0	53.5	
	SO2	80	10.4	11.2	10.6	
	NOx	80	11.2	13.6	11.9	
	Ammonia	850	13.4	18.2	15.6	
	HC1	200	ND	ND	ND	
Near West	RSPM (PM2.5)	60	31.0	38.0	33.8	
site ETP	PM10	100	51.0	58.0	55.0	
	SO2	80	10.2	11.2	10.7	
	NOx	80	12.2	13.2	12.6	•
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
Near North	RSPM (PM2.5)	60	30.0	37.0	33.2	
ETP	PM10	100	49.0	56.0	53.5	
	SO2	80	9.6	10.8	10.1	
	NOx	80	1.4	13.6	9.9	
	Ammonia	850	11.2	14.6	13.1	1
	HC1	200	ND	ND	ND	•
TSDF	RSPM (PM2.5)	60	30.0	38.0	35.5	
	PM10	100	52.0	59.0	56.5	
	SO2	80	9.6	12.2	11.2	
	NOx	80	11.4	14.6	13.1	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	1
Main Guest	RSPM (PM2.5)	60	20.0	28.0	22.3	-
House	PM10	100	45.0	52.0	49.0	1

	1 500	T 00	T	T		
	SO2	80	10.2	11.2	10.5	
	NOx	80	10.8	12.6	11.5	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
Wyeth	RSPM (PM2.5)	60	20.0	27.0	23.5	
Colony	PM10	100	46.0	54.0	50.7	
	SO2	80	8.6	11.4	9.7	
	NOx	80	9.2	12.8	10.8	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
Gram	RSPM (PM2.5)	60	21.0	26.0	23.8	
panchayat hall	PM10	100	46.0	54.0	49.7	
	SO2	80	9.2	10.2	9.6	
	NOx	80	9.6	11.4	10.7	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
Main office,	RSPM (PM2.5)	60	23.0	35.0	27.3	
North site	PM10	100	47.0	59.0	54.3	
	SO2	80	9.6	12.8	11.5	
	NOx	80	10.2	13.4	12.3	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
Haria water	RSPM (PM2.5)	60	20.0	28.0	24.0	
tank	PM10	100	38.2	52.0	45.5	
	SO2	80	6.2	9.3	7.4	
	NOx	80	7.6	10.8	9.3	
	Ammonia	850	ND	ND	ND	
	HC1	200	ND	ND	ND	
· · · · · · · · · · · · · · · · · · ·			•	•	0 600	

Summary	of VOC resu	lts:				
Plant	Area	Parameter	Prescribed Limit	Milligram per NM ³ for th period May 17 – Oct 17		
				Min.	Max.	Avg.
2,4 D	Reactor	Phenol	19	0.10	12.60	7.07
	Buffer tank	Chlorine	3	0.14	1.10	0.43
Resorcinol	Benzene storage tank area near vent	Benzene	15	0.80	2.80	1.51
	Near Extraction /scrubber unit	Butyl acetate	-	0.00	0.17	0.08
Pharma	At second floor work area	Ammonia	0.8	0.44	2.10	0.96
	Ammonia recovery area	Ammonia	0.8	0.69	5.20	3.28
Epoxy - I	At vacuum pump 2nd floor	ECH	10	3.80	9.10	7.48
	At vessel POS 1208 G.F	ECH	10	5.20	8.78	7.06
Shed H	At second floor work area	Nitrobenzene	5	1.70	3.76	2.61
Shed J	Buffer Tank	Chlorine	3	0.13	1.10	0.46

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

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 water consumption:

Water Consumption Break up m ³								
Water co	Total							
Process	Cooling	Domestic						
238718	28084	14042	280844					
205912	42460	13072	261444					
190201	44465	12390	247056					
187141	44685	12164	243990					
192728	45160	12786	250674					
258693	58695	16459	333847					
	Water co. Process 238718 205912 190201 187141 192728	Water consumption Process Cooling 238718 28084 205912 42460 190201 44465 187141 44685 192728 45160	Water consumption in Process Cooling Domestic 238718 28084 14042 205912 42460 13072 190201 44465 12390 187141 44685 12164 192728 45160 12786					

The company shall obtain Authorization for Collection; Storage and Disposal of Hazardous waste under the hazardous waste management

 \mathbf{v}

Complied. We have obtained authorization for our own TSDF through GPCB notification no. GPCB/HAZ/GEN-55/9647 dated 13th March 2000 and NOC no. CTE-65621 dated 19/11/2014. Also we have valid authorization under our

	(Handling and trans boundary movement rule-	current CCA No. AWH-67717 for handling, storage and disposal of hazardous				
	2008) for management of hazardous waste and					
		waste.				
	prior permission from GPCB shall be obtained	Copy of the same was submitted to Ministry vide our letter				
	for disposal of solid waste in the TSDF.	Atul/SHE/MoEF/Visit/3 dated 4.4.17.				
	The concerned company shall undertake	Compiled . Company is having two nos. of fire tenders, fully adequate hydrant				
	measures for the firefighting facility in case of	system and trained staff, emergency response team(ERT) of trained workers,				
	emergency.	power supply from two source with emergency backup power provision from DG				
		set as well grid and detailed on-site emergency plan. Mock drills are also carried				
		out at regular interval.				
vi	The project authorities shall strictly comply	Complied . We are complying with all the requirement of MSIHC rule 1989 as				
	with the rules and guidelines under	amended in October, 1994 and January, 2000 and having proper storage and				
	manufacturing, storage and import of	handling system, Onsite emergency plan, Licenses, reporting, etc.				
	hazardous chemicals rule 1989 as amended in	The company complies with all stipulated norms of act made in CCA by GPCB				
	October, 1994 and January, 2000.	are being complied. Latest compliance report by GPCB appointed Environmental				
	october, 1994 and candary, 2000.	auditor Shroff S R Rotary Institute of Chemical Technology, Vatariya, Dist.				
		Bharuch for year 16-17 is attached as Annexure 1 .				
	All Transportation of Hazardous chemicals shall					
	be as per the MVA, 1989.					
	• ,	provided to transporter.				
vii	The company shall undertake waste	Complied . All the liquid ingredients are being charged through measure vessels				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	minimization measures :	and/or flow meters to control on quantity as per the stoichiometry. All the solid				
	minimization measures.	ingredients are charged after proper weighment only. All these meters and				
	Metering and control of quantities of active	weighing machines are calibrated and records are maintained.				
	ingredients to minimize waste.	weighing machines are camprated and records are maintained.				
	Reuse of by products from the process as raw	Complied. Sodium Sulfate, Sodium Thio Sulphate, Brine, MEE salt, Sodium				
	materials or as raw material substitutes in other	hypochlorite, Copper Hydroxide, spent acid, etc. are few by-products from the				
	processes.	process which are being sold for using the same either as raw material or as				
	-	substitute to raw materials. Also, fly ash and Gypsum are being used as raw				
		material for Brick Manufacturing. Sodium Hypochlorite, Sodium hydro sulfide,				
		etc. are being used as raw material in other processes.				
	Use of automated filling to minimize spillage.	Complied . Automated filling system for our agro products, polymers, resorcinol,				
		dyes for small and bulk packing is provided to minimize spillage.				

	Use of 'close feed' system into batch system.	Complied . Chemicals and solvents are handled in close handling system through pipe lines only.
	Venting equipment through vapor recovery system.	Complied . All the reactors are equipped with vents/stacks, which are connected to either vapor recovery system consisting of condensers, ejector/vacuum pumps and/or scrubbers. Genosorb technology for solvent vapor recovery is also installed and working perfectly.
	Use of high pressure hoses for equipment cleaning to reduce wastewater generation.	Complied . Many equipment like reactors, spray dryers, condenser wherever necessary are being cleaned with high pressure sparger / jet to reduce waste water generation.
viii	Fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emission	Complied . Fugitive emissions in the work zone environment and raw material storage area is being regularly monitored by NABL approved third party.
	shall conform to the limits imposed by I.	Data for the reporting period is given in Table 4 (Pl. see pg. no.32). 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.	Complied . All the VOCs/solvent recovery systems are attached with chilled brine solution in secondary condenser for condensation of VOCs.
	The project authority shall ensure that solvent recovery shall not be less than 95%	Complied . On an average solvent recovery is 96%.
	The VOC monitoring shall be carried in the solvent storage area and data 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 For No. 37. VOC monitoring in solvent storage area is being done and data are submitted through EC compliance report.
		Data for the report period is given in Table 4. (Pl. see pg. no.32)
х	Solvent management shall be as follows: Reactor shall be connected to chilled brine condenser system.	Complied . All the reactors handling solvent are connected/attached with chilled brine condenser for solvent recovery.

	Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	Complied . All the reactors and pumps handling solvent are equipped with mechanical seals to prevent leakages.
	The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	Complied . The condensers provided are properly designed with respect to HTA and Residence time to achieve more than 95 % recovery. As mentioned above, average 96 % solvent recovery is being achieved.
	Solvents shall be stored in a separate space specified with all safety measures.	Complied . Solvents are stored in tank farms in separate tanks with proper earthing, flame arresters, lightening arresters, fencing, Fire hydrant system, Fire extinguishers, flame proof equipment, etc. safety measures.
	Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	Complied . Double earthing is provided and regular checking and testing of the same is being done and recorded.
	Entire plant shall be flame proof.	Complied . Plants are equipped with Jumpers, flame proof electrical fittings and proper earthing as per the Hazardous area classification of PESO.
	The solvent storage tanks shall be provided with breather valve to prevent loses.	Complied . Breather valves have been provided to all the solvent storage tanks to minimize the loses.
хi	Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys etc.	Complied . Hazardous chemicals are being stored in tanks, drums and carboys considering the storage quantity and chemical stored.
	Company shall develop an area of 33% green belt and selection of plant species shall be as per the guideline of CPCB.	Complied . Company has developed green belt and dense plantation inside and outside the factory in more than 33 % of total land. Company is having green belt development plan and planting more than about 50000 plants per year on regular basis. Green belt map is attached herewith.

xii	The company shall harvest surface as well as rain water from the roof tops of the building and storm water drain to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Complied. Company has recently constructed 6000 KL capacity pond to harvest rain water, which is the almost 75% of our per day requirement. We are creating facility/ capacity to cater our consumption with rain harvested water with zero river drawls of water during the rainy days. Besides this, there are three check dams and pumping facility to harvest rain water. We also construct temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain water in river Par. In addition to above, surface runoff water and roof top water is used to recharge bore wells. Complied. Occupational health surveillance of the workers is being done on				
xiii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	•				
		1	Quarter 1 (17-18)	1673		
		2	Quarter 2 (17-18)	870		
P C	neral Conditions:					
i B. Ge	The project authorities shall strictly adhere to	Complied	1 The company adheres to t	he compliances and has no	at exceeded the	
	the stipulations made by the State Pollution Control Board.					
		Latest compliance report by GPCB appointed Environmental auditor Shroff S R Rotary Institute of Chemical Technology, Vatariya, Dist. Bharuch for year 16-17 is attached as Annexure 1 .				
ii	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	_	Last expansion of Pesticide and Synthetic Organic Chemicals was done in 2009 for which referred EC has been sought.			
	In case of deviations or alterations in the	Thereafte	r we have planned for the e	xpansion in various existin	ng product and	

	project proposal from those submitted to this	introduction of new products for which we have applied for EC on 17.4.2015.
	Ministry for clearance, a fresh reference shall be	Our EC application is under consideration.
	made to the Ministry to assess the adequacy of	
	conditions imposed and to add additional	Expansion will be done only after getting EC.
	environmental protection measures required, if	
	any.	
iii	At no time, the emissions shall exceed the	Complied . Monthly monitoring is being done by NABL approved third party.
	prescribed limits.	At no time, the emissions exceeded the prescribed limits during report period.
	•	Summary of stack results given in specific condition no. iii.
	In the event of failure of any pollution control	Complied . No such case happened during compliance period. Whenever such
	system adopted by the units, the unit shall be	incident of failure of pollution control system happened, we will stop the
	immediately put out of operation and shall not	operation and rectify the problem and then only restart.
	be restarted until the desired efficiency has	or or manage and a contract of the contract of
	been achieved.	
iv	The Gaseous emission (NOx, HCl, SO2 and SPM)	Complied . The gaseous emissions (SO ₂ , NOx, and HCl) and particulate matters
14	and Particulate matter along with RSPM levels	from various process units confirms to the standards prescribed by GPCB
	from various process units shall conform to the	through CCA.
	standards prescribed by the concerned	Details of stack results for the compliance period is given in Table 2 . (Pl. see pg.
	authorities from time to time.	
	authornes from time to time.	no. 26)
	At no time, the emission levels shall go beyond	Complied . We will ensure that at no time emission will go beyond the standards.
	the stipulated standards.	The maximum values during the compliance period confirms that at no time the
		emission level went beyond the stipulated standards.
		Summary of stack results given in specific condition no. ii.
	In the event of failure of pollution control	Complied . No such case happened during compliance period. Stack monitoring
	system(s) adopted by the unit, the respective	for SO ₂ , NOx and SPM has been carried out and details given in Table 2 . (Pl. see
	unit shall not be restricted until the control	pg. no. 26) Whenever such incident of failure of pollution control system
	measures are rectified to achieve the desired	happened, we will stop the operation and rectify the problem and then only
	efficiency. Stack monitoring for SO ₂ , NOx and	restart.
	SPM shall be carried.	
v	The Location of ambient air quality monitoring	Complied . The Location of ambient air quality monitoring stations had been
	stations shall be decided in consultation with	decided in consultation with GPCB so that at least one station is installed in the
	state pollution control Board and it shall be	up wind and downwind direction as well as where maximum ground level

	ensured that at least one station is installed in the up wind and downwind direction as well as where maximum ground level concentration are anticipated.	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	1		
		2	Opposite Shed D			
		3	Near ETP (West Site)	-		
		4	ETP Plat (North site)			
		5	Near TSDF			
		6	Near Main Guest House			
		7				
		8 Gram panchayat hali				
		9				
		10	Water tank at Haria Road			
		Details o	of ambient air quality results is give	en in Table 3 . (Pl. see pg. no. 30)		
vi	Dedicated Scrubbers and stacks of appropriate	Complie	ed. Dedicated Scrubbers with stac	ks of appropriate height (as per the		
	height as per the central pollution control board			have been provided to control the		
	guideline shall be provided to control the			ck results along with its height data		
	emission from various vents.		in Table 2 . (Pl. see pg. no. 26)	3		
	The scrubber water shall be sent to ETP for		ed. The scrubber water is being sen	t to ETP for further treatment.		
	further treatment or sell to actual end users.	_	_			
vii	The overall noise level in and around the plant	Complie	ed. In built Acoustic enclosure, sile	encer and insulation are provided on		
	area shall be kept well within the standard by		<u> </u>	all noise level within the stipulated		
	providing noise control measures including	standard	ds like turbine, DG set, etc.			
	acoustic 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. 33)

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				
		75	Min.	Max.	Avg.	
1	Near Main guest house	75	58	65	62	
2	Near TSDF	75	61	67	63	
3	At Wyeth Colony	75	58	62	60	
4	Gram Panchayat Hall	75	58	63	60	
5	Near Main Office North site	75	57	63	59	
6	ETP North site	75	62	67	65	
7	Opposite shed D	75	62	68	65	
8	ETP West site	75	61	68	64	
9	Water tank Haria road	75	64	68	66	
10	Near 66KVA substation	75	59	67	63	

Noise level monitoring data (Night Time)

Sr. No.	Location	Permissible Limits, dBA		for the for the formula for th	-
		70	Min.	Max.	Avg.
1	Near Main guest house	70	52	58	56
2	Near TSDF	70	54	59	57

	T	По	A	70	F 1	Tee	T = 2	1
			At Wyeth Colony	70	51	55	53	
		4	Gram Panchayat Hall	70	52	58	55	
		5	Near Main Office North site	70	51	57	54	
		6	ETP North site	70	58	61	60	
		7	Opposite shed D	70	54	62	59	
		8	ETP West site	70	52	62	58	
		9	Water tank Haria road	70	56	62	58	
		10	Near 66KVA substation	70	55	62	58	
								_
viii	Training shall be imparted to all employees on	Complie	d . Company is imparting t	raining to all	new em	nlovees as	well as r	egular
VIII	safety and health aspects of chemicals	_	es at regular intervals of			- -		_
	handling.		g. Safety precautions and h					
		display boards at appropriate places in the plants.						
	Pre-employment and routine periodical medical							
	examination for all employees shall be	_	done on regular basis (Six			•	•	
	undertaken on regular basis.		3	3,				
		Data are	submitted in below table	:				
		Sr. No.	Month of Examination	Total No	o. of Em	ployees		
		1	Quarter 1 (17-18)	1673				
		2	Quarter 2 (17-18)	870				
ix	Usage of PPE's by employee/ workers shall be	Complie	d. Company have PPE pol	icy in place a	nd is st	trictly follo	wed. Con	npany
	ensured.	is provid	ing adequate PPEs to all t	he employees	•	_		
x	The project proponent shall also comply with all	Complie	d. Company has compl	ied with all	the e	nvironmer	tal prot	ection
	the environmental protection measures and	measure	s and safeguards pro	posed in	the re	eport apa	rt from	n the
	safeguards proposed in project report submitted	d recommendations made their in.						
	to the ministry.							
	All the recommendation made in respect of		R didn't suggest for EIA of					
	environmental management and risk mitigation	· · · · · · · · · · · · · · · · · · ·						
	measures relating to the project shall be	work practices.						
		_	1					
	implemented.	However	, Compliance to the recom	mendation m	ade in r	espect of a	dequacy	report

		for th	ne referred project is given belov	w:
		No.	Recommendation	Compliance
		1	Liquid incinerator also to be refurbished.	Complied. However, We have been 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 measuring	Complied. Online pH and DO monitoring
			arrangement in aeration tank	available.
		3	ETP lab should be equipped	Complied. Our ETP lab has 5 nos. of auto
			with auto sampler, auto titrator, COD digester etc.	samplers for various stages sample collections. The lab also have COD digesters.
		4	Explore possibility of more	Complied. We have replaced our surface
			efficient mode of aeration	aerators with more efficient jet aerators.
		5	Company shall initiate rain	Complied. Company has recently
				constructed 6000 KL capacity pond to 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	
		7	Auto pH control system at new	
		(rof:	Incinerator plant.	and being working at new Incinerator plant. Atmiya Institute of Technology, Rajkot 2010)
хi	The company will undertake all relevant	•		activities through its Atul Rural Development
A1	measures for improving the socio economic			d for up gradation of surrounding area and
	condition for the surrounding area, CSR			CSR activities carried out in nearby villages
	activities will be undertaken by involving local		schools is given below table :	, , ,
	villages and administration:	No.	CSR activities during 17-18	
		1 16 blood camps organized in nearby villages, total 1263 bottles collected.		
		2	1 eye camp organized in nearby v	village, total 381 patients covered.
		3	Distributed 12331 note books 29 students of 27 primary school stu	60 pencils, erasers, and ballpen etc. to adents.

