

Atul Ltd

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

EC Compliance Report for the period October 2019- March 2020 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 HCI) and particulate matters from various process	The g proce Deta	•	irms to the st n below Tabl	tandards p e:	· ·		matters from \ B through CCA	
	units should confirm	N o.	Parameter	Standard values as	Unit	Values Oct19-	for the p Mar 20	eriod	
	to the standards prescribed by the	0.		per CCA		Min.	Max.	Avg.	
	concerned	1	SO ₂	40	mg/Nm ³	6.2	20.4	13.7	
	authorities from time to time.	2	SO ₂ (kg/T)	2	kg/T	0.4	0.8	0.5	
		3	NOx	25	mg/Nm ³	7.2	14.5	10.0	
		4	HCI	20	mg/Nm ³	2.5	15.5	9.6	
		5	РМ	150	mg/Nm ³	24	72	49.4	
		6	PM with Pesticide compound	20	mg/Nm ³	6.3	13.4	8.5	
		Sum	mary of Flue	Stack resul	ts:	·		·	
		Ν	Parameter	Standard	Unit	Values	for the p	eriod	
		о.		values as		Oct19-	Mar 20		
				per CCA		Min.	Max.	A∨g.	
		1	РМ	100	mg/Nm ³	52	88	68.1	
		2	PM (New Boiler)	50	mg/Nm ³	25	39	33.6	
		3	SO ₂	600	mg/Nm ³	102	136	115.8	
		4	NOx	600	mg/Nm ³	103	145	122.4	
		5	NOx (NewBoiler)	300	mg/Nm ³	93	105	100.5	

		Details of stack results for the compliance period is given in Table 1 . (Pl. see pg. no. 18)
	At no time, the	Complied.
	emission levels	
	should go beyond the	Monthly monitoring is being done by GPCB approved, NABL approved agencies.
	stipulated	At no time, the emissions exceeded the prescribed limits during report period.
	standards.	
		Summary of stack results given in specific condition no. i as above.
	In the event of failure	Complied.
	of pollution control	
	system(s) adopted	No such case happened during compliance period.
	by the unit, the	
	respective unit	
	should not be	
	restarted until the	
	control measures are	
	rectified to achieve	
	the desired	
	efficiency.	
ii	Ambient air quality	Complied.
	monitoring Station	•
	should be set up in	10 Ambient air quality monitoring Station have been set up in down wind
	down wind direction	direction as well as where max. ground level concentration of SPM anticipated
	as well as where	in consultation with GPCB. The same had been shown to authority like SPCB,
	max. ground level	CPCB & MoEF during their visit to our factory.
	concentration of	5 ,
	SPM anticipated in	List of our ambient air monitoring station is given below:
	consultation with the	No. Location
	state pollution	1 66 KVA GEB substation
	control board.	2 Opposite Shed D
		3 Near ETP (West Site)
		4 ETP Plat (North site)
		5 Near TSDF
		6 Near Main Guest House
		7 At Wyeth Colony
		8 Gram panchayat hall
		9 Near Main office, North site
		10 Water tank at Haria Road
iii	Fugitive emission in	Complied.
	work zone	complica.
	environment,	Fugitive emissions in the work zone environment and raw material storage area
	product, raw	is being regularly monitored by NABL approved third party.
	material storage	
	areas must be	
	regularly monitored.	
L	regularly monitored.	

	is given bel		Dennest	Duran the L	17-1		
	Plant	Area	Parameter	Prescribed Limit	Millig	-	DCs in r NM ³ for the D- Mar 20
					Min.	Max.	Avg.
	2,4 D	Reactor	Phenol	19	11.6	16.6	13.38
		Buffer tank	Chlorine	3	1.6	2.4	1.95
	Resorcinol	Benzene storage tank area near vent	Benzene	15	7.9	11.3	9.28
		Near Extraction /scrubber unit	Butyl acetate	-	602	739	671.67
	Pharma	At second floor work area	Ammonia	18	10.6	17.4	13.10
		Ammonia recovery area	Ammonia	18	11.6	17.1	15.27
	Epoxy - I	At vacuum pump 2nd floor	ECH	10	2.9	6	4.57
		At vessel POS 1208 G.F	ECH	10	5.2	9.2	6.97
	Shed H	At second floor work area	Nitrobenzen e	5	2.3	4	3.20
	Shed J	Buffer Tank	Chlorine	3	1.7	2.6	2.23
		the compliar	nce period is g	given in Table	e 2. (Pl.	see pg	. no. 22)
The company should install alkali	Complied.						
scrubbing of HCI.	installed du	ial scrubbing	rubbing of H g system i.e. c HCI in majori	combination o	of caus	stic and	water scrul

pH of the scrubber	Complied.
tank should be	
monitored regularly.	pH of the scrubber tank is monitored regularly and logged. It is a regular operating practice.
Liquid effluent	Complied.
generated from the	
scrubber should be	Liquid effluent generated from the scrubber is being sent to ETP along with plant
sent to effluent	effluent stream.
treatment plant.	
All the process	Complied.
equipment/reaction	
vessels should be	Central exhaust system has been provided at strategic locations and the critical
connected with	operations evolving the hazardous gases are routed through multiple stage
central exhaust	scrubbing system.
system.	
Further measures	Complied.
should be taken to	
reduce the losses of	Reactors are connected to chilled brine condenser system. Breather valves have
solvents.	been provided to all solvent storage tanks.
Cooling arrangement	Complied.
should be made for	
all the solvent	Our Most of solvent storage tanks are underground. All the storage tanks are in
storage tanks to	close loop which is connected to condenser to minimize evaporation losses.
minimize	
evaporation losses.	
The company should	Complied.
monitor VOCs from	
the incinerator and	Incinerator stack has been regularly monitored and data submitted regularly to
data submitted	GPCB and MoEF through six monthly EC compliance report. Details of stack
regularly to SPCB	results for the compliance period is given in Table 1. (Pl. see pg. no. 18)
and Ministry of	
Environment and	
forests.	

iv	The effluent generation should not exceed 1191	Complied.		e another	FC arant	ed in 201	9 for evo	ansion w	re request	
	m3/day (936 m3/d of process effluent and	However, since we have another EC granted in 2019 for expansion, we request to consider latest figures given in same. According to specific condition of EC F No. J 11011/108/2015-IA-II-(I)								
	255 m3/d of domestic effluent).	dated11.02.20 m³/d.				-				
		The average w Detail break up		•	tion for tl	ne report	period is	8327 m ³ ,	/day only.	
		Wastewater generation m³/day	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	Total	
		Month wise	291813	257071	282245	254951	225463	213113	1524656	
		Per day	9413	8569	9105	8224	7775	6875	Avg. 8327	
		The maximum wastewater ge given below:		•	•	•				
		Wastewater generation		Stipulate value		es for the 9- Mar 20	•			
		generation			Min.	Max.	Avg.			
		Wastewater generation m ³	/d	20514	6875		8327			
	The effluent should be segregated at	Complied.			I	-				
	source of generation.	Concentrated e recovery proces		5 5	ted and c	hemicals	are being	g retrieve	d through	
	The Concentrated effluent stream	Complied.	famada					. (
	should be incinerated and non- concentrated effluent after tertiary treatment should be discharged into the CETP.	Among the re concentrated. and product so to ETP where it	Ne have obtained	installed d are sold	distillatio After rec	on plant v covery of	vhere the product, l	e stream i ean efflue	s distilled ent is sent	

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	The value no. 2 & 20 The r <u>emis</u>	naximum values during sion went beyond the st	s of treated we have co the complia ipulated sta	effluent i irried out nce perio	s given EIA stu od confir	in Table 3 dy of river ms that a y is given	8. (Pl. see pg. Par in 2009 t no time the
Control Board/EPA	Sr.	Parameter	Norms		for the		
rules.	N			-	- Mar 20		
	0.			Min.	Max.	Avg.	
	1	рН	5.5-9.0	6.23	8.19	7.19	
	2	Temperature	40 deg C	30.1	31.8	31.09	
	3	Colour (pt. co. scale)in units		78	140	92.86	
	4	Suspended solids	100 mg/l	62	98	79.57	
	5	Phenolic Compounds	5 mg/l	0.039	0.088	0.05	
	6	Cyanides	0.2 mg/l	ND	ND	ND	
	7	Fluorides	2 mg/l	0.62	0.75	0.69	
	8	Sulphides	2 mg/l	0.9	1.8	1.23	
	9	Ammonical Nitrogen	50 mg/l	34	48	41.00	
	10	Total Chromium	2 mg/l	ND	ND	ND	
	11	Hexavalent Chromium	1 mg/l	ND	ND	ND	
	12	BOD (3 days at 27°C)	100 mg/l	57	78	64.29	
	13	COD	250 mg/l	205	240	218.29	

r											1
	The domestic waste	Complied.									
	water should be	_			_						
	disposed off through	Domestic waste	water goes	s to se	ptic	tank an	d subs	eque	ently in t	o ETP foi	further
	septic tank / soak pit	treatment.									
	system.										
		Detail of Domest	ic effluent	gener	atio	n is give	<u>n in be</u>	low	table:	-	_
		Domestic	Oct 19	Nov	19	Dec 1	9 Jan	20	Feb 20	Mar 20	Total
		Wastewater									
		generation m ³									
		Month wise	12281	1037	74	12189	9691		7774	9266	61575
							_				
		Per day	396	335		393	313		251	299	331
											Avg.
											Avy.
		The maximum, m		nd ave			<u> </u>				
		Domestic Wast	tewater		Val	ues for	the pe	riod	Oct19-		
		generation			Ма	r 20					
					Mir	n. M	ax.	Avg	j .		
		Domestic Wast	ewater		251	L 39	96	331			
		generation m ³ /c	ł								
v	The Company should	Complied.									
	also Set up a	•									
	separate online fish	We have set up	a separate	online	e fisł	ר pond ו	using tr	reate	d efflue	nt at our	ETP.
	pond using treated		•			•	0				
	effluent, to ensure										
	that the quality of										
	treated effluent										
	discharged into the										
	par estuary does not										
	have any adverse										
	impact on the										
	aquatic life.										
	The effluent quality	Complied.									
	at the discharge	complicu.									
	point must also be	The effluent qua	lity at the	FTP d	lisch	arae no	int is r	eaula	arly beij	na monit	ored by
	monitored	the Environment						egun		ig morne	orea by
	periodically by an			appo	intee		св.				
	independent agency	GPCB also mon	itor the tr	ented	٥ff	uent ai	uality (nt re	aular i	ntervals	Recent
	authorized by CPCB	monitoring result				•	-		guiur ii	itervuis.	necent
	and report of the	inomiconing result		13 411	acric			с Л .			
	independent agency	The river water	auality at	tha di	scho	irae noi	nt ic ra	مسام	urly hair	na monit	ored by
								-	-	-	-
1	chould be cupmitted				annr	atorioc	$D_{1} + 1 +$	-d N	10FF ~~	nnnn	adency
	should be submitted to the Ministry's	GPCB. Agencies Envision Enviro								•	· ·

	Regional office at Bhopal/CPCB/GPCB	monitoring in 2009 & 2105 respectively. Relevant extracts from latest reports were submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4.4.17.
vi	As reflected in the EIA/EMP report, the solid waste and ETP sludge should be incinerated and incinerator ash should be disposed off in the landfill facility within the plant premises.	Complied . ETP waste is disposed into our TSDF instead of incineration for which we have taken permission from MoEF vide letter dated 6.5.04 and same is also approved by GPCB through our CCA. We also send our incinerable waste for co-processing as per GPCB approval given through our CCA.
	The ground water quality in and around the unit and the hazardous waste storage site should be regularly monitored and the data recorded to ensure that there is no contamination of the groundwater.	Complied . Ground water quality is being checked regularly for in and around the unit and the hazardous waste storage site. Latest Groundwater analysis report was submitted to your good office vide later dated March 11, 2020
vii	The destructive efficiency of the incinerator should be assessed by an agency like CPCB and a report submitted to the Ministry.	Complied . The destructive efficiency of the incinerator was assessed by M/s. SGS, a reputed agency in field on environmental monitoring. Report already submitted vide our letter Atul/SHE/MoEF/Visit/3 dated 4.4.17.
viii	The company should comply with the provisions of coastal Regulation Zone Notification of 1991 and Coastal Zone Management Plan of Gujarat.	Complied.
	Further, specific conditions stipulated by the Forest and Environment Department, Government of	Complied . Detailed compliance report is already submitted to the Ministry vide our letter our letter Atul/SHE/MoEF/Visit/3 dated 4.4.17.

ix	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. Occupational Health Surveillance of the workers should be	Оссиро	ational health surv		orkers is being done on regular basis
	done on a regular basis and records	and rea	cord maintained as	s per the factory o Qty	act which is shown in below table: Check-up
	maintained as per	1	Staff	6361	•
	the Factories Act.			0501	Pre-Employment
		2	Operators		
		3	Workers		
		Annual	Medical Check-U	p: FY April-19 to	March-20
		SN	Employee	Qty	Check-up
		1	Staff	3145	Annual Checkup
		2	Operators		
		3	Workers		
×	The company should develop rainwater harvesting structures to the harvest the run off water from the rooftops and by laying a separate storm water drains system for recharge	to harv with ra Beside: water.	iny has expanded est rain water. We in harvested wate s this, there are th We are also cor	e are creating faci or with zero river on nree check dams nstructing tempo	nd capacity to 9000 KL capacity pond lity/ capacity to cater our consumption drawls of water during the rainy days. and pumping facility to harvest rain rary sand bag dam on top of dam itional free flowing rain water in river

	the section of the section of the	
	to reduce the drawl	
-	from the river Par.	
	The project	Complied.
	authorities may	
	undertake a survey	The survey was carried out to assess the impact of emission/pollutants on the
	to assess the impact	health including respiratory & digestive systems of population within & vicinity of
	of gaseous	the plant. So far no major illness have been identified. Report submitted vide our
	emissions/pollutants	letter ref. Atul/MoEF/Reg/4 dated 16.8.04.
	on the health	
	including respiratory	
	and digestive system	
	of the population	
	within and vicinity of	
1	the plant and report	
	submitted to the	
	State Government	
	and to this Ministry	
	within six months.	
-	The Company should	Complied.
		complied.
	developed a green	
	belt in an 25% of the	Company has developed green belt and dense plantation inside the factory in
	plant area as per the	area more than 33 % of total land. Company is having green belt development
	CPCB guidelines.	plan and planting more than about 50000 plants per year on regular basis.
xiii	As per the policy	Complied.
	decision taken vide	
1	this Ministry's	We had submitted the Eco fund earmarked for eco development to GPCB with
	circular no. J-	an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated 17.05.2004. Action
	21011/8/98- IA II (I)	plan related to Eco-fund also made as per process and communicated to
	dated 14th May 2002	authority wide our letter Atul/ECC/GPCB/ECO-fund/2 dated 2.11.2004. Copy of
	and 23rd June, 2003,	same again submitted to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated
	-	5
	the company shall	4.4.17.
	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
	The amount shall be	Complied.
	deposited within	
1 1 4	three months in a	We had submitted the Eco fund earmarked for eco development to GPCB with
	separate account to	an intimation to MoEF vide our letter NRK/ECC/GPCB/3 dated 17.05.2004.

	be maintained by	
	GPCB.	
	The plans in this	Complied.
	regard should be	
	submitted to the	Action plan related to Eco-fund also made as per process and communicated to
	SPCB as well as to	authority vide our letter Atul/ECC/GPCB/ECO-fund/2 dated 2.11.2004.
	the Ministry within	, , , , , , , , , ,
	three months of issue	
	of this letter.	
	After approval of the	Complied
	action plan by GPCB,	complied.
	the amount	
	deposited will be	
	released to the	
	project authorities in	
	two installments	
	based on the	
	progress of	
	implementation.	
	General Conditions	
i	The project	Complied.
	authorities must	
	strictly adhere to	The company adheres to the compliances and has not exceeded the stipulation.
	stipulations made by	This has been certified by our Environmental auditors, an authorized agency and
	GPCB.	nominated by GPCB; through Environmental audit every year.
		Latest compliance report by GPCB appointed Environmental auditor Faculty of
		Pacific school of Engineering, Dist. Surat for year 18-19 was submitted to your
		good office vide our letter dated July 09, 2019.
ii	At no time, the	Complied.
	emissions should not	
	go beyond	Monthly monitoring is being done by NABL approved third party.
	standards.	At no time, the emissions exceeded the prescribed limits during report period.
		The maximum values during the compliance period confirms that at no time the
		emission level went beyond the stipulated standards.
		······································
		Summary of stack results given in specific condition no. i as above.
	In the event of failure	Complied.
	of any pollution	
	control system	No such incident happened during compliance period.
	adopted by the units,	
	the respective unit	
	should be	
	immediately put out	
	of operation and	
	should not be	

	wastering with the							
	restarted until the							
	desired efficiency							
	has been achieved.	6						
iii	The overall noise	Comp	blied.					
	level in and around							
	the plant area shall		stic hood, silencer and a				ation are p	rovided at
	be kept well within	appro	opriate high noise area lil	ke turbine, DG s	set, ven	ts etc.		
	the standard by							
	providing noise							
	control measures							
	including acoustic							
	hoods silencers,							
	enclosures etc. on all							
	source of noise							
	generation.							
	The ambient noise	Com	olied					
	levels should confirm							
	to the standards	The	ımbient noise level is reg	ularly monitore	d and i	te data	are aiven	in Table 4
	prescribed under		5. (Pl. see pg. no. 23,24)		u unu i	is uutu	ure given	
	EPA Rules, 1989, viz.			ha compliance	noriod	confirm	a that at a	a time the
			naximum values during t					
	75 (daytime) and		emission level went be	yona the stipul	atea st	anaara	s. Summa	ry is given
	70bBA(night time)	belov						
			e level monitoring data (<u> </u>	l
		Sr.	Location	Permissible			ne period	
		No		Limits, dBA	Oct19)- Mar 🕻	20	
				,,	0001			
						T	1	
				75	Min.	Max.	Avg.	
			Near Main guest house			T	1	
		1 2	e e	75	Min.	Max.	Avg.	
			house Near TSDF At Wyeth Colony	75 75 75 75	Min. 55.7 61.2 49.7	Max. 61.2 64.2 57.3	Avg. 57.4 62.6 53.6	
		2 3 4	house Near TSDF At Wyeth Colony Gram Panchayat Hall	75 75 75 75 75 75	Min. 55.7 61.2	Max. 61.2 64.2	Avg. 57.4 62.6	
		2	house Near TSDF At Wyeth Colony	75 75 75 75	Min. 55.7 61.2 49.7	Max. 61.2 64.2 57.3	Avg. 57.4 62.6 53.6	
		2 3 4	house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office	75 75 75 75 75 75	Min. 55.7 61.2 49.7 60.8	Max. 61.2 64.2 57.3 63.5	Avg. 57.4 62.6 53.6 62.7	
		2 3 4 5	house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site	75 75 75 75 75 75 75 75 75 75 75 75 75 75	Min. 55.7 61.2 49.7 60.8 59.2	Max. 61.2 64.2 57.3 63.5 64.5	Avg. 57.4 62.6 53.6 62.7 62.18	
		2 3 4 5 6	house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site	75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75	Min. 55.7 61.2 49.7 60.8 59.2 63.2	Max. 61.2 64.2 57.3 63.5 64.5 68.5	Avg. 57.4 62.6 53.6 62.7 62.18 64.4	
		2 3 4 5 6 7	house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D	75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75 75	Min. 55.7 61.2 49.7 60.8 59.2 63.2 64.7	Max. 61.2 64.2 57.3 63.5 64.5 68.5 67.3	Avg. 57.4 62.6 53.6 62.7 62.18 64.4 66.0	
		2 3 4 5 6 7 8	house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Water tank Haria	75 75 75 <th>Min. 55.7 61.2 49.7 60.8 59.2 63.2 64.7 62.8</th> <th>Max. 61.2 64.2 57.3 63.5 64.5 68.5 67.3 68.5</th> <th>Avg. 57.4 62.6 53.6 62.7 62.18 64.4 66.0 64.5</th> <th></th>	Min. 55.7 61.2 49.7 60.8 59.2 63.2 64.7 62.8	Max. 61.2 64.2 57.3 63.5 64.5 68.5 67.3 68.5	Avg. 57.4 62.6 53.6 62.7 62.18 64.4 66.0 64.5	

		Nia:a						
		Sr.	e level monitoring data Location	Permissible	Valu	es for tł	ne	
		No		Limits, dBA	period Oct19- Mar			
		•			20			
		1	Near Main quest	70 70	Min.	Max.	Avg.	
		1	Near Main guest house		50.2	52.2	51.2	
		2	Near TSDF	70	43.7	58.7	55.0	
		3	At Wyeth Colony	70	43.7	51.1	47.0	
		4	Gram Panchayat Hall	70	53.4	58.4	56.1	
		5	Near Main Office North site	70	53.2	57.3	55.5	
		6	ETP North site	70	53.2	58.6	54.7	
		7	Opposite shed D	70	54.7	62.7	59.7	
		8	ETP West site	70	50.3	60.8	57.6	
		9	Water tank Haria road	70	50.3	55.8	53.1	
		10	Near 66KVA substation	70	53.8	63.2	57.1	
iv	The project	Com	olied.		•	•	<u> </u>	
	authorities will provide adequate	FMP	measures are implemen	ted by 2010 ar	nd man	v thinas	have already	been a
	funds to recurring	place	-	100 x) 2010 a	ia man	y ann go	nave anecay	o c c r c
	and non-recurring to							
	implement the							
	conditions stipulated by the Ministry of	Total	expenditure for year 19	-20 is given in	helow	table [.]		
	Environment and			Capital cost	T		ng Cost	
	Forest as well as the	S.N		annum (Rs			•	
	State Government along with the implementation schedule for all the		Parameter	lacs) 2019-2	20	For the	report period	
						Oct 19	– Mar 20	
			Air Pollution Control	124.17				
	conditions stipulated	1	Liquid Pollution	341.7		2444.5		
	herein. The funds so	2	Control					
	provided shall not be		Environmental	29.3		0 -		
	diverted for any other purposes.	3	Monitoring and			35		
			Management					

	1		Γ	Т						
		4	Solid waste Disposal	-	263.87					
		5	Occupational health	-	12					
		6	Green belt	-	5.0					
		Tota	1	495.17	2760.37					
v	The project	Comp	omplied.							
	authorities must									
	strictly comply with				regulations with regard to	•				
	the rules and		•		lance with the Hazardous a					
	regulations with				Movement) Rules, 2016.					
	regard to handling				A No. AWH-105110 for H	0				
	and disposal of hazardous wastes in				tipulation made in CCA by C					
	accordance with the	•	•		by our Environmental aud 3; through Environmental au					
	Hazardous Wastes	year.	inzed agency and normin		s, through Environmental du	uit every				
	(Management &	-	ear. atest compliance report by GPCB appointed Environmental auditor Faculty of							
	Handling) Rules,		Pacific school of Engineering, Dist. Surat for year 18-19 was submitted to your							
	2003.		good office vide our letter dated July 09, 2019							
	Authorization from	0			-					
	the GPCB must be									
	obtained for	We h	ave valid authorizatior	n under our o	current CCA No. AWH-10	5110 for				
	collections	handl	ing, storage and dispose	al of hazardou	s waste.					
	/treatment/ storage/									
	disposal of									
	hazardous waste.									
vi	The stipulated	Noted	1.							
	conditions will be									
	monitored by the									
	Regional office of									
	this Ministry at									
	Bhopal/ GPCB. A six monthly	Com	liad							
	A six monthly compliance report	Comp								
	and the monitored	Six m	onthly compliance repo	rt and the mo	nitored data are being subi	mitted to				
	data should be		inistry at Bhopal with co							
	submitted to them				c. cb regularly.					
	regularly.									
<u> </u>		1								

Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of Environment and Forest at	
http://www.envfor.ni .in. This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Ministry's Regional office at Bhopal.	Complied. Advertisement was published as directed and copy of the same was submitted to Ministry.