		4	Food Material suppl month including co		aralaya Mama Bhacha , every	
		5			mshala, Dharampur . Cloths ribal people and provided lunch	
		6		me held at Umarsadi, Parne I units completed in the yea	era , Survada, Atul and Sukesh er 2017-18.	
		7	lacs.	,	vad street total exp. Rs. 5.96	
		8	Road development v lacs.	work at Parnera Hillock, Atu	ll Village total exp. Rs. 10.40	
		9	Construction of con	npound wall at flood effected	l in 2015-16 at Muktidham Atul	
		Promotions of Sports activity through Ulhas Gymkhana (Inter Village Volley Ball tournament) exp. Rs. 2.29 Lacs.				
		11 14 programmes on vocational training arranged, 375 students attended.			,	
		The summary of expense occurred in CSR activities for last year is listed below			ies for last year is listed below:	
		Fi	nancial year	Amount (Rs. in lakhs)		
		20)16-17 (actual)	660		
		20)17-18 (budgeted)	750		
xii	The company shall undertake eco	Com	plied as mentioned	l in xi above.		
	developmental measures including community welfare measures in the project area for the					
	overall improvement of the environment.	0	-1:-4 O	in Innerior comments Dur	-increased Management Call	
xiii	A Separate environmental management cell equipped with full flagged laboratory facility				vironmental Management Cell to carry out the environment	
	shall be set up to carry out the environmental				from this, one Environment	
	management and monitoring function.	Rese	arch Lab is also e	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				
					meter, TDS meter, COD meter,	
			2 1 11	* * *	en, muffle furnace, etc. to carry	

	1				
			neters. However sampling a	0	
			ompany appointed consult		itly the
		-	ouse are pH, COD, TDS, MLV	,	
xiv	The project authorities shall earmark adequate	_	are implemented by 2010	and many thing	gs have
	funds to implement the conditions stipulated	already been at place.			
	by the Ministry of Environment and Forest as	Non recurring cost: Rs. 5.	0.0-		
	well as the State Government along with the	_	budget is being allocated e	very vear to comr	olar arrith
	implementation schedule for all the conditions		pulated by SPCB, CPCB & N		
	stipulated herein. The funds so provided shall not be diverted for any other purposes.		and facilities. Total expendi	-	
	not be diverted for any other purposes.	is given in below table.	and identities. Total emperior	care for the report	c period
		Expenditure for months	Particular	Expenses Rs.]
			Fuel	685121	1
			Chemicals(Raw Material)	66509539	1
		May- 2017 to October 2017	Electricity	26951192	1
		Including, recurring	Waste disposal	19107766	
		maintenance, modifications and monitoring.	Salary	16153895]
			Maintenance & modifications	16653743	
			Monitoring	7466957	
			Total	153528213]
xv	A copy of the clearance letter shall be sent by	Complied. Latest submission	on to the Panchayat, Zila par	ishad, District Ind	dustrial
	the proponent to concerned Panchayat, Zila	Centre was distributed on	11.11.2016. Copy of the	same was submi	itted to
	parishad/Municipal Corporation. Urban local	Ministry vide our letter Atul	/SHE/MoEF/Visit/3 dated	4.4.17.	
	body and the local NGO, if any, from who				
	suggestions/representation, if any, were				
	received while processing the proposal.				
	The clearance letter shall also be put on the web	Complied . Available	1 3		at
	site of the company by the proponent.	expansion-2009.pdf	ainability/pdf/Atul-Environ	mental-Clearance	e-ior-
xvi	The implementation of the project vis-à-vis	± ±	is monitoring through their	regular visits	
VAI	The implementation of the project vis-a-vis	Complied. Seed and Mode	is monitoring unough then	regular visits.	

	environmental action plan shall be monitored	
	by Ministry's Regional office at Bhopal / SPCB	
••	/ CPCB.	W ' C 141 11' 4 1 1 4 1 1 1
xvii	The Project Proponent shall inform the public	We informed the public through advertisement and by sending our EC to local
	that the project has been accorded	Panchayat, Zila parishad, District Industrial Centre for further actions at their
	environmental clearance by the Ministry and	end.
	copies of the clearance letter are available with	
	the SPCB/Committee and may also be seen at	
	website of the Ministry of Environment and	
	Forest at http://www.envfor.ni.in.	Ad
	This shall be advertised within seven days from the date of issue of the clearance letter at least	Advertisement was published as directed and copy of the same was submitted to
		Ministry vide our letter dated 14.11.2009.
	in two local newspaper that are widely	
	circulated in the region of which one shall be in the vernacular language of the locality	
	concerned and a copy of the same shall be	
	forwarded to the concerned Ministry's Regional	
	office at Bhopal.	
xviii	The project authorities shall inform the	Complied.
AVIII	Regional Office as well as the Ministry, the date	Start date : May 2009
	of financial closures and final approval of the	Completion date: May 2010
	project by the concerned authorities and the	Final approval: We have obtained NOC and CCA from GPCB.
	date of start of the project.	Company has funded the project internally and hence not submitted the
	auto of start of the project.	financial closure details.
8	The Ministry may revoke or suspend the	Noted.
	clearance if implementation of any of the above	
	conditions is not satisfactory.	
9	The Ministry reserves the right to stipulate	Noted and will be complied.
	additional conditions, if found necessary. The	*
	company in a time bound manner will	
	implement these conditions.	
10	Any appeal against this Environment clearance	Noted.
	shall lie with the national appellate authority, if	

preferred, within a period of 30 days as prescribed under section 11 of National	
Environment Appellate Authority Act, 1997.	
11 The above conditions will be enforced, inter-alia	Noted.
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.	

 $\ \, \textbf{Table 1: Quality of treated effluent} \\$

Sr. No.	Parameter			Res	ults			GPCB Limits
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	
1	рН	7.1	7.2	7.5	7	7.2	7.5	5.5 to 9.0
2	Temperature °C	30	29	28	28	29	29	40 °C
3	Colour (pt. co. scale)in units	58	62	35	42	35	48	
4	Suspended solids, mg/l	68	54	43	46	39	41	100
5	Phenolic Compounds, mg/l	0.5	0.7	0.2	0.7	0.2	0.5	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	0.1	0.1	0.2	0.1	0.2	2
9	Ammonical Nitrogen, mg/l	36	38	28	16	22	36	50
10	Total Chromium, mg/l	0.2	0.1	0.02	0.01	0.02	0.01	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	40	38	32	36	42	48	100
13	COD, mg/l	226	212	198	202	224	232	250
Note: 1	ND is Not Detectable.	•	·		•	•	•	•

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Table 2 :	Stack Monitoring Details															
Sr. No.	Stack Details	Permissible Limits	Stack Height m	Paramenter	Date of Sampling	Obtained Value										
Atul East	Site															
1	Phosgene Plant	0.1 ppm	15	Phosgene	16/5/17	ND	7/6/17	ND	6/7/17	ND	4/8/17	ND	7/9/17	ND	5/10/17	ND
2	Dechlorination Plant	9.0 mg/Nm3	35	CI 2		Not Runnig	9/6/17	3.2	6/7/17	3.6	10/8/17	3.8	7/9/17	3.6	6/10/17	3.8
_		20.0 mg/Nm3		HCI		During Visit		5.1		5.4		5.2		5.6		6.1
3	Common stack of Hcl Sigri unit 1& 2	9.0 mg/Nm3	25	CI 2				2.8	-	2.6	-	2.8	-	3.1	4	4.1
FCB	unit 166 2	20.0 mg/Nm3		HCI				6.2		5.8		6.2		6.4		6.8
4	Foul Gas Scubber	40.0 mg/Nm3	26.5	SO2		Not in use										
	Tour das seasser	25.0 mg/Nm3	20.0	NOx		Not in use										
0.10	1 1177 (0:1)			1												_
Sulfuric A	Acid (East Side) Sulfuric Acid plant	2.0 kg/T	30	SO2	17/5/17	0.6	14/6/17	0.5	8/7/17	0.6	4/8/17	0.7	4/9/17	0.6	7/10/17	0.8
	Summe Acia piant	50.0 mg/Nm3	30	Acid Mist	11/3/11	6.3	17,0/1/	7.2	3,1,11	6.8	7/0/1/	6.6	7/2/1/	6.7	1,10,11	7.5
6	ChloroSulfonic Acid plant	9.0 mg/Nm3	11	CI 2	+	5.5	1	3.8	1	3.2	1	3.4	1	3.6	1	4.1
ľ	reactor	20.0 mg/Nm3	1	HCI		5.4		5.8		5.2		5.6		5.9		6.3
Incinerat	or	3, 22	1	-		1	<u> </u>			†						<u> </u>
7	Incinerator	150.0 mg/Nm3	40	PM	10/5/17	26	21/6/17	28	14/7/17	26	12/8/17	24	15/9/17	28	12/10/17	31
		40.0 mg/Nm3		SO2		2.9		3.2		3.5		3.6		3.8		4.2
		25.0 mg/Nm3		Nox		11.8		12.8		11.2		10.8		11.2		10.8
NI Plant																
8	Foul Gas Scubber	40.0 mg/Nm3	26.5	SO2	22/5/17	5.8	21/6/17		14/7/17	5.6	12/8/17	5.3	15/9/17	5.6	13/10/17	5.9
		25.0 mg/Nm3		Nox		5.2		4.2		3.8		3.4		3.6		4.2
NBD Plan										ļ.,						
9	Spray Dryer	150.0 mg/Nm3	21	PM		Not Runnig During Visit										
2-4-D Pla																
10	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12	19/5/17	2.6	15/6/17	2.2	21/7/07	2.6	19/8/17	2.4	27/9/17	3.1	17/10/17	4.6
		20.0 mg/Nm3		HCI		5.6		6.1		5.8		5.2		6.5		6.1
11	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12		3.6		3.4		3.1		3.8		3.4		3.8
		20.0 mg/Nm3		HCI		5.8		5.4		5.6		5.4		6.2		5.8
12	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12		3.4		3.2		3.4		3.1		3.4		3.6
10	011 : 045 1 .	20.0 mg/Nm3	06.5	HCI Cl2		5.4 3.2		5.1		5.4 3.8		5.1 3.2		5.8	1	5.2 3.1
13	Chlorinator, 2,4 D plant	9.0 mg/Nm3 20.0 mg/Nm3	26.5	HCI	-	6.8		3.6 6.4	-	6.2		6.4	-	3.6 6.2	1	5.7
14	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	Cl2		3.6	-	3.1	1	2.8	-	2.7	-	2.9	-	3.2
14	Cinormator, 2,+ D plant	20.0 mg/Nm3	20.0	HCI		6.4		6.2		5.6		5.8		5.7	-	5.8
15	Common Scrubber; 2,4D	9.0 mg/Nm3	5	C12	-	3.4	1	3.8	1	3.4	1	3.6	1	3.5	1	3.3
	Plant	20.0 mg/Nm3	1	HCI	1	6.2	1	5.8	1	5.4	1	5.7	1	5.4	1	5.7
16	Dryer-1	20.0 mg/Nm3	26.5	PM with Pesticide	18/5/17	6.8	14/6/17	6.4	22/7/17	5.8	18/8/17	5.2	13/9/17	5.5	16/10/17	6.2
17	Dryer-2	20.0 mg/Nm3	26.5	PM with Pesticide		7.2	1	7.8		6.2		5.8		5.2		4.8
18	Dryer-3	20.0 mg/Nm3	26.5	PM with Pesticide		5.6		6.8		5.4		6.2		6.8		5
19	Dryer-4	20.0 mg/Nm3	26.5	PM with Pesticide		5.8	1	7.2		6.8		6.8		7.2		6.5
20	Common Scrubber; 2,4D Plant		5	Phenol	19/5/17	ND	15/6/17	ND	21/7/07	ND	19/8/17	ND	27/9/17	ND	17/10/17	ND
			•		_ ·				•							

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CP Plan	t	Permissible Limits	Stack Height m	Paramenter	Date of Sampling	Obtained Value		Obtained Value	Date of Sampling	Obtained Value						
21	MCPA	9 mg/NM ³	19	CL_2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/NM ³		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
		40 mg/NM ³		SO_2												
22	Fipronil	40 mg/NM ³	19	SO2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/Nm3		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
23	Imidacloprid	175 mg/Nm3	20	NH3		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
						During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
24	Pyrathroids	40 mg/Nm3	19	SO2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/Nm3		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
25	Stack at Amine Plant	175 mg/Nm3	5	NH3		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit	28/9/17	3.6	17/10/17	3.2
MPSL P	lant															
26	Phosgene Scrubbr at MPSL	0.1 ppm	7	Phosgene	22/5/17	ND	21/6/17	ND	27/7/17	ND	24/8/17	ND	21/9/17	ND	18/10/17	ND
27	Central Scrubber at MPSL	0.1 ppm	7	Phosgene		ND		ND		ND		ND		ND		ND
NICO P	lant															
28	Central scrubber at Nico Plant		12	Acetonytryle, IPA		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
Ester P	alnt															
29	Scrubber at Ester plant for Glyphosate	10 mg/Nm3	12	Formaldehyde		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
30	Central Scrubber MCPA Plant	20 mg/Nm3	19	HCL												
Atul We																
31	Shed A7/14/41 Reaction	2.0 mg/Nm3	19	Bromine		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
	pan/ D tank	25.0 mg/Nm3		NOx		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit

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		Permissible	Stack	Paramenter	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained
		Limits	Height m		Sampling	Value	Sampling		Sampling			Value	Sampling	Value	Sampling	Value
32	Shed B2/12/24 Reaction	9.0 mg/Nm3	19	C12	4/5/17	4.8	16/6/17	4.6	13/7/17	4.2	25/8/17	4.5	21/9/17	4.8	18/10/17	5.2
	Vessel	20.0 mg/Nm3		HCI		5.6		5.2		4.9		5.2		5.6		4.6
33	Shed C5/20/15 Chlorinator	9.0 mg/Nm3	19	C12	5/5/17	5.4	22/6/17	5.1		5.3		5.1	22/9/17	4.9	18/10/17	5.6
		20.0 mg/Nm3		HCI	1	5.2		5.5	1	5.8	1	6.2		5.4		4.3
34	Shed D Niro Spray dryer No.45	150.0 mg/Nm3	19	PM	4/5/17	4.6	23/6/17	4.4	15/7/17	4.6	11/8/17	4.2	22/9/17	6.5	26/10/17	6.3
35	Shed D Niro Spray dryer No. 50	150.0 mg/Nm3	19	PM		5.3		5.6		5.2		5.8		6.2		5.7
36	Shed E 7/12/49 Spray Dryer	150.0 mg/Nm3	19	PM	11/5/17	5.7	15/6/17	5.2	21/7/17	5.8	26/8/17	6.8	23/9/17	7.5	26/10/17	7.1
37	Shed F 6/1/15 Reaction Vessel	9.0 mg/Nm3	19	C12	12/5/17	5.3	23/6/17	4.8		4.4		4.8		5.2	18/10/17	5.8
	Vedder	20.0 mg/Nm3		HCI		6.2		5.2		5.6		5.2		5.8		6.4
38	Shed G 10/8/1 (receiver)	9.0 mg/Nm3	19	C12		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20.0 mg/Nm3		HCI	1	During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
39	Shed H 1/6/17 Chlorinator	9.0 mg/Nm3	19	C12	22/5/17	4.2	28/6/17	4.6	22/7/17	4.8		Not Runnig	22/9/17	1.8	18/10/17	2.1
		20.0 mg/Nm3		HCI		5.6		5.2		5.6		During Visit		3.5		4.1
40	Shed K K-13/3/4 Final of	2.0 kg/T	19	SO2	23/5/17	0.6		0.5	1	0.6	31/8/17	0.8	22/9/17	0.6	26/10/17	0.8
	Sulfuric acid plant	50.0 mg/Nm3		Acid Mist		5		4		5		8		7		9
Atul No	rth Site															
41	N-FDH Plant Catalytic	150.0 mg/Nm3	31.5	PM	29/5/17	19	21/6/17	17	20/7/17	18	24/8/17	15	13/9/17	19	5/10/17	22
	Incinerator	40.0 mg/Nm3		SO2	1	6.8		6.2	1	6.3	1	6.2		6.8		6.2
		25.0 mg/Nm3		Nox		5.4		5.1	Ī	5.4		5.1		5.6		5.1
		10.0 mg/Nm3		Formaldehyde		ND		ND		ND		ND		ND		ND
42	PHIN Plant	0.1 ppm	15.5	Phosgene	30/5/17	ND	8/6/17	ND		ND	17/8/17	ND	5/9/17	ND	26/10/17	ND
43	DCDPS Plant		30	SO3		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
44	DDS Plant	175 mg/Nm3	20	NH3	28/12/20 16	Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
45	SPIC II Plant		30	SO3	29/5/17	2.4	9/6/17	2.1	20/7/17	2.6	17/8/17	-	5/9/17	2.6	26/10/17	3.1
46	SPIC I Plant	175 mg/Nm3	30	NH3	30/5/17	3.1	1	2.9		3.2		3.1		3.5	27/10/17	4.3
		1	1	1	1	1	<u> </u>	I	1	1	1	1	1	D 00 -f 22		l .

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Details of	Flue gas stack	Permissible	Stack	Paramenter	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained
		Limits	Height m		Sampling	Value	Sampling	Value	Sampling	Value	Sampling	Value	Sampling	Value	Sampling	Value
East site																
1	FBC boiler El	150.0 mg/Nm3	34	SPM	23/5/17	35	28/6/17	33	27/7/17	32	30/8/17	35	20/9/17	37	27/10/17	39
		100 ppm		SO2	7 '	31	- ' '	28	- ' '	26	- ' '	36	1 ' '	36	- ' '	37
		50 ppm		Nox		33		31		29		31	1	39		33
2	FBC boiler E2	150.0 mg/Nm3	34	SPM		32		36		34		31	-	35		35
-	The boller B2	100.0 mg/ mio		OI W		02		00		01		01				00
		100 ppm		SO2		30		32		30		33		36		34
		50 ppm		Nox		32		35		33		35		38		36
3	FBC boiler No.3	150.0 mg/Nm3	50	SPM		36		32	1	35		38		34		33
		100 ppm	_	SO2		33	_	30		28		31	_	33		31
		50 ppm		Nox		35		33		32		34		36		37
4	Hot Oil Unit (Resorcinol Plant)	150.0 mg/Nm3	32.5	SPM		ND		ND		ND		ND		ND		ND
	,	100 ppm		SO2		ND		ND		ND		ND		ND		ND
1		50 ppm		Nox		29		26		28		26		28		30
West Site	!															
5	FBC boiler W1	150.0 mg/Nm3	45	SPM	24/5/17	34	29/6/17	32	28/7/17	31	18/8/17	34	21/9/17	36	28/10/17	38
		100 ppm		SO2		31		29		28		31	-	32		34
		50 ppm		Nox		36		33		33		35	-	38 Discarded		36
6	Coal fired Boiler W1	150.0 mg/Nm3	35	SPM		Discarded		Discarded		Discarded		Discarded				Discarded
	Coar in ea Boiler W1	100.0 mg/ Hillo 100 ppm	00	SO2		Discarded		Discaraca		Discarded		Discarded		Discarded		Discarded
		50 ppm	_	Nox	-											
7	Coal fired boiler W2	150.0 mg/Nm3	25	SPM		Discarded		Discarded		Discarded		Discarded		Discarded		Discarded
'	Coar med boner w2	100 ppm	33	SO2	-	Discarded		Discarded		Discarded		Discarded		Discarded		Discarded
		50 ppm	-	Nox	-											
8	Hot Oil Plant shed-B	150.0 mg/Nm3	10	SPM	24/5/17	ND	29/6/17	NID	28/7/17	ND	18/8/17	ND	21/9/17	ND	28/10/17	ND
8	Hot Oil Plant sned-B		19		24/5/17		29/6/17	ND	28/1/11	ND ND	18/8/1/		21/9/17	ND ND	28/10/17	ND ND
		100 ppm		SO2	_	ND 26	_	ND 24		ND 24		ND	_	ND 29		31
_		50 ppm		Nox						<u> </u>		26				1
9	Oil burner Shed B (Standby)	150.0 mg/Nm3	17	SPM		STAND BY		STAND BY		STAND BY		STAND BY		STAND BY		STAND BY
		100 ppm		SO2												
		50 ppm		Nox	4					1		4				
10	Boiler (50 TPH 2 Nos)	50.0 mg/Nm3	108	PM	29/5/17	38	24/6/17	35	29/7/17	34	5/8/17	32	23/9/17	38	7/10/17	40
		100 ppm		SO2		35		32		30		35		35		38
		50 ppm		Nox		36		34		28		31		37		36
				Mercury		ND		ND		ND		ND		ND		ND
11	DG set 1500 KVA (Standby)	150.0 mg/Nm3	12	SPM		STAND BY		STAND BY		STAND BY		STAND BY		STAND BY		STAND BY
		100 ppm		SO2												
		50 ppm		Nox												
North Sit	e														·	<u> </u>
12	Thermic fluid heater of DCO/DAP Plant	150.0 mg/Nm3	12	SPM	18/5/17	45		42	29/7/17	40	31/8/17	38	21/9/17	37	28/10/17	39
		100 ppm	1	SO2	7	34	7	32		34		36	1	34		36
		50 ppm	1	NOx	┑	31	7	29	7	31	7	32	1	36	1	34
	1	,		1			-			1		·		Page 29 of 3		1

Table 3 : Ambient Air Monitoring details

Station	Parameter	Limit microgm/NM ³	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17
	PM 2.5	60	28	26	22	27	26	29
	PM10	100	57	52	48	56	59	58
66 KV	SO2	80	10.8	9.2	8.2	56	8.6	9.2
OO KV	NOx	80	11.8	10.6	11.2	9.5	9.8	9.6
	Ammonia	850	0	0	0	10.2	0	0
	HC1	200	0	0	0	0	4.8	5.6
	PM 2.5	60	35	33	29	27	29	31
	PM10	100	59	56	54	52	49	51
Opposite	SO2	80	10.4	11.2	10.6	10.4	10.8	10.4
Shed D	NOx	80	12.2	13.6	11.2	11.4	11.8	11.2
	Ammonia	850	16.4	15.4	13.4		14.4	18.2
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	32	36	31	32	34	38
	PM10	100	54	58	51	56	53	58
Near West site ETP	SO2	80	11.2	10.8	10.2	10.8	10.2	11.2
near west site ETP	NOx	80	13.2	12.6	12.4	12.2	12.6	12.8
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	37	35	33	30	31	33
	PM10	100	56	53	49	54	56	53
Near North ETP 📙	SO2	80	10.6	10.8	9.6	10.4	9.6	9.8
	NOx	80	12.4	13.6	10.6	1.4	10.8	10.6
	Ammonia	850	13.4	14.6	12.5		11.2	13.8
HC1	HC1	200	0	0	0	0	0	0

								ı
P	PM 2.5	60	35	38	30	35	38	37
P	PM10	100	52	56	55	58	59	59
TSDF S	SO2	80	11.6	12.2	9.6	11.2	11.8	10.6
N N	NOx	80	13.4	14.6	13.2	12.4	13.4	11.4
A	Ammonia	850	0	0	0	0	0	0
H	HC1	200	0	0	0	0	0	0
P	PM 2.5	60	20	23	21	20	22	28
P	PM10	100	49	51	48	45	49	52
Main Guest House	SO2	80	10.2	10.8	10.4	10.2	10.4	11.2
Main Guest House	VOx	80	11.6	11.2	11.6	11.2	10.8	12.6
A	Ammonia	850	0	0	0	0	0	0
H	HC1	200	0	0	0	0	0	0
P	PM 2.5	60	22	20	24	22	27	26
P	PM10	100	51	46	52	49	52	54
Wyeth Colony	SO2	80	10.4	9.2	11.4	8.6	9.4	9.3
wyeth Colony	VOx	80	10.8	10.4	12.8	9.2	10.6	11.2
A	Ammonia	850	0	0	0	0	0	0
H	HC1	200	0	0	0	0	0	0
P	PM 2.5	60	21	22	26	23	25	26
P	PM10	100	46	50	51	48	49	54
Gram panchayat S	SO2	80	9.2	9.6	10.2	9.3	9.8	9.3
hall	XOX	80	9.6	10.8	11.4	10.6	10.4	11.2
A	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
P	PM 2.5	60	27	25	23	26	28	35
	PM10	100	58	56	47	50	56	59
	SO2	80	12.3	12.8	9.6	10.8	11.2	12.4
N	VOx	80	13.4	13.1	10.2	11.4	12.2	13.2
_	Ammonia	850	0	0	0	0	0	0

	HC1	200	0	0	0	0	0	0
	PM 2.5	60	22	20	26	24	24	28
	PM10	100	42	46	38.2	49	46	52
Homio resoton tonla	SO2	80	7.2	6.4	7.9	9.3	6.2	7.2
Haria water tank	NOx	80	10.8	9.8	8.8	10.2	7.6	8.4
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0

Table 4: Fugitive Emission Monitoring details

Plant	Area	Parameter	Prescribed Limit								
				May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17		
2,4 D	Reactor	Phenol	19	0.096	7	8.2	9.1	5.4	12.6		
	Buffer tank	Chlorine	3.0	0.148	0.152	0.18	0.144	0.85	1.1		
Resorcinol	Benzene storage tank area near vent	Benzene	15	1.27	0.8	1.1	1.4	2.8	1.7		
	Near Extraction/scrubber unit	Butyl acetate	-	ND	ND	0.06	0.05	0.12	0.17		
Pharma	At second floor work area	Ammonia	0.8	0.81	0.44	0.68	0.55	1.2	2.1		
	Ammonia recovery area	Ammonia	0.8	0.69	3.8	5.2	4.3	3.8	1.9		
Epoxy - I	At vacuum pump 2nd floor	ECH	10	8.71	7.55	8.1	9.1	7.6	3.8		
	At vessel POS 1208 G.F	ECH	10	8.66	8.78	5.2	7.6	6.9	5.2		
Shed H	At second floor work area	Nitrobenzene	5	3.76	3.426	1.8	2.3	2.7	1.7		
Shed J	Buffer Tank	Chlorine	3	0.128	0.182	0.32	0.21	0.84	1.1		

Table 5: Noise level monitoring data (Day Time)

Sr. No.	Location	Noise Level, dBA						Permissible Limits, dBA
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	75
1	Near Main guest house	58	60	62	61	63	65	75
2	Near TSDF	62	63	61	63	62	67	75
3	At Wyeth Colony	61	58	59	60	60.4	62	75
4	Gram Panchayat Hall	59	62	63	58	59	61	75
5	Near Main Office North site	63	57	58	59	57	59	75
6	ETP North site	67	65	66	65	64	62	75
7	Opposite shed D	66	68	64	63	62	64	75
8	ETP West site	68	66	63	61	63	62	75
9	Water tank Haria road	64	64	67	68	66	65	75
10	Near 66KVA substation	59	61	64	67	64	61	75

Table 6: Noise level monitoring data (Night Time)

Sr. No.	Location	Noise Le	Noise Level, dBA					
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	70
1	Near Main guest house	52	55	56	58	56	58	70
2	Near TSDF	56	57	57	59	57	54	70
3	At Wyeth Colony	54	53	54	55	52	51	70
4	Gram Panchayat Hall	52	57	58	56	54	53	70
5	Near Main Office North site	57	52	53	51	53	56	70
6	ETP North site	61	60	59	58	61	58	70
7	Opposite shed D	60	62	60	56	59	54	70
8	ETP West site	62	61	57	55	58	52	70
9	Water tank Haria road	57	58	62	57	56	59	70
10	Near 66KVA substation	56	55	58	62	61	57	70

ENVIRONMENTAL AUDIT REPORT

FOR AUDIT PERIOD
APRIL-2016
TO
MARCH-2017

Industry

M/s. ATUL LIMITED., ATUL-396020, DIST: VALSAD.



Auditor
SHROFF S R ROTARY INSTITUTE OF
CHEMICAL TECHNOLOGY (SRICT)
Block No. 402, At & Post Vataria, Dist. Bharuch.

ANNEXURE - 19 COMPLIANCE REPORT AND CASE/COMPLAIN

	Detail	Has valid consent/ authorization	Complying with standards and other Conditions	
(A)	Compliance Report of water as per Water Act, 1974: If NO, comment:		Complied	
(B)	Compliance Report for Air as per Air Act, 1981: If NO, comment	Yes.	Complied	
(C)	Compliance Report for the storage and handling of hazardous waste/chemicals under The Hazardous Waste (Management and Handling and trans boundary Movement) Rule, 2008 & EPA-86 If NO, comment:	to 03.11.2019	Complied	

Atul Limited

Project: Expansion of agro-chemicals (Pesticides/Herbicides) and bulk drug and pharmaceuticals manufacturing unit EC Compliance Report for the period May 2017 - October 2017 to EC F. No. J -11011/48/2003-IA II (I) dated 20.02.2004.

No.	Condition	Com	pliance								
A	Specific Conditions:										
i	The gaseous emissions (SO ₂ , NOx, and HCl) and	Com	plied. The gaseous e	emissions (S	SO ₂ , NOx, a	and HC	l) and	particulate			
	particulate matters from various process units	matte	matters from various process units confirms to the standards prescribed b								
	should confirm to the standards prescribed by	GPCE	GPCB through CCA.								
	the concerned authorities from time to time.										
		Detai	Details are given in below Table:								
		No. Parameter Standard Unit Values for the period values as May 17 – Oct 17									
				per CCA		Min.	Max.	Avg.			
		1	SO ₂	40	mg/Nm³	2.9	6.8	5.2			
		2	SO ₂ (kg/T)	2	kg/T	0.5	0.8	0.6			
		3	NOx	25	mg/Nm³	3.4	12.8	6.9			
		4	HC1	20	mg/Nm ³	3.5	6.8	5.7			
		5	PM	150	mg/Nm ³	4.2	45	25.2			
		6 PM with Pesticide 20 mg/Nm³ 4.8 7.8 6.2 compound									
			ls of stack results for g. no. 15)	r the compl	iance perio	d is give	en in Ta	able 1. (Pl.			