1		
3.0	The ministry or any	Noted.
	competent authority	
	may stipulate any	
	further condition(s)	
	on receiving reports	
	from the project	
	authorities.	Noted.
	The above conditions	
	will be monitored by	
	the Regional Office	
	of this Ministry	
	located at Bhopal.	
4.0	The Ministry may	Noted.
	revoke or suspend	
	the clearance if	
	implementation of	
	any of the above	
	conditions is not	
	satisfactory.	
5.0		Noted and will be complied.
5.0		
	or alternation in the	
	above conditions will	
	have to be	
	implemented by the	
	project authorities in	
	a time bound	
	manner.	

T I I I'''	
inter-alia under the	
provisions of the	
Water (Prevention	
and Control of	
Pollution) Act, 1974	
the Air ((Prevention	
and Control of	
Pollution) Act, 1981	
the Environment	
(Protection) Act,	
1986, Hazardous	
Wastes	
(Management and	
Handling)	
Amendment Rules,	
2003 and the Public	
Liability Insurance	
Act, 1991 along with	
their amendments	
and rules.	
	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

Table: 1 Stack results

	is of Process and Plas stars.		Sector Contractor	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
Star.	Starts Denals	Maine	Brownianskie-	Vidue .	Chicased.	Conservation of the local division of the lo	Votem	Chitatest Value	Updamed.
	best Bite	1 ······	10000		200	2222	0.00	40.00	1000
8	Photograph Plant (194 Plant)	Physipine	0.1 ppm	New op new	Not in term	Net in late	Not in use	Net in use	Shot in the
Coust	te Chierine Flant		Lancour						
3	Theshine province Plant	1C1_	9.0 mg/Nep3	4.2	8.0	2.2.	5.0.	4.2	4.4.:
	and the second s	PR.T	ALC maines1	31.3	fr.#	11.3	6.3		0.0
3	Consume stark of HLI Page must	13,	9.01 mag/Webi3	16.7	9.3	3-0	11.11	6.6	6.3
	167	HICI	20.4 mail Hould	9.4	7.0	11.2	7.0	8.4	9.8
POB P	what .	-					1		-
4	Finil Gas Sculifier	805	40.0 mg/Huil	Mot the home	They be have	West 111 hours	New Str. Gam	Bot in tase	Not its size
		10729	29.0 ma/11m1	-					-
Sulfu	the Areld (Esset Siller)								
	Bullack Acal Plant	802	2.0 kg/T	0.4	0.0	0.8	0.6	8.8	0.5
		Acid Mist	30.0 mg/ma/	34.8	12.4	18.7	12.4	11.7	10.2
	ChiereBullines: And plant	10.	0.0 ma/fmil	0.0	1.3	7.3	4.1	5.7	3.0
-	Teactor	1012	JED mg/Necl	13.0	11.5	64.0	13.7	14.8	12.5
	100	and a	area well uses	10.0		1.4.4	entry.	17.0	10.0
Ream	that plant					-			
200	States a subject services	17 million 199	A REAL PROPERTY.		Summer and	descent lines	STILL ST		
*	Scrubber rent Reserving Plant	80,	40.0 mg/mm3	Het running sharing shelt	Her runining during visit	Not remaining that	6.3	0.0	7.3
	Sproy Deyer Hosorensil Plant	264	158.0 mg/9m ³	Pot Humilia during visit	Not comming	Not reprinting	Nut recovering	31	308
Incias		-		-	-		_	-	
	Incineration	PM.	100.0 mg/9m3	150		12	44	10	41
-		50,	40.0 mg/Nm3	17.8	16.7	10.3	14.7	12.8	10.2
		NOs	28.0 mg/mm3	10.0	2.2	10.8	9.4	10.8	14.5
NI Ph	1	Principal	Sen all'unes		10			100.0	14.0
10	Faul Can Reading	THO.,	40.0 mg/flm3	-	-	No. of Concession, Name	March Street of Control of Contro	March 10 residence	Max Wood
172		WDs	20.0 mg/fim3	Duriting Viait	Prot (Economy Charteng Visad	During Vast	Drawing Visit	Diaring Visit	Ouring V
NBD 1	Next . Reav Deser	IPM	Littl.D mg/Hm3	Plus lat use	Nie in use	Test by Use	Not its the	Net to use	Mari da una
14.1	when the state	1 mil	Lanco mg, sund	The second second	The second	met de case	1000	11000	
1.4	Brrubber (5-902	Phongette	0.1 ppen	Not moniting during visit	Not coming during yout	Not remaining sharing visio	nts.	мр	HDy.
28	#crubber \$-801/803	HICI .	36.0 mg/Hm3	Bat contains during week	Net statisting disring Viell	Not running that	2.5	3.4	4.5
		2003a.	35.0 mg/Hm3	But nanorog during mit	Not surroung during vieli	Mat rooming during stall	11.3	0,3	8.4
24.0	14	28	-			-		-	0.0
34	Common Bertdharr; 2,4D Plant	(Ch ₀	9.0 mg/Mm3	7.3	4,5	1.8	fb.8.	4.3	4.5
111	The second	Det	20.8 ma/8ml	8.5	10.3	17.8	0.4	0.3	6
	and the second s	Perreil	-	10	ND.	10	ND.	3403	ND.
38	Deper 5	Phi with Positicale compound	20.8 mg/Nm3	1.11	6.3	4.4	8.8	7.8	6.5
10	Depri-2	PM with Peakicide comporabil	20.0 mg/9m3	9.2	8.2	7.3	9.2	A.6	7.3
16	Deput-3	PM with People also comprised	20.0 mg/Mat3	8.5	3.3	10.7	2.8	0.1	6.5
24	Diger-4	PM wob Proticide rereposed	201.0 mill/36mi3	11.8	11.4	0.8	10.4	11.9	10.3
3.8	Deper-B	Post with Posticide compound	201-0 xeg/98484	1.	1	-	11	7.6	8.3

nn.	Burk Detalle	Paramaner	Permanihie Limite	Organeel Value	Citylatzerii Value	Ofmainel Value	Citriaterini Valtae	Otensionel Value	Obtained Value
CP PS	1						-	and the second second	
20	МСРА	CI.	9 mg/MM*		Hat Buretig.				
		HCI	20 mg/112/1	During Visit	During Visit	During Visit	During Visit	During Voit	During Visi
		50,	40 mg/NM ²			1			
21	Fipronii	901	ttl aug/WMC	Not Rurong	Not Hinnig	Set Ruring	Not Harring	Bot Purning	Net Runnig
		INCL	20 mg/Nm3	During Visit	Daring Visit	During Visit	During Viet	During Vielt	During Vasi
	H ST ST				1.1				
17	Inside lagerid	N01.	175 mg/Nm3	Nor Hurring	Not Farming	Net Bunning	Not Blennig	Not Harring.	Not Parentin
	- N	12 11	1	During Visit	During Visit	During Visit	Daring Visit	During Vield	During Visi
		10.000							
18	Pyrosthroide	90,	40 mg/Nm3	Not Survey	For Burrisg	Net Running	Not Hummig	Not Hummy	Not Birring
	128-51107	HC	20 mg/Rm3	During Visit	During Visit				
					1000				
19	Black at Amine Plant	MIK.	175 mg/ No.3	21.5	30.2	20.4	25.5	20.8	10.2
10000	Plant								
20	Physigene Schulder at MPSL	Photogram:	0.5 ppst	ND-	ND	ND.	ND	ND-	103
23	Central Scrubber at MPSL	Throughton	0.1 ppm	ND	80	ND.	ND	ND .	ND
8100	plant								
22	Central scrubber at Nice Plant	Acceloritylipie, IDA		1		1		-	-
False	Plant	1974		-		-			
33	Strukter at Larry plan be	Formaldetryde	10 mg/Mmil	Net Burnin	Not Passing	Non Harrison	Not Panna	Nor Barrier	Net Barrie
	Olyphonate			During Visit	During Viel	During Visit	During Visit	During Visit	During Visi
24	Gentral Scrubber MCPA Plant	ina.	20 mg/8m3		Not Nunnig During Visit				
20	MPP place seculities	HCT.	20 mg/Mm5	Mar Blancin	Not Flatonig	West Womahola	Mar Barrala	Mar Warrania	Mos Wednesday
	Tatte lumit accounts	Philagene	0.1 thm.	During Visit	During Viair	During Visit	During Visit	During Vialt	During Via
			and these	-			-		
				-			_		
Atul 1	Vest Size				1.9		2.92		2.6
	Shed A05/03/44	Cl,	9 mg/5M*	7.#	6.7	8.8	6.7	7.1	6.3
27	Shed 50/12/34 Brartian Vessel	10.1 To	20 mg/NM ² 9.0 mg/Nm3	6.7	6.5	5.4	6.5	5.1	4.5
	The second s	IICI	00.0 mg/Nm3	8.3	0.0	12.6	0.3	8.0	7.3
28	Rhed B18/02/34 Fee	301	40 org/304"	14.2	16.3	But Rinnig	16.3	14.7	13.3
		Cl ₁	19 mg/1662	3.6	4.6	During Visit	8.2	4.8	4.5
	and the second se	HCL	00 mg/NM"	12.4	10.8		0.3	7.3	6.8
29	Shed (5/20/15 Chiemaner	Ci,	5.0 mg/Nm3	n.4	5.3	7.5	5.2	0.3	7.3
	The Weble of Color March 1995	ance	20.0 mg/Ris.3	10.3	12.3	0.8	UL.M.	10.7	13.3
30	Stied D Nan Sprey down So. 45	144	150.0 mg/Nm3	16.3	56	46	55	33	40
	1200 C	S	1000 (CH)	12	120	1. 1	10	5	St
33	Shed D Siro Spray dryw No.59	2966	150.0 mg/Nm3	58	48	42	48	94	Not Runnig During Via
34	Shed 5 7/12/49 Spoar Dryer	2%	150.0 mg/Nm3		Not Funnig During Visit				
93	Shed F F6/1/15 Reaction Vennel	Cl ₂	9.0 mg/Sas3	8.4	6.7	6.3	6.7	6.1	3.2
		HCL	30.0 mg/Hm3	7.8	18.4	9.2	8.4	7.3	6.8
34	Shed G 10/8/1 persiver	Cl _e	0.0 ng/Sm3	Sket Burning	100	and the second s	C. S. C.	Not Homig	100
		HCL	20.8 mg/8m3	During Visit	During Visit	During Visit	During Visit	During Visit	During Via
15	Shed H 11/6/17 chlamanar	α,	9.0 mg/Nei3	6.3	6.8	5.8	5.8	3.2	2.5
920	SSUREN MODIFICE SEE	HCI .	20.0 mm/Wesh	18.9	13.5	12.4	11.4	0.7	7.2
36	Shed KK-13/3/4 Final of	90,	3.0 kg/T	0.8	0.6	0.8	0.5	0.4	0.5
	Sulturic acid plant	Acid Miar	581.00 mg/Hm3	17.3	20.5	15.4	18.6	14.3	18.2
27	Phot 215/99/25	1020	-	ND.	ND	ND .	ND	ND	Non Burronia
		50,	40 mg/MM ³	132.08	13.3	16.0	15.2	11.7	During Via

Sia. Maa	Breek Doyeda	Personal	Permissi Me	Obtatent Value	Ottained Value	Chicagood Value	Oppmaned () Value	Olmaned Value	Optateed /
58	Wheel ,113/01/42	80,	80 aug/NM ²	19.3	10.2	17.2	10.3	13.5	Not Bunnig
		Cl ₂	N.B. ing/Web.S	6.3	0.7	2.1	6.3	1.8	During Visi
		IICI ·	20.0 mg/5m3	5.4	1.3	32.5	8.6	7.5	
39	Bheil J17/03/36	80,	40 sig/SM ²	14.8	14.8	16.7	14.5	13.5	Not Furnig
		HCI	20.0 mg/Nm3	0.7	8.4	9.2	8.3	7.2	During Visi
40	Bled S Scrubber Fan R20/05/24	Cl ₂	0 mg/NM ²	7.2	6.3	9.2	6.7	5.6	7.5
		10C1	29 mg/NM ²	13.6	12.8	15.9	13.2	10.4	10.8
41	filled N Scrubber Fan 1920/02/41	50,	40 mg/NM ⁴	17.3	13.6	20.4	13.9	14.6	10.7
42	Bulles Black Plant	8,8	-	ND	NU	ND	80	ND	ND
	and the second s	NHa	175 mg/1047	19.7	13.8	33.6	13.5	17.2	16.4
43	Buller Dyes plant	11,8	-	ND	(00)	ND	90	ND	RD .
		HIL,	175 mg/8M ⁵	29.8	27.4	34.2	20.4	12.8	10.2
44	MPP plant	IIC1	20 mg/NM*	12.7	9.7	11.6	10.8	9.8	+
45	Plavori & Fragrances Plain	RC3	30 HE/NM*		Net Ranning During Viet		Set Runnig During Visit		Not Running During Visi
And	North Bits	-	-			-	-	-	-
45	N-PD01 Plane Catalytic	PM	150.0 mg/Nm3	Bet Burrig	Net Roomig	Not Hunnig	Not Particip	Not firmig	Not Planni
	Derportation	505	40.0 mg/Hm3	During Vast	During Viel	During Viet	During Viel	During Visit	During Visi
		ROs	25.0 mg/Net3	0					
	and the second s	Formaldehyde	10.0 mg/Nes3						
47	PHEN Plant weased	Phongense	0.1 ppm	ND	ND	ND	ND .	ND:	aro.
48	And the second se	HCI	20.0 mg/Nm3	12.8	12.3	8.8	11.3	0.8	8.2
	PPEN - II Plant	Phongs the	0.1 ppm	863	ND	NO	ND .	ND:	MD .
45	DCD15 Plant	HD,	-	303	HD.	ND	ND:	50	MIN
50	DExS Meet	3414.	175 Mg/Nm3	55.3	10.3	66.4	42.3	48.3	44.1
51.	SPIC II Pont	SHD ₁		NSI-	RD .	NO	IND	ND;	ND
62	SPIC 1 Phase	504,	175 mg/Nm3	68.2	68.3	101.3	12.2	65.2	54.3
93	SPIC IV Plant	201,	175 mg/26M	46.0	45.5	132.6	88.0	73.4	78.3
		80.	-	7.8	8.8	4.3	3.6	4.3	3.5
94	Puttine (Pasigeta plant-live)	754	100 mg/MM ²	42	63	72	112	44	42
55	Bearing (Plangeter plant) New)	C0	-	ND	30	ND	HD.	MD	8D
		Thingsine	0.1 ppm	ND	ND	ND	50	ND	ND

far. His	Buch Delight	Deanenne	Permanibie Liteite	Ofmahuel	Value	Value	Value	Citizations (Vallate
line!	alle		-	-		_		-	
8	FISC holler El	1094	100 mg/5m3	55	53	71	63	76.	78
	a second s	80,	600 mg/Ses3	110	1.24	112	104	112.	115
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOn.	600 mg/Sest	1.37	145	126	125	106	103
3	FBC bailer K2	194	100 mg/3m3	73	147	6.6	78	42	88
	a children des	190,	600 mg/Nni3	120	132	107	112	109	108
		NOs	6430 mg/5hi3	140	1.37	119	117	225	110
3	FEC baller E3	PM	100.mg/8m3	78	59	78	45	72	75
		(SK)	600 mg/7003	1.34	128	126	108	113	114
		HOw	600 mg/No.3	129	1/18	126	112	120	120
6	Het OG Ciuli	194	190.0 mg/Nm3	NO	ND	(DE)	HD	0 D	HD
	(Resorcies) Planti	80,	100-japai	ND	ND	NE)	ND	ND	ND
	and the second second	NOS	50 ppm	34	24	36	29	22	25
5	DO set 1010 KVA (Standby)	I'M .	150 mg/Nm ⁷	Stend by	Roand by	Statul by	Hund by	Stand by	Bland by
		80,	100 ppm		1				
		MOx	50 ppm	-	-		1.1		1
Weat	Alto		A COLORED	-	-	-		-	-
6.	FDC boder W1	296	100 mg/8m3	6.0	60	102	170	58	55
		250.	600 mg/8m3	102	112	104	118	119	128
		304	600 mg/Nech	1.12	124	123	104	1.13	114
۴.	Het 00 Phatt sheri-B	294	150.0 mg/Net3	ND	ND	INE)	HD	ND	ND
		80,	100-ppm	RD.	ND	ND	ND.	ND	ND .
	and the second second	7973	50 ppm	30	30	40	142	26	21
	Di burner Blod B	254	150.0 mg/Nm3	filand by	(Reachilley,	Stand by	Sum by	Hinnel by	Shand by
	" (Stand Dy)	80,	100 ppm						
	Carter average the state state	1908	S0 ppm						1.000
	Boder (50 TPH 2 Net) (New builers) W2,W3	PM	50 mg/Mm2	25	12	54	37	39	35
		80,	600 mg/NmJ	1.17	132	106	116	120	110
		24CH	300 mg/Hm.3	10	102	94	102	103	105
	A REAL PROPERTY AND A REAL	Mercury	0.03 mg/1m3	mp .	ND .	ND .	30D	ND	CND
10	DG at 1500 EVA	254	150Lif ang/frind	Mund-by	Stand by	Hand by	Stand by	Stand by	Stand by
	(thand Ry)	80,	100 ppm			1.000	Pestoka		and the second
		NON	Sh ppm	1					
	h Wither	See.	A state of the sta	101	àb e	100	1.1		10.0
11	Therms fluid hence of	5.M	180.0 mg/Nm3	910	ND	ND	ND .	ND	260
	DCO/DAP Plant	90,	100 ppm	ND	100	ND	ND	100	DMD .
		INCIA.	50 perci	24	24	32	36	211	36

Plant	Area	Parameter	Prescribed Limit	Results	of VOC	s in Millig	gram pe	r NM ³	
				Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
2,4 D	Reactor	Phenol	19	11.6	12.6	14.8	16.6	12.4	12.3
	Buffer tank	Chlorine	3.0	1.6	2.1	1.9	2.4	1.6	2.1
Resorcinol	Benzene storage tank area near vent	Benzene	15	7.9	10.2	8.4	11.3	9.4	8.5
		Butyl acetate	-	649	715	620	705	739	602
Pharma	At second floor work area	Ammonia	18	10.6	14.2	10.8	12.4	17.4	13.2
	Ammonia recovery area	Ammonia	18	14.9	16.8	15.2	17.1	16	11.6
Epoxy - l	At vacuum pump 2nd floor	ECH	10	6	3.4	2.9	3.5	5.9	5.7
	At vessel POS 1208 G.F	ECH	10	5.2	5.6	7.4	9.2	7.8	6.6
Shed H	At second floor work area	Nitrobenzen e	5	3.6	3	2.3	3.4	4	2.9
Shed J	Buffer Tank	Chlorine	3	2.1	2.6	2.1	2.5	1.7	2.4

Table 3 : Quality of treated effluent

Sr. No	Parameter	Result	Results						
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20		
1	рН	8.19	7.95	6.91	7.02	7.45	6.23	5.5 to 9.0	
2	Temperature °C	31.4	31.8	30.9	30.4	31.6	30.1	40 °C	
3	Colour (pt. co. scale)in units	100	90	80	140	80	78		

4	Suspended solids, mg/l	92	76	92	98	65	72	100
5	Phenolic Compounds, mg/l	0.088	0.056	0.044	0.056	0.041	0.047	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	0.75	0.7	0.65	0.75	0.68	0.62	2
8	Sulphides, mg/l	1.2	0.9	1.2	1.8	1.2	1.1	2
9	Ammonical Nitrogen, mg/l	48	38	43	46	34	37	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	78	65	60	65	59	66	100
13	COD, mg/l	240	220	218	215	208	222	250
Not	e : ND is Not Detectable.		1	I	1			1

Table 4 : Noise level monitoring data (Day Time)

Sr. No.	Location			Noise Le	evel, dB	A		Permissible Limits, dBA
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	75
1	Near Main guest house	56.7	59.7	55.7	55.7	55.7	61.2	75
2	Near TSDF	64.2	61.2	62.3	62.3	62.3	63.7	75
3	At Wyeth Colony	57.3	49.7	53.5	53.5	53.5	54.4	75
4	Gram Panchayat Hall	62.4	60.8	63.5	63.5	63.5	62.5	75
5	Near Main Office North site	60.2	59.2	64.5	64.5	64.5	60.2	75
6	ETP North site	64.3	68.5	63.2	63.2	63.2	64.4	75
7	Opposite shed D	64.8	64.7	66.4	66.4	66.4	67.3	75
8	ETP West site	68.5	62.8	63.7	63.7	63.7	65.5	75
9	Water tank Haria road	59.7	62.6	53.5	53.5	53.5	60.2	75
10	Near 66KVA substation	63.3	68.6	65.2	65.2	65.2	62.5	75

Sr. No.	Location	Noise	Level, d	BA		Permissible Limits, dBA		
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	70
1	Near Main guest house	50.2	52.2	50.6	50.6	51.6	52.2	70
2	Near TSDF	55.7	58.7	54.2	54.2	53.2	54.4	70
3	At Wyeth Colony	44.7	43.7	46.1	46.1	51.1	50.3	70
4	Gram Panchayat Hall	57.3	54.8	58.4	58.4	53.4	54.3	70
5	Near Main Office North site	57.3	54.8	54.2	54.2	56.8	56.2	70
6	ETP North site	58.6	55.3	53.6	53.6	53.2	54.4	70
7	Opposite shed D	60.2	57.3	62.7	60.7	59.2	58.3	70
8	ETP West site	57.8	59.8	60.8	57.8	54.7	55.1	70
9	Water tank Haria road	52.3	55.8	50.3	52.3	54.7	53.2	70
10	Near 66KVA substation	57.2	53.8	63.2	57.2	56.4	55.1	70

Table 5 : Noise level monitoring data (Night Time)

Annexure A

12	WATER / WAS	S REPORT I	Contraction of the second s	Gujarat Pollution Control Board, Vap C5/124, GIDC Vap Near Hotel Pritam Vapi - 396 19					
E	Sample ID 276560 - As	nalysis Comple	nion:02/03/2020						
0	Dyes and Dye- Interm				60) 243208				
			TEST REPORT						
Tes	t Report No. : 52218			Date: 0	2/03/2020				
1. 7	Same of the Customer	: Atul L	imited - 23158						
2. /	Address	15,77,57,97,9	9, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc., AT -396020, Taluka : Valsad, District : Valsad, GH		Valsad, P				
3. 1	Nature of Sample	: REP-Representative/Grab, (Insp Type : COM-On Complaint) : R.K. Maheta.SO							
	ample Collected By								
	Quantity of Sample Received	: 5 : 276560 : 13/02/2020 , (1710 to 1710) & 14/02/2020 : 17/02/2020 & 02/03/2020							
6. (Code No. of the Sample								
7.1	Date & Time of Collection & Inwarding								
8.1	Date of Start & Completion of Analysis								
9.5	Sampling Point	: From	Final outlet of Central ETP ~						
10,	Flow Details (Remarks)	: Yes							
11.	Mode of Disposal	: Estuar	ry zone of River Par						
12.	Ultimate Receiving Body	: Estuary zone of river par							
13.	Temperature on Collection	: 29 & pH Range on pH Strip :@ 7-8 on pH strip							
14.	Carboys Nos for		de & Color & Appearance :Brown						
15.	Water Consumption & W.W.G (KLPD)	: Ind :2.	3726.000 , Dom :938.000 & Ind :21727.000 , Dor	n :939.000					
Sr	Parameter	Unit	Test Method	Range of Testing	Result				
1	Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	29				
1	pH	pH Linita	4500 H+ B APHA Standard Methods 22nd edi.2012	1-14 pH value As or	7.00				
-	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	150				
4	Total Dissolved Solids	result.	Gravimative mathed /2540 C ADHA Standard Mathere	10 - 200000 mmd	4050				

	Lennberatris	Centigrade	13. 3023 (Part - 3) - 1904(Reammed 2006)	Autoent of - po of	5.8
2	pH	pH Units	4500 H+ B APHA Standard Methods 22nd edi.2012	1 - 14 pH value As or	7.03
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	150
4	Total Dissolved Solids	right :	Gravimetric method. (2540 C APHA Standard Methoc	10 - 200000 mg/L	4838
5	Suspended Solids	mgil	Gravimetric method. (2540 D APHA Standard Methoc	2 - 10000 mg/l.	94
8	Ammonical Nitrogen	figm	1) Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	10.24
7	Chloride	hgm	Argentometric method. (4500 CI7 B APHA Standard #	1 - 50000 mg/l	1659
8	Sulphate	hom	APHA(22nd edi)4500 SIO4 E	2-40mg/l	746
8	Chemical Oxygen Demand	ngrt	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	214
14	Oil & Grease	mgil	Liquid - Liquid Partition Gravimetric method. (5520 B	01 - 1000 mg/l	0.8
11	Phenolic Compounds	mgil	4 Amino Antipyrene method without Chloroform Extra	0.1 - 50 mg/l	0.5
12	Sulphide	mgit	APHA (22nd Edi.)4500-s2-F -lodometric Method	1-500.0 mg/l	bdi
13	B.O.D (3 Days 27oC)	mg/l	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmer	05-50000 mg/l	84

Laboratory Remarks : Freeze By:445-lab_445 Dt.: 02/03/2020

J OPER-

J.D.OZA, Lab Head

Field Observation :

Note :

- 1. * These parameters are NOT covered under the scope of NABL.
- The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
 Samples will be destroyed after 10 days from the data 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 Bosrd 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, 1985 as anynended by Second and Third ammendment 1993 for Effluents. Physicochemical and microbiological parameters, Std.Methods for Water and Waste Water- 22nd Edition by APHA.
 Bioassay test (for toxicity) -IS-8582 Part-2:2001; Reaffirmed 2007.

NIG

03/03/2020

	S REPORT FOR TE WATER SAMPLE	Gujarat Pollution Control Board, Vap C5/124, GIDC Vap
Sample ID 273804 - Ar	nalysis Completion 22/01/2020	Near Hotel Pritam Vapi - 396 19
Dyes and Dye-Intern	ediates / LAB Inward : 51880	Tele:(0260) 243208
Take Balance and Constants	TEST REPORT	
Test Report No. : 51880		Date: 24/01/2020
1. Name of the Customer	: Atul Limited - 23158	
2. Address 3. Nature of Sample 4. Sample Collected By 5. Quantity of Sample Received 6. Code No. of the Sample 7. Date & Time of Collection & Inwarding 8. Date of Start & Completion of Analysis 9. Sampling Point 10. Flow Details (Remarks) 11. Mode of Disposal	 5, 6, 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 8: ATUL-396020, Taluka : Valsad, District : REP-Representative/Grab, (Insp Type : S R.K. Maheta,SO 5 273804 07/01/2020, (1105 to 1105) & 08/01/2020 08/01/2020 & 22/01/2020 ## Final Outlet of the ETP Yes In to Estuary zone of river par 	Valsad, GIDC : Not In Gide
12. Ultimate Receiving Body	: Estuary zone of river par	¥.
	: 27 & pH Range on pH Strip :@ 7-8 on pH	Stain
13. Temperature on Collection		
13. Temperature on Collection 14. Carboys Nos for 15. Water Consumption & W.W.G (KLPD)	: 1 & Color & Appearance :Brownish	iship

SI		Unit	Test Method	Range of Testing	-
1	Temperature	Centigrade	(5: 3025 (Part - 9) - 1984(Reaffirmed 2006)		Result
2	pH	pH Units		Ambient oC = 60 oC	27
3	Colour	and the second se	4500 H+ 8 APHA Standard Methods 22nd edi.2012	1-14 pH value As or	7.29
	Total Dissolved Solids	Pl.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	150
		mp/t	Gravimetric method. (2540 C APHA Standard Method	10-200000 mon	3830
	Suspended Solids	mgit	Gravimetric method. (2540 D APHA Standard Methoc	2 - 10000 moil	
	Ammonical Nitrogen	mg/i	1).Titrimetric method (4500 NH3 B & C APHA Standa	2 2000 mg/L	46
7	Chloride	hpm	Argentometric method. (4500 CI? B APHA Standard M	1 - 2000 mgn.	4.41
8	Sulphate	mpil	ADLIA/20-4 - HI IEAR PARTY	and the second se	1305
9	Chemical Oxygen Demand			2-40mg/l	585
	Oil & Grease	mpt	APHA (22nd Edition)- 5220 B Open ReBux Method-2	5.0- 50000 mg/l	168
-		ngr	Liquid - Liquid Partition Gravimetric method, (5520 B	01 - 1000 mad	0.4
	Phenolic Compounds	mgit	4 Amino Antipyrene method without Chloroform Extra	0.1 - 50 mal	
12	Sulphide	mas	APRIL COLORE FOR LARGE FOR	NUMBER OF THE OWNER	0.87
13	8.O.D (3 Days 27oC)	fam		1-500.0 mg/l	0.65
			3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmer	05-50000 mp/l	- 44

Laboratory Remarks : Freeze By:445-lab_445 Dt.: 24/01/2020

-) open----

J.D.OZA, Lab Head

Field Observation : -

Note

- 1.* These parameters are NOT covered under the scope of NABL.
- 2. The results refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied. 3. Samples will be destroyed after 10 days from the date of issue of test report unless otherwise specified.
- 4. This report is not to be reproduced wholly or in part or used in any advertising media without the permission of the Board in writing. 5. The Board is not responsible for the authenticity for the samples not collected by the Board's officials.
- 6. Total liability of our laboratory is limited to the involced 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
- Physicochemical and microbiological parameters, Std.Methods for Water and Water Water- 22nd Edition by APHA,
 Bioassay test (for toxicity) -IS:6582:Part-2:2001; Reaffirmed 2007;

NIG

01/02/2020

Atul Limited

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

EC Compliance Report for the period October 2019- March 2020 as 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	Complied . Since we have	e anothe	er FC arc	nnted in	2019 for	expansi	on we r	equest to
	shall not exceed	consider latest				2013 101	слраны		equest to
	17,283 m ³ /d.	According to				F No	1 11011	/108/201	5-14-11-(1)
		dated11.02.20 m³/d.)19. Indu	strial Wa	iste wate	r generat	tion shall	not exce	ed 20,514
		The average w which is well w		•		•	•		7/day only
		Wastewater						Mar 20	Total
		generation m ³ /day	000120			Jun 20	1 00 20		rotar
			291813	257071	282245	254951	225463	213113	1524656
		Per day	9413	8569	9105	8224	7775	6875	Avg. 8327
		Wastewater generation	Stipulated value		Values for the period Oct 19 - Mar 20				
		generation	Value		Min.			-	
		Wastewater	2051	4	6875	9413	Avg. 8327	-	
		generation m³/d							
	23 m³/d High COD effluent shall be incinerated.	Complied. Since we have consider latest	figures g	given in so	ame.		·		
	According to specific condition No. viii) of EC F No. J 11011/108/2015-IA 97 m ³ /d High TDS effluent shall be evaporated through MEE According to specific condition No. viii) of EC F No. J 11011/108/2015-IA (I) dated11.02.2019."Industrial/trade effluent shall be segregated into H COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall passed through stripper followed by MEE and ATFD (agitated thin the drier). Low TDS effluent stream shall Be treated in ETP/RO to m the prescribed standards." Accordingly the High TDS/High COD Proc								nto High shall be thin film to meet
		water quanti	ty are no	w 291 m	1 ³ /d and 8	31 m³/d.			

		being t <2000 All the incinerc Phenoli is no H i was do Compli The ave	Ve have been segregating high COD streams (COD >50000 ppm) and sam being taken for recovery to get economic benefit. Rest lean effluent of C 2000 ppm is finally sent to ETP for treatment. All the high COD streams are being diverted to recovery system rather the ncineration. Streams containing Ammonia, Methanol, Copper, Solver Phenolics, etc. are taken for the recovery of the same and reused. Hence, the same High COD Waste water stream remaining and therefore no incinerative vas done during this period. Complied. The average 138.66 m ³ /d high TDS waste water was evaporated in MEE. De preak up is given in below table:								
			Month	High TDS/ COD	Break up of eff Low TDS/COD	fluent KI/Day Total Effluent generation					
			October-19	153	9260	9413	-				
		1 2	November-19	140	8429	8569	-				
		3	December-19	112	8993	9105					
		4	January-20	143	8081	8224	-				
		5	February-20	149	7625	7775	-				
		6	March-20	135	6740	6875					
			DS effluent gener	ration is va	I	he production.	1				
	Total quantity of				ted in 2010	for overeign	in which the				
	17283 m³/d shall be treated at		ve nave anotne er latest figures g			for expansion, w	request to				
	company's own		• •			1011/108/2015-I	A-II-(I) dated				
e	effluent treatment plant.		- ·		-	shall not exceed	• •				
	-	The av	erage 8327 m³/	day waste	ewater was t	reated in the co	mpany's own				
			treatment plant	•							
	Final Discharge of	Compli	ed.								
	Treated effluent is										
	being discharge		-	-	•	ion control board'	s limit is being				
	into river par	dischar	ged into river Pa	r through 4	4 km line.						
	through 4 km line constructed by										
	M/s Atul.										

Ammonia bearing effluent shall be subject to ammonia recovery	Amm recov wate	Complied . Ammonia bearing effluent streams generated from 4,4 DDS production recovered by stripping in series of packed column. The ammonia container water from the stripper is condensed in condenser and recovered ammonia									
before mixing with normal effluent stream.	Rec	g recyc over monia	led back Oct 19	1	tion of 4,4 Dec 19			given in Mar 20			
	KL	inonia	587	465	524	524	491	333	2924		
Phenol will be recovered from phenol containing effluent.	20 K distil	Complied . 20 Kgs phenol is recovered from effluent per one MT of 2,4 D production. distillation column has been installed for phenol recovery. Resin tower an installed to recover phenol. Data is given in below table:									
			Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	0 Mar 20	Total		
	DCF cruc dist		1584.6	1438.3	1492.5	1467.3	1219.8		8117.		
	2,4[DCP	1390	1254	1304	1282	1070	802.5	7102.5		
	2.6[DCP over	110.8	101.4	104.3	104.8	85.1	63.4	570		
	OC	>/ idue	83.7	82.8	84.2	80.4	64.6	48.8	444.7		
The treated effluent shall confirm the discharge norms.	The t norm (Pl. s The r emis	Complied.The treated effluent is meeting all the state pollution control board's dinorms and values of various parameters of treated effluent is given in 1(Pl. see pg. no. 31)The maximum values during the compliance period confirms that at noemission went beyond the stipulated standards. Summary is given belowSr.ParameterNormsValues for the period OctN19- Mar 20									
	о.					Min.	Max.	Avg.			
	1	рН	oratura		5.5-9.0	6.23	8.19	7.19			
	3	2 Temperature 3 Colour (pt. co. scale)in units			40 deg C 	30.1 78	31.8 140	31.09 92.86			
	4	Susp	ended so		100 mg/l	62	98	79.57			
	5				5 mg/l 0.2 mg/l	0.039 ND	0.088 ND	0.05 ND	_		
	6 Cyanides 7 Fluorides				0.Z M0/I	ע און	שאן	שמון	1		
	7				2 mg/l	0.62	0.75	0.69			

			I		1				
	9 Amm	onical Ni	trogen	50 mg/l	34	48	41.0	00	
	10 Total	Chromiu	m	2 mg/l	ND	ND	ND		
		valent		1 mg/l	ND	ND	ND		
	Chron								
		(3 days c	-	100 mg/l		78	64.2	<u>29</u>	
	13 COD			250 mg/l	205	240	218	.29	
effluent shall be	Complied. Domestic ef of Domestic Wastew ater generatio n m ³ Month wise Per day	0	generatio	on is giver	n in belo		y diverte Mar 20 9266 299		Detail
			mum and average values are given belo Values for the period Oct 19- Mar 20						
	Domestic					-			
		ter				19- Mar			
	Domestic Wastewat	t er	Values fo	or the per	iod Oct	19- Mar g.			
ii The process	Domestic Wastewat generation Domestic Wastewat	t er	Values fo Min.	or the per Max.	iod Oct Ave	19- Mar g.			
ii The process emissions (SO ₂ ,	Domestic Wastewat generation Domestic Wastewat generation	t er	Values fo Min.	or the per Max.	iod Oct Ave	19- Mar g.			
emissions (SO ₂ ,	Domestic Wastewat generation Domestic Wastewat generation	er m ³ /d	Values fo Min. 299	Max. 396	iod Oct Avg 331	19- Mar g. 1	20	adequate	and
emissions (SO ₂ , NH ₃ , Cl ₂ , and HCl,	Domestic Wastewat generation Domestic Wastewat generation Complied.	er m ³ /d	Values fo Min. 299 2, and HC	Max. 396	re being	19- Mar g. L	20 through	•	
emissions (SO ₂ , NH ₃ , Cl ₂ , and HCl,	Domestic Wastewat generation Domestic Wastewat generation Complied. All the SO ₂ ,	ter n er m³/d NH ₃ , Cl	Values fo Min. 299 2, and HC crubbing s	396 Uvents a System. Fu	re being	19- Mar g. 1 g routed pre, most	20 through	process and	d flue

	The emission shall	Complied.
		Complied.
	be dispersed through stack of	The emission is dispersed through adequate height of stacks as per CPCB
	•	
		•
	•	5 5
	standard.	For Boilers : Stack Height $H=14(Q)^{0.3}$
		Details of stack results along with its height data is given in Table 2 . (Pl. see pg.
		no. 32) Gaseous emissions from process units are monitored regularly on
		monthly basis.
		During the report period no case varies from standard.
	The gaseous	Complied.
	emission from the	The process environment the DC entry is being discovered through startly of
	DG sets shall be	The gaseous emission from the DG sets is being dispersed through stack of
	dispersed through	adequate height as per CPCB standards given below:
	stack of adequate	The minimum height of stack is provided using the following formula (ref. CPCB):
	height as per	$H = h + 0.2x \sqrt{KVA}$
	CPCB standards.	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 DC sets are being used only during emergency startups
	Acoustic	However, DG sets are being used only during emergency startups. Complied.
	enclosures shall	Complied.
	be provided to the	All DG sets are having inbuilt acoustic enclosures to control the noise pollution
	DG set to control	and meeting the prescribed norms.
	the noise	and meeting the prescribed norms.
	pollution.	
iii	The company shall	Complied.
	upload the status	complica.
	of compliance of	The status of compliance of stipulated environmental clearance conditions
	stipulated	including results of monitored data is posted on our web site. And it can be
	environmental	viewed at: http://www.atul.co.in/sustainability/pdf/Atul-EC-Compliance-
	clearance	Report.pdf
	conditions	
	including results	
	of monitored data	
	on its web site.	
	Status of	Complied.
	compliance of	
	stipulated	Compliance status report to the stipulated environmental clearance conditions
	environmental	are regularly submitted to the regional office of MoEF, zonal office of CPCB and
	clearance	state pollution control board.
	conditions to be	
	sent to Regional	
	office of MoEF, the	
	respective Zonal	
	office of CPCB and	
	the state pollution	
	control board.	

The criteria	Com	plied.						
pollutant levels namely; SPM, RSPM, SO2, NOx	The critical pollutants parameters namely; SPM, RSPM, SO ₂ , NOx are monitored regularly on monthly basis and displayed at board at the company entrance.							
(ambient levels as well as Stack emissions) or	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. 32,36,37)							
critical sectorial parameters like VOC, indicated for	The r	naximum valı	ues during th	e comp	liance p	period c	onfirms the	at at no time the
the project shall be monitored and	emission level went beyond the stipulated standards. Parameter wise summary is given below:							i wise summary
displayed at a convenient		mary of Proc			Value	c for th	o period	1
Convenient	NoParameterStandardUnitValues for the period.values asOct 19- Mar 20							
location near the			values as		Oct 19	9- Mar	20	
main gate of	•		values as per CCA		Min.	Max.	Avg.	
	1	SO ₂		mg/ Nm³		1		
main gate of company in the	1 2	SO ₂ SO ₂ (kg/T)	per CCA	-	Min.	Max.	Avg.	
main gate of company in the			per CCA 40	Nm ³	Min. 6.2	Max. 20.4	Avg. 13.7	
main gate of company in the	2	SO ₂ (kg/T)	per CCA 40 2	Nm ³ kg/T mg/	Min. 6.2 0.4	Мах. 20.4 0.8	Avg. 13.7 0.5	
main gate of company in the	2 3	SO ₂ (kg/T) NOx	per CCA 40 2 25	Nm ³ kg/T mg/ Nm ³ mg/	Min. 6.2 0.4 7.2	Max. 20.4 0.8 14.5	Avg. 13.7 0.5 10.0	

Summary of Flue Stack results:

Pesticide

compound

No	Parameter	Standard values as	Unit	Values for the period Oct 19- Mar 20		
		per CCA		Min	Max.	Avg.
1	РМ	100	mg/N m³	52	88	68.1
2	PM (New Boiler)	50	mg/N m³	25	39	33.6
3	SO ₂	600	mg/N m³	102	136	115.8
4	NOx	600	mg/N m³	103	145	122.4
5	NOx (NewBoiler)	300	mg/N m³	93	105	100.5

Nm³

Station	Parameter	Limit microgm/	Values for the period Oct 19- Mar 20			
		NM ³	Min.	Max.	Avg.	
66 KV	RSPM (PM2.5)	60	19.6	36.8	28.8	
	PM10	100	38.4	52.3	44.0	
	S02	80	9.4	11.2	10.3	
	NOx	80	13.2	17.5	15.3	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Opposite	RSPM (PM2.5)	60	28	38	33	
Shed D	PM10	100	35	52	40.3	
	S02	80	7.9	9.6	8.7	
	NOx	80	8.3	11.2	9.5	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Near West	RSPM (PM2.5)	60	24	45	34.3	
site ETP	PM10	100	39	55	43.6	
	S02	80	7.7	14.7	9.4	
	NOx	80	8.4	15.4	10.5	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Near North	RSPM (PM2.5)	60	27	44	36.6	
ETP	PM10	100	40	54	44	
	S02	80	8.3	12.8	10.0	
	NOx	80	8.2	14.2	10.8	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
TSDF	RSPM (PM2.5)	60	26	46	37.8	
	PM10	100	40	50	44.5	
	SO2	80	7.4	10.6	9.0	
	NOx	80	7.6	13.6	10.1	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Main Guest	RSPM (PM2.5)	60	15	28	21.1	
House	PM10	100	22	45	37.1	
	SO2	80	4.3	8.4	6.1	
	NOx	80	5.2	9.4	7.5	
	Ammonia	850	ND	ND	ND	
	HCI	200	ND	ND	ND	
Wyeth	RSPM (PM2.5)	60	10	20	19.6	
Colony	PM10	100	24	44	35.3	
	SO2	80	4.1	7.6	6.35	
	NOx	80	4.6	8.6	6.9	