	At no time, the emission levels should go beyond the stipulated standards.	Complied. Monthly monitoring is being done by GPCB approved, NABI approved agencies namely M/s. Royal Environment Auditing & Consultancy Service, Rajkot and Clean Enviro Projects Consultancy Pvt. Ltd, Valsad. At no time, the emissions exceeded the prescribed limits during report period. The maximum values during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given below:							
		No.	Parameter	Standard values as	Unit	Values for the period May 17 – Oct 17			
				per CCA		Min.	Max.	Avg.	
		1	SO_2	40	mg/Nm ³	2.9	6.8	5.2	
		2	SO ₂ (kg/T)	2	kg/T mg/Nm³ mg/Nm³	0.5 3.4 3.5	0.8	0.6	
		3	NOx	25			12.8 6.8	6.9	
		4	HC1	20				5.7	
		5	PM	150	mg/Nm ³	4.2	45	25.2	
		6	PM with Pesticide compound	20	mg/Nm³	4.8	7.8	6.2	
	In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.		plied . No such case h	••		•			
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.	down wind direction as well as where max. ground level concentration of SPM anticipated in consultation with GPCB. The same had been shown to							
		No. 1	Location 66 KVA GEB subs	station					

		2	Opposite Shed	D					
		3	Near ETP (West	t Site)					
		4	ETP Plat (North	site)					
		5	Near TSDF						
		6	Near Main Gue	st House					
		7	At Wyeth Colony						
		8	Gram panchaya	at hall					
		9	Near Main offic	e, North site					
		10	Water tank at I						
iii	Fugitive emission in work zone environment, product, raw material storage areas must be regularly monitored.	material s party. The maximathe emissions	torage area is num values du	being regularlaring the compare beyond the second the s	y monitored liance perio	l by NAl d confir andards	BL approms that a	et no time neter wise	
		Flant	Area	rarameter	Limit				
						Min.	Max.	Avg.	
		2,4 D	Reactor	Phenol	19	0.10	12.60	7.07	
			Buffer tank	Chlorine	3	0.14	1.10	0.43	
		Resorcino	Benzene storage tank area near vent	Benzene	15	0.80	2.80	1.51	
			Near Extraction /scrubber unit	Butyl acetate	-	0.00	0.17	0.08	

	Pharma	At second floor work	Ammonia	0.8	0.44	2.10	0.96
		Ammonia recovery area	Ammonia	0.8	0.69	5.20	3.28
	Epoxy - I	At vacuum pump 2nd floor	ЕСН	10	3.80	9.10	7.48
		At vessel POS 1208 G.F	ECH	10	5.20	8.78	7.06
	Shed H	At second floor work area	Nitrobenzene	5	1.70	3.76	2.61
	Shed J	Buffer Tank	Chlorine	3	0.13	1.10	0.46
			nce period is gi				
The company should install alkali scrubbers			bers for scrub				
for scrubbing of HCl.			ual scrubbing s				
			for scrubbing of	of HCl in	majority o	i plants	like 2,4 I
pH of the scrubber tank should be monitored		C, Shed F,	rubber tank is	monitore	d regulari	v ond 10	aged It i
regularly.		perating prac		momorc	u regulari	y and io	iggeu. It i
Liquid effluent generated from the scrubber			nt generated fr	om the so	ruhber is	heing se	ent to ET
should be sent to effluent treatment plant.		plant effluen		. 0111 0110 0	21 013 3 3 1 1 2	2011-2	0110 00 111
All the process equipment/reaction vessels		1	aust system ha	s been pr	ovided at	strategio	location
should be connected with central exhaust	and the crit	tical operatio	ns evolving the	hazardo	us gases a	re route	d through
system.	multiple stage scrubbing system.						
Further measures should be taken to reduce	\boldsymbol{j}						
the losses of solvents.			en provided to				
Cooling arrangement should be made for all			of solvent stor				
the solvent storage tanks to minimize	_		se loop which i	s connect	ed to cond	lenser to	minimiz
evaporation losses.	evaporation	losses					

	The company should monitor VOCs from the incinerator and data submitted regularly to SPCB and Ministry of Environment and forests.	submitted regreport. Detail	Complied . Incinerator stack has been regularly monitored and data submitted regularly to GPCB and MoEF through six monthly EC compliance report. Details of stack results for the compliance period is given in Table 1. (Pl. see pg. no. 15)							
iv	The effluent generation should not exceed 1191 m3/day (936 m3/d of process effluent and 255 m3/d of domestic effluent).	Complied. If expansion, we According to II (I) dated exceed 17,28. The average only. Detail by	e request specific 13.05.20 83 m³/d. wastewat	to consi conditi 09, Ind	der lates on No. i ustrial V	st figures) of EC F Waste w	given in No. J 1 ater ger	same. 1011/89 neration	5/2009 IA shall not	
		Wastewater generation m ³ /day May-17 Jun-17 Juy-17 Aug-17 Sep-17 Oct-17 Total								
		Month wise 252740 235340 190201 224370 233190 307040 1442881								
		Per day 8153 7845 6136 7238 7773 9905 Avg. 7841								
		The maximum values during the compliance period confirms that at no time the wastewater generation went beyond the stipulated standards. Summary is given below:								
		Wastewater		n	Stipulat	ted value		es for the 17 – Oct		
				2/1	15000		Min		Avg.	
	The officent should be appropried at source of	Wastewater g	·		17283	o croco to	6136		7841	
	The effluent should be segregated at source of generation.	Complied . Complied through					i and ci	nemicais	are being	
	The Concentrated effluent stream should be incinerated and non-concentrated effluent after tertiary treatment should be discharged into the CETP.	2, 4 D is cond is distilled an	etrieved through recovery process/distillation. omplied. Among the referred expansion project, only one stream from , 4 D is concentrated. We have installed distillation plant where the stream a distilled and product so obtained are sold. After recovery of product, lean ffluent is sent to ETP where it is treated without any difficulty. Hence no							

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. 20) 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	Values fo 17 – Oct	r the perio	d May
			Min.	Max.	Avg.
1	рН	5.5-9.0	7	7.5	7.3
2	Temperature	40 deg C	28	30	28.8
3	Colour (pt. co. scale)in units		35	62	46.7
4	Suspended solids	100 mg/l	39	68	48.5
5	Phenolic Compounds	5 mg/l	0.2	0.7	0.5
6	Cyanides	0.2 mg/1	0	0	0
7	Fluorides	2 mg/l	0	0	0
8	Sulphides	2 mg/l	0.1	0.2	0.2
9	Ammonical Nitrogen	50 mg/l	16	38	29.3
10	Total Chromium	2 mg/1	0.01	0.2	0.1
11	Hexavalent Chromium	1 mg/l	0	0	0
12	BOD (3 days at 27°C)	100 mg/l	32	48	39.3
13	COD	250 mg/l	198	232	215.7

	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 m³ Month wise 11234 10458 9912 9731 10229 13167 64730 Per day 362 349 320 314 341 425 352 (Avg.)									
		Domestic Waste	ewater g	generatio	n Va	alues for t in.	given below the period Max. 425	May 17	- Oct 17 vg.		
v	The Company should also Set up a separate online fish pond using treated effluent, to ensure that the quality of treated effluent discharged into the par estuary does not have any adverse impact on the aquatic life.	Complied . We lat our ETP.	have set	up a sep	arate onl	ine fish p	oond using	g treated	effluent		
	The effluent quality at the discharge point must also be monitored periodically by an independent agency authorized by CPCB and report of the independent agency should be submitted to the Ministry's Regional office at	by an monitored by the Environmental auditors appointed by GPCB. CB and GPCB also monitor the treated effluent quality at regular intervals.						v c			
Bhopal/CPCB/GPCB The river water quality at the discharge point is regularly be by GPCB. Agencies like Pollucon Laboratories Pvt. Ltd- M agency, Envision Enviro Technologies Pvt. Ltd- NABET accreded to the monitoring in 2009 & 2105 respectively. Relevant latest reports were submitted to Ministry vide Atul/SHE/MoEF/Visit/3 dated 4.4.17.							MoEF a redited h nt extra	MoEF approved edited have also t extracts from			
vi	As reflected in the EIA/EMP report, the solid waste and ETP sludge should be incinerated	Complied . ETP which we have	waste i	s dispose	ed into o						

	and incinerator ash should be disposed off in the landfill facility within the plant premises.		1 1	hrough our CCA. We also send our sper GPCB approval given through our				
	the landilli facility within the plant premises.	CCA.	ie waste for co-processing a	s per GPCB approval given through our				
	The ground water quality in and around the			s being checked regularly for in and				
	unit and the hazardous waste storage site	around t	he unit and the hazardo	us waste storage site. Latest GPCB				
	should be regularly monitored and the data	Groundw	ater analysis report is attac	hed as Annexure B .				
	recorded to ensure that there is no							
	contamination of the groundwater.							
vii	The destructive efficiency of the incinerator	Complied	1. The destructive efficience	y of the incinerator was assessed by				
	should be assessed by an agency like CPCB and	M/s. SGS	S, a reputed agency in field	on environmental monitoring. Report				
	a report submitted to the Ministry.	already s	ubmitted vide our letter Atu	1/SHE/MoEF/Visit/3 dated 4.4.17.				
viii	The company should comply with the	Complied	1.					
	provisions of coastal Regulation Zone							
	Notification of 1991 and Coastal Zone							
	Management Plan of Gujarat.							
	Further, specific conditions stipulated by the	Complied	Complied . Detailed compliance report is already submitted to the Ministry					
	Forest and Environment Department,	and Environment Department, vide our letter our letter Atul/SHE/MoEF/Visit/3 dated 4.4.						
	Government of Gujarat vide its letter No. ENV-							
	1097-2942-P dated 27th January, 1998 for							
	laying of pipe line for discharge of treated							
	effluents through the estuary zone of the							
	River Par Zone should be strictly adhered to.							
ix	Occupational Health Surveillance of the	_	<u> </u>	veillance of the workers is being done				
	workers should be done on a regular basis and			ained as per the factory act which is				
	records maintained as per the Factories Act.	shown in	below table:					
		Sr. No.	Month of Examination	Total No. of Employees				
		1	Quarter 1 (17-18)	1673				
		2	Quarter 2 (17-18)	870				
x	The company should develop rainwater	Complied	L. Company has recently c	onstructed 6000 KL capacity pond to				
	harvesting structures to the harvest the run			st 75% of our per day requirement. We				
	off water from the rooftops and by laying a			r our consumption with rain harvested				
	separate storm water drains system for			r during the rainy days. Besides this,				
				nping facility to harvest rain water. We				
	1		·	1 5 5				

	recharge of ground water and to reduce the drawl from the river Par.	are also constructing temporary sand bag dam on top of dam towards the end of monsoon to store additional free flowing rain water in river Par.
хi	The project authorities may undertake a survey to assess the impact of gaseous emissions/pollutants on the health including respiratory and digestive system of the population within and vicinity of the plant and report submitted to the State Government and to this Ministry within six months.	Complied . The survey was carried out to assess the impact of emission/pollutants on the health including respiratory & digestive systems of population within & vicinity of the plant. So far no major illness have been identified. Report submitted vide our letter ref. Atul/MoEF/Reg/4 dated 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 eco-development measures including community welfare measures in the project area.	Complied . We had submitted the Eco fund earmarked for eco development to GPCB with an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated 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. The plans in this regard should be submitted	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. Complied . Action plan related to Eco-fund also made as per process and
	to the SPCB as well as to the Ministry within three months of issue of this letter.	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.

F	3. General Conditions								
i	The project authorities must strictly adhere to	Comp	plied. The company a	dheres to th	ne complian	ices and	l has no	t exceeded	
	stipulations made by GPCB.		tipulation. This has b						
			orized agency and no	minated by	GPCB; thro	ough En	vironm	ental audit	
		every				_	_		
			t compliance report b						
			Rotary Institute of Ch			ıtarıya,	Dist. B	haruch tor	
3.5	At no time the emissions should not no		16-17 is attached as			ADI		1-:1	
ii	At no time, the emissions should not go beyond standards.		plied . Monthly moniton time, the emission						
	beyond standards.	perio	•	s exceeded	the prescr	ibea iii	ints dui	ing report	
		period.							
		The maximum values during the compliance period confirms that at no							
		the emission level went beyond the stipulated standards. Parameter							
			summary is given below:						
		No.	Parameter	Standard	Unit			e period	
				values as			7 – Oct		
				per CCA		Min.	Max.	Avg.	
		1	SO_2	40	mg/Nm ³	2.9	6.8	5.2	
		2	SO ₂ (kg/T)	2	kg/T	0.5	0.8	0.6	
		3	NOx	25	mg/Nm³	3.4	12.8	6.9	
		4	HC1	20	mg/Nm³	3.5	6.8	5.7	
		5	PM	150	mg/Nm ³	4.2	45	25.2	
		6	PM with Pesticide	20	mg/Nm ³	4.8	7.8	6.2	
			compound						
	In the event of failure of any pollution control	Com	plied . No such incide	nt happened	d during co	mpliano	e period	l.	
	system adopted by the units, the respective								
	unit should be immediately put out of								
	operation and should not be restarted until								
111	the desired efficiency has been achieved.	0.5.55	11.ad Approxi-11	ai1aaa	d = ===+:-	o o o 1		الماد الموسلة	
iii	The overall noise level in and around the plant area shall be kept well within the standard by	_	plied. Acoustic hood,						
	providing noise control measures including								
	providing noise control measures including								

acoustic hoods silencers, enclosures etc. on all source of noise generation.

The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989, viz. 75 (daytime) and 70bBA(night time)

Complied. The ambient noise level is regularly monitored and its data are given in **Table 4 and 5**. (Pl. see pg. no. 21)

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

Noise level monitoring data (Day Time)

Sr. No.	Location	Permissible Limits, dBA	Values May 1		
		75	Min.	Max.	Avg.
1	Near Main guest house	75	58	65	62
2	Near TSDF	75	61	67	63
3	At Wyeth Colony	75	58	62	60
4	Gram Panchayat Hall	75	58	63	60
5	Near Main Office North site	75	57	63	59
6	ETP North site	75	62	67	65
7	Opposite shed D	75	62	68	65
8	ETP West site	75	61	68	64
9	Water tank Haria road	75	64	68	66
10	Near 66KVA substation	75	59	67	63

Noise level monitoring data (Night Time)

Sr. No.	Location	Permissible Limits, dBA	Values fo May 17 –	riod	
		70	Min.	Min.	Min.
1	Near Main guest house	70	52	58	56
2	Near TSDF	70	54	59	57
3	At Wyeth Colony	70	51	55	53
4	Gram Panchayat Hall	70	52	58	55

		5 Near Main Office N	orth site	70 5	51	57	54
		6 ETP North site		70 5	8	61	60
		7 Opposite shed D		70 5	54	62	59
		8 ETP West site		70 5	52	62	58
		9 Water tank Haria r	oad	70 5	66	62	58
		10 Near 66KVA substa	ition	70 5	55	62	58
iv	The project authorities will provide adequate funds to recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other	Complied. EMP measures are implemated been at place. Non recurring cost: 6.3 Complements are implemated been at place. Non recurring cost: A budget separate fund is allocated expenditure for the report process.	r is prepa	ared for every o	comin _i tal m	g six mo	nths and
	purposes.	Expenditure for months	Particu	lar		Expenses	s Rs.
			Fuel			685121	
				als(Raw Material)		66509539)
		May- 2017 to October 2017	Electric			26951192	2
		Including, recurring	Waste d	<u> </u>		19107766	5
		maintenance, modifications and monitoring.	Salary	1		16153895	5
		and monitoring.	Mainter modifica		&	16653743	3
			Monitor	ing		7466957	
			Total			1535282	13
v	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	Complied . The company regard to handling and disp Hazardous Wastes (Manage authorization under our cut	osal of he ement &	azardous waste: Handling) Rule	s in ac s, 200	ccordanc 03. We l	e with the nave valie

		anthonized area or and nominated by CDCD, through Engineers and the dist
		authorized agency and nominated by GPCB; through Environmental audit
		every year.
		Latest compliance report by GPCB appointed Environmental auditor Shroff
		S R Rotary Institute of Chemical Technology, Vatariya, Dist. Bharuch for
	A .1	year 16-17 is attached as Annexure C .
	Authorization from the GPCB must be	Complied . We have valid authorization under our current CCA No. AWH-
	obtained for collections /treatment/ storage/	67717 for handling, storage and disposal of hazardous waste.
	disposal of hazardous waste.	
vi	The stipulated conditions will be monitored by	Noted.
	the Regional office of this Ministry at Bhopal/GPCB.	
	A six monthly compliance report and the	Complied . Six monthly compliance report and the monitored data are being
	monitored data should be submitted to them	submitted to the Ministry at Bhopal with copy marked to GPCB regularly.
	regularly.	
Vii	The Project Proponent shall inform the public	Complied . We informed the public through advertisement and by sending
	that the project has been accorded	our EC to local Panchayat, Zila parishad, District Industrial Centre for
	environmental clearance by the Ministry and	further actions at their end.
	copies of the clearance letter are available	
	with the SPCB/Committee and may also be	
	seen at website of the Ministry of	
	Environment and Forest at	
	http://www.envfor.ni.in.	
	This shall be advertised within seven days	Complied . Advertisement was published as directed and copy of the same
	from the date of issue of the clearance letter	was submitted to Ministry.
	at least in two local newspaper that are widely	
	circulated in the region of which one shall be	
	in the vernacular language of the locality	
	concerned and a copy of the same shall be	
	forwarded to the concerned Ministry's	
	Regional office at Bhopal.	
3.0	The ministry or any competent authority may	Noted.
	stipulate any further condition(s) on receiving	
	reports from the project authorities.	

	The above conditions will be monitored by the	Noted
	Regional Office of this Ministry located at	
	, ,	
	Bhopal.	
4.0	The Ministry may revoke or suspend the	Noted.
	clearance if implementation of any of the	
	above conditions is not satisfactory.	
5.0	Any other conditions or alternation in the	Noted and will be complied.
	above conditions will have to be implemented	
	by the project authorities in a time bound	
	manner.	
6.0	The above conditions will be enforced, inter-	Noted.
	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.	