	Ammo		a	850	١	۱D	ND	ND
	H	Cl		200	١	١D	ND	ND
Gram	R	SPM (P	M2.5)	60	1	2	30	24.3
panchaya	t PN	M10		100	2	29	52	42.5
hall	S	02		80	6	5.2	8.6	7.4
	N	Ox		80	5	5.7	9.4	7.4
	Aı	mmonio	c	850	١	۱D	ND	ND
	H	HCI		200	١	١D	ND	ND
Main office	e, RS	SPM (P	M2.5)	60	1	9	35	26.5
North site	P	M10		100	3	35	52	43.3
	S	02		80	6	5.4	9.2	7.5
	N	Ox		80	7	'.3	10.6	8.5
	Ai	mmonio	c	850	١	١D	ND	ND
	Н	Cl		200		١D	ND	ND
Haria wat		SPM (P	M2.5)	60		.7.8	37.8	27.5
tank	P	M10	-	100	2	24.4	52.2	39.9
	S	02		80	8	3.8	11.2	9.4
	N	Ox		80	1	.0.2	15.8	13.4
	Ammo					5	ND	
	Aı	mmonio	C	850	r	۱D	ND	ND
<u>Summary c</u> Plant	H	Cl C results		200	Prescrib	Value	ND s of VOC:	ND s in
	of VOC	Cl C results	5:	200	١	Value Milligr	ND s of VOC: am per N	ND s in IM ³ for the
	of VOC	Cl C results	5:	200	Prescrib	Value Milligr	ND s of VOC:	ND s in IM ³ for the
	of VOC	Cl C result	5:	200 eter	Prescrib	Value Milligr	ND s of VOC: am per N I Oct 19-	ND s in IM ³ for the Mar 20
Plant	Area	Cl C result	s : Param	200 eter	Prescrib ed Limit	Value Milligr perioc Min.	ND s of VOC: am per N l Oct 19- Max.	ND s in IM ³ for the Mar 20 Avg.
Plant	Area React	CI C results tor er tank	s : Param Phenol	eter ee	Prescrib ed Limit	Value Milligr perioc Min. 11.6	ND s of VOC: am per N l Oct 19- Max. 16.6	ND s in IM ³ for the Mar 20 Avg. 13.38
Plant 2,4 D	React Buffe Stora	CI C results tor er tank ene ige	s : Param Phenol Chlorin	eter ee	Prescrib ed Limit	Value Milligr perioc Min. 11.6	ND s of VOC: am per N l Oct 19- Max. 16.6	ND s in IM ³ for the Mar 20 Avg. 13.38
Plant 2,4 D	React Buffe Stora tank of	CI results tor er tank ene ige area	s : Param Phenol Chlorin	eter ee	Prescrib ed Limit	Value Milligr perioc Min. 11.6 1.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95
Plant 2,4 D	React Buffe Stora	CI C results tor er tank ene ige area vent	s : Param Phenol Chlorin	eter ee	Prescrib ed Limit	Value Milligr perioc Min. 11.6 1.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95
Plant 2,4 D	React Buffe Benze stora tank o near Near Extra	CI results tor er tank ene ige area vent vent	s : Param Phenol Chlorin Benzer	eter	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6 7.9	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28
Plant 2,4 D	React Buffe Benze stora tank e Near Extra scrub	CI results tor er tank ene ige area vent vent	s : Param Phenol Chlorin Benzer Butyl	eter	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95
Plant 2,4 D Resorcinol	React React Buffe Benze storat tank of near Near Extra scrub unit	CI C results tor er tank ene ige area vent vent	s : Param Phenol Chlorin Benzer Butyl acetate	eter eene	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6 7.9	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28
Plant 2,4 D	Area Area React Buffe Benze stora tank o near Near Extra scrub unit At se	CI results tor er tank ene ige area vent vent iction/ ober	s : Param Phenol Chlorin Benzer Butyl	eter eene	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6 7.9 602	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67
Plant 2,4 D Resorcinol	React Buffe Benze stora tank o near Near Extra scrub unit At se floor	CI results tor er tank ene ige area vent vent iction/ ober	s : Param Phenol Chlorin Benzer Butyl acetate	eter eene	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6 7.9	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28
Plant 2,4 D Resorcinol	Area Area React Buffe Benze stora tank o near Near Extra scrub unit At se	CI C results tor er tank ene ige area vent iction/ ober econd work	s : Param Phenol Chlorin Benzer Butyl acetate	eter	Prescrib ed Limit 19 3 15	Value Milligr perioc Min. 11.6 1.6 7.9 602	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67
Plant 2,4 D Resorcinol	Area Area Reac Buffe Benze stora tank o near Near Extra scrub unit At se floor	CI Cresults tor er tank ene ige area vent iction/ ober econd work	s : Param Phenol Chlorin Benzer Butyl acetate Ammo	eter	Prescrib ed Limit 19 3 15 - 18	Value Milligr perioc Min. 11.6 1.6 7.9 602	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67
Plant 2,4 D Resorcinol Pharma	Area React Buffe Benze stora tank o near Near Extra scrub unit At se floor area Amm recov area	CI c results tor er tank ene ige area vent iction/ ober cond work nonia very	s : Param Phenol Chlorin Benzer Butyl acetate Ammo	eter	Prescrib ed Limit 19 3 15 - 18 18	Value Milligr perioc Min. 11.6 1.6 7.9 602 10.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739 17.4	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67 13.10
Plant 2,4 D Resorcinol	Area Area React Buffe Benze stora tank e near Near Extra scrub unit At se floor area Amm recov area At va	CI results tor er tank ene ige area vent iction/ ober iccond work iccond work	s : Param Phenol Chlorin Benzer Butyl acetate Ammo	eter	Prescrib ed Limit 19 3 15 - 18	Value Milligr perioc Min. 11.6 1.6 7.9 602 10.6 11.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739 17.4 17.1	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67 13.10 15.27
Plant 2,4 D Resorcinol Pharma	Area React Buffe Benze stora tank o near Near Extra scrub unit At se floor area Amm recov area	CI results tor er tank ene ige area vent iction/ ober iccond work iccond work	s : Param Phenol Chlorin Benzer Butyl acetate Ammo	eter	Prescrib ed Limit	Value Milligr perioc Min. 11.6 1.6 7.9 602 10.6	ND s of VOC: am per N Oct 19- Max. 16.6 2.4 11.3 739 17.4	ND s in IM ³ for the Mar 20 Avg. 13.38 1.95 9.28 671.67 13.10

			Aturarel		10			,
			At vessel POS 1208 G.F	ECH	10	5.2	9.2	6.97
		Shed H	At second floor work area	Nitrobenzene	5	2.3	4	3.20
		Shed J	Buffer Tank	Chlorine	3	1.7	2.6	2.23
iv	The company shall adopt cleaner production technology to minimize the quantity of fresh	successfull improve fui	y completed i ther.	oted towards many cleaner p	oroduction	projects	and will	continuously
	water requirement and process effluent generation.	converting unit. Treated w condensate gland cooli are remov consumption Cooling tow for dust sup	many other p rastewater is e is being col ng and other ed by instal on is reduced ver blow dow opression and	erted few of ou plants as ZLD. s being used lected and user water is being ling centrifuge yn water is user d fly ash quenc	Our Ankle in lime d in place g collectee in place d as fire h hing inste	eshwar u prepara of raw v d and reu e of neu ydrant m	nit is cor tion at vater, va used. Vaa tch filter ake up a	ETP, steam cuum pump, cuum pumps and water

		Datalla								
		Details of water consumption break up is given below:								
		Details of	Details of water consumption:							
			onsumption		m ³					
		Period		onsumption		Total	-			
			Process Cooling Domestic							
		Oct-19	246283	56258	15745	318286				
		Nov-19	215962	50386	12968	279316				
		Dec-19	236423	55242	15236	306901				
		Jan-20	213412	49368	12114	274894	-			
		Feb-20	189063	46645	9717	245425	-			
		Mar-20	178366	41696	11582	231644	-			
			1							
v	The company shall	Complied.								
	obtain				c					
	Authorization for					5	IOC no. CTE-65621			
	Collection; Storage and	-					our current CCA No.			
	Disposal of	-				sal of hazardo				
	Hazardous waste			-		to Ministry				
	under the	Atul/SHE/M				,				
	hazardous waste									
	management									
	(Handling and									
	trans boundary									
	movement rule-									
	2008) for management of									
	hazardous waste									
	and prior									
	permission from									
	GPCB shall be									
	obtained for									
	disposal of solid									
	waste in the TSDF.									
	The concerned	Compiled.								
	company shall undertake	Company	s having th	vo nos off	ira tandara f	ully adequate h	nydrant system and			
	measures for the						rkers, power supply			
	firefighting facility			· ·	•	,	rom DG set as well			
	in case of						also carried out at			
	emergency.	regular inte								
		-								

r		
vi	The project	Complied.
	authorities shall	
	strictly comply	We are complying with all the requirement of MSIHC rule 1989 as amended in
	with the rules and	October, 1994 and January, 2000 and having proper storage and handling
	guidelines under	system, Onsite emergency plan, Licenses, reporting, etc.
	manufacturing,	
	storage and	The company complies with all stipulated norms of act made in CCA by GPCB
	import of	are being complied. Compliance report by GPCB appointed Environmental
	hazardous	auditor Faculty of Pacific school of Engineering, Dist. Surat for year 18-19 was
	chemicals rule	submitted to your good office vide our letter dated July 09, 2019
	1989 as amended	Submitted to your good office vide our letter dated jury 00, 2010
	in October, 1994	
	and January,	
	2000.	
	All Transportation	Complied.
	of Hazardous	Complied.
		Transportation of the produce chamicals are being done to part the M/A with
	chemicals shall be	Transportation of Hazardous chemicals are being done as per the MVA rule
	as per the MVA,	1989. TREM (Transport Emergency) card and MSDS of chemicals are provided
	1989.	to transporter.
vii	The company shall	Complied.
	undertake waste	
	minimization	All the liquid ingredients are being charged through measure vessels and/or
	measures :	flow meters to control on quantity as per the stoichiometry. All the solid
	Metering and	ingredients are charged after proper weighment only. All these meters and
	control of	weighing machines are calibrated and records are maintained.
	quantities of	
	active ingredients	
	to minimize waste.	
	Reuse of by	Complied.
	products from the	Sodium Sulfate, Sodium Thio Sulphate, Brine, MEE salt, Sodium hypochlorite,
	process as raw	Copper Hydroxide, spent acid, etc. are few by-products from the process which
	materials or as	are being sold for using the same either as raw material or as substitute to raw
	raw material	materials. Also, fly ash and Gypsum are being used as raw material for Brick
	substitutes in	Manufacturing. Sodium Hypochlorite, Sodium hydro sulfide, etc. are being used
	other processes.	as raw material in other processes.
	Use of automated	Complied.
	filling to minimize	Automated filling system for our agro products, polymers, resorcinol, dyes for
	spillage.	small and bulk packing is provided to minimize spillage.
	Use of 'close feed'	Complied.
	system into batch	Chemicals and solvents are handled in close handling system through pipe lines
	system.	only.
	Venting	Complied.
	equipment	All the reactors are equipped with vents/stacks, which are connected to either
	through vapor	vapor recovery system consisting of condensers, ejector/vacuum pumps and/or
	• •	scrubbers. Genosorb technology for solvent vapor recovery is also installed and
	recovery system.	working perfectly.
	lles of high	
	Use of high	Complied.
	pressure hoses for	Many equipment like reactors, spray dryers, condenser wherever necessary are
	equipment	being cleaned with high pressure sparger / jet to reduce waste water
L	1	1

	demine to reduce	apparation
	cleaning to reduce	generation.
	wastewater	
	generation.	
viii	Fugitive emissions	Complied.
	in the work zone	
	environment,	Fugitive emissions in the work zone environment and raw material storage area
	product, raw	is being regularly monitored by NABL approved third party.
	material storage	Data for the reporting period is given in Table 4 (Pl. see pg. no.37). Besides this
	area shall be	online monitors in work area for parameters like Chlorine, HCl, Phosgene are
		also installed.
	regularly monitored. The	
		The second second standards and the second frame of the second second second second second second second second
	emission shall	The maximum values during the compliance period confirms that at no time the
	conform to the	emission level went beyond the stipulated standards.
	limits imposed by	
_	I .	Summary is given in specific condition iii.
ix	The project	
	authority shall	All the VOCs/solvent recovery systems are attached with chilled brine solution
	provide chilled	in secondary condenser for condensation of VOCs.
	brine solution in	
	secondary	
	condenser for	
	condensation of	
	the VOCs.	
	The project	Complied.
	authority shall	On an average solvent recovery is 96%.
	ensure that	
	solvent recovery	
	shall not be less	
	than 95%	
	The VOC	Complied.
	monitoring shall	
	be carried in the	We are monitoring VOC as well as other chemicals in work area as per Factories
	solvent storage	Act and records are being maintained in Form No. 37.
	area and data	
	submitted to the	VOC monitoring in solvent storage area is being done and data are submitted
	Ministry.	through EC compliance report.
		Data for the report period is given in Table 4. (Pl. see pg. no.37)
x	Solvent	Complied.
	management shall	All the reactors handling solvent are connected/attached with chilled brine
	be as follows:	condenser for solvent recovery.
	Reactor shall be	
	connected to	
	chilled brine	
	condenser system.	
	Reactor and	Complied.
	solvent handling	All the reactors and pumps handling solvent are equipped with mechanical
	pump shall have	seals to prevent leakages.
	mechanical seals	
		Dama 10 of 20

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xii	The company shall	Complied.								
	harvest surface as	compi	eu.							
	well as rain water	Compa	ny has expanded	its harvesting po	nd capacity to 9000 KL capacity pon	d				
	from the roof tops		est rain water							
	of the building and									
	storm water drain	We are	e creatina facility/	capacity to cater	our consumption with rain harveste	d				
	to recharge the	water with zero river drawls of water during the rainy days. Besides this, there								
	ground water and				y to harvest rain water.	_				
	use the same				,					
	water for the	We als	e also construct temporary sand bag dam on top of dam towards the end of							
	various activities				rain water in river Par.					
	of the project to			-	and roof top water is used to recharg	e				
	conserve fresh	bore w	ells.							
	water.									
xiii	Occupational	Compli	ed.							
	health									
	surveillance of the				orkers is being done on regular bas	İS				
	workers shall be				act which is shown in below table:					
	done on a regular				April-19 to March-20					
	basis and records	SN	Employee	Qty	Check-up					
	maintained as per	1	Staff	6361	Pre-Employment					
	the Factories Act.	2	Operators							
		-								
		3	Workers							
		3	Workers							
			Workers Medical Check-U	p: FY April-19 to	March-20					
		Annual	Medical Check-U							
			Medical Check-U	Qty	March-20 Check-up					
		Annual	Medical Check-U							
		Annual	Medical Check-U	Qty	Check-up					
		Annual SN 1	Medical Check-U Employee Staff	Qty	Check-up					
B. Ger	neral Conditions:	Annual SN 1 2	Medical Check-U Employee Staff Operators	Qty	Check-up					
B. Ger	neral Conditions: The project	Annual SN 1 2 3	Medical Check-U Employee Staff Operators Workers	Qty	Check-up					
		Annual SN 1 2	Medical Check-U Employee Staff Operators Workers	Qty	Check-up					
	The project	Annual SN 1 2 3 Compli	Medical Check-U Employee Staff Operators Workers ed.	Qty 3145	Check-up	n.				
	The project authorities shall	Annual SN 1 2 3 Compli The cor	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to	Qty 3145 the compliances	Check-up Annual Checkup					
	The project authorities shall strictly adhere to	Annual SN 1 2 3 Compli The cor This hc	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to is been certified b	Qty 3145 the compliances by our Environme	Check-up Annual Checkup and has not exceeded the stipulation					
	The project authorities shall strictly adhere to the stipulations	Annual SN 1 2 3 Compli The cor This hc	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to is been certified b	Qty 3145 the compliances by our Environme	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence					
	The project authorities shall strictly adhere to the stipulations made by the State	Annual SN 1 2 3 Compli The cor This hc and nor	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to is been certified k minated by GPCB	Qty 3145 the compliances by our Environme ; through Environ	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence	cy .				
	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control	Annual SN 1 2 3 Compli The cor This hc and nor Latest of	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to is been certified k minated by GPCB compliance report	Qty 3145 the compliances by our Environme ; through Environ	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence imental audit every year.	cy of				
	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control	Annual SN 1 2 3 Compli The cor This hc and nor Latest o Pacific	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to is been certified k minated by GPCB compliance report	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ering, Dist. Surat f	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence imental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you	cy of				
	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control	Annual SN 1 2 3 Compli The cor This hc and nor Latest o Pacific	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified k minated by GPCB compliance report school of Enginee ffice vide our letter	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ering, Dist. Surat f	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence imental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you	cy of				
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Annual SN 1 2 3 Compli The cor This hc and nor Latest o Pacific good of	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified k minated by GPCB compliance report school of Enginee ffice vide our letter	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ering, Dist. Surat f	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence imental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you	cy of				
i	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.	Annual SN 1 2 3 Compli The cor This hc and not Latest o Pacific good of Compli	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified k minated by GPCB compliance report school of Enginee ffice vide our letter	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ring, Dist. Surat f dated July 09, 20	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence mental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you 019	cy of				
i	Theprojectauthoritiesshallstrictlyadherethestipulationsmadeby the StatePollutionControlBoard.Board.Nofurtherexpansionormodification in theplantshall	Annual SN 1 2 3 Compli The cor This hc and not Latest o Pacific good of Compli	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified to minated by GPCB compliance report school of Enginee fice vide our letter ed.	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ring, Dist. Surat f dated July 09, 20	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence mental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you 019	cy of				
i	Theprojectauthoritiesshallstrictlyadheretothestipulationsmadeby the StatePollutionControlBoard.Nofurtherexpansionormodification in theplantshallbecarriedout	Annual SN 1 2 3 Compli The cor This hc and not Latest o Pacific good of Compli	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified to minated by GPCB compliance report school of Enginee fice vide our letter ed.	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ring, Dist. Surat f dated July 09, 20	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence mental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you 019	cy of				
i	Theprojectauthoritiesshallstrictlyadherethestipulationsmadeby the StatePollutionControlBoard.Board.Nofurtherexpansionormodification in theplantshall	Annual SN 1 2 3 Compli The cor This hc and not Latest o Pacific good of Compli	Medical Check-U Employee Staff Operators Workers ed. mpany adheres to s been certified to minated by GPCB compliance report school of Enginee fice vide our letter ed.	Qty 3145 the compliances by our Environme ; through Environ : by GPCB appoir ring, Dist. Surat f dated July 09, 20	Check-up Annual Checkup and has not exceeded the stipulation ental auditors, an authorized agence mental audit every year. Inted Environmental auditor Faculty of for year 18-19 was submitted to you 019	cy of				

	Ministry of	
	Environment and	
	Forests.	
	In case of	
	deviations or	
	alterations in the	
	project proposal	
	from those	
	submitted to this	
	Ministry for	
	clearance, a fresh	
	reference shall be	
	made to the	
	Ministry to assess	
	the adequacy of	
	conditions	
	imposed and to	
	add additional	
	environmental	
	protection	
	•	
	measures	
	required, if any.	
iii	At no time, the	•
	emissions shall	Monthly monitoring is being done by NABL approved third party.
	exceed the	
	prescribed limits.	At no time, the emissions exceeded the prescribed limits during report period.
		Summary of stack results given in specific condition no. iii.
	In the event of	Complied.
	failure of any	
	pollution control	No such case happened during compliance period. Whenever such incident of
	•	failure of pollution control system happened, we will stop the operation and
		rectify the problem and then only restart.
	unit shall be	
	immediately put	
	out of operation	
	and shall not be	
	restarted until the	
	desired efficiency	
	has been	
	achieved.	
iv	The Gaseous	Complied.
	emission (NOx,	
	HCI, SO2 and	The gaseous emissions (SO2, NOx, and HCI) and particulate matters from
	SPM) and	various process units confirms to the standards prescribed by GPCB through
	Particulate matter	CCA.
	along with RSPM	Details of stack results for the compliance period is given in Table 2 . (Pl. see pg.
	levels from various	no. 32)
		10. JZJ
1	process units shall	

	conform to the	
	standards	
	prescribed by the	
	concerned	
	authorities from	
	time to time.	
	At no time, the	Complied.
	emission levels	
	shall go beyond	We will ensure that at no time emission will go beyond the standards. The
	the stipulated	maximum values during the compliance period confirms that at no time the
	standards.	emission level went beyond the stipulated standards.
		Summary of stack results given in specific condition no. ii.
	In the event of	Complied.
	failure of pollution	
	control system(s)	No such case happened during compliance period. Stack monitoring for SO ₂ ,
	adopted by the	NOx and SPM has been carried out and details given in Table 2. (Pl. see pg. no.
	unit, the	32) Whenever such incident of failure of pollution control system happened, we
	respective unit	will stop the operation and rectify the problem and then only restart.
	shall not be	
	restricted until the	
	control measures	
	are rectified to	
	achieve the	
	desired efficiency.	
	Stack monitoring	
	for SO_2 , NOx and	
	SPM shall be	
	carried.	
v	The Location of	Complied.
	ambient air	
	quality monitoring	The Location of ambient air quality monitoring stations had been decided in
	stations shall be	consultation with GPCB so that at least one station is installed in the up wind
	decided in	and downwind direction as well as where maximum ground level concentration
	consultation with	are anticipated. The same had been shown to authority like SPCB, CPCB &
	state pollution	MoEF during their visit to our factory.
	control Board and	
	it shall be ensured	List of our ambient air monitoring station is given below:
	that at least one	No. Location
	station is installed	1 66 KVA GEB substation
	in the up wind and	2 Opposite Shed D
	downwind	3 Near ETP (West Site)
	direction as well	4 ETP Plat (North site)
	as where	5 Near TSDF
	maximum ground	6 Near Main Guest House
	level	7 At Wyeth Colony
	concentration are	8 Gram panchayat hall
	anticipated.	9 Near Main office, North site
		10 Water tank at Haria Road

		Details of ambient air quality results is given in Table 3 . (Pl. see pg. no. 36)
vi	Dedicated	Complied.
••	Scrubbers and	complica.
	stacks of	Dedicated Scrubbers with stacks of appropriate height (as per the central
	appropriate	pollution control board guideline) have been provided to control the emission
	• • •	from various vents. Details of stack results along with its height data is given in
	height as per the	
	central pollution	Table 2 . (Pl. see pg. no. 32)
	control board	
	guideline shall be	
	provided to	
	control the	
	emission from	
	various vents.	
	The scrubber	Complied.
	water shall be	
	sent to ETP for	The scrubber water is being sent to ETP for further treatment.
	further treatment	
	or sell to actual	
	end users.	
vii	The overall noise	Complied.
	level in and	
	around the plant	In built Acoustic enclosure, silencer and insulation are provided on all source of
	area shall be kept	noise generation to keep over all noise level within the stipulated standards like
	well within the	turbine, DG set, etc.
	standard by	
	providing noise	
	control measures	
	including acoustic	
	hoods silencers,	
	enclosures etc. on	
	all source of noise	
	generation.	Compliad
	The ambient noise	Complied.
	level shall confirm	
	to the standards	The ambient noise level confirm to the standard prescribed under EPA. The
	prescribed under	same is being regularly monitored and its details are given in Table 5 and 6 . (Pl.
	Environment(see pg. no. 38,39)
	Protection) Act-	
	1986 Rules,1989	The maximum values during the compliance period confirms that at no time the
	viz 75 dBA (day	noise emission level went beyond the stipulated standards. Summary is given
	time) and 70 dBA	below:
	(night time)	

Sr.	Location	(Day Time) Permissib	Values for the period			
No		le Limits, dBA 75	Oct 19- Mar 20			
•			Min.	Max.	Avg.	
1	Near Main guest	75	IVIII I.	MUX.	Avg.	
	house	75	55.7	61.2	57.4	
2	Near TSDF	75	61.2	64.2	62.6	
3	At Wyeth Colony	75	49.7	57.3	53.6	
4	Gram Panchayat Hall	75	60.8	63.5	62.7	
5	Near Main Office North site	75	59.2	64.5	62.18	
6	ETP North site	75	63.2	68.5	64.4	
7	Opposite shed D	75	64.7	67.3	66.0	
8	ETP West site	75	62.8	68.5	64.5	
9	Water tank Haria road	75	53.5	62.6	57.1	
10	Near 66KVA substation	75	62.5	68.6	65.0	
Sr.	Location	(Night Time) Permissible			he period	
Sr. No		Permissible Limits, dBA	Oct	19- Mar	20	
No	Location	Permissible Limits, dBA 70			20	
		Permissible Limits, dBA	Oct	19- Mar Max.	20	
No	Location Near Main guest	Permissible Limits, dBA 70	Oct : Min.	19- Mar Max. 52.2	20 Avg.	
No 1	Location Near Main guest house	Permissible Limits, dBA 70 70	Oct : Min. 50.2	19- Mar Max. 52.2 58.7	Avg. 51.2	
No 1 2	Location Near Main guest house Near TSDF	Permissible Limits, dBA 70 70 70	Oct : Min. 50.2 43.7	19- Mar Max. 52.2 58.7 51.1	Avg. 51.2 55.0	
No 1 2 3	Location Near Main guest house Near TSDF At Wyeth Colony	Permissible Limits, dBA 70 70 70 70	Oct : Min. 50.2 43.7 43.7	19- Mar Max. 52.2 58.7 51.1 58.4	Avg. 51.2 55.0 47.0	
No 1 2 3 4	Location Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office	Permissible Limits, dBA 70 70 70 70 70 70	Oct : Min. 50.2 43.7 43.7 53.4	 Max. 52.2 58.7 51.1 58.4 57.3 	Avg. 51.2 55.0 47.0 56.1	
No 1 2 3 4 5	Location Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site	Permissible Limits, dBA 70 70 70 70 70 70 70 70	Oct : Min. 50.2 43.7 43.7 53.4 53.2	 Max. 52.2 58.7 51.1 58.4 57.3 58.6 	Avg. 51.2 55.0 47.0 56.1 55.5	
No 1 2 3 4 5 6	Location Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site	Permissible Limits, dBA 70 70 70 70 70 70 70 70	Oct : Min. 50.2 43.7 43.7 53.4 53.2 53.2	 Max. 52.2 58.7 51.1 58.4 57.3 58.6 62.7 	Avg. 51.2 55.0 47.0 56.1 55.5 54.7	
No 1 2 3 4 5 6 7	Location Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site Water tank Haria	Permissible Limits, dBA 70 70 70 70 70 70 70 70 70 70 70	Oct : Min. 50.2 43.7 43.7 53.4 53.2 53.2 53.2 53.2 54.7 50.3	Max. 52.2 58.7 51.1 58.4 57.3 58.6 62.7 60.8	Avg. 51.2 55.0 47.0 56.1 55.5 54.7 59.7 57.6	
No 1 2 3 4 5 6 7 8	Location Near Main guest house Near TSDF At Wyeth Colony Gram Panchayat Hall Near Main Office North site ETP North site Opposite shed D ETP West site	Permissible Limits, dBA 70 70 70 70 70 70 70 70 70 70 70 70	Oct : Min. 50.2 43.7 43.7 53.4 53.2 53.2 53.2 53.2	 Max. 52.2 58.7 51.1 58.4 57.3 58.6 62.7 60.8 55.8 	Avg. 51.2 55.0 47.0 56.1 55.5 54.7 59.7	

	handling.							
	Pre-employment	Complied.						
	and routine	·						
	periodical medical	Pre medical checkup and routine medical checkup for the employees is being						
	examination for all	done on regular basis (Six monthly).						
	employees shall	Data are submitted in below table :						
	be undertaken on							
	regular basis.	Summary of medical checkup given in specific condition no. xiii.						
ix	Usage of PPE's by	Complied.						
	employee/							
	workers shall be	Company have PPE policy in place and is strictly followed. Company is providing						
	ensured.	adequate PPEs to all the employees.						
x	The project	Complied.						
	proponent shall							
	also comply with	Company has complied with all the environmental protection measures and						
	all the environmental	safeguards proposed in the report apart from the recommendations made their						
	protection	in.						
	measures and							
	safeguards							
	proposed in							
	project report							
	submitted to the							
	ministry.							
	All the	Since ToR didn't suggest for EIA or public hearing, no such recommendations						
	recommendation	mentioned. However, we are committed for healthy work environment and safe						
	made in respect of	work practices.						
	environmental							
	management and	However, Compliance to the recommendation made in respect of adequacy						
	risk mitigation	report for the referred project is given below:						
	measures relating	No. Recommendation Compliance						
	to the project shall	1 Liquid incinerator Complied. However, We have						
	be implemented.	also to be been segregating high COD						
		refurbished. streams (COD >50000 ppm)						
		and same is being taken for						
		recovery to get economic						
		benefit. Rest lean effluent of						
		COD <2000 ppm is finally sent to ETP for treatment. Hence no						
		incineration required for high COD wastewater.						
		2 Online pH and DO Complied. Online pH and DO						
		measuring monitoring available.						
		arrangement in						
		aeration tank						
L	I							

		3 4 5 6	ETP lab should be equipped with auto sampler, auto titrator, COD digester etc. Explore possibility of more efficient mode of aeration Company shall initiate rain water harvesting projects Change fuel (CNG) in Incinerator	 nos. of auto various state collections. The COD digesters. Complied. We cour surface aere efficient jet aere Complied. (or recently construction capacity pond water. 	samplers ages so e lab also e have rep rators with ators. Company ructed 900 to harves	s for ample have laced more has 00 KL t rain	
		7 (ref: 2010	Auto pH control system at new Incinerator plant. comprehensive study	I Complied. Au system instal working at r plant.	led and new Incine	being erator	nology, Rajkot
xi	The company will undertake all relevant measures for improving the socio economic condition for the surrounding area, CSR activities will	Com Com and i near	plied. pany is doing CSR act s specially designed f by localities. List of CS below table :	for up gradation c	of surround	ing area a	nd well fare of
	be undertaken by involving local villages and	Sr. No 1	Activity Enhancement	Implementing agency AFT Atul	Budget (lakhs)	Spent (lakhs)	
	administration:	2	of education practices in Kalyani Shala Support to tribal	Kelavani Mandal AFT Atul	36.80	36.80	
			children in Atul Vidyamandir	Vidyalaya Trust			
		3	Improvement of teaching methodology in primaryschools Adhyapika Project	AFT ARDF	48.00	48.00	
		4 5	Enhancement of rural education Promotion of	AFT ARDF AFT Shree	10.97 3.00	10.97 3.00	-
			educational facilities in an	Vallabh Seva Kendra			

	a obrano obrila			
~	ashram shala		40.00	40.00
6	Conservation of manuscripts	AFT L D Bhartiya Sanskruti Vidyamandir	40.00	40.00
7	Contribution towards publication of books On Indian culture ecology philosophy	AFT Prakrit Bharati Academy	5.00	5.00
8	Support to develop a school in a tribal area	AFT	5.00	5.00
9	Conduct science workshops for rural teachers	AFT Vikram A Sarabhai Community Science Centre	3.00	3.00
10	upport needy children with educational kits	AFT	2.70	2.70
11	Capacity building of teachers through training	AFT	0.94	0.94
12	Introduction of digital education at Sanskrit Mahavidyalay a	AFT Swadhyay Mandal	4.50	4.50
13	Support children with special needs	AFT Osmosis Play Centre an Educational Games Library	2.00	2.00
14	Empowerment of women through various vocational training courses	AFT ARDF	13.48	13.48

15	Skill training to youth as apprentices	Atul Ltd	179.25	179.25	
16	Skill development of youth through vocational training	AFT ARDF	36.20	36.20	
17	Capacity building of tribal farmers in bee keeping	AFT Under The Mango Tree Society	1.40	1.40	
18	Empowerment of tribal families by creating home stay facilities	AFT	85.00	85.00	
19	Create livelihood opportunities among tribal families by providing cows	AFT BAIF Institute for Sustainable Livelihoods and Development	66.37	66.37	
20	Develop micro entrepreneurs to provide sustainable livelihood	AFT	37.50	37.50	
21	Support tribal farmers by providing seeds	AFT ARDF	1.14	1.14	
22	Improvement of hygiene through construction of toilets	AFT ARDF	32.00	32.00	
23	Enhancement of rural health through health camps	AFT ARDF	9.79	9.79	
24	Up gradation of medical equipment in a hospital	AFT Gyan Mandal Laxmipura Group Prerit Arogya Mandal	15.00	15.00	
25	Provision of	AFT Seva	2.40	2.40	

r	1	ſ	Γ	I	1
		blood units to the needy and deserted patients	Yagna Samiti		
	26	Promotion of sports among rural youth	Atul Ltd	11.00	11.00
	27	Contribution for establishing CT scan facility in a hospital	AFT ARDF Kasturba Vaidyakiya Rahat Mandal	10.00	10.00
	28	Promotion of health and fitness through marathon	AFT ARDF	9.09	9.09
	29	Promotion of sports in rural schools by providing sport kits	AFT	6.15	6.15
	30	Provision of medical assistance to the needy people	AFT ARDF	2.79	2.79
	31	Upliftment of quality of life of salt pan workers	AFT ARDF	2.70	2.70
	32	Provision of blood units to thalassemia patients	AFT Valsad Raktdan Kendra	7.00	7.00
	33	Contribution for advance treatment of cancer patients	AFT Charutar Arogya Mandal	5.00	5.00
	34	Contribution for community marriage of underprivilege d couples	AFT Shree Chandramau les hwar Mahadevji Sansthapan Trust Shree Valsad Taluka Patel Samaj Pragati	2.50	2.50

<u> </u>		Manadal		
		Mandal	1.00	
35	Support to children with special needs	AFT Mathru Foundation	1.00	1.00
36	Provide financial support to critically ill patients	AFT Kasturba Vaidyakiya Rahat Mandal	31.25	31.25
37	Support to families of Indian solders	AFT	2.50	2.50
38	Provision of free farm kits and fertilisers at subsidised rates to farmers	AFT ARDF	3.00	3.00
39	Support to disaster relief for COVID-19 pandemic	AFT ARDF	50.00	50.00
40	Support to families of special children	AFT	19.44	19.44
41	Provision of infrastructure support for institution building	AFT World Renewal Spiritual Trust	1.50	1.50
42	Renovation of anganwadi infrastructure (model anganwadi project)	AFT ARDF	51.00	51.00
43	Provision of infrastructure support to a crematorium	AFT Atul Parnadi Muktidham Trust	5.00	5.00
44	Provision of infrastructure support to school	AFT	4.00	4.00
45	Support to small development activities in	AFT ARDF	0.48	0.48

			pogrby will grace	1]]
		46	nearby villages Afforestation		E 00	5.00	-
		46		Atul Ltd ARDF	5.00		_
		47	Establishment	AFT ARDF	30.00	30.00	
			of solid waste				
			management				
			system in Atul				
			village				-
		48	Conservation	AFT	1.00	1.00	
			of coastal area				
			through				
			cleanliness				
		40	drive				-
		49	Plantation of	AFT	5.51	5.51	
			medicinal				
			plants at				
			Kalyani Shala Total		914.35	914.35	-
			I Otal		914.35	914.35	
		The s	summary of expense	occurred in CSF	R activities f	or last vear is	s listed below:
			lget for Financial	Actual Expens		·····	
			r 19-20 (Rs. in	year 19-20 (Rs	-		
		lakł	-	lakhs)			
		914		914.35			
xii	The company shall	Com	plied as mentioned i	n xi above.			
	undertake eco						
	developmental						
	measures						
	including						
	community						
	welfare measures						
	in the project area						
	for the overall						
	improvement of						
	the environment.						
xiii	A Separate	Com	plied.				
	environmental	~					
	management cell		pany is having sepa		•		
	equipped with full		ledged laboratory fo				-
	flagged		toring functions. Ap				
	laboratory facility		olished for research			•	
	shall be set up to		onment and its reme ty was already subm				
	carry out the environmental		17. Company has			•	
	management and		oment such as pH	•	•		
	monitoring		natography system,				-
	function.		ne parameters. Hov				-
			oved and company			•	-
			sured in-house are p				
		meu:	saled menouse are p	· , COD, 1DD, M		vic.J.J.	

xiv	The project authorities shall		plied.	nted by 2010 gr	ad many things have alveg	du baan
	earmark adequate funds to	at pla	•	nted by 2010 dr	nd many things have alread	ay been
	implement the		recurring cost: Rs. 5.0 (Cr		
	conditions stipulated by the			• •	allocated every year to com , CPCB & MoEF apart from	
	Ministry of		• • •		al expenditure for the repor	• •
	Environment and	is giv	en in below table.			
	Forest as well as the State	S.	D	Capital cost per annum	Recurring Cost	
	Government along with the	Ν	Parameter	(Rs. In lacs) 2019-20	For the report period Oct 19 – Mar 20	
	implementation	1	Air Pollution Control	124.17		
	schedule for all the conditions	2	Liquid Pollution Control	341.7	2444.5	
	stipulated herein. The funds so		Environmental	29.3	0.5	
	provided shall not	3	Monitoring and Management		35	
	be diverted for any	4	Solid waste Disposal	-	263.87	
	other purposes.	5	Occupational health	-	12	
		6	Green belt	-	5.0	
		Tote	al	495.17	2760.37	I
xv	A copy of the	Com	plied.			
	clearance letter			ichayat, Zila pari	shad, District Industrial Cen	itre was
	shall be sent by				was submitted to Ministry	vide our
	the proponent to concerned	letter	Atul/SHE/MoEF/Visit/3	dated 4.4.17.		
	Panchayat, Zila					
	parishad/Municip					
	al Corporation.					
	Urban local body and the local NGO,					
	if any, from who					

	auguantiana/wanya	
	suggestions/repre	
	sentation, if any, were received	
	while processing	
	the proposal.	
	The clearance	Complied.
	letter shall also be	
	put on the web	
	site of the	http://www.atul.co.in/sustainability/pdf/Atul-Environmental-Clearance-for-
	company by the	expansion-2009.pdf
	proponent.	
xvi	The	Complied.
	implementation of	
	the project vis-à-	SPCB and MoEF is monitoring through their regular visits.
	vis environmental	
	action plan shall	
	be monitored by	
	Ministry's	
	Regional office at	
	Bhopal / SPCB /	
	CPCB.	
xvii	The Project	Complied.
	Proponent shall	
	Proponent shall inform the public	
	•	
	inform the public	We informed the public through advertisement and by sending our EC to local
	inform the public that the project	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of Environment and	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of Environment and Forest at	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their
	inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at website of the Ministry of Environment and	We informed the public through advertisement and by sending our EC to local Panchayat, Zila parishad, District Industrial Centre for further actions at their

	This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Ministry's Regional office at Bhopal.	
xviii	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closures and final approval of the project by the concerned authorities and the date of start of the project.	Start date : May 2009 Completion date : May 2010 Final approval : We have obtained NOC and CCA from GPCB. Company has funded the project internally and hence not submitted the financial closure details.
8	The Ministry may revoke or suspend the clearance if implementation of any of the above	Noted.

	conditions is not	
	satisfactory.	
9	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Noted and will be complied.
10	Any appeal against this Environment clearance shall lie with the national appellate authority, if preferred, within a period of 30 days as prescribed under section 11 of National Environment Appellate Authority Act, 1997.	Noted.
11	The above conditions will be enforced, inter- alia under the	Noted.
	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.

Sr. No.	Parameter			Res	ults			GPCB Limits
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	
1	рН	8.19	7.95	6.91	7.02	7.45	6.23	5.5 to 9.0
2	Temperature °C	31.4	31.8	30.9	30.4	31.6	30.1	40 oC
3	Colour (pt. co. scale)in units	100	90	80	140	80	78	
4	Suspended solids, mg/l	92	76	92	98	65	72	100
5	Phenolic Compounds, mg/l	0.088	0.056	0.044	0.056	0.041	0.047	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	0.75	0.7	0.65	0.75	0.68	0.62	2
8	Sulphides, mg/l	1.2	0.9	1.2	1.8	1.2	1.1	2
9	Ammonical Nitrogen, mg/l	48	38	43	46	34	37	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	78	65	60	65	59	66	100
13	COD, mg/l	240	220	218	215	208	222	250
Note :	ND is Not Detectable.					-		

Table 1 : Quality of treated effluent

Table: 2

Detail	s of Process and This stack	Decement	Protonative	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20
SAL	CEDANINES D	Parent of the local data	Lante	Vielaar	Sugar-	Value	Cutos	Value	Status .
	lest Bito								
1	Phongeror Plant (16d Plant)	Phasegener	0.1 ppm	Not its now	What ber summ	Net in use	Not be use	Het in our	Not be use
	ie Chierine Plant	and the second	Were an		107111	1000	300	11.5	1
3	Dechisrington Pheri	£3 ₂	9.0 mg/lim3	0.2	5.5	72	5.8	4.2	4,4
		HC1	20.0 mg/Hm3	8.3	6.8	0.3	6.0	8	6.3
3	Contoron stark of HCI Pagel sould	i3,	9.0 mg/Nes1	86.7	4.1	3.0	8.A.	41.6	6.8
	162	HCL.	- 28.0 mg/huci	14,4	1.6.	102	4.9	5.4	8.3
FCB P		1	West Collins	1000 0	ann an li	100		No Contractor	
4	Foul the Scubber	340%	40.0 mg/3m3	Not in our	Not in use	Not in our	Nor in use	Not in use	Not in use
		BIDe .	21.0 mg/lim3		Contraction of the		and the second second	The Part Street of	- monterio
	ie Aold (East Sile)								
9	Putturn: Acid Plant	BO3	2.0 Xg/T	0,4	0.0	0.8	0.8	0.6	0.8
	and the second second second	Arid Mist	50.0 mg/Nm3	14.3	12.4	16.7	13,4	11.7	10.1
6	ChloroBalfanic Aniel plant	Cl _o	9.31 mg/Nex3	0.8	1.8	¥.a .	6.2.	6,7	1.1
	Presentee	RECT	20.0 mg/Hm3	13.5	11.7	14.8	13.7	14.8	12.5
					_				
Banon	classi plant							200	
T	Derichter erge Resourcitait Plant.	180.	40.0 mg/ma3	Mar and along	About and and allowed	Nor contractory	6.0	8.6	7.3
	Sectores sittly resolutional Londor	80,	South and Character	doring visit	Not running during visit	doring siail			
	Sprug Dryer -Braunciosi Paget	1754	Contra Int A	Not income	Not rorning	Mar excession	Pilet successive	102	hi .
			130.0 mg/9im"	during visit	during visit	doring sist	during vian		
Inclus	icator	-		-	-				
9	Incinemat	294	1590.0 veg/Mei3	00	81	112	46.	38	41
		30,	40.0 mg/Nm3	17.8	16.7	16.7	24.7	12.8	10.2
		NOs	23.0 mg/10m3	8.6	7.4	1.1	1.8	10.6	14.8
BI Pla	ant .	1100	Personal const	-		-			
10	Foul Gas Stubber	1907	40.0 mg/Des3	Not Watering	Not Fisconig	Not Running	Net Hickey	Not Rangela	Shot Plannia
		WOs	Colling an 0.5C	Durleg Viel	During Visit	During Visit	During Visit	During Viels	During Ye
NIND F	Plant ,					-	1.1.1.1		
11	Rposs Deper	1964	150.0 mg/fm3	Not lit trim	Net in list	Not in time .	Not 22 1889	Net in the	Not in some
13			-	-		-	ND	100	500
	firmbler \$902	Plungtor	0.1 ppm	Not increasing during visit	Not counting during visit	Bot running during siab	ND.		
3.8	Serubles 5-801/903	HCI	20.0 og/Nn3	Not curreing during visit	Not manning during visit	Not running during visit	2.8	3.4	3.5
		NOx	25.ft mg/HmJ	-			11.3	9.3	8.8
	1.1.1.1	man	are in mg/ mea	Bet running during visit	Not vurning during visit	Not running during visit	-11FC		
34D	and a second s	10	and the second second	and a		in the second se	ne.		
14	Common Berühber; 2.4D Plant	Cl ₁	9.0 mg/Nm3	7.9	614	3.8	6.3	4.1	4.0
	e contraction comber o	aict	20.6 mg/hm5	4.5	30.3	7.5	8.4	n.3	6
		Partial	-	ND.	ND	ND	ND.	960	ND
10.	Deper-1	PM with Proticule	20.8 mg/mn3	7.8	6.3	8.0	4.8	1.3	6.3
12	Depet-3	PM with Peaticide contpoint	20.0 mg/8m3	11.3	1.2	7.2	9.3	A.6	7.2
16	Deper-3	PM with Penticule component	20.0 mg/8m5	8.5	7.5	10,7	7.5	0.1	6,8
14	Dryer-4	Phil with Protectle composited	201.0 mg/3443	3358	11.4	0.5	10.4	11.7	10.3
18	Dryer-N	PM with	20.0 mg/7het4				1.1	7.4	8.1
		Pearicide		-	1	-	1.	1000	