Table 1:	Stack Monitoring Details															
Sr. No.	Stack Details	Permissible Limits	Stack Height m	Paramenter	Date of Sampling	Obtained Value										
Atul East	Site															
1	Phosgene Plant	0.1 ppm	15	Phosgene	16/5/17	ND	7/6/17	ND	6/7/17	ND	4/8/17	ND	7/9/17	ND	5/10/17	ND
										•		•				•
2	Dechlorination Plant	9.0 mg/Nm3	35	CI 2		Not Runnig	9/6/17	3.2	6/7/17	3.6	10/8/17	3.8	7/9/17	3.6	6/10/17	3.8
		20.0 mg/Nm3		HCI		During Visit		5.1		5.4		5.2		5.6		6.1
3	Common stack of Hcl Sigri	9.0 mg/Nm3	25	CI 2				2.8		2.6		2.8	_	3.1		4.1
	unit 1& 2	20.0 mg/Nm3		HCI				6.2		5.8		6.2		6.4		6.8
FCB	7 10 0 11	10.0 (37.0	26.5	200		N		27				**				27
4	Foul Gas Scubber	40.0 mg/Nm3	26.5	SO2	_	Not in use		Not in use								
		25.0 mg/Nm3		NOx												
Sulfuric A	Acid (East Side)															
5	Sulfuric Acid plant	2.0 kg/T	30	SO2	17/5/17	0.6	14/6/17	0.5	8/7/17	0.6	4/8/17	0.7	4/9/17	0.6	7/10/17	0.8
		50.0 mg/Nm3		Acid Mist		6.3		7.2		6.8		6.6		6.7		7.5
6	ChloroSulfonic Acid plant	9.0 mg/Nm3	11	CI 2		5.5		3.8		3.2		3.4		3.6		4.1
	reactor	20.0 mg/Nm3		HCI		5.4		5.8		5.2		5.6		5.9		6.3
Incinerat		150.0 (N. 0	40	DM	10/5/17	06	01/6/17	0.0	14/7/17	26	10/0/17	0.4	15 (0 (17	00	10/10/17	0.1
7	Incinerator	150.0 mg/Nm3	40	PM	10/5/17	26	21/6/17	28	14/7/17	26	12/8/17	24	15/9/17	28	12/10/17	31
		40.0 mg/Nm3		SO2		2.9		3.2		3.5		3.6		3.8		4.2
		25.0 mg/Nm3		Nox		11.8		12.8		11.2		10.8		11.2		10.8
NI Plant																
8	Foul Gas Scubber	40.0 mg/Nm3	26.5	SO2	22/5/17	5.8	21/6/17	6.1	14/7/17	5.6	12/8/17	5.3	15/9/17	5.6	13/10/17	5.9
		25.0 mg/Nm3		Nox		5.2		4.2		3.8		3.4		3.6		4.2
NBD Plan		150.0 (N. 0	0.1	DM		N . D		N (D		N (D		M · D		N . D		M · D
9	Spray Dryer	150.0 mg/Nm3	21	PM		Not Runnig During Visit										
2-4-D Pla																
10	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12	19/5/17	2.6	15/6/17	2.2	21/7/07	2.6	19/8/17	2.4	27/9/17	3.1	17/10/17	4.6
		20.0 mg/Nm3		HCI		5.6		6.1		5.8		5.2	_	6.5	1	6.1
11	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12		3.6		3.4		3.1		3.8		3.4		3.8
		20.0 mg/Nm3		HCI		5.8		5.4		5.6		5.4		6.2		5.8
12	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12		3.4		3.2		3.4		3.1		3.4		3.6
		20.0 mg/Nm3		HCI		5.4		5.1		5.4		5.1		5.8		5.2
13	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12	_	3.2	4	3.6	4	3.8	4	3.2	4	3.6	4	3.1
14	Ohlaninatan C.4.D. 1	20.0 mg/Nm3	06.5	HCI	4	6.8	4	6.4	4	6.2	4	6.4	4	6.2	4	5.7
14	Chlorinator, 2,4 D plant	9.0 mg/Nm3	26.5	C12 HCI	_	3.6 6.4	4	3.1 6.2	4	2.8 5.6	4	2.7 5.8	-	2.9 5.7	4	3.2 5.8
15	Common Scrubber; 2,4D	20.0 mg/Nm3 9.0 mg/Nm3	5	C12	-	3.4	4	3.8	4	3.4	+	3.6	-	3.5	-	3.3
13	Plant	20.0 mg/Nm3	J	HCI		6.2	+	5.8	1	5.4	1	5.7	1	5.4	1	5.7
16	Dryer-1	20.0 mg/Nm3	26.5	PM with	18/5/17	6.8	14/6/17	6.4	22/7/17	5.8	18/8/17	5.2	13/9/17	5.5	16/10/17	6.2
	, and the second			Pesticide	15,5,17		1.,5,11									
17	Dryer-2	20.0 mg/Nm3	26.5	PM with Pesticide		7.2		7.8		6.2		5.8		5.2		4.8
18	Dryer-3	20.0 mg/Nm3	26.5	PM with Pesticide		5.6		6.8		5.4		6.2		6.8		5
19	Dryer-4	20.0 mg/Nm3	26.5	PM with Pesticide		5.8		7.2		6.8		6.8		7.2		6.5
20	Common Scrubber; 2,4D Plant		5	Phenol	19/5/17	ND	15/6/17	ND	21/7/07	ND	19/8/17	ND	27/9/17	ND	17/10/17	ND
	1	1	l		_1	1		L		1		<u> </u>	1	Dogo 15 of 00		I

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CP Plan	it	Permissible Limits	Stack Height m	Paramenter	Date of Sampling	Obtained Value		Obtained Value	Date of Sampling	Obtained Value						
21	MCPA	9 mg/NM ³	19	CL_2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/NM ³		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
		40 mg/NM ³		SO_2												
22	Fipronil	40 mg/NM ³	19	SO2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/Nm3		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
23	Imidacloprid	175 mg/Nm3	20	NH3		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
						During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
24	Pyrathroids	40 mg/Nm3	19	SO2		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20 mg/Nm3		HCL		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
25	Stack at Amine Plant	175 mg/Nm3	5	NH3		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit	28/9/17	3.6	17/10/17	3.2
MPSL P	lant															
26	Phosgene Scrubbr at MPSL	0.1 ppm	7	Phosgene	22/5/17	ND	21/6/17	ND	27/7/17	ND	24/8/17	ND	21/9/17	ND	18/10/17	ND
27	Central Scrubber at MPSL	0.1 ppm	7	Phosgene		ND		ND		ND		ND		ND		ND
NICO P	lant															
28	Central scrubber at Nico Plant		12	Acetonytryle, IPA		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
Ester P	alnt															
29	Scrubber at Ester plant for Glyphosate	10 mg/Nm3	12	Formaldehyde		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
30	Central Scrubber MCPA Plant	20 mg/Nm3	19	HCL												
Atul We																
31	Shed A7/14/41 Reaction	2.0 mg/Nm3	19	Bromine		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
	pan/ D tank	25.0 mg/Nm3		NOx		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit

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		Permissible	Stack	Paramenter	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained	Date of	Obtained
		Limits	Height m	T dramenter	Sampling	Value	Sampling		Sampling			Value	Sampling	Value	Sampling	Value
32	Shed B2/12/24 Reaction	9.0 mg/Nm3	19	C12	4/5/17	4.8	16/6/17	4.6	13/7/17	4.2	25/8/17	4.5	21/9/17	4.8	18/10/17	5.2
	Vessel	20.0 mg/Nm3		HCI		5.6		5.2		4.9		5.2		5.6		4.6
33	Shed C5/20/15 Chlorinator	9.0 mg/Nm3	19	C12	5/5/17	5.4	22/6/17	5.1		5.3	1	5.1	22/9/17	4.9	18/10/17	5.6
		20.0 mg/Nm3		HCI		5.2		5.5		5.8	Ī	6.2		5.4		4.3
34	Shed D Niro Spray dryer No.45	150.0 mg/Nm3	19	PM	4/5/17	4.6	23/6/17	4.4	15/7/17	4.6	11/8/17	4.2	22/9/17	6.5	26/10/17	6.3
35	Shed D Niro Spray dryer No. 50	150.0 mg/Nm3	19	PM		5.3		5.6		5.2		5.8		6.2		5.7
36	Shed E 7/12/49 Spray Dryer	150.0 mg/Nm3	19	PM	11/5/17	5.7	15/6/17	5.2	21/7/17	5.8	26/8/17	6.8	23/9/17	7.5	26/10/17	7.1
37	Shed F 6/1/15 Reaction Vessel	9.0 mg/Nm3	19	C12	12/5/17	5.3	23/6/17	4.8		4.4		4.8		5.2	18/10/17	5.8
	Vedder	20.0 mg/Nm3		HCI		6.2		5.2		5.6		5.2		5.8		6.4
38	Shed G 10/8/1 (receiver)	9.0 mg/Nm3	19	C12		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig		Not Runnig
		20.0 mg/Nm3		HCI		During Visit		During Visit		During Visit		During Visit		During Visit		During Visit
39	Shed H 1/6/17 Chlorinator	9.0 mg/Nm3	19	C12	22/5/17	4.2	28/6/17	4.6	22/7/17	4.8		Not Runnig	22/9/17	1.8	18/10/17	2.1
		20.0 mg/Nm3		HCI		5.6		5.2		5.6	1	During Visit		3.5		4.1
40	Shed K K-13/3/4 Final of	2.0 kg/T	19	SO2	23/5/17	0.6		0.5		0.6	31/8/17	0.8	22/9/17	0.6	26/10/17	0.8
	Sulfuric acid plant	50.0 mg/Nm3		Acid Mist		5		4		5	1	8		7		9
Atul No	rth Site															
41	N-FDH Plant Catalytic	150.0 mg/Nm3	31.5	PM	29/5/17	19	21/6/17	17	20/7/17	18	24/8/17	15	13/9/17	19	5/10/17	22
	Incinerator	40.0 mg/Nm3		SO2		6.8		6.2		6.3		6.2		6.8		6.2
		25.0 mg/Nm3		Nox		5.4		5.1		5.4		5.1		5.6		5.1
		10.0 mg/Nm3		Formaldehyde		ND		ND		ND		ND		ND		ND
42	PHIN Plant	0.1 ppm	15.5	Phosgene	30/5/17	ND	8/6/17	ND		ND	17/8/17	ND	5/9/17	ND	26/10/17	ND
43	DCDPS Plant		30	SO3		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
44	DDS Plant	175 mg/Nm3	20	NH3	28/12/20 16	Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit		Not Runnig During Visit
45	SPIC II Plant		30	SO3	29/5/17	2.4	9/6/17	2.1	20/7/17	2.6	17/8/17	-	5/9/17	2.6	26/10/17	3.1
46	SPIC I Plant	175 mg/Nm3	30	NH3	30/5/17	3.1	1	2.9	1	3.2		3.1		3.5	27/10/17	4.3
		l			1	1								D 17 -f 00		

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Details o	f Flue gas stack	Permissible Limits	Stack Height m	Paramenter	Date of Sampling	Obtained Value										
East site																
1	FBC boiler El	150.0 mg/Nm3	34	SPM	23/5/17	35	28/6/17	33	27/7/17	32	30/8/17	35	20/9/17	37	27/10/17	39
		100 ppm		SO2	, -,	31		28	- ' '	26		36	1, . ,	36	∃ ′ ′′	37
		50 ppm	1	Nox		33		31		29	-	31	-	39		33
2	FBC boiler E2	150.0 mg/Nm3	34	SPM		32		36		34	=	31		35		35
		,														
		100 ppm		SO2		30		32		30		33		36		34
		50 ppm		Nox		32		35		33		35		38		36
3	FBC boiler No.3	150.0 mg/Nm3	50	SPM		36		32		35		38		34		33
		100 ppm	_	SO2		33		30		28	=	31		33		31
		50 ppm		Nox		35		33		32		34		36		37
4	Hot Oil Unit (Resorcinol Plant)	150.0 mg/Nm3	32.5	SPM		ND										
	,	100 ppm	_	SO2	_	ND		ND	_	ND		ND	1	ND		ND
		50 ppm		Nox		29		26		28		26		28		30
West Site	· · · · · · · · · · · · · · · · · · ·	**														
5	FBC boiler W1	150.0 mg/Nm3	45	SPM	24/5/17	34	29/6/17	32	28/7/17	31	18/8/17	34	21/9/17	36	28/10/17	38
		100 ppm		SO2	-	31		29	-	28	-	31		32		34
		50 ppm		Nox		36		33		33	-	35		38		36
6	Coal fired Boiler W1	150.0 mg/Nm3	35	SPM		Discarded										
		100 ppm		SO2												
		50 ppm		Nox												
7	Coal fired boiler W2	150.0 mg/Nm3	35	SPM		Discarded										
		100 ppm		SO2												
		50 ppm		Nox												
8	Hot Oil Plant shed-B	150.0 mg/Nm3	19	SPM	24/5/17	ND	29/6/17	ND	28/7/17	ND	18/8/17	ND	21/9/17	ND	28/10/17	ND
		100 ppm		SO2	7 '	ND	_ ′ ′	ND	1 ' '	ND	╡ ′′	ND	1 ' '	ND	– ′ ′	ND
		50 ppm		Nox		26		24		24		26		29		31
9	Oil burner Shed B (Standby)	150.0 mg/Nm3	17	SPM		STAND BY										
	, , , ,	100 ppm		SO2												
		50 ppm		Nox												
10	Boiler (50 TPH 2 Nos)	50.0 mg/Nm3	108	PM	29/5/17	38	24/6/17	35	29/7/17	34	5/8/17	32	23/9/17	38	7/10/17	40
	, ,	100 ppm		SO2	7 '	35	- ' '	32	-	30	7 ' '	35	7 ' '	35	7 '	38
		50 ppm		Nox		36		34		28		31		37		36
				Mercury		ND										
11	DG set 1500 KVA (Standby)	150.0 mg/Nm3	12	SPM		STAND BY	1	STAND BY		STAND BY		STAND BY	1	STAND BY	1	STAND BY
	, , , ,	100 ppm		SO2												
		50 ppm	1	Nox	1		1			1				1		
North Sit	e e				•	1	•	1	•	1	•		•	1	•	
12	Thermic fluid heater of DCO/DAP Plant	150.0 mg/Nm3	12	SPM	18/5/17	45		42	29/7/17	40	31/8/17	38	21/9/17	37	28/10/17	39
	<u>'</u>	100 ppm	1	SO2	7	34	╡	32	1	34		36	1	34	7	36
		50 ppm	1	NOx	1	31	7	29	1	31	7	32	1	36		34
	1	I FF		1	_1	1		1	_1	1	-1	1	-1	Page 18 of 2	2	1

Table 2: Fugitive Emission Monitoring details

Plant	Area	Parameter	Prescribed Limit	Results	of VOCs	in Millig	ram per N	M 3	
				May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17
2,4 D	Reactor	Phenol	19	0.096	7	8.2	9.1	5.4	12.6
	Buffer tank	Chlorine	3	0.148	0.152	0.18	0.144	0.85	1.1
Resorcinol	Benzene storage tank area near vent	Benzene	15	1.27	0.8	1.1	1.4	2.8	1.7
	Near Extraction/ scrubber unit	Butyl acetate	-	ND	ND	0.06	0.05	0.12	0.17
Pharma	At second floor work area	Ammonia	0.8	0.81	0.44	0.68	0.55	1.2	2.1
	Ammonia recovery area	Ammonia	0.8	0.69	3.8	5.2	4.3	3.8	1.9
Epoxy - I	At vacuum pump 2nd floor	ECH	10	8.71	7.55	8.1	9.1	7.6	3.8
	At vessel POS 1208 G.F	ECH	10	8.66	8.78	5.2	7.6	6.9	5.2
Shed H	At second floor work area	Nitrobenzene	5	3.76	3.426	1.8	2.3	2.7	1.7
Shed J	Buffer Tank	Chlorine	3	0.128	0.182	0.32	0.21	0.84	1.1

Table 3 : Quality of treated effluent

Sr. No.	Parameter			GPCB Limits				
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	
1	рН	7.1	7.2	7.5	7	7.2	7.5	5.5 to 9.0
2	Temperature °C	30	29	28	28	29	29	40 °C
3	Colour (pt. co. scale)in units	58	62	35	42	35	48	
4	Suspended solids, mg/l	68	54	43	46	39	41	100
5	Phenolic Compounds, mg/l	0.5	0.7	0.2	0.7	0.2	0.5	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	0.1	0.1	0.2	0.1	0.2	2
9	Ammonical Nitrogen, mg/l	36	38	28	16	22	36	50
10	Total Chromium, mg/l	0.2	0.1	0.02	0.01	0.02	0.01	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/1	40	38	32	36	42	48	100
13	COD, mg/l	226	212	198	202	224	232	250
Note: N	D is Not Detectable.	•	•	•	•	•	1	