Re.	Stuck Details	Paramenter	Permission Locality	Orragend. Value	Citatered Value	Vatie	Official Value	Value	(Plonied)
CP P1				-	-	-	-	-	
20	INCHA	CI.	@ vng/MM	Must Discosise	Nut Harrist	Not Parents	Mut Historia	Not Hunnig	Not Rossala
	and a	HCI	and the second se	During Visit	During Visit	During Voil	During Visit	During Visit	During Visi
		80,	20.mg/111/	-					
		and .	40. mg/3062	- China -	in succession in the	and the second	ATT IN COLOR		and the
21	Piprasi	801	40 org/WM					Not Running	
		HCL	20 aug/Wrs.3	During Viset	During Vise	During Viet	During Visit	During Visit	During Visi
17	Imidaclignid	Nol.	175 mg/fimil	Post framming Docting Visit	Not Blanning During Visit	Not Runnig During Visit	Not Blanning During Voit	Not Runnig During Visit	Hat Humaig During Visi
18	Prosteroide	90.	40 mg/fim3	Not Worming	not Burriag	Not Running	Nor Burning	Not Running	Net Rimmig
	. Concession	HEI	29 mg/8m3	During Visit	Charling Visit	During Viset	During Visit	During Viet	During Viel
19	Stack at Amirie Plant	301,	175 mg/No.3	21.6	36.2	20.4	26.5	20.8	16.2
	Plant	and a	to a staff super-	10.3-14		also, e	4.4.4	ALC: N	1.0.0
20	Phongene Scrubby at MPSL	Thompson	0.3 ppm	WD C	ND	ND	ND	ND	ND
			and the second s		1.2.2	A second s	1.1.1		
23	Central Scrubber at MPHL	Chaignon	0.1 ppm	192	ND	ND-	ND	ND-	ND
	plant	-		-		-	-	-	-
23	Central scrubber at Noo Plant	Acetomytryle, IPA	-			P 1	21.00	P	-
Eater	Plast								
23	Routiber or Earry plant for	Fornakhityde	10 mg/Mush	Barri Bharrann	Not Bunnie	New Property	Blot Dunnie	Net Bunnin	Not Warning
	Glyphamie		to agroup					Ouring Visit	
24	Central Scoubles MCPA Plant	ing	30 mg/8m3	Not Forming	Not Burnig	Not Runnig	Not Burnig	Not Runnig	Not Bunnig
				During Yosh	During Your	During Vian	Churing Visit	During Visit	Unaring Vie
28	MPP plant senabler	HCL	20 mg/Mm3	Net Found	Not Planning	then Horning	Not Patrig.	Not Hunnig	Net Baronia
		Plungnise	0.2 ppm	During Vial	During Visit	During Visit	During Visk	Duotny Viak	During Via
Atul	West Site			-	-				-
24	[theil A05/03/44	ci,	9 mg/NM ²	V.8	6.T	0.0	6.7	7.1	6.5
	Sum and and and an	HCT	The target of the second se	10.3	0.6	8.4	0.3	12.7	10.2
27	Shed B2/12/24 Brachan Vessel		30 mg/NM ⁴ 9.0 mg/Nm3	0.7	6.5	5.4	0.5	5.3	4.5
	Street (27, 12, 24 street on vessel	HCL	and the second second second second	8.1	8.8	1.	0.3		7.3
28	and the second se		20.0 mg/6m3			13,6	5.0	8,6	2.22
	181aed 0118/02/24 Fam	80,	40 mg/8ht"	14.3	16.3	But Hunnig During Visit		14.7	11.1
			9 mg/NM ^o	5.6	4.6	forming cost	3.3	4.8	4.5
		Cle	tion of the second s	_			2.9	7.3	6.8
-		1012	30 mg/NM ⁴	12.4	10.6	1.1	10.1		
	Shee C5/29/15 Chlormator	1102	20 mg/NM ⁴	12.4	10.6	7.3	8.2	6.3	7.2
	Shee Ch/20/15 Chiarmany	HC2 Cl ₁	20 mg/NM ⁴ 9.0 mg/Sm3	n.4	3.2		8.2	6.3	7.41
29		HC2 CL	20 mg/NM ⁴ 9.0 mg/3in3 20.0 mg/No.3	n.4 10.2	8.2 12.3	9.8	8.2 11.8	n.3 10.7	11.3
29	Shed Ch/20/15 Chietmator Shed D Nav Spray styre No. 45 Shed D Nav Spray styre No. 10	HC2 Cl ₁	20 mg/NM ⁴ 9.0 mg/Sm3	n.4	3.2		8.2	6.3	11.3
29 30 31	Sheet D Nava Sproy styler. No. 45 Rheet D Nava Sproy styler. No. 30	HC2 FCL FW FW	20 mg/NM ⁴ 9.0 mg/Nm3 20.0 mg/Nm3 150.0 mg/Nm3 150.0 mg/Nm3	n.4 10.2 143 56	3.2 12.3 99	0.8 45 63	3.2 11.8 65 49	6.3 10.7 32 24	13.5 40 Not Kutting During Via
29	Sheti D Nizo Spray daser No. 45	HC2 NCI, HC2 IMM	20 mg/NM ⁴ 9.0 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3	n.4 10.2 13 58 Nor Pastnig	3.2 12.3 90 48 Nor Parnig	0.8 45 Not Rancig	3.2 11.8 55 48	n.3 18.7 32	13.3 40 Not Forma During Via Not Forma
29 30 31	Sheet D Nava Sproy styler. No. 45 Rheet D Nava Sproy styler. No. 30	НС2 СІ, РМ РМ РМ СІ,	20 mg/NH ⁴ 9.5 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3	n.4 10.2 N3 Se Mar Rasing During Vast	5.2 12.3 5n 48 Not Plannig Channg Viet 6.7	0.8 As NJ Not Rannig During Visit	5.2 11.8 55 48 Not Parrig During Viet	6.3 10.7 32 24 Not Bosoig Ehrring Visit	13.3 40 Pret Houring Dioring Via Dioring Via 3.3
29 30 31 32	Shed D Nav Spray dayer No. 45 Bled D Nav Spray dayer No.30 Shed E 7/12/49 Spray Dayer	НС2 СІ, НС2 РМ РМ	20 mg/NM ² 9.0 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3	n.4 10.2 H3 54 Mor Platnig Jhang Viet	5.2 12.3 3n 48 Mot Plannig During Viel	0.8 As 63 Not Ranoig During Visit	5.2 11.8 55 48 Not Promig During Vien	n.3 18.7 32 24 Not Rossing During Visit	13.3 40 Pret Fournig During Via During Via
29 30 31 32	Shed D Nav Spray dayer No. 45 Bled D Nav Spray dayer No.30 Shed E 7/12/49 Spray Dayer	НС2 СІ, РМ РМ РМ СІ,	20 mg/NH ⁴ 9.5 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3	n.4 10.2 83 58 54 54 5.4 7.3 Ret Eurorg	3.2 12.3 36 48 Mort Florenig Charmy Viet 6.7 3.4	9.8 46 6.2 Not Rizerolg During Vise 6.3 8.2 Not Roming	5.2 11.8 55 48 Dot Poerig Charteg Viet 6,7 6,7 8.4	6.3 18.7 32 24 Not Europig During Visit 6.7 7.3 Not Europig	13.3 40 Prot Pouring Via Dioring Via Dioring Via 2.3 6.8 Rot Runnig
29 30 31 32	Shed D Nav Spray dayer No. 45 Rhed D Nav Spray dayer No.30 Shed E 7/12/49 Spray Draw Rhed F 76/1/13 Northan Versal	нсэ Сі, нос РМ РМ РМ Сі, ноз	20 mg/NH ⁴ 9.5 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 150.0 mg/Nm3 9.9 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3	n.4 10.2 83 58 54 54 5.4 7.3 Ret Eurorg	3.2 12.3 36 48 Mort Florenig Charmy Viet 6.7 3.4	9.8 46 6.2 Not Rizerolg During Vise 6.3 8.2 Not Roming	5.2 11.8 55 48 Dot Poerig Charteg Viet 6,7 6,7 8.4	6.3 10.7 32 24 Not Bosoig During Visit 6.3 7.3	13.3 40 Prot Pouring Via Dioring Via Dioring Via 2.3 6.8 Rot Runnig
29 30 31 32	Shed D Nav Spray dayer No. 45 Rhed D Nav Spray dayer No.30 Shed E 7/12/49 Spray Draw Rhed F 76/1/13 Northan Versal	нсэ Сі, іюс РМ РМ РМ Сі, нсэ Сі,	20 mg/NM ⁴ 9.0 mg/Nm3 20.0 mg/Nm3 150.0 mg/Nm3 150.0 mg/Nm3 150.0 mg/Nm3 9.0 mg/Nm3 20.0 mg/Nm3 9.0 mg/Nm3	n.4 10.2 83 58 54 54 5.4 7.3 Ret Eurorg	3.2 12.3 36 48 Mort Florenig Charmy Viet 6.7 3.4	9.8 46 6.2 Not Rizerolg During Vise 6.3 8.2 Not Roming	5.2 11.8 55 48 Dot Poerig Charteg Viet 6,7 6,7 8.4	6.3 18.7 32 24 Not Europig During Visit 6.7 7.3 Not Europig	13.3 40 Prot Pouring Via Dioring Via Dioring Via 2.3 6.8 Rot Runnig
29 30 31 32 23 34	Shed D Nan Aprop dryte No. 46 Bled D Nan Aprop dryte No. 86 Shed E 7/12/44 Aprop Dryte Shed F 76/1/13 Notetian Veral Bled G 10/8/1 (inserior)	HC2 Cl, HC2 PM PM Cl, HC3 Cl, HC3 Cl,	20 mg/NM ⁴ 9.5 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 150.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3	n.4 10.2 103 54 Mar Ronnig Jhurng Viat 5,4 7,3 Net Honnig During Shet	5.2 12.3 50 48 Not Plannig During Visit 6,7 5,4 Not Nannig During Visit	9.8 62 63 During Visit 6.3 8.2 Net Storing During Visit During Visit	8.2 11.8 85 49 During Visit 6,7 8,4 Non Runnig During Visit	n.3 10.Y 32 24 24 6.1 7.3 Nat Boarrig Churing Visit	L1.3 40 During Via During Via During Via 3.3 6.8 Bot Burniq During Via
29 30 31 22 23 34 22	Shed D Non Apop dryte No. 45 Bled D Non Apop dryte No. 30 Shed E 7/12/49 Spare Dryte Shed F 76/1/13 Notetian Venal Bled G 10/8/1 (monitor) Shed H 11/6/37 chlorisotor Shed K 11/2/4 Staal of	HC2 Cl, HC2 PM PM Cl, HC3 Cl, HC3 Cl, HC3 Cl, Cl, Cl,	20 mg/NM ⁴ 9.5 mg/Nm3 20.0 mg/Nm3 19630 mg/Nm3 19630 mg/Nm3 19630 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3 20.0 mg/Nm3	n.4 10.2 63 5a Aur Rosenig During Visit 5.4 7.3 Net Rosenig During Visit 6.3	5.2 12.3 50 46 Nor Phornig Charing Visit 6,7 5.4 Biot Running Charing Visit	9.8 46 62 During Visit 6.3 H.3 Not Storing Outing Visit	5.2 11.8 55 49 Not Proming Turing Visit 6,7 6,4 Not Running Turing Visit	0.3 10.Y 32 24 Not Europig Thuring Visit 6.1 7.3 Not Roomig Churing Visit Churing Visit	13.3 40 Doring Via Doring Via Doring Via 3.3 6.3 Rec Runnig Diuring Via Diuring Via 2.5
29 30 31 32 33 34	Shed D Non Sproy dayer No. 45 Blod D Non Sproy dayer No.30 Shed E 7/12/49 Sproy Dayer Shed E 7/12/49 Sproy Dayer Shed G 10/6/1 Inscitory Shed G 10/6/1 inscitory	нсз СІ, нсс РМ РМ РМ СІ, нсз СІ, нсз СІ, нсз	20 mg/NH ² 9.5 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 9.0 mg/Nm3 9.0 mg/Nm3 20.0 mg/Nm3 9.0 mg/Nm3 20.0 mg/Nm3	n.4 10.2 48 Mar Rasnig During Vial Ref. Rasnig During Vial During Vial During Vial	5.2 12.3 90 48 Nor Roomig During Visit 6,7 8.4 Nor Roomig During Visit 6.5 12.3	9.8 46 62 Not Ranoig During Vier 6.3 8.2 Not Storing During Vier 13.8 12.4	5.2 11.8 55 49 0.7 6.7 6.4 Nor Promis Guring Visit 5.8 11.4	0.3 10.7 32 24 567 Florevig During Viet 6.7 7.3 Nat Roamig Charling Viet 3.2 0.7	13.3 40 During Via During Via During Via 3.3 0.3 During Via During Via During Via During Via During Via During Via During Via
29 30 31 32 23 34	Shed D Non Apop dryte No. 45 Bled D Non Apop dryte No. 30 Shed E 7/12/49 Spare Dryte Shed F 76/1/13 Notetian Venal Bled G 10/8/1 (monitor) Shed H 11/6/37 chlorisotor Shed K 11/2/4 Staal of	HC2 Cl ₁ HC2 PM PM PM Cl ₁ HC3 Cl ₂ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ HC3 Cl ₄ Cl ₄ C	20 mg/NM ⁴ 9.0 mg/Nm3 20.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 190.0 mg/Nm3 9.0 mg/Nm3 20.0	n.4 10.2 83 56 Mar Rannig During Visit 2.4 7.3 Net Fluenig During Visit 5.2 10.3 0.4	5.2 12.3 50 48 Nor Romig During Viet 6,7 5.4 Nor Romig During Viet 6.5 13.5 0.6	9.8 46 Not Ranoig During Viet 6.3 8.2 Not Romig Outing Viet 12.4 0.3	5.2 11.8 55 56 56 50 50 50 50 50 50 50 50 50 50 50 50 50	0.3 18.Y 32 24 Not Floring Floring Viet R.1 7.3 Not Roomig Ourling Viet 3.2 9.7 0.4	13.3 40 During Via During Via During Via 3.3 80.8 During Via During Via 2.5 7.2 8.5

No.	Propil fortials	Bayanenne :	Convincible Londa	Value	Children I.	Obtained	Obtained : Volate	Ohnamiel	Gitmaned. Value
38	Wheel 313/01/43	80,	40 mat/NH ²	15.2	10.1	12.2	10.3	13.5	Bot Rumnig
		c3,	9.0 mg/Net3	6.3	0.7	7.1	6.2	5.8	During Visi
		TICI	20.0 mg/Wm2	9.4	4.2	12,3	8.6	7.8	
39	Shed 312/03/36	80;	40 mg/NM ²	14.8	16.8	16.7	14.5	12.5	Not Funnig
		110	20.0 ing/fim3	9.7	5,4	0.7	R.3	A.9	During Vie
40	Rhod & Scoubler Fan N20/08/24	CI.	9 mg/MM ²	7,2.	63	6.2	6.7	3.6	7.3
		HACK .	20 mg/NM"	13.6	12.8	15.5	13.3	10.4	12.8
41	Steel N Broubber Fun N30/02/41	903	40 mg/NM ²	17.3	13.6	30.4	13.9	24.6	10.2
42	Bullie: Black Plant	H.#:	-	ND	ND	ND	ND	MD	ND
		mit.	175 mg/NM ²	13.7	13.8	22.6	13.8	17.2	38.4
43	Sutter Dives plant	21,5	-	ND	ND	ND .	ND	ND .	ND
	and the second s	NOL.	175 mg/NM*	19.6	27.4	14.7	30.4	13.4	10.3
44	MPP plant	HO	20 mg/8M ³	1357	9.7	11.6	10.8	9.8	+
45	Flaraya & Fragration Plant	MCI	20 mg/NM ⁴		Not Humin During Visit	Not Hurinig During Visit	Bot Hurring During Visit	Met Hurnig During Viet	Mat Hunnig During Vie
Atul	North Site	1		-				-	
46	N-FDH Plant Catalylin	194	19000 mg/Nm3		Not Burnig				
	locinerator	80,	40.0 mg/No.3	During Visit	During Visit	During Vield	During Viet	Doring Viel	During Via
		1108	25.0 mg/Nm3			1		-	-
		Formuldshyde	10.0 mg/Nm2						
	PSIIN Plant seasel								
47	Phills Plant newsel.	Thingsor	0.1 ppm	1953	NO	ND OR	NO	ND.	ND
47		Phongeose HCL	0.1 ppm 20.0 mg/Net5	12.3	ND 12.3	0.0	NO 11.3	ND 9.8	ND 6.3
175	PHDI - II Plant		Charles in the local sectors in the	-	Add and a second se		2.2	1100	275
175		HCL	20.0 mg/Net3 0.1 ppm	12.3	12.3	0.0	11.1	9.8 ND ND	6.3 ND ND
48	PHDI - II Plant	HCI Phosence	20.0 mg/Net5	12.5	12.3 ND	0.M ND	11.3 ·	9.8 ND	6.3 ND
48	PHDX - II Plant DCDPM Plant	HCI Phesgenie (K) ₄	20.0 mg/Net3 0.1 ppm	12-3 NO 300	12.0 ND ND	ND ND	11.8 ND ND	9.8 ND ND	6.3 ND ND
48 49 50	PHDY - II Plant DCDPS Plant D/D8 Plant	HCI Preignar DOL NUL	20.0 mg/Net3 0.1 ppm	12.5 80 90 95.5	12.3 ND ND 35.3	8.8 ND ND 54.4	11,8 ND ND ND N2,8	9.8 ND ND 44_3	6.3 ND ND 44,3
48 49 50 51	PHDI - II Plant DCDPS Plant DOB Plant SINC II Plant	HCI Pheigene NII NII BO ₃	20.0 mg/Nm3 0.1 ppm 	12,3 80 90 85,3 80	12.3 ND 35.3 ND	9.8 ND 96.4 ND	11.3 ND ND 52.3 ND	9.8 ND HD 44.3 ND	6.2 ND 44,3 ND
48 49 50 61 83	PHDN - II Plant DCDV5 Plant DOB Plant SIVCI II Plant BPGC I Plant	HCI Phasagene BCl ₄ BIII ₄ BCl ₃ BII ₁	20.0 esg/Nos5 0.1 ppm 	12.3 ND 55.3 ND AE.3	12.3 ND 55.3 ND 68.2	0.8 ND 56.4 ND 101.3	11.3 ND ND 52.8 ND 72.8	9.8 9D 8D 84.3 8D 64.3	6.2 ND 44,1 ND 64.3
48 49 50 61 83	PHDN - II Plant DCDV5 Plant DOB Plant SIVCI II Plant BPGC I Plant	HCI Phreagene 1951a 1910a 1953a 1955a 1955a 1955a 1955a 1955a	20.0 esg/Nos5 0.1 ppm 	12.3 ND 105 15.3 ND 68.3 45.3	12.3 ND 55.3 ND 66.2 45.5	0.8 ND NO 04.4 ND 101.3 132.6	11,3 ND ND N2,3 ND 7,7,2 88,6	9.8 ND HD 44.3 ND 64.3 ND 64.2 73.4	6.2 ND ND 44,3 ND 64.3 79,3
48 49 80 81 83 83	PHD - II Plant DCDP5 Plant DOB Plant SWC II Plant SWC II Plant SPC IV Plant	HCI Phangene NH ₄ BO ₅ NH ₇ NH ₆ BO ₈	20.0 mg/Net3 0.1 ppm 175 Mg/Het3 175 mg/Het3 175 mg/Het3 175 mg/Het3 175 mg/Het3 175 mg/Het3	12.3 ND 55.3 ND 66.3 ND 66.3 45.3 7.3	12.3 ND 35.3 ND 45.4 7.3	0.8 ND ND 96.4 ND 101.3 132.6 4.3	11.3 ND ND 52.3 ND 73.3 88.6 3.6	9.8 ND ND 66.3 ND 68.2 73.4 4.3	6.3 ND HD 44,3 ND 64.3 76,8 3.5

No.	Smarg Testada	Panaistia	Permissibit Limits	Value	Cotained Value	Value	Unine Value	Obbitted. Value	Value
East	site			1		-		-	-
1	FBC bailer II	PM-	100 mg/Nm3	45	53	14	63	76	76
		90,	600 mg/Nm3	110	1.04	111	104	in	115
		NOx	800 mg/3im3	137	145	126	1.25	186	103
2	FIR heler #2	PM-	100 mg//hm3	13	66	6.0	78	82	88
		80,	400 mg/2003	120	102	107	112	109	108
		NOx	1600 mg/3in3	140	1.87	119	117	121	1.16
3	FIRC hoder 83	PM	500 mg/7hm3	TW	10	75	65	72	76
		90,	400 mg/70m3	136	1019	110	108	118	114
		ROs	000 mg/Nm3	109	1.32	126	112 .	128	120
4	Hist Ckl. Unit	174	150.0 mg/Nm3	ND	80	ND	815	1913	ND
	Orservinal Plant	80,	100 ppm	ND	MD	MD	MD	ND.	MD
		NUS	50 ppm	114	34	36	38	22	26
5	DG are 1020 KVA (frandby)	PM	150 seg/Wer*	Shand by	Stand by	Stand by	thand by	Stand by	thand by
		90,	100 9990						1.000
		NOK	00 ppm	-	1000			1.000	-
West	Bits	10	1100			No.			
6	FBC losler W1	PM	100.mg/mn3	113	60	02.	7.0	58	55
		80,	600 mg/mn3	102	112	104	118	110	120
		90%	660 mg/hm3	133	324	123	104	113	116
T	Het Oil Plant short-8	196	150.0 mg/Nm3	ND	ND	ND.	ND	ND .	ND
	and the second sec	BOy	3.00 ypm	ND-	MD .	700	000	30D	1923
	and the second s	HOS	SD pere	30	-00	40	37	20	21
	Of hirner Shiel B	254	150.0 mg/Nm3	Shand by	Bland its:	Rhand by	Stand its	Brand by	Stand by
	(Stand Hy)	80,	100 pym	1000000	and a second sec	1.000	COLUMN .		and the set
		1905	SD pasts.		100		1.1.1.1		
9	Bulley (50 TFU 2 Nos) (New bullers) W2,W3	PM	50 mg/Nes3	25	<u>u</u>	34	37	39	23
		30,	000 mg/Nm3	127	132	104	116	120	110
		110%	300 mg/Bin3	0.0	102	9.8	100	103	105
		Mescury	0.03 mg/Het5	nto .	00	8D	ND	110	NO
10	DG ant 1900 KVA	254	150.0 mg/5m3	Stand by	fitand by	Stand by	Stand by	Hand by	Biand by
	(Stand By)	80,	100 hint		and the second s	1. minut	and a second	1.100.022	10000
		100x 70 ppm	50 ppm						
North	Site	Dise.		5					
11	Therasic fluid beater of	2936	130.0 mg/Nm3	WD3	ND	ND	ND	ND	ND
	DOD/DAP Plant	80,	100 pym	ND	ND	ND	ND	ND.	ND

Table 3 : Ambient Air Monitoring details

		Limit	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
Station	Parameter	micro gm/N M³						
	PM 2.5	60	21.3	19.6	32.2	29.6	33.7	36.8
	PM10	100	43.5	38.4	45.3	40.4	44.2	52.3
66107	S02	80	9.8	10.4	9.4	10.4	11.2	10.8
66 KV	NOx	80	16.4	17.5	16.2	13.5	13.2	15.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	21.3	28	32	38	32	36
Opposite	PM10	100	43.5	35	39	35	39	42
Shed D	SO2	80	9.8	7.9	9.6	8.4	9.6	8.2
	NOx	80	16.4	8.3	9.3	9.2	9.3	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	НСІ	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	24	24	27	45	36	38
Near West site ETP	PM10	100	39	39	42	39	42	45
	S02	80	8.7	8.7	8.4	14.7	8.4	8.7
	NOx	80	9.4	9.4	8.4	15.4	8.4	11.4
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	27	27	29	40	40	44
	PM10	100	40	40	44	40	42	44
	S02	80	8.3	8.3	9.6	12.8	9.6	10.8
Near North ETP	NOx	80	8.6	8.6	8.2	14.2	8.2	12.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	НСІ	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	26	28	42	43	46
	PM10	100	46	46		42	40	43
TODE	S02	80	7.4	7.4	8.2	10.6	8.2	9.8
TSDF	NOx	80	8.1	8.1	7.6	11.5	7.6	13.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	НСІ	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	15	15	15	28	19	24
	PM10	100	25	25		45	42	44
Main Guest House	SO2	80	4.5	4.5	4.3	8.4	7.8	6.3
	NOx	80	5.2	5.2	-	9.4	8.2	7.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	-	ND	ND	ND
	PM 2.5	60	10	10	17	25	20	22
Wyeth Colony	PM10	100	26	26		42	39	37
	S02	80	4.1	4.1	5.4	7.2	6.7	7.6

Page 36 of 39

	NOx	80	4.6	4.6	5.3	8.2	7.4	8.6
	Ammonia	850	ND	ND	ND			ND
	HCI	200	ND	ND	ND			ND
	PM 2.5	60	12	12	22	30	28	29
	PM10	100	29	29	32	49	48	45
Gram panchayat hall	SO2	80	6.2	6.2	6.3	8.6	7.8	8.2
	NOx	80	5.7	5.7	7.2	9.4	8.2	7.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	19	19	24	35	30	26
	PM10	100	35	35	38	52	48	49
Main office, North	SO2	80	7.2	7.2	6.8	9.2	8.4	7.3
site	NOx	80	7.3	7.3	8.1	10.6	9.6	8.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	18.3	18.3	17.8	28.2	37.8	30.8
	PM10	100	24.4	24.4	32.7	42.2	42.7	45.2
Haria water tank	SO2	80	9.5	9.5	8.8	11.2	8.8	8.8
	NOx	80	15.8	15.8	14.5	14.3	11.5	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

Table 4 : Fugitive Emission Monitoring details

Plant	Area		Prescribed	Results	of VOC	s in Milli	gram pe	er NM ³	
			Limit		1			1	
				Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
2,4 D	Reactor	Phenol	19	11.6	12.6	14.8	16.6	12.4	12.3
	Buffer tank	Chlorine	3.0	1.6	2.1	1.9	2.4	1.6	2.1
Resorcinol	Benzene storage	Benzene	15	7.9					8.5
	tank area near vent				10.2	8.4	11.3	9.4	
	Near	Butyl	-	649					602
	Extraction/scrubber	acetate							
	unit				715	620	705	739	
Pharma	At second floor	Ammonia	18	10.6					13.2
	work area				14.2	10.8	12.4	17.4	
	Ammonia recovery	Ammonia	18	14.9					11.6
	area				16.8	15.2	17.1	16	
Epoxy - l	At vacuum pump	ECH	10	6					5.7
	2nd floor				3.4	2.9	3.5	5.9	
	At vessel POS 1208	ECH	10	5.2					6.6
	G.F				5.6	7.4	9.2	7.8	
Shed H	At second floor	Nitrobenze	5	3.6					2.9
	work area	ne			3	2.3	3.4	4	
Shed J	Buffer Tank	Chlorine	3	2.1	2.6	2.1	2.5	1.7	2.4

Sr.	Location			Noise Le	evel, dE	BA		Permissible
No								Limits, dBA
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	75
1	Near Main guest house	56.7	59.7	55.7	55.7	55.7	61.2	75
2	Near TSDF	64.2	61.2	62.3	62.3	62.3	63.7	75
3	At Wyeth Colony	57.3	49.7	53.5	53.5	53.5	54.4	75
4	Gram Panchayat Hall	62.4	60.8	63.5	63.5	63.5	62.5	75
5	Near Main Office North site	60.2	59.2	64.5	64.5	64.5	60.2	75
6	ETP North site	64.3	68.5	63.2	63.2	63.2	64.4	75
7	Opposite shed D	64.8	64.7	66.4	66.4	66.4	67.3	75
8	ETP West site	68.5	62.8	63.7	63.7	63.7	65.5	75
9	Water tank Haria road	59.7	62.6	53.5	53.5	53.5	60.2	75
10	Near 66KVA substation	63.3	68.6	65.2	65.2	65.2	62.5	75

Table 5 : Noise level monitoring data (Day Time)

Table 6 : Noise level monitoring data (Night Time)

Sr.	Location	Noise L	evel, dE	BA				Permissible
No								Limits, dBA
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	70
1	Near Main guest house	50.2	52.2	50.6	50.6	51.6	52.2	70
2	Near TSDF	55.7	58.7	54.2	54.2	53.2	54.4	70
3	At Wyeth Colony	44.7	43.7	46.1	46.1	51.1	50.3	70
4	Gram Panchayat Hall	57.3	54.8	58.4	58.4	53.4	54.3	70
5	Near Main Office North site	57.3	54.8	54.2	54.2	56.8	56.2	70
6	ETP North site	58.6	55.3	53.6	53.6	53.2	54.4	70
7	Opposite shed D	60.2	57.3	62.7	60.7	59.2	58.3	70
8	ETP West site	57.8	59.8	60.8	57.8	54.7	55.1	70
9	Water tank Haria road	52.3	55.8	50.3	52.3	54.7	53.2	70
10	Near 66KVA substation	57.2	53.8	63.2	57.2	56.4	55.1	70

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 October 2019- March 2020 as per CRZ Clearance No. ENV-1097-2942-P, dated 17.01.1998.

No.	Condition	Compliar	nce						
1	The Company shall strictly	Complied							
	adhere to all the provisions of	-							
	CRZ notification of 1991 and	Details a	re given below in the table:						
	subsequent amendments.								
		No.	Clause under CRZ notification	Compliance					
		1	Imposes the given restrictions in setting up and expansion of industries, operations or processes in CRZ.	Noted					
		2	List of prohibited activities within CRZ.	Noted					
		3	Guideline for regulation of permissible activities.	Noted					
		4	Procedure for monitoring and enforcement.	Applicable to Ministry					
		Ann 1	Classification of costal regular zone.	Noted					
		Ann 2	Guidelines for development of beach/resort/hotels.	NA					
		Ann 3	List of petroleum products permitted in storage in CRZ except CRZ-1.	NA					
2	The company shall strictly	Complied	1.						
	adhere to the conditions								
	stipulated by the Gujarat		pany complies with all stipulate						
	Pollution Control Board in		ulation made in CCA by GPCB are						
	their Consent order.		certified by the external agency						
			appointed by GPCB. Latest audi		18-19				
3	The company shall discharge		mitted vide our letter dated July 09	, 2019.					
3	The company shall discharge the treated effluent meeting	Complied	1.						
	the norms prescribed by	The disc	harged effluent is meeting all po	Illution board lim	its and				
	G.P.C.B.		various parameters of treated eff						
		The maximum values during the compliance period confirms that at no time the emission went beyond the stipulated standards.							
		Summary	y is given below:						

	Sr. No	Parameter	Norms		for the - Mar 20	
				Min.	Max.	Avg.
	1	рН	5.5-9.0	6.23	8.19	7.19
	2	Temperature	40 deg C	30.1	31.8	31.09
	3	Colour (pt. co. scale)in units		78	140	92.86
	4	Suspended solids	100 mg/l	62	98	79.57
	5	Phenolic Compounds	5 mg/l	0.039	0.088	0.05
	6	Cyanides	0.2 mg/l	ND	ND	ND
	7	Fluorides	2 mg/l	0.62	0.75	0.69
	8	Sulphides	2 mg/l	0.9	1.8	1.23
	9	Ammonical Nitrogen	50 mg/l	34	48	41.00
	10	Total Chromium	2 mg/l	ND	ND	ND
	11	Hexavalent Chromium	1 mg/l	ND	ND	ND
	12	BOD (3 days at 27oC)	100 mg/l	57	78	64.29
	13	COD	250 mg/l	205	240	218.29
	monii Lates dated direc GPCE result The monii Ltd- –NAE years	effluent quality at the E tored by the Environm at audit report for the yea d July 23, 2019. The sa ted. B also monitor the treate t by GPCB is attached as river water quality at the tored by GPCB. Agencie MoEF approved agency, BET accredited have a s. Relevant extracts fru- try vide our letter Atul/Sh	ental audit ar 18-19 wa me was su ed effluent o s Annexure s ne discharg es like NIO, l Envision Er lso done th om latest re	ors app is submi bmitted quality a 1. e point Pollucon iviro Tec ne moni eports v	is regula to CPC to cPC	by GPCB. e our letter B also as ils. Recent arly being tories Pvt. es Pvt. Ltd luring the pmitted to
The company shall keep records of the quality of effluents being discharge during the tides as per the recommendations of N.I.O.	Com We d	/	of quality e	effluents	being d	lischarged

4	The company shall submit the	Complied.
	quarterly progress report of	
	compliance of conditions.	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	Noted and will be complied as and when it will come.
	the cost of the agency to be	
	appointed by the Government	
	for overseeing/monitoring the	
	project activities during	
	construction/operational phases.	
6	The company shall comply	Complied.
0	with all the recommendations,	Complied.
	additional conditions and	Compliance to NIO recommendations are being followed. Copy of
	environmental safeguards	compliance report submitted to Forest and Environment
	prescribed in the report of NIO	Department of Gujarat was already submitted to Ministry vide our
	dated March, 1997.	letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
6	The company shall submit an	Complied.
	Environmental Audit Report	
	every year.	Latest environmental audit report for year 18-19 was submitted
		vide our letter dated July 23, 2019.
7	The company shall obtain the	Complied.
	necessary permissions from	
	different Government	We have received GPCB approval for operating 4Km line vide its
	department/agencies under	consent letter no. 16399 dated 22.12.98. Copy already submitted
	different laws/Acts.	to Ministry vide our letter Atul/SHE/MoEF/Visit/3 dated 4/4/17.
8	Any additional conditions	Noted and will be complied.
	which may imposed from time	
	to time.	

Sr. No.	Parameter				GPCB Limits			
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	
1	рН	8.19	7.95	6.91	7.02	7.45	6.23	5.5 to 9.0
2	Temperature °C	31.4	31.8	30.9	30.4	31.6	30.1	40 °C
3	Colour (pt. co. scale)in units	100	90	80	140	80	78	
4	Suspended solids, mg/l	92	76	92	98	65	72	100
5	Phenolic Compounds, mg/l	0.088	0.056	0.044	0.056	0.041	0.047	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg/l	0.75	0.7	0.65	0.75	0.68	0.62	2
8	Sulphides, mg/l	1.2	0.9	1.2	1.8	1.2	1.1	2
9	Ammonical Nitrogen, mg/l	48	38	43	46	34	37	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27°C), mg/l	78	65	60	65	59	66	100
13	COD, mg/l	240	220	218	215	208	222	250
Note : N	ID is Not Detectable.							

Annexure 1.

WATER / WAS	S REPORT I TE WATER	Will Warman	Gujarat Pollution Control Board, V CS/124, GIDC Vi Near Hotel Prin						
Simple ID:276560 - A	nalysis Compl	otion:02/03/2020	2010/201	api - 396 19					
Dyes and Dye-Intern	nediates / LAB	Invward : 52218	Tele:(0)	60) 243208					
		TEST REPORT							
Test Report No. : 52218			Date: (2/03/2020					
1. Name of the Customer	: Atul L	imited - 23158							
2. Address	: 5, 6, 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc., AT & P.O.ATUL, Dist. Valsad, P. 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	: R.K. Maheta,SO : 5								
5. Quantity of Sample Received									
6. Code No. of the Sample	: 27656	0							
7. Date & Time of Collection & Inwarding	: 13/02/	2020 , (1710 to 1710) & 14/02/2020							
8. Date of Start & Completion of Analysis	: 17/02/	2020 & 02/03/2020							
9. Sampling Point	: From	Final outlet of Central ETP -							
10. Flow Details (Remarks)	: Yes								
11. Mode of Disposal	: Estua	ry zone of River Par							
12. Ultimate Receiving Body	: Estua	ry zone of river par							
13. Temperature on Collection	: 29 & pH Range on pH Strip :@ 7-8 on pH strip : Barcode & Color & Appearance :Brown								
14. Carboys Nos for									
15. Water Consumption & W.W.G (KLPD)	: Ind :2	3726.000 , Dom :938.000 & Ind :21727.000 , I	0om :939.000						
Sr Parameter	Unit	Test Method	Range of Testing	Result					
1 Temperature	Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 50 oC	29					
			THE REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY						

Sr	Parameter	Unit	Test Method	Range of Testing	Result	
1 Temperature		Centigrade	IS: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 50 oC	29	
2	pH	pH Chits	4500 H+ B APHA Standard Methods 22nd edi.2012	1-14 pH value As or	7.03	
3	Colour	Pt.Co.Sc.	2120 B APHA Standard Methods 22nd edi. 2012	2 - to 99 Hazen & 1-50	150	
4	Total Dissolved Solids	mpit	Gravimetric method. (2540 C APHA Standard Methoc	10 - 200000 mg/L	4838	
5	Suspended Solids	ng1	Gravimetric method: (2540 D APHA Standard Method	2 ~ 10000 mg/L	94	
6	Ammonical Nitrogen	mpi	1) Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg1.	10.24	
7	Chloride	fgm	Argentometric method. (4500 CI7 B APHA Standard #	1 - 50000 mg/l	1659	
8	Sulphate	figm	APHA(22nd edi)4500 SO4 E	2-40mg/l	746	
9	Chemical Oxygen Demand	fgm	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	214	
10	Oli & Grease	ngi	Liquid - Liquid Partition Gravimetric method. (5520 B	01 - 1000 mg/l	0.0	
11	Phenolic Compounds	mpit	4 Amino Antipyrene method without Chloroform Extra	0.1 - 50 mg/l	0.5	
12	Sulphide	ingit	APHA (22nd Edi.)4500-s2-Fiodometric Method	1-500.0 mg/t	Ibdl	
13	B.O.D (3 Days 27oC)	ingil	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmer	05-50000 mg/l	84	

Laboratory Remarks : Freeze By:445-lab_445 Dt.: 02/03/2020

J.D.OZA, Lab Head

Field Observation :

Note

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

Permissible Limits: as per Schedule VI of EPA Rules, 1966 as ammended by Second and Third ammendment 1993 for Effluents
 Physicochemical and microbiological parameters, Std.Methods for Water and Waste Water- 22nd Edition by APHA.
 Bioassay test (for toxicity) -IS-8562:Part-2:2001; Reatfirmed 2007.

NIC

03/03/2020

	ANALYSIS REPORT FOR WATER / WASTE WATER SAMPLE				
Sample ID 2738(14 -	Analysis Com	pletion 22/01/2020	C5/124, GIDC Vap Near Hotel Pritan		
Dyes and Dye-Inter	mediates / LA	8 Inward : 51880		'npi - 396 19 260) 243208	
Test Barriel		TEST REPORT			
Test Report No. : 51880			Date: 3	24/01/2020	
1. Name of the Customer 2. Address	: 5, 6, .	Limited - 23158 29, 30, 33, 34, 35, 37, 38, 80, 81, 84, 85, 91, etc.,A	T & P.O.ATUL, Dist.	Valsad, Pir	
3. Nature of Sample 4. Sample Collected By 5. Quantity of Sample Received 6. Code No. of the Sample 7. Date & Time of Collection & Inwarding 8. Date of Start & Completion of Analysis 9. Sampling Point 10. Flow Details (Remarks) 11. Mode of Disposal 12. Ultimate Receiving Body 13. Temperature on Collection 14. Carboys Nos for 15. Water Consumption & W.W.G (KLPD)	ATUL-396020, Taluka : Valsad, District : Valsad, GIDC : Not In Gide : REP-Representative/Grab, (Insp Type : SCN-After SCN Inspection) : R.K. Maheta,SO : 5 : 273804 : 07/01/2020 , (1105 to 1105) & 08/01/2020 : 08/01/2020 & 22/01/2020 : ## Final Outlet of the ETP ~- : Yes : In to Estuary zone of river par : Estuary zone of river par : Estuary zone of river par : Z7 & pH Range on pH Strip :@ 7-8 on pH Strip : I & Color & Appearance :Brownish : Ind :23726.000 , Dom :938.000 & Ind :21727.000 , Dom :939.000				
Sr Parameter	Unit	Test Method	Range of Testing		
1 Temperature	Centigrade	15: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Ambient oC - 60 oC	Result 27	
2 pH	pHUnits	4500 H+ 8 APHA Standard Methods 22nd edi.2012	1 - 14 pH value As or	7.29	

1 Tompositure		Unit	- Continuence		Result	
-	Temperature	Centigrade	15: 3025 (Part - 9) - 1984(Reaffirmed 2006)	Range of Testing ed 2006) Ambient oC - 60 oC		
1.1	рH	pHUnte	4500 H+ 8 APHA Standard Methods 22nd edi.2012	1 - 14 pH value As or	27	
100	Colour	Pt.Co.Sc.	the stand and a stand of the st	2 - to 99 Hazen & 1-50	7.29	
4	Total Dissolved Solids	mg/l	Gravimetric method. (2540 C APHA Standard Method	# - 10 99 Hazon & 1-50	150	
5	Suspended Solids	mail	Gravimetric method. (2540 D APHA Standard Method	10 - 200000 mg/L	3850	
6	Ammonical Nitrogen	mpli	1) Titrimating mailtand (appo billion D & C + Dist	2 - 10000 mg/L	40	
7	Chloride	mg/l	1).Titrimetric method (4500 NH3 B & C APHA Standa	1 - 2000 mg/l.	4.41	
8	Sulphate		Argentometric method. (4500 CI? B APHA Standard)	1 - 50000 mg/l	1305	
9	Chemical Oxygen Demand	hem		2-40mg/l	585	
_	Oll & Grease	mgil	APHA (22nd Edition)- 5220 B Open Reflux Method-2	5.0- 50000 mg/l	168	
	Phenolic Compounds	mail	Liquid - Liquid Partition Gravimetric method. (5520 B	Nam 0001 - 10	0.4	
~		mg/t	4 Amino Antipyrene method without Chloroform Extra	0.1 - 50 ma/t	0.87	
1.0	Sulphide	ingit	ADDA (POur Ed Lange De L	1-500.0 mg/l	0.65	
13	B.O.D (3 Days 27oC)	itam	3 - Day BOD test. (IS 3025 (Part 44) 1993 Reaffirmed		44	

Laboratory Remarks : Freeze By:445-lab_445 Dt. 24/01/2020

- A superior

J.D.OZA, Lab Head

Field Observation : -

Note :

- 1.* These parameters are NOT covered under the scope of NABL.
- 2. The results refer only to the testad 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 a officials.
- 6. Total Bability of our laboratory is limited to the involced amount. Any dispute arising out of this report is subject to
- Gujarat Jurisdiction only.
- 7. Permissible Limits: as per Schedule VI of EPA Rules. 1985 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-6562 Part-2 2001: Reaffirmed 2007.
- NIC

01/02/2020

Atul Limited

Project: Setting up an addition captive power plant of 22 MW at post Atul, Dist. Valsad EC Compliance Report for the period October 2019 - March 2020 as per EC No. SEIAA/GUJ/EC/1(d)/340/2016

No.	Condition			Co	mpliance Sta	tus				
Specific Conditions :										
1.	Unit shall emission mentioned Notification vide S.O. 07/12/2015.	in by MOI 3305(E)	ndards the EF&CC	 Complied. We ensured that at no time the emission level will go beyond the stipulated standards and or prescribed limits. In such cases / Occurrences we will intimate to board & authority time to time. In event of failure of APCM, the unit shall not restarted until the control measures are rectified to achieve efficiency. Stack details are as follow: Flue gas stack analysis is monitored at regular interval (Monthly) for ensuring the compliance. The testing Lab appointed for Flue gas analysis is being done by GPCB approved (schedule-II) M/s. Pollucon Laboratories Pvt.Ltd, surat NABL approved TC-5945, issue date-28/05/2019 and validity till 27/05/2021. The maximum value (SPM, SO2 & NOx) during the compliance period confirms that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given below: Flue gas Stack results from (Oct-19 to mar-20) is attached as Annexure I Flue gas Stack results of last six month period (October-2019 to March-2020): 						ch cases / me. In event ol measures Monthly) for or Flue gas /s. Pollucon
					Parameter	Stand ard	Unit	Values for the period October		od October
						values		Min	19- March 20 Min Max Ay	
						as per CCA			WIGX	Avg
					PM	100	mg/Nm³	52	88	68.1
					PM (New Boiler)	50	mg/Nm³	25	39	33.6
					SO ₂	600	mg/Nm³	102	136	115.8
					NOx	600	mg/Nm³	103	145	122.4
					NOx (NewBoiler)	300	mg/Nm³	93	105	100.5



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

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

Ambient Air quality analysis report shows that maximum concentration of PM2.5 is found 46 mg/Nm3 at TSDF site and minimum concentration is found 10 mg/Nm3 at Wyeth Colony during last six month monitoring period (October-2019 to March-2020). These result are below permissible emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015 during last six month monitoring period (October-2019 to March-2020).

Ambient Air quality analysis report shows that maximum concentration of PM10 is found 54 mg/Nm3 at Nr.North site of ETP and minimum concentration is found 22 mg/Nm3 at Main Guest house during last six month monitoring period (October-2019 to March-2020). These results are below permissible emission standards mentioned in the Notification by MOEF&CC vide

S.O. 3305(E) dated 07/12/2015 during last six month monitoring period (October-2019 to March-2020).

Ambient Air quality analysis report shows that maximum concentration of SO2 is found 14.7 mg/Nm3 at Near West site ETP and minimum concentration is found 4.1 mg/Nm3 at Wyeth

 colony site during last six month monitoring period (October-2019 to March-2020). These results are below permissible emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015 during last six month monitoring (October-2019 to March-2020). Ambient Air quality analysis report shows that maximum concentration of NOx is found 17.5 mg/Nm3 at 66 KV and minimum concentration is found 4.6 mg/Nm3 at Wyeth Colony during last six month monitoring period (October-2019 to March-2020). These results are below permissible emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015 during last six month monitoring period (October-2019 to March-2020). These results are below permissible emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015 during last six month monitoring period (October-2019 to March-2020). Is Attached as Annexure II 						
Ambient air monitoring Reports: Station Parameter Limit Values for the						
		microgram/	period			
		NM ³	Oct 2	19- Ma	r 20	
			Min.	Max.	Avg.	
66 KV	RSPM (PM2.5)	60	19.6	36.8	28.8	
	PM10	100	38.4	52.3	44.0	
	SO2	80	9.4	11.2	10.3	
	NOx	80	13.2	17.5	15.3	
	Ammonia	850	ND	ND	ND ND	
HCI 200 ND ND						

	Opposite	RSPM	60			
	ShedD	(PM2.5)	00	28	38	33
		PM10	100	35	52	40.3
		SO2	80	7.9	9.6	8.7
		NOx	80	8.3	11.2	9.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Near West site ETP	RSPM (PM2.5)	60	24	45	34.3
		PM10	100	39	55	43.6
		SO2	80	7.7	14.7	9.4
		NOx	80	8.4	15.4	10.5
	Near North ETP	Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
		RSPM (PM2.5)	60	27	44	36.6
		PM10	100	40	54	44
		SO2	80	8.3	12.8	10.0
		NOx	80	8.2	14.2	10.8
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	TSDF	RSPM (PM2.5)	60	26	46	37.8
		PM10	100	40	50	44.5
		SO2	80	7.4	10.6	9.0
		NOx	80	7.6	13.6	10.1
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND

	Main Guest		60	15	28	21.1
	House	PM10	100	22	45	37.1
		SO2	80	4.3	8.4	6.1
		NOx	80	5.2	9.4	7.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Wyeth	RSPM (PM2.5)	60	10	20	19.6
	Colony	PM10	100	24	44	35.3
		SO2	80	4.1	7.6	6.35
		NOx	80	4.6	8.6	6.9
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Gram	RSPM (PM2.5)	60	12	30	24.3
	panchayat hall	PM10	100	29	52	42.5
		SO2	80	6.2	8.6	7.4
		NOx	80	5.7	9.4	7.4
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Main	RSPM (PM2.5)	60	19	35	26.5
	office,	PM10	100	35	52	43.3
	North	SO2	80	6.4	9.2	7.5
	site	NOx	80	7.3	10.6	8.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Haria	RSPM (PM2.5)	60	24.4	52.2	39.9
	water tank	PM10	100	8.8	11.2	9.4
		SO2	80	10.2	15.8	13.4
		NOx	80	24.4	52.2	39.9
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND

2.	All measures shall be taken to prevent soil and ground water contamination.						
		(M/s. Pollucon Laboratories Pvt on soil and ground water quality, that there is no soil and ground ground water is tapped for m Neutralization pit has been put in from D.M. Plant. RO plant is con tower make up water. Entire c	.Ltd, surat) to access the impacts As per details study report shows d water contamination found. No neeting the project requirements. service for waste water generated nmissioned to recycle the cooling quantity of waste water is being coal storage yard to attend coal				
		We are ensuring that solid wo hazardous waste storage area impervious flooring and leachate contamination. Detailed study report on Grour around Atul was done during th NABL approved agency M/s. Poll	aste is stored in identified solid a, provided with covered shed, e collection facility to prevent soil adwater and soil quality in and he year 2018-19 by reputed and ucon Laboratories Pvt. Ltd, Surat. date- 28/05/2019 and validity till				
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3.	The project proponent shall	Complied.
	submit the detailed study report	We are regularly submitting (once in year) the detailed study
	to Gujarat Pollution Control	report to GPCB & MoEF&CC, through reputed institute (NABL
	Board (GPCB) at least once in a	accredited Laboratory M/s. Pollucon Laboratory Pvt. Ltd.) to
	year, through the reputed	assess the impacts on soil and ground water quality was
	institute or university to assess	submitted to your good office vide letter dated 19.12.2019
	the impacts on soil and ground water quality, if any due to	No ground water is tapped for meeting the project requirements.
	application of waste water	We are using river water as a source of fresh water. However
	generation from the CPP and	Neutralization pit has been put in service for waste water
	shall adopt the additional	generated from D.M. Plant. RO plant is commissioned to recycle
	mitigation measures as may be	the cooling tower make up water. Entire quantity of waste water
	suggested through such	is being utilized in ash quenching and coal storage yard to attend
	studies.	coal smoldering. Hence, our CPP unit is achieved ZLD.
		We are ensured that solid waste is stored in identified solid
		hazardous waste storage area, provided with covered shed

hazardous waste storage area, provided with covered shed, impervious flooring and leachate collection facility to prevent soil contamination.