Table 4: Noise level monitoring data (Day Time)

Sr. No.	Location	Noise L		Permissible Limits, dBA				
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	75
1	Near Main guest house	58	60	62	61	63	65	75
2	Near TSDF	62	63	61	63	62	67	75
3	At Wyeth Colony	61	58	59	60	60.4	62	75
4	Gram Panchayat Hall	59	62	63	58	59	61	75
5	Near Main Office North site	63	57	58	59	57	59	75
6	ETP North site	67	65	66	65	64	62	75
7	Opposite shed D	66	68	64	63	62	64	75
8	ETP West site	68	66	63	61	63	62	75
9	Water tank Haria road	64	64	67	68	66	65	75
10	Near 66KVA substation	59	61	64	67	64	61	75

Table 5: Noise level monitoring data (Night Time)

Sr. No.	Location	Noise L	loise Level, dBA								
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	70			
1	Near Main guest house	52	55	56	58	56	58	70			
2	Near TSDF	56	57	57	59	57	54	70			

3	At Wyeth Colony	54	53	54	55	52	51	70
4	Gram Panchayat Hall	52	57	58	56	54	53	70
5	Near Main Office North site	57	52	53	51	53	56	70
6	ETP North site	61	60	59	58	61	58	70
7	Opposite shed D	60	62	60	56	59	54	70
8	ETP West site	62	61	57	55	58	52	70
9	Water tank Haria road	57	58	62	57	56	59	70
10	Near 66KVA substation	56	55	58	62	61	57	70



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:218880 - Analysis Completion:11/10/2017

Dves and Dve-Intermediates / LAB Inward: 43072

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

TEST REPORT

Test Report No.: 43072 Date: 11/10/2017

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

: REP-Representative/Grab, (Insp Type : COM-On Complaint) 3. Nature of Sample

4. Sample Collected By : S.B.Patel,SO

: 0 5. Quantity of Sample Received

6. Code No. of the Sample : 218880

7. Date & Time of Collection & Inwarding : 28/09/2017, (1350 to 1350) & 29/09/2017

8. Date of Start & Completion of Analysis : 29/09/2017 & 11/10/2017

: ## Final Outlet of the ETP ~-9. Sampling Point

10. Flow Details (Remarks) : ves

11. Mode of Disposal : Into River Par estury zone through u/g pipeline

12. Ultimate Receiving Body : Estuary zone of river par

13. Temperature on Collection : 29 & pH Range on pH Strip :@ 7 to 8 on pH STRIP

14. Carboys Nos for : Barcode & Color & Appearance : Brownish

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	29
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.53
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	20
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	2886
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	44
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	8.09
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	1124
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	390
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	241
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.0
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	BDL
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	0.506
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	52

Laboratory Remarks: FREEZE By:445-lab_445 Dt.: 11/10/2017

J.D.OZA, Lab Head

Field Observation:

- 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.
- 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.



ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE

C5/124, GIDC Vapi,

Gujarat Pollution Control Board, Vapi

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



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

Dves And Dve-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)

: 0 5. Quantity of Sample Received

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

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

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

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

J.D.OZA, Lab Head

Field Observation:

- 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.
- 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.



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

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Sample ID:205278 - Analysis Completion:27/02/2017

Dyes And Dye-Intermediates. / LAB Inward: 40522

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

TEST REPORT

Test Report No.: 40522 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 : 205278

7. Date & Time of Collection & Inwarding : 10/02/2017, (1123 to 1123) & 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. 4 (Downstream 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	7.24
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	560
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	6
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	170
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	23
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	15
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	2

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

J.D.OZA, Lab Head

Field Observation :

- 1. $^{\star}\,$ 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

FOR AUDIT PERIOD
APRIL-2016
TO
MARCH-2017

Industry

M/s. ATUL LIMITED., ATUL-396020, DIST: VALSAD.



Auditor
SHROFF S R ROTARY INSTITUTE OF
CHEMICAL TECHNOLOGY (SRICT)
Block No. 402, At & Post Vataria, Dist. Bharuch.

ANNEXURE - 19 COMPLIANCE REPORT AND CASE/COMPLAIN

	Detail	Has valid consent/ authorization	Complying with standards and other Conditions
(A)	Compliance Report of water as per Water Act, 1974: If NO, comment:		Complied
(B)	Compliance Report for Air as per Air Act, 1981: If NO, comment	Yes.	Complied
(C)	Compliance Report for the storage and handling of hazardous waste/chemicals under The Hazardous Waste (Management and Handling and trans boundary Movement) Rule, 2008 & EPA-86 If NO, comment:	to 03.11.2019	Complied





ATUL LTD

Atul 396020, Gujarat, India Telephone: (+91 2632) 230000 | 233261 Telefax: (+91 2632) 233027 | 233619

> CIN: L99999GJ1975PLC002859 Email: atul_infra@atul.co.in_Website: www.atul.co.in

Ref : Atul/SHE/CRZ Compliance/02

Through Reg. AD Post

Date: 30th November, 2017

To,

The Additional Chief Secretary, Forest and Environment Department Block 14, Floor 8, Sachivalay, Gandhinagar 382010

Subject

: Six Monthly Compliance on CRZ Condition

Reference: CRZ Clearance No. ENV-1097-2942-P, dated 17.01.1998

Respected Sir,

Please find attached herewith six monthly compliance report for the period of May 2017-October 2017 with respect to the above referred CRZ Clearance granted to M/s Atul Ltd. Valsad, Gujarat.

We hereby request you to kindly validate the same.

Kindly do the needful and oblige.

Thanking you.

Yours truly,

For ATUL LIMITED,

(B. N. Mohanan)

Whole time Director & President - Utility & Services

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 2017-October 2017 as per CRZ Clearance No. ENV-1097-2942-P, dated 17.01.1998.

No.	Condition	Compliance				
1	The Company shall strictly adhere to all the provisions of CRZ notification of	Compli	ed. Details are given below in the table:			
	1991 and subsequent amendments.	No.	Clause under CRZ notification	Compliance		
			Imposes the given restrictions in setting up and expansion of industries, operations or processes in CRZ.	Noted		
			List of prohibited activities within CRZ.	Noted		
		3	Guideline for regulation of permissible activities.	Noted		
		4	Procedure for monitoring and enforcement.	Applicable to Ministry		
		Ann 1	Classification of costal regular zone.	Noted		
		Ann 2	Guidelines for development of beach/ resort/ hotels.	NA		
		Ann 3	List pf petroleum products permitted in storage in CRZ except CRZ-1.	NA		
2	The company shall strictly adhere to the conditions stipulated by the Gujarat Pollution Control Board in their Consent order.	acts. 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 16-17 was submitted vide our letter				
3	The company shall discharge the treated effluent meeting the norms prescribed by G.P.C.B.					

Sr. No.	Parameter	Norms		Values for the per 17 - Oct 17		
			Min.	Max.	Avg.	
1	рН	5.5-9.0	7	7.5	7.3	
2	Temperature	40 deg C	28	30	28.8	
3	Colour (pt. co. scale)in units		35	62	46.7	
4	Suspended solids	100 mg/l	39	68	48.5	
5	Phenolic Compounds	5 mg/l	0.2	0.7	0.5	
6	Cyanides	0.2 mg/l	0	0	0	
7	Fluorides	2 mg/l	0	0	0	
8	Sulphides	2 mg/1	0.1	0.2	0.2	
9	Ammonical Nitrogen	50 mg/l	16	38	29.3	
10	Total Chromium	2 mg/1	0.01	0.2	0.1	
11	Hexavelent Chromium	1 mg/1	0	0	0	
12	BOD (3 days at 27°C)	100 mg/l	32	48	39.3	
13	COD	250 mg/l	198	232	215.7	

The effluent quality at the ETP discharge point is regularly being monitored by the Environmental auditors appointed by GPCB. Latest audit report for the year 16-17 was submitted vide our letter 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.

GPCB also monitor the treated effluent quality at intervals. Recent result by GPCB is attached as **Annexure 1**.

The river water quality at the discharge point is regularly being monitored

	The company shall keep records of the quality of effluents being discharge during the tides as per the recommendations of N.I.O.	by GPCB. Agencies like NIO, Pollucon Laboratories Pvt. Ltd- MoEF approved agency, Envision Enviro Technologies Pvt. Ltd –NABET accredited have also done the monitoring during the years. Relevant extracts from latest reports were submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17. Complied. We are keeping the records of quality effluents being discharged during the tides in soft copy as per the recommendations of N.I.O.
4	The company shall submit the quarterly progress report of compliance of conditions.	Complied . We have submitted progress reports to the Forest and Environment Department of Gujarat during the pipe line installation work. Couple of reports were already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
5	The company shall bear all the cost of the agency to be appointed by the Government for overseeing/monitoring the project activities during construction/operational phases.	Noted and will be complied as and when it will come.
6	The company shall comply with all the recommendations, additional conditions and environmental safeguards prescribed in the report of NIO dated March, 1997.	Complied . Compliance to NIO recommendations are being followed. Copy of compliance report submitted to Forest and Environment Department of Gujarat was already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
6	The company shall submit an Environmental Audit Report every year.	Complied . The Environmental Audit Report for year 16-17 was submitted vide our letter Atul/SHE/CRZ Compliance/01 dated 17/7/17.
7	The company shall obtain the necessary permissions from different Government department/agencies under different laws/Acts.	Complied . We have received GPCB approval for operating 4Km line vide its consent letter no. 16399 dated 22.12.98. Copy already submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
8	Any additional conditions which may imposed from time to time.	Noted and will be complied.

Table 1: Quality of treated effluent

Sr. No.	Parameter			Res	ults			GPCB Limits
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	
1	рН	7.1	7.2	7.5	7	7.2	7.5	5.5 to 9.0
2	Temperature °C	30	29	28	28	29	29	40 °C
3	Colour (pt. co. scale)in units	58	62	35	42	35	48	
4	Suspended solids, mg/l	68	54	43	46	39	41	100
5	Phenolic Compounds, mg/l	0.5	0.7	0.2	0.7	0.2	0.5	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	0.1	0.1	0.2	0.1	0.2	2
9	Ammonical Nitrogen, mg/l	36	38	28	16	22	36	50
10	Total Chromium, mg/l	0.2	0.1	0.02	0.01	0.02	0.01	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	40	38	32	36	42	48	100
13	COD, mg/l	226	212	198	202	224	232	250
Note:	ND is Not Detectable.	•	•	- 1	•	•		•



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:218880 - Analysis Completion:11/10/2017

Dves and Dve-Intermediates / LAB Inward: 43072

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

TEST REPORT

Test Report No.: 43072 Date: 11/10/2017

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

: REP-Representative/Grab, (Insp Type : COM-On Complaint) 3. Nature of Sample

4. Sample Collected By : S.B.Patel,SO

: 0 5. Quantity of Sample Received

6. Code No. of the Sample : 218880

7. Date & Time of Collection & Inwarding : 28/09/2017, (1350 to 1350) & 29/09/2017

8. Date of Start & Completion of Analysis : 29/09/2017 & 11/10/2017

: ## Final Outlet of the ETP ~-9. Sampling Point

10. Flow Details (Remarks) : ves

11. Mode of Disposal : Into River Par estury zone through u/g pipeline

12. Ultimate Receiving Body : Estuary zone of river par

13. Temperature on Collection : 29 & pH Range on pH Strip :@ 7 to 8 on pH STRIP

14. Carboys Nos for : Barcode & Color & Appearance : Brownish

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	29
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 – 14 pH value As or	7.53
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	20
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	10 – 200000 mg/L	2886
5	Suspended Solids	mg/l	Gravimetric method. (2540 D APHA Standard Method	2 – 10000 mg/L	44
6	Ammonical Nitrogen	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	8.09
7	Chloride	mg/l	Argentometric method. (4500 CI? B APHA Standard N	1 - 50000 mg/l	1124
8	Sulphate	mg/l	APHA(22nd edi)4500 SO4 E	2-40mg/l	390
9	Chemical Oxygen Demand	mg/l	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	241
10	Oil & Grease	mg/l	Liquid – Liquid Partition Gravimetric method. (5520 B	01 – 1000 mg/l	1.0
11	Phenolic Compounds	mg/l	4 Amino Antipyrene method without Chloroform Extra	0.1 – 50 mg/l	BDL
12	Sulphide	mg/l	APHA (22nd Edi.)4500-s2-F –iodometric Method	1-500.0 mg/l	0.506
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed	05–50000 mg/l	52

Laboratory Remarks: FREEZE By:445-lab_445 Dt.: 11/10/2017

J.D.OZA, Lab Head

Field Observation:

- 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.
- 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 396020, Gujarat, India Telephone: (+91 2632) 230000 | 233261 Telefax: (+91 2632) 233027 | 233619 CIN: L99999GJ1975PLC002859

Email: atul infra@atul.co.in Website: www.atul.co.in

Ref : Atul/SHE/EC Compliance/07/1

Through Reg. AD Post

Date: 30th November, 2017

To,

Regional Officer,

Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, E-5, Ravi Shankar Nagar, Bhopal 462016, Madhya Pradesh.

Subject : Six Monthly Compliance on EC Condition

Reference : EC NO.SEIAA/GUJ/EC/1(d)/340/2016, dated 20.05.2016

Respected Sir,

Please find attached herewith six monthly compliance report for the period of May 2017-October 2017 with respect to the above referred Environment Clearance granted to M/s Atul Ltd. Valsad, Gujarat.

We hereby request you to kindly validate the same.

Kindly do the needful and oblige.

Thanking you.

Yours truly,

For ATUL LIMITED,

(B. N. Mohanan)

Whole time Director & President – Utility & Services

CC: 1. Mr. B. R. Naidu (Scientist 'E' & In charge), Central Pollution Control Board, Zonal Office, Vadodara

2. The Member Secretary, Gujarat Pollution Control Board, Gandhinagar







Atul 396020, Gujarat, India Telephone: (+91 2632) 230000 | 233261 Telefax: (+91 2632) 233027 | 233619

CIN: L99999GJ1975PLC002859 Email: atul infra@atul.co.in Website: www.atul.co.in

Ref : Atul/SHE/EC Compliance/02

Date: 30th November, 2017

Through Reg. AD Post

To, The Secretary, SEAC Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10 - A, GANDHINAGAR - 382 010

Subject

: Six Monthly Compliance on EC Condition

Reference: EC NO.SEIAA/GUJ/EC/1(d)/340/2016, dated 20.05.2016

Respected Sir,

Please find attached herewith six monthly compliance report for the period of May 2017 - October 2017 with respect to the above referred Environment Clearance granted to M/s Atul Ltd. Valsad, Gujarat.

We hereby request you to kindly validate the same.

Kindly do the needful and oblige.

Thanking you.

Yours truly,

For ATUL LIMITED,

(B. N. Mohanan)

Whole time Director & President - Utility & Services

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 2017 - October 2017 as per EC No. SEIAA/GUJ/EC/1(d)/340/2016

	Omphance Report for the peri			orr as per i	3C NO. 5E11	m/ doc	,, 60, 1	(u)/ 0+0/	2010	
No.	1	Comp	liance							
-	cific Conditions :									
1.	Unit shall comply the emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015.	The memiss	Complied. Monthly monitoring is being done by GPCB approved M/s. Royal Environment Auditing & Consultancy Service, Rajkot, an NABL approved agency. 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 Stack results:							
		No.	e period 17							
				values as per CCA		Min.	Max.	Avg.		
		1	SPM	50.0	mg/Nm ³	32	40	36	-	
		2	SO ₂	100	ppm	30	38	34		
		3	NOx	50	ppm	28	37	34	-	
		4	Mercury	-	_	ND	ND	ND		
		Detail	s of stack results is	s given in Tab	ole 1. (Pl. se	ee pg. n	o. 26)		-	
2.	All measures shall be taken to prevent soil and ground water contamination.	_	lied. No contamina	ation found.						
3.	The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any due to application of waste water generation from	done and s alread	lied. Detailed stud by reputed and NA ubmitted to GPCB by submitted to Mir	BL approved vide our lett	agency Poll er dated 2	lucon La 2.5.17.	aborato: Extract	ries Pvt. I	Ltd, Surat	

4.	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	Complied. The period is 1900 in below table:	KL/day							
	and it shall be met through		T	I	I				I —	_
	the existing water supply system from River par.	Water Consumption	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total	
		Month wise	60659	58517	49519	53234	61128	64273	347330	
		Per day	2022	1951	1597	1717	2038	2073	1900 (avg.)	
		The maximum wastewater ger	neration v							
			neration v	went bey		stipulate	d value. Values		y is give:	
		wastewater ger Water Consum	neration v aption	went bey	ond the s Stipulate	stipulate	d value. Values	Summar s for the	y is give:	
		wastewater ger Water Consum Water Consum	neration vaption ption KL/	day	ond the s Stipulate	stipulate d value	Value. Values May 1 Min. 1597	Summar for the 7 - Oct 1 Max. 2073	y is give: period 7 Avg. 1900	n below:
	Permission from the Concern authority for additional water requirement shall be obtained.	wastewater ger Water Consum	ption KL/	day have p	ond the s Stipulate	stipulate d value	Value. Values May 1 Min. 1597	Summar for the 7 - Oct 1 Max. 2073	y is give: period 7 Avg. 1900	n below:

6.	The industrial effluent generation from the proposed expansion shall not exceed 270 KL/day and entire	osed only which is well within the limit and entire quantity is utilized in house								
	quantity of effluent shall be utilized for ash quenching,	Wastewater generation	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Tota	ıl
	dust suppression, fire hydrant make up, Gardening	Month wise	7247	7221	7953	5103	7024	6097	4064	45
	plants floor cleaning.	Per day	234	241	265	170	234	203	22: (avg	
	The maximum values during the compliance period confirms that at no time wastewater generation went beyond the stipulated value. Summery is given be									
		Wastewater g	generation	1	Stipulated value		Values for the period May 17 – Oct 17			
								Max.	Avg.	
		Wastewater ge	eneration	m³/d	270		170	265	225	
7.	There shall be no discharge of industrial effluent from the proposed project in any case.	Complied. No D M Plant. RO								ated from
8.	Domestic waste water generation shall not exceed 1 KL/day Which shall be disposed of into soak system.	Complied. De	omestic w	vaste wat	er dispose	d through	ı soak pi	t system	1.	
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. Mowater and reco				f the colle	ction cui	n reuse	system	of waste
10.	Proper logbooks of waste water reuse system showing quantity and quality of	Complied. Lo	ogbooks n	naintaine	d.					

	effluent reused shall be									
	maintained and furnished the									
	GPCB from time to time.									
11.	Rain water harvesting of	Complied. Ro	oftop rai	n water	from Co	al sheds	s and No	ew TG bu	ailding is	collected
	rooftop rain water shall be	and used as	make up	water	for cooli	ing towe	er. Rain	water a	lso colle	cted from
	undertaken as proposed in	surrounding a	rea and p	oumping	g it to the	Clariflo	culator	units.		
	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.									
	A.3 AIR:									
12.	Existing two coal fired steam	Complied. Two	old stol	ker fired	boilers 1	nave alre	eady bee	n dismar	ntled for	upcoming
	boilers shall be replaced with	new AFBC boil					3			1 8
	two AFBC Boilers having									
	capacity 50 TPH each.									
13.	Fuel (Indian coal/and or	Complied. The	average	fuel cor	sumptio	n for the	e report	period is	13671 M	T/M only
	Imported coal and or Lignite)	which is well w								• 3
	to the tune of 16725 MT/M					-	U			
	shall be used for proposed	Fuel	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total	Average
	boilers.	consumption					-			
		Month wise	10559	12700	12200	14671	17367	14529	82026	13671
		The maximum	values	during t	he comp	liance p	eriod co	nfirms tl	nat at no	time the
		wastewater ger								
										_
		Fuel consump	tion		Stipulat	ed value		es for th		
							May	17 – Oct	17	
							Min.	Max.	Avg.	
		Fuel consumpt	ion MT/N	1	16725		1055	59 17367	13671	7
Ь		L.L.								

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 record shall be 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.	Noted.
	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.

10	High officiones Distance	Complied Total 4 Gold ECD has been installed and associationed to work Court
18.	High efficiency Electro static	Complied. Total 4 field ESP has been installed and commissioned to meet further
	precipitators (ESP) with	stringent requirement also.
	efficiency not less than 99.9%	
	shall be installed for control of	
	flue gas emission from the	
	proposed Boilers.	
	The ESP shall be operated	Complied . Particulate matter emission did not exceed the GPCB norms during
	efficiently to ensure that	report period. Please refer point 1.
	particulate matter emission	
	does not exceed the GPCB	
	norms.	
	The control system shall be	Complied . Flue gas emission from the stack meets with the specified standards for
	designed and integrated in	the report period. Please refer point 1.
	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.	
19.		Complied . The monitoring has been carried out and found satisfactory.
19.	Third party monitoring of the	Complied. The monitoring has been carried out and found sausfactory.
	functioning of ESP along with	
	efficiency shall be carried out	
	once in a year through a	
	reputed institute /	
	organization.	
20.	Lime stone injection	Complied . A system to inject lime stone powder and meeting with the prescribed
	technology shall be adopted to	norms of SO ₂ is already been installed and interconnected with the online emission
	control SO2 and it shall be	monitoring system.
	ensured that SO2 levels in the	SO ₂ levels in the ambient air did not exceed the prescribed standards for the report
		period. Please refer point 30.

	ambient air do not exceed the								
	prescribed standards.								
01	_ <u>_</u>	011-1			14001			1	-1
21.	The company shall prepare	_	Complied . Our company is ISO 14001 certified company and regular preventive maintenance of all the critical equipment is a part of our system.						
	schedule and carry out	maintenance o	i all the c	ritical equ	uipment	is a part	of our sy	rstem.	
	regular preventive								
	maintenance of mechanical								
	and electrical parts of ESPS								
	and assign responsibility of								
	preventive maintenance to the								
	senior officer of the company.								
22.	Diesel to the tune of 300	Complied. The							
	Lit/hr shall be used as a fuel	only which is v	vell withii	n the limi	t. Detail 1	break up	is given	in below	table:
	in stand -by D. G. Set (1500		1	1			•		
	KVA)	Diesel	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	Total
		consumption	010	20.420		0		1500	00100
		Month wise	210	20420	0	0	0	1500	22130
		Per Hr	0.28	28.36	0	0	0	2.02	10.22
									(avg.)
23.	The flue gas emission from	Complied. DG	set run f	or emerge	ency star	t up only	7.		
	DG set shall be dispersed	_			-				
	through adequate stack								
	height as per CPCB								
	standards. At no time the								
	emissions levels shall go								
	beyond the stipulated								
	standards.								
	Acoustic enclosure be	Complied. Acc	ustic enc	losure pr	ovided to	DG set.			
	provided to DG seta to	_		_					
	mitigate the noise pollution.								
24.	Online monitoring system	Complied. On	line moni	toring sys	stem for S	SPM, SO	x and NO	Ox is alrea	ady been made
	shall be installed to monitor	and connected	to CPCB	server.					
	the SOx, NOx and SPM in the								
	flue gas stack.								
	An arrangement shall also be	Complied.							
	done for reflecting the online	-							

	monitoring manualt on the	
	monitoring result on the	
	company's server, which can	
	be assessable by the	
	constructed.	
25.	Adequate storage facility for	Complied . Two silos of 330 m ³ capacity for fly ash and one silo of 45 m ³ for bottom
	the fly ash in terms of closed	ash are provided.
	silos shall be provided at site.	
	No pond shall be constructed.	
26.	Handling of the fly ash shall	Complied . It is already provided.
	be through a closed	
	pneumatic system.	
27.	Ash shall be handled only in	Complied.
	dry state.	
28.	The unit shall strictly comply	Complied . Fly ash generated is utilized 100%. Data given in Table 2 . (Pl. see pg.
	with the fly ash Notification	no. 26)
	under the EPA and it shall	
	ensure that there is 100%	
	utilization of fly ash to be	
	generated from the unit.	
29	The fugitive emission in the	Complied.
	work zone environment shall	•
	be monitored. The emission	
	shall confirm to the standards	
	prescribed by the concerned	
	authorities from time to time	
	(e.g. Directors of Industrial	
	Safety & Health) Following	
	Indicative guidelines shall be	
	also be followed to reduce the	
	fugitive emission.	
	All handing & transport of	Complied . All handing & transport of coal & Lignite is done through covered coal
	coal & Lignite shall be	conveyors only.
	exercised through covered	
	coal conveyors only.	
	coar conveyors only.	

Enclosure shall be provided at	Complied . Enclosure provided.
coal / Lignite loading and	
uploading operations.	
Water shall be sprinkled on	Complied . Water regularly sprinkled on coal / Lignite stock piles to retain some
coal / Lignite stock piles	moisture in top layer and also while compacting to reduce the fugitive emission.
periodically to retain some	
moisture in top layer and also	
while compacting to reduce	
the fugitive emission.	
All transfer points shall be	Complied . All transfer points are fully enclosed.
fully enclosed.	Company in transfer points are rany enclosed.
Adequate dust suppression /	Complied . Adequate dust extraction system at crusher house is provided While
extraction system at crusher	dust suppression system the coal/ Lignite unloading areas to abate dust nuisance.
house as well as for the coal/	dust suppression system the coar, biginte amounting areas to abate dust naisance.
Lignite stock yard and other	
vulnerable areas shall be	
provided to abate dust	
nuisance.	
Accumulated coal dust / fly	Complied . Coal dust / Fly ash is being cleaned regularly. Coal dust and fine
ash on the ground and	particles are being loaded to coal handling plant after spraying water on it.
surfaces shall be removed /	particles are being loaded to coar handling plant after spraying water on it.
swept regularly and water the	
area after sweeping. Internal roads shall be either	Complicat Description to the property of the ECD and complication of
	Complied. Paver blocks have been provided in the ESP and some internal area of
concreted or asphalted or	power plant. Concrete Road have been built in the surrounding area of Power Plant
paved properly to reduce the	to reduce fugitive emissions during vehicle movement.
fugitive emission during	
vehicular movement.	Constitut West and Constant street in the con
Air borne dust shall be	
controlled with water	Coal plant and Fly ash handling units. Covered trucks / closed bulkers are being
sprinkles at suitable locations	utilized for handling coal and fly ash.
in the plant.	
Coal / Lignite shall be	
transported through covered	
trucks only whereas fly ash	

	1 11 1 1 1 1							
	shall be transported through							
	closed trucks only. A green belt shall be developed all around the		roper plantation			plant bo	oundary and al	so the
	plant boundary and also the	Toads to milita	oads to mitigate fugitive & transport dust emission.					
	roads to mitigate fugitive &							
	transport dust emission.							
30.	Regular Monitoring of ground		e are regularly m					
	level concentration of PM2.5,	26)	nued monitoring.	Ambient Air da	ta givei	n in Tab	ole 3. (Pl. see p	og. no.
	PM10, NOx, SO2 and Hg shall in the impact zone and its	20)						
	records shall be maintained.							
	Ambient air quality levels	Complied T	he Location of	amhient air aus	ality m	onitoring	σ stations had	heen
	shall not exceed the		nsultation with C					
	standards stipulated by		nwind direction					-
	GPCB.		ed. This also cove			_		
		had been sho	own to authority	like SPCB, CPC	B & M	oEF dui	ring their visit	to our
		factory.	_					
		emission leve	m values during el went beyond tl	-	-			
		given below:						
		Summary of	Ambient Air Qu	ality results:				
		Station	Parameter	Limit microgm/NM ³	Values - Oct		period May 17	
					Min.	Max.	Avg.	
		66 KV	RSPM (PM2.5)	60	22.0	29.0	26.3	
			PM10	100	48.0	59.0	55.0	
			SO2	80	8.2	56.0	17.0	
			NOx	80	9.5	11.8	10.4	
			Ammonia	850	ND	10.2	1.7	
			HC1	200	ND	5.6	1.7	

		Opposite	RSPM (PM2.5)	60	07.0	25.0	20.7	
		Shed D	PM10	100	27.0	35.0	30.7	
					49.0	59.0	53.5	
			SO2	80	10.4	11.2	10.6	
			NOx	80	11.2	13.6	11.9	
			Ammonia	850	13.4	18.2	15.6	
			HC1	200	ND	ND	ND	
		Near West	RSPM (PM2.5)	60	31.0	38.0	33.8	
		site ETP	PM10	100	51.0	58.0	55.0	
			SO2	80	10.2	11.2	10.7	
			NOx	80	12.2	13.2	12.6	
			Ammonia	850	ND	ND	ND	
			HC1	200	ND	ND	ND	
		Near North	RSPM (PM2.5)	60	30.0	37.0	33.2	
		ETP	PM10	100	49.0	56.0	53.5	
			SO2	80	9.6	10.8	10.1	
			NOx	80	1.4	13.6	9.9	
			Ammonia	850	11.2	14.6	13.1	
			HC1	200	ND	ND	ND	
		TSDF	RSPM (PM2.5)	60	30.0	38.0	35.5	
			PM10	100	52.0	59.0	56.5	
			SO2	80	9.6	12.2	11.2	
			NOx	80	11.4	14.6	13.1	
			Ammonia	850	ND	ND	ND	
			HC1	200	ND	ND	ND	
		Main Guest	RSPM (PM2.5)	60	20.0	28.0	22.3	
		House	PM10	100	45.0	52.0	49.0	
			SO2	80	10.2	11.2	10.5	
			NOx	80	10.8	12.6	11.5	
			Ammonia	850	ND	ND	ND	
			HC1	200	ND	ND	ND	
					עויו	עויי	11,10	

	Wyeth	RSPM (PM2.5)	60	20.0	27.0	23.5
	Colony	PM10	100	46.0	54.0	50.7
		SO2	80	8.6	11.4	9.7
		NOx	80	9.2	12.8	10.8
		Ammonia	850	ND	ND	ND
		HC1	200	ND	ND	ND
	Gram	RSPM (PM2.5)	60	21.0	26.0	23.8
	panchayat hall	PM10	100	46.0	54.0	49.7
	nan	SO2	80	9.2	10.2	9.6
		NOx	80	9.6	11.4	10.7
		Ammonia	850	ND	ND	ND
		HC1	200	ND	ND	ND
	Main office,	RSPM (PM2.5)	60	23.0	35.0	27.3
	North site	PM10	100	47.0	59.0	54.3
		SO2	80	9.6	12.8	11.5
		NOx	80	10.2	13.4	12.3
		Ammonia	850	ND	ND	ND
		HC1	200	ND	ND	ND
	Haria water	RSPM (PM2.5)	60	20.0	28.0	24.0
	tank	PM10	100	38.2	52.0	45.5
		SO2	80	6.2	9.3	7.4
		NOx	80	7.6	10.8	9.3
		Ammonia	850	ND	ND	ND
		HC1	200	ND	ND	ND
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 case foun	d.			

	A.4 SOLID/ HAZARDOUS	
	WASTE:	
31.	The company shall strictly	Complied.
	comply with the rules and	
	regulations with regards to	
	handling and disposal of	
	Hazardous waste in	
	accordance from time to time.	
	Authorization from the GPCB	Complied . We have CCA valid up to 3.11.19
	shall be obtained for	
	collection /	
	treatment/storage disposal of	
	hazardous waste.	
32.	Hazardous waste sludge shall	Complied . There is no Haz. waste generation in this project.
	be packed 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	Complied . Used oil is being sold to GPCB authorized vendor namely ABC Organics
	only to the registered	& Chemicals.
	recyclers / refiners.	
34.	The discarded containers /	Complied . No bags / liners are being utilized for Power Plant.
	barrels /bags/ liners shall be	
	sold only to the registered	
	recycler.	
35.	For storage of fly ash closed	Complied . Fly ash Silos 2 No's of storage capacity 300 Cu.M each have been
	silos of adequate capacity	installed. A separate bed ash silo of 100 Cu.M has been installed.
	shall be provided.	
	No ash pond shall be	Complied . No ash pond is construed in the project.
	construed in the project.	
36.	The fly ash shall be supplied	Complied. Fly ash is being given to Cement and Bricks manufacturers and also
	to the manufacturers of fly	being used for our own Bricks Manufacturing unit.
	ash based products such as	

	cement, concrete blocks,	
	bricks, panels, etc.	
	The unit shall strictly comply	Complied . We are complying with the Fly Ash Notification under EPA and there is
	with the Fly Ash Notification	100% utilization of fly ash being generated from the unit. Please refer point 28.
	under EPA and it shall be	
	ensured that there is 100%	
	utilization of fly ash to be	
	generated from the unit.	
37.	All possible efforts shall be	Complied.
	made for co-processing of the	
	Hazardous waste prior to	
	disposal into TSDF/CHWIF.	
	disposar into 1821 / Clivii .	
	A.5 SAFETY:	
38.	The project management shall	Complied.
	strictly comply with the	
	provisions made in the	
	Factories Act, 1948 as well as	
	manufacturer, storage and	
	Impact of Hazardous	
	chemicals Rules 1989 as	
	amended in 2000 for handling	
	of hazardous chemicals.	
39.	Necessary precautions like	Complied . Lignite is usually used on the same day of its receiving at site as far as
	continuous monitoring of hot	possible. Lignite is not being stored for not more than 3-4 Days. However, Water
	spot (ignite lignite) using	spray and fire hydrant system is available for the fuel storage sheds.
	temperature detection	
	systems water sprinklers,	
	avoiding stacking of lignite	
	near stream pipeline etc shall	
	be made for storing lignite to	
	prevent fire hazard.	
40.	All the risk mitigation	Complied. All recommendations implemented.
	measures, general & specific	

	recommendations mentioned	
	in risk Assessments Report	
	shall be implemented.	
41.	A well designed fire hydrants	Complied. Fire hydrant system is adequate and as per standards.
	system shall be installed as	
	per the prevailing standards.	
42.	Personal protective	Complied. PPEs like nose masks, safety goggles, chemical resistive aprons, fire
	Equipment shall be provided	proof apron, Hand gloves, safety helmet, welding goggles, ear mugs, safety shoes etc
	to worker and its usage shall	are provided to the workers and utilization of the PPEs is followed strictly in Power
	be ensured and supervised.	Plant.
43.	First Aid Box and required	Complied. First aid box are kept in each plant and at strategic locations whereas
	antidotes for the chemical	antidotes are kept in the medical Centre.
	used in the unit shall be	
	readily available in adequate	
	quantity at all the times.	
44.	Occupational health	Complied . Being done on regular basis as per the Factories Act & rules.
	surveillance of the workers	
	shall be done its records shall	
	be maintained. Pre -	
	employment and periodical	
	medical examination for all	
	the worker shall be	
	undertaken as per the	
	Factories Act & rules.	
45.	Flameproof fittings shall be	Complied . Flame proof fittings are provided.
	provided at the proposed	
	power plant.	
46.	Adequate firefighting facilities	Complied. Firefighting facilities are adequate.
	shall be provided at the	
	proposed power plant.	
47.	Proper ventilation shall be	Complied. Proper ventilation provided.
	provide in the work area.	
48.	All transporting routes within	Complied . The roads inside factory are either of cement concrete or Bitumen
	the factory premise shall have	concrete.

	1	
	paved roads to minimize	
10	splashes and spillages.	
49.	The project management shall	Complied. Detailed disaster management plan is already prepared.
	prepare a details Disaster	
	management plan (DMP) for	
	the project as the guidelines	
	from Directors of Industrial	
	safety and Health.	
	A.6 NOISE:	
50.	To minimize the noise	Complied.
	pollution the following noise	
	control measures shall be	
	implemented.	
	Selection of any new plant	Complied. All steam vents have attached with Silencers. Low noise level is
	equipment shall be made with	considered as one of the prime specifications while selecting new machines in Power
	specifications of low levels.	plant. For Example, Replacement of reciprocating type noisy air compressors by low
		noise emitting screw air compressors.
	Manufacturer / supplier of	Complied.
	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.	
	Regular maintenance of	Complied.
	machinery and vehicles shall	•
	be undertaken to reduce the	
	noise impact.	
	Noise suppression measures	Complied . Acoustic enclosures are provided on DG sets. Silencers have been
	such as enclosures, buffers	provided on main steam vent valves of Boilers.
	dell'as chelosares, ballets	provided of filalif stealif verit varves of Bollers.

and / or protective measures	
shall be provided.	
Employees shall be provided	Complied
with ear protection measures	Compilea.
like earplugs or earmuffs.	
	0
Proper oiling lubrication and	
preventive maintenance shall	
be carried out of the	
machineries and equipment	
to reduce noise generation.	
	Complied.
generating minimum noise	
vibration shall be chosen.	
Ear plugs and / muffs shall	Complied.
be made compulsory for the	
construction workers working	
near the noise generating	
activities / machines /	
equipment.	
Vehicles and construction	Complied.
equipment with internal	
combustion engines without	
proper silencer shall not be	
allowed to operate.	
	Complied.
meeting the norms specified	
by EP Act, 1986 shall only be	
used.	
Noise control equipment and	Complied.
baffling shall be employed on	
generators especially when	
they are operated near the	
residential and sensitive	
areas.	

	,							
	Noise levels shall be reduced	Compli	e d.					
	by the use of adequate							
	mufflers on all motorized							
	equipment							
51.		Compli	ed. Silencers, acoustic hoo	d are provided	1.			
	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.							
	The ambient noise levels shall	Compli	ed. The ambient and wo	rkplace noise	e level	confirms	to the	standard
	confirm to the standards	prescrib	ed under EPA. The same i	is being regul	larly mo	nitored a	and its d	etails are
	prescribed under the	given in	Table 4 and 5. (Pl. see pg.	no. 28, 29)				
	Environment (protection) Act							
	and Rules. Workplace noise		ximum values during the					
	levels for workers shall be as	noise en	nission level went beyond th	ie stipulated s	tandard	s. Summ	ary is giv	en below:
	per the factories Act and Rules.	Noice 1	erol monitoring data (Darr	Time)				
	Rules.	Sr.	evel monitoring data (Day Location	Permissible	Values	for the pe	eriod	٦
		No.	Docacion	Limits, dBA		' – Oct 17		
				75	Min.	Max.	Avg.	-
		1	Near Main guest house	75	58	65	62	1
		2	Near TSDF	75	61	67	63	1
		3	At Wyeth Colony	75	58	62	60]
		4	Gram Panchayat Hall	75	58	63	60	
		5	Near Main Office North site	75	57	63	59	
		6	ETP North site	75	62	67	65	
		7	Opposite shed D	75	62	68	65	
		8	ETP West site	75	61	68	64]

		По	777 / 1 77 * 1	T mm	C 4	1.60		
		9	Water tank Haria road	75	64	68	66	<u> </u>
		10	Near 66KVA substation	75	59	67	63	
			level monitoring data (Nig	ht Time) Permissible	T 77.4 .	. C 41		1
		Sr. No.	Location	Limits, dBA		s for the 7 – Oct 1		
				70	Min.	Max.	Avg.	
		1	Near Main guest house	70	52	58	56	
		2	Near TSDF	70	54	59	57	
		3	At Wyeth Colony	70	51	55	53	
		4	Gram Panchayat Hall	70	52	58	55	
		5	Near Main Office North site	70	51	57	54	
		6	ETP North site	70	58	61	60	
		7	Opposite shed D	70	54	62	59	
		8	ETP West site	70	52	62	58	
		9	Water tank Haria road	70	56	62	58	
		10	Near 66KVA substation	70	55	62	58	
	A.7 GREEN BELT AND OTHER PLANTATION.							
52.	The unit shall develop green belt in at least 68000 sq.m	Comp year.	lied. Green belt is developed	l and we plan	ted mo	re than 5	50000 plar	nts every
	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.	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		lied . We plant more than 5 reas in nearby villages or so					

	consultation with the Gram	
	panchayat / GPCB and	
	submit an action plan for the	
	same for next three years to	
	the GPCB.	
	B.OTHER CONDITIONS:	
54.	In the event of failure of any	Complied . No such case during the repot period. However, if such case happens we
	pollution control system	ensure to close down the unit.
	adopted by the unit, the unit	
	shall be safely closed down	
	and shall not be restarted	
	until the desired efficiency of	
	the control equipment has	
	been achieved.	
55.	All the recommendation ,	Complied.
	mitigation measures	
	environments protection,	
	measures and safeguard	
	proposed in the EIA report of	
	the project prepared by M/s;	
	Eco chem Sales &Service	
	surat & submitted vide letter,	
	no NIL dated 03/11/2015	
	and commitments made	
	during presentation before	
	SEAC, proposed in the EIA	
	report shall be strictly	
	adhered to in letter and spirit.	
56.	All the recommendation of	Complied . CREP guidelines is being followed.
	CREP guidelines as may be	
	applicable from time to time	
	shall be following vigorously.	
57.	A separate environment	Complied . Implementation of stipulated environmental safeguards were ensured by
	management cell with	the Company's SHE department.
	qualified staff shall be set up	

	for implementation of	
	stipulated environmental	
	safeguards.	
58.	The project authorities must	Complied.
	strictly adhere to stipulations	
	made by the Gujarat Pollution	
	Control Board (GPCB), state	
	government and statutory	
	authority.	
59 .	No further expansion or	Complied . No further expansion took place.
	modification in the plant	
	likely to cause environmental	
	impacts shall be carried out	
	without obtaining prior	
	Environment Clearance from	
	the concerned authority.	
60.	The above conditions will be	Noted.
	enforced, inter-alla under the	
	provisions of water	
	(prevention &Control or	
	pollution) Act, 1974, Air	
	(prevention & Control of	
	pollution) Act, 1981, the	
	Environment (Protection) Act,	
	1986, Hazardous & other	
	wastes (Management and	
	Trans boundary Movements)	
	Rules 2016 and the public	
	liability insurance Act, 1991	
	along with their amendments	
	and rules.	
61.	The project proponent shall	Complied.
	comply all the conditions	
	mentioned in 'The Companies	
	(Corporate Social	
	Responsibility Policy) Rules,	

	<u> </u>			
	2014 and its amendments			
	from time to time in a letter			
	and spirit.			
62.		Complied . All the recommendations suggest		
	ensure that unit complies	assessments study repot as well as proposed b	y us have been	implemented.
	with all the environment			
	protection measures, risk			
	mitigation measures and			
	safeguards recommended in			
	the EMP report and Risk			
	.Assessments study repot as			
	well as proposed by project			
	proponent.			
3.	The project authorities shall	Complied.		
	earmark adequate funds to			
	implement the conditions	EMP measures are implemented.		
	stipulated by SEIAA as GPCB	A separate budget is being allocated every	year to comply	y with all the legal
	along with the	requirement stipulated by SPCB, CPCB & Mo		
	implementation scheduled for	control systems and facilities. Total expenditu	ire is given in b	elow table including
	all the conditions stipulated	EMS implementation:		
	herein. The funds so provided		1	
	shall not be diverted for any	Details	Expense in	
	other purpose.	Details	Lac Rs.	
		Site development	25	
		Civil work	2000	
		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 /	Complied. The advertisement given in newspapers as well as copies distributed to the Panchayat, Zila parishad, District Industrial Centre on 11.11.2016.
	SEAC/ GPCB. This shall be advertised	Complied. The advertisement copy already submitted vide our letter dated 27.1.17.
	within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in	
	that are widely circulated in the region, one of which shall be in the Gujarat language and the other in English.	
	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	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.
	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	Complied. We regularly submit the half-yearly compliance report.

	and soft copies to the	
	regulatory authority	
	concerned on 1st June and	
	1st December of each	
	calendar year.	
67.	Concealing factual data or	Noted.
	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.	
68.	The project authorities shall	Complied.
	also adhere to the	
	stipulations made by the	
	Gujarat Pollution Control	
	Board.	
69.	The SEIAA may revoke or	Noted.
	suspend the clearance. If	
	implementation of any of the	
	above conditions is not found	
	satisfactory.	
70 .	The company in a time bound	Noted.
	manner shall implement	
	these conditions. The SEIAA	
	reserves the stipulate	
	additional conditions, if the	
	same is found necessary.	
71.	The project authorities shall	Complied.
	inform the GPCB, Regional	
	Office of MoEF and SEIAA	
	about the date of financial	

	closure and final approval of	
	the project by the concerned	
	authorities and the date of	
	start of the project.	
72.	This environmental clearance	Noted.
	is valid for seven years from	
	the date of issue.	
73.	Any appeal against this	Noted.
	environmental clearance shall	
	lie with the National Green	
	Tribunal, if preferred, within a	
	period of 30 day as prescribed	
	under section 16 of the	
	National Green Tribunal Act,	
	2010.	

Table 1 : Stack Result

No.	Parameter	Standard values as per CCA	Unit	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17
1	SPM	50	mg/Nm³	38	35	34	32	38	40
2	SO_2	100	ppm	35	32	30	35	35	38
3	Nox	50	ppm	36	34	28	31	37	36
4	Mercury	-	-	ND	ND	ND	ND	ND	ND

Table 2: Fly ash generation and disposal details:

Fly Ash	Unit	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17
Generation	MT	2810.964	2431.85	2629.122	2452.76	3089.877	1901.21
Disposal	MT	2810.964	2431.85	2629.122	2452.76	3089.877	1901.21

Table 3: Ambient air monitoring:

Station	Dorometer	Limit microgm/NM ³	May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17
	PM 2.5	60	28	26	22	27	26	29
	PM10	100	57	52	48	56	59	58
66 KV	SO2	80	10.8	9.2	8.2	56	8.6	9.2
00 KV	NOx	80	11.8	10.6	11.2	9.5	9.8	9.6
	Ammonia	850	0	0	0	10.2	0	0
	HC1	200	0	0	0	0	4.8	5.6
	PM 2.5	60	35	33	29	27	29	31
Opposite	PM10	100	59	56	54	52	49	51
Shed D	SO2	80	10.4	11.2	10.6	10.4	10.8	10.4
	NOx	80	12.2	13.6	11.2	11.4	11.8	11.2

	Ammonia	850	16.4	15.4	13.4		14.4	18.2
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	32	36	31	32	34	38
	PM10	100	54	58	51	56	53	58
	SO2	80	11.2	10.8	10.2	10.8	10.2	11.2
	NOx	80	13.2	12.6	12.4	12.2	12.6	12.8
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	37	35	33	30	31	33
	PM10	100	56	53	49	54	56	53
Near North ETP	SO2	80	10.6	10.8	9.6	10.4	9.6	9.8
Near North ETP	NOx	80	12.4	13.6	10.6	1.4	10.8	10.6
	Ammonia	850	13.4	14.6	12.5		11.2	13.8
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	35	38	30	35	38	37
	PM10	100	52	56	55	58	59	59
TODE	SO2	80	11.6	12.2	9.6	11.2	11.8	10.6
ISDF	NOx	80	13.4	14.6	13.2	12.4	13.4	11.4
TSDF	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	20	23	21	20	22	28
	PM10	100	49	51	48	45	49	52
Main Guest House	SO2	80	10.2	10.8	10.4	10.2	10.4	11.2
Main Guest nouse	NOx	80	11.6	11.2	11.6	11.2	10.8	12.6
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	22	20	24	22	27	26
	PM10	100	51	46	52	49	52	54
Wyeth Colony	SO2	80	10.4	9.2	11.4	8.6	9.4	9.3
	NOx	80	10.8	10.4	12.8	9.2	10.6	11.2
	Ammonia	850	0	0	0	0	0	0

	HC1	200	0	0	0	0	0	0
	PM 2.5	60	21	22	26	23	25	26
	PM10	100	46	50	51	48	49	54
Gram panchayat	SO2	80	9.2	9.6	10.2	9.3	9.8	9.3
hall	NOx	80	9.6	10.8	11.4	10.6	10.4	11.2
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	27	25	23	26	28	35
	PM10	100	58	56	47	50	56	59
Main office, North	SO2	80	12.3	12.8	9.6	10.8	11.2	12.4
site	NOx	80	13.4	13.1	10.2	11.4	12.2	13.2
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0
	PM 2.5	60	22	20	26	24	24	28
	PM10	100	42	46	38.2	49	46	52
Haria water tank	SO2	80	7.2	6.4	7.9	9.3	6.2	7.2
	NOx	80	10.8	9.8	8.8	10.2	7.6	8.4
	Ammonia	850	0	0	0	0	0	0
	HC1	200	0	0	0	0	0	0

Table 4: Noise level monitoring data (Day Time)

Sr. No.	Location		Noise Level, dBA							
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	75		
1	Near Main guest house	58	60	62	61	63	65	75		
2	Near TSDF	62	63	61	63	62	67	75		
3	At Wyeth Colony	61	58	59	60	60.4	62	75		
4	Gram Panchayat Hall	59	62	63	58	59	61	75		
5	Near Main Office North site	63	57	58	59	57	59	75		
6	ETP North site	67	65	66	65	64	62	75		
7	Opposite shed D	66	68	64	63	62	64	75		

8	ETP West site	68	66	63	61	63	62	75
9	Water tank Haria road	64	64	67	68	66	65	75
10	Near 66KVA substation	59	61	64	67	64	61	75

Table 5: Noise level monitoring data (Night Time)

Sr. No.	Location	Noise Lev	Noise Level, dBA								
								Limits, dBA			
		May-17	Jun-17	Juy-17	Aug-17	Sep-17	Oct-17	70			
1	Near Main guest house	52	55	56	58	56	58	70			
2	Near TSDF	56	57	57	59	57	54	70			
3	At Wyeth Colony	54	53	54	55	52	51	70			
4	Gram Panchayat Hall	52	57	58	56	54	53	70			
5	Near Main Office North site	57	52	53	51	53	56	70			
6	ETP North site	61	60	59	58	61	58	70			
7	Opposite shed D	60	62	60	56	59	54	70			
8	ETP West site	62	61	57	55	58	52	70			
9	Water tank Haria road	57	58	62	57	56	59	70			
10	Near 66KVA substation	56	55	58	62	61	57	70			