Detailed study report on Groundwater and soil quality in and around Atul was done

during the year 18-19 by reputed and NABL approved agency M/s.

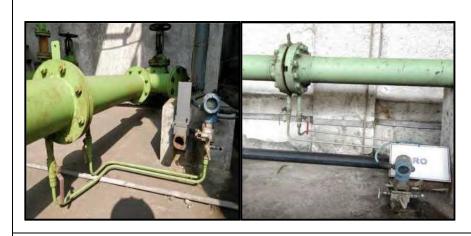
Pollucon Laboratories Pvt. Ltd, Surat.

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4.	A.2:WATER:								
	The fresh water requirement for the proposed expansion shall not exceed 2095 KL/day and it shall be met through the existing water supply system from River par.	The o perio is we	d (Octo	six month complic 10 KL/day only w L/Day. Detail brea	vhich				
			Sr.	Month	Qty. F/W	Avg. Qty.			
			No		(KL /M onth)	F/W			
						(KL/Day)			
			1	Oct-19	33986	1359			
			2	Nov-19	31560	1018			
			3	Dec-19	39580	1319			
			4	Jan-20	38696	1248			
			5	Feb-20	36598	1181			
			6	Mar-20	32986	1137			
		The maximum value during the compliance period confirms that a no time the wastewater generation went beyond the stipulated value. Fresh water requirement is met through the existing wate supply system from river par. water permission from concerned authority for additional water requirement was submitted to you good office vide letter dated 11.02.2019							

5	Metering of water shall be done and its records shall be maintained. No ground water shall be tapped in any case for meeting the project requirements.	Complied. Magnetic water flow meter is attached at inlet line of ETP and reuse line (outlet) at RO permeate line. Its records are regularly maintained. We are not using ground water tapped in any case for meeting the project requirements. Because our source of water is river (Par) water with permission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter of water for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmission letter for industrial purpose from Par River Image: transmit industr								
			Water meter @ Inlet line Water Meter @ Reuse line							
6.	The industrial effluent generation from the proposed expansion shall not exceed 270 KL/day and entire quantity of effluent shall be utilized for ash quenching, dust suppression, fire hydrant make up, Gardening plants floorcleaning.	Wa KL/I gen Mai pres utili Ent stor mal disc	Water meter @ meter @ net meComplied.Waste water generation in not exceeding then prescribed limit of 270KL/Day during last six compliance month. The average wastewatergeneration for the report period (last six month –October 2019 toMarch 2020) is 169.16 KL/day. Only which is well within theprescribed limit of 270 KL/Day and entire waste water quantity isutilized / reused after giving neutralization & RO treatment.Entire quantity of waste water is being utilized in ash quenching, coalstorage yard to attend coal smoldering, dust suppression, fire hydrantmake up, Gardening plants floor cleaning and no waste waterdischarge to ETP. Detailbreak up is given in below table:							
			Sr. No 1 2 3	Month Oct-19 Nov-19 Dec-19	Waste water Generation (KL/Month) 4874 4689 5098	Avg. Waste water Generation/ Reused Qty (KL/Day) 195 151 170				
			3 4 5 6	Jan-20 Feb-20 Mar-20	5098 5290 4956 4875	170 171 160 168				

7.	There shall be no discharge of industrial effluent from the proposed project in any case.	Complied. Industrial Waste water generation is not exceeding then prescribed limit of 270 KL/Day during last six compliance months (October 2019 to March 2020). Neutralization pit has been put in service for waste water generated from D.M. Plant. Entire Avg. Quantity of 169.7 KL/Day waste water is being utilized in ash quenching and coal storage yard to attend coal smoldering, dust suppression, fire hydrant make up, Gardening plants floor cleaning. Please refer table of Avg. waste water generation (KLD) in point no.6. Hence, Our CPP unit is achieved ZLD. No Discharge of industrial								
		effluent from the proposed project in any case.								
8.	Domestic waste water generation shall not exceed 1 KL/day Which shall be disposed of into soak system.	Domes EC dur The m Augus 0.98 generc March	Complied. Domestic water generation in not exceeding then prescribed limit of EC during last six compliance months (October -2019 to March-2020). The minimum domestic waste water generation is 0.75 KL/Day in August month. The Maximum domestic waste water generation is 0.98 KL/Day in September month. The average wastewater generation for the report period (last six month –October 2019 to March 2020) is 0.59 KL/day only which is well within the limit. Domestic waste water disposed through soak pit / septic tank system.							
		S N	5	Month	Waste water Generation (KL/Day)					
				Dct-19	0.67					
		2		lov-19	0.50					
			3 C	Dec-19	0.65					
		2	l J	an-20	0.62					
		Ę	5 F	eb-20	0.59					
		6	5 N	/ar-20	0.56					
9.	The unit shall provide metering facility at the inlets and outlets of the collection cum reuse system of waste water and	Complied. Magnetic Flow Meter is provided at the inlet of the collection tank and reuse system of waste water and records are being maintained. Photograph of water meter shown below:								



Water meter @ Inlet line

Water meter @ Reuse line

Month wise water consumption, waste water generation on the basis of I/L and O/L flow meter readings are shown below table:

SN	Month	Water	Wastewater
		consumption	Generation
		(Inlet)	(Outlet)
		(KL/Month)	(KL/Month)
1	Oct-19	33986	4874
2	Nov-19	31560	4689
3	Dec-19	39580	5098
4	Jan-20	38696	5290
5	Feb-20	36598	4956
6	Mar-20	32986	4875

We are reusing 100% treated water in ash quenching , coal storage yard to attend coal smoldering, dust suppression, fire hydrant make up, Gardening plants & floor cleaning. **Hence, we are achieving ZLD. No waste water discharge to ETP from our Captive power plant.**

10.	Proper logbooks of waste water	Comp	lied.						
	reuse system showing quantity	•	e properly maint	ainina loab	ook of wate	er consumpti	on. waste		
	and quality of effluent reused		,			•			
	shall be maintained and		water generation & reuse data showing quantity and quality of effluent by means of Magnetic flow meter for quantity and TOC meter						
	furnished the GPCB from time		for quality of Reused effluent. Furnished these data communicate						
	to time.	101 94	regularly to GPCB from time to time.						
		regula			c .				
		Month wise water consumption, waste water generation and							
		reuse data are shown below Table:							
		S	Month	Water	Waste	Reuse	Reuse		
		Ν		consumpt	water	(KL /M onth)	(KL / Day)		
				ion .	Generati				
				(KL / Month)	on				
					(KL / Month)				
		1	Oct-19	33986	4874	4874	195		
		2	Nov-19	31560	4689	4689	151		
		3	Dec-19	39580	5098	5098	170		
		4	Jan-20	38696	5290	5290	171		
		5	Feb-20	36598	4956	4956	160		
		6	Mar-20	32986	4875	4875	168		
1	1								

11.	Rain water harvesting of	Complied.
	rooftop rain water shall be	Rooftop rain water from Coal sheds and New TG building is
	undertaken as proposed in the	collected in well- constructed pond and used as make up water for
	EIA report of the project and the	cooling tower.
	same water shall be used for	We have already two numbers of check dams in natural storm water
	the various activities of the	drains to collect and harvest rain water in monsoon season after
	project to conserve fresh water	giving necessary pre- treatment to remove suspended matter as we
	as well as to recharge ground	have pumped these rain water to clarifloculator units to remove
	water through percolation	suspended matter. We are creating facility/ capacity to cater our
	wells. Before recharging the	consumption with rain harvested water with zero river drawls of
	rain water, pre-treatment must	water during the rainy days. Besides this, there are three check dams
	be done to remove suspended	and pumping facility to harvest rain water. We also construct
	matter.	temporary sand bag dam on top of dam towards the end of
		monsoon to store additional free flowing rain water in river Par. In
		addition to above, surface runoff water and roof top water is used
		to recharge bore wells.
		Total No. of Pond: 2 Nos.
		Capacity of Pond: (1 Nos. x 10000 KL) & (1 Nos. x 2000
		KL) Company has harvest 9.63 lac KL rain water during 2019.
		Photograph of rain water harvesting structure (Pond) as shown below:
		Water Harvesting Project at Colony
		AND COMPANY OF THE OWNER OWNER OF THE OWNER

	A.3AIR:						
12.	Existing two coal fired steam boilers shall be replaced with two AFBC Boilers having capacity 50 TPH each.	Complied . In the existing unit, two numbers of Stoker Fired Boilers (SFB) are provided with Scrubbers for dust collection. As, it is old technology and not feasible to provide ESP with these boilers, the SFBs are replaced with higher efficiency boilers with adequate APC facility (4 field ESP).					
13.	Fuel (Indian coal/and or Imported coal and or Lignite) to the tune of 16725 MT/M shall be used for proposed boilers.	–October 20	19 to Mar	ch 2020) is 15	e report period (la 5 209.17 MT/M o is given in below	only which is	
			Sr. No	Month	Avg. Fuel consumption (MT/Month		
			1	Oct-19	13269		
			2	Nov-19	15743		
			3	Dec-19	15318		
			4	Jan-20	16224		
			5	Feb-20	16760		
			6	Mar-20	13941		
				•	pliance period co beyond the stipu		
14.	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	We are usin proposition c and analyze	is per ava d the pro % Ash co	ilability. We a ximate & ulti	ted coal and lign re regularly monit mate analysis of ulphur content ar	tored (monthly) f coal / Lignite	
15	A Long term study of radio activity and heavy metal contents in coal/ lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring	-		•	nite used has bee boratory Pvt. Ltd.		

6.	for radio activity and heavy metals in coal/lignite and Fly ash (Including bottom ash) shall be put in place. Height of flue gas stacks attached to boilers shall be minimum 74.58 meters.	disper	_	gh adeo	quate			e emission is s per CPCB		
			Stack	Stack	APCI	М	Paramet			
			attached	-			er	limit		
		No.	to	t In Meter						
		1.	Boiler (50 TPH x 2Nos.)	106	ESP	4field	PM SO ₂ NOx Mercury (Hg)	50 mg/NM ³ 600 mg/NM ³ 300 mg/NM ³ 0.03 mg/NM ³		
		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 74.58m height shall be provided with online monitoring system to proposed steam Boiler.	Nos.).	of the sta We have i A, SOx an	nstalled	d Onlin	e monito	oring syster	biler (50 TPH x 2 n to steam boiler connected to		
	Mercury gas emission from stacks shall also be monitored on periodic basis.	Stack No.	Stack attache to	ed h	tack leight n Neter	АРСМ	Paramete	er Permissible limit		
		1.	Boiler (5 TPH x 2 Nos.)		06	ESP with 4 field	PM SO ₂ NOx Mercury (Hg)	50 mg/NM ³ 600 mg/NM ³ 300 mg/NM ³ 0.03 mg/NM ³		
		approv Rajkot	ed M/s. Ri an NABL	oyal En approv	vironm red age	ent Aud ency.	iting & Con	usis by GPCB sultancy Service, cific condition		

			Mercury is in last six n		-		as wel	l as in A	mbient
18.	High efficiency Electro static precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers.	We wit per 202 em	mplied. e have insta th 99.9% ef missible lim 19 to March ission is ide mg/Nm ³ Ph	ficiency to it from the n-2020) m ntify 39 m	o control proposec nonitoring g/Nm ³ w	of flue g d boilers. L g reports hich is be	as emi ast six shows low pe	ission w month (that A	vithin the October- vg. SPM
				E	SP				
	The ESP shall be operated	Со	mplied.						
	efficiently to ensure that	GP	CB Permiss	ihle limit f	or PM is	50 mg/N	IM3. P	articulat	te matter
	particulate matter emission does not exceed the GPCB		ission did r	not exceed	d the GP			5 1	rt period
	particulate matter emission does not exceed the GPCB norms.	(Oc	ission did r tober 2019	not exceed to March	d the GP			5 1	rt period
	does not exceed the GPCB	(Oc effi	ission did r tober 2019 ciently (99.9	not exceed to March 9%).	d the GF 2019) W	/hich shov	ws tha	t ESP is	rt period working
	does not exceed the GPCB	(Oc effi Stc	ission did r tober 2019	not exceed to March 9%). ssion dat e	d the GF 2019) W	/hich shov	ws tha	t ESP is	rt period working
	does not exceed the GPCB	(Oc effi Stc	ission did r ctober 2019 ciently (99.9 ack PM emi ention below	not exceed to March 9%). ssion dat e	d the GF 2019) W a from C	/hich shov)ctober-2	ws tha 019 to	t ESP is	rt period working -2020 is
	does not exceed the GPCB	(Oc effi Stc me	ission did r ctober 2019 cciently (99.9 ack PM emi ntion below	not exceed to March 9%). ssion date table:	d the GF 2019) W a from C	/hich shov)ctober-2	ws tha 019 to Values	t ESP is	rt period working n-2020 is period
	does not exceed the GPCB	(Oc effi Stc me	ission did r ctober 2019 cciently (99.9 ack PM emi ention below Stack	not exceed to March 9%). ssion date table: Paramet	d the GP 2019) W a from C Standard	/hich shov)ctober-2	ws tha 019 to Values	March o March s for the per19 to	rt period working n-2020 is period
	does not exceed the GPCB	(Oc effi Stc me No	ission did r ctober 2019 cciently (99.9 ack PM emi ntion below Stack Attached	not exceed to March 9%). ssion date v table: Paramet er	d the GP 2019) W a from C Standard values as per CCA	/hich show	ws tha 019 to Values Octob Marcl Min.	t ESP is March for the per19 to h20 Max.	rt period working -2020 is period Avg.
	does not exceed the GPCB	(Oc effi Stc me	ission did r ctober 2019 cciently (99.9 ack PM emi ntion below Stack Attached	not exceed to March 9%). ssion date table: Paramet	d the GP 2019) W a from C Standard values as per	/hich shov)ctober-2	ws tha 019 to Values Octob Marcl Min.	March March s for the per19 to h20	rt period working -2020 is period Avg. 33.6
	does not exceed the GPCB	(Oc effi Stc Mo	ission did r ctober 2019 ciently (99.9 ack PM emi ntion below Stack Attached to Boiler (50	not exceed to March 9%). ssion date v table: Paramet er SPM	d the GP 2019) W a from C Standard values as per CCA 50.0	/hich shov October-2 Unit mg/Nm ³	ws tha 019 to Values Octob Marcl Min. 25	t ESP is March for the per19 to h20 Max. 39	rt period working -2020 is period Avg. 33.6 6
	does not exceed the GPCB	(Oc effi Stc me No	ission did r ctober 2019 ciently (99.9 ack PM emi ntion below Stack Attached to Boiler (50 TPH x 2	not exceed to March 9%). ssion date v table: Paramet er	d the GP 2019) W a from C Standard values as per CCA	/hich show	ws tha 019 to Values Octob Marcl Min. 25	t ESP is March for the per19 to h20 Max.	rt period working -2020 is period Avg. 33.6
	does not exceed the GPCB	(Oc effi Stc Mo	ission did r ctober 2019 ciently (99.9 ack PM emi ntion below Stack Attached to Boiler (50	not exceed to March 9%). ssion date v table: Paramet er SPM	d the GP 2019) W a from C Standard values as per CCA 50.0	/hich shov October-2 Unit mg/Nm ³	ws that 019 to Values Octob Marcl Min. 25 108	t ESP is March for the per19 to h20 Max. 39	rt period working -2020 is period Avg. 33.6 6 118.

	The control system shall be designed and integrated in plant DCS in such a way that amended from ESP exceeds the specified standard prescribed in the Environment (protection) Rules 1986 as amended from time to time, utilization of boiler capacity shall so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.	We in ev ope spec 198 we dect load perd Flue pres fron 202	have designed vent of ESP in ration issue of cified standar 6 as amended will intimate the rease the load d until the con- cent efficiency e gas stack an uring the com- lysis is being of oratories Pvt. 05/2019 and ve gas emission scribed in the n time to time 0) ck results of loc- Parameter	working not due to whic d prescribed d from time to o board & a l of power pl ntrol measu alysis is mor pliance. The done by GPC Ltd, surat N validity till 27 from the sto Environmen e for the rep	efficiently th flue ga l in the Envi- to time tha uthority to ant. We w ires are re- hitored at r t te testing l B approve IABL appr 7/05/2021. ack meets v t (protection port period	r or sor s emis vironm n in su stop t ill not ectifiec regular ad (sch oved f with th on) Ru (Octo	mething ssion g lent (pro- lich case the ope restart d to ac r intervo pointe edule-I TC-594 ne speci lles 198 ober 20	g found fo jo beyon otection) es / occur ration ple or increa hieve the hieve the d for Flu M/s. Po 5, issue fied stan 6 as ame 019 to N	dult or dult or Rules rrence ant or se the e 100 ly) for e gas llucon date- dards ended March
				per CCA		20 Min	Max.	Avg.	-
		1	PM	100	mg/Nm3	52	88	68.1	
			PM (New		mg/Nm3	25	39	33.6	1
			Boiler)						
		3	SO2	600	mg/Nm3	102	136	115.8	
		4	NOx	600	mg/Nm3		145	122.4	
		5	NOx (NewBoiler)	300	mg/Nm3	93	105	100.5	
19.	Third party monitoring of the functioning of ESP along with efficiency shall be carried out once in a year through a reputed institute / organization.	We effic mor sati We Inst	nplied. have regular ciency by third nitoring has b sfactory (i.e. 9 have attache itute GPCB ap Ltd, surat N	party once i een carried 9.9% efficie d herewith oproved (sch	n year thro out and re ncy). ESP efficie nedule-II) f	ough a ports ency re M/s. P e	repute of ESP eport th ollucon	d institut efficacy rough re Labora	e. The found puted tories

		and validity till 27/05/2021.
20.	Lime stone injection technology	Complied.
	shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.	We have adopt lime stone injection technology to control SO2 emission in atmosphere as standard prescribed in the Environment (protection) Rules 1986 as amended from time to time and interconnected with the online emission monitoring system.
		Ambient Air quality analysis report shows that maximum
		concentration of SO2 is found 14.7 mg/Nm3 at Near West site
		ETP and minimum concentration is found 4.1 mg/Nm3 at Wyeth
		colony site during last six month monitoring period (October 2019 to March 2019). These results are below permissible emission standards mentioned in the Notification by MOEF&CC vide S.O. 3305(E) dated 07/12/2015 during last six month monitoring period (October 2019 to March 2019)
21.	The company shall prepare	Complied.
	schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPS and assign responsibility of preventive maintenance to the senior officer of the company.	Our company is ISO 14001 certified company and regular preventive maintenance of all the critical equipment is a part of our system. We have standard preventive maintenance schedule / activities (monthly, By monthly, yearly) of mechanical and electrical parts or equipment's of ESPS. We have recorded the percentage completion of preventive maintenance assigned work as per schedule. These scheduled has been prepared and reviewed / approved by senior officer of the company
22.	Diesel to the tune of 300 Lit/hr	Complied.
	shall be used as a fuel in stand –by D. G. Set (1500 KVA)	We have D.G. set of 1010 & 1500 KVA on standby only. Both D.G sets are not started in last six month compliance period (October-19 to March-2020). So that the diesel consumption for the report period is zero.
23.	The flue gas emission from DG	Complied.
	set shall be dispersed through adequate stack height as per CPCB standards. At no time the emissions levels shall go beyond the stipulated standards.	Adequate stack height of 11 mt of DG set (1500 KVA) and 10 mt of D.G. set (1010 KVA) as per CPCB standards. Both D.G sets are not started in last six month compliance period (October-19 to March- 2020).

	Acoustic enclosure be	Complied
	provided to DG set to	Complied.
	-	We have provided Acoustic enclosure to both DG sets to mitigate
	mitigate the noise pollution.	the noise pollution in day time and night time.
24.	Online monitoring system shall	Complied.
	be installed to monitor the SOx,	5,
	NOx and SPM in the flue gas	made and connected to CPCB server.
	stack.	Photograph of main gate digital display board for ambient air
		quality.
		<image/>
		Duel Rear Camera Duel Rear Camera

	Forbes Marshall
	ATUL LTD-VALSAD
	ATUL LTD, POST-ATUL, VALSAD, VALSAD, GUJARAT - 396020
	Station Report
	Station: Stack 1_50 TPH BOILER
	From: 01-04-3019/06/34/00 To: 30-09-2019/08/34/00 Interval: 6 Hours Function: Average
	200
	100
	a man man white a march and
	 Average with lesis data, C - Calibration mode, M - Maintenunce mode, S - Data under scrutiny, B - Bad data, H - High permissible limit crossed, L - Low permissible limit crossed, P - Processed Data, V - Corrected Data, D - Delayed Data, R-
	Analyzer drift
	Calender NOx Avg Dust Avg SOx Avg
	Units mg/km3 mg/km3
	Range 0 - 100. 0 - 50 0 - 280
	01-04-2019/06/34:00 10.63 R 46.05 48.73
	01.04-2019 14 34:00 15 78 R 46:04 48:72
	01.04-2019:22:34:00 18.79 46:06 48:75
	02-04-2019-06:34:00 9:07 R 46:05 48:73
	02-04-2019 14:34:00 B 11 R 46:04 48:72
	Page 1 of 21 Http://titlenoisonmed Denestaes by a full value of the rE-2019 (8:35:34)
An arrangement shall also be	Complied.
done for reflecting the online	We have arrangement of reflecting the online monitoring result
monitoring result	the company's server, which can be assessable by the
on the company's server,	constructed.
which can be assessable by the constructed.	

		1							
25.	Adequate storage facility for	Complied.							
	the fly ash in terms of closed	We have no	t cons	tructed	ash po	nd for t	he CPP	unit. W	e have
	silos shall be provided at site.	closed three	silo o	f 200 M	T and T	wo silo	of 300	MT cap	acity of
	No pond shall be constructed.	each, total 1	200 N	IT capa	city, wh	nich is v	vell eno	ugh for o	our
		average gen	eratio	on of las	t six co	mpliand	ce repor	t (Oct-1	9 to Mar-
		20) approx. 3				•	•	•	
		silos so we h			•				
						•			
								. 1	
							the	1	
						And a start	da		2
		Pile-	X			1	(A)		3
			THE	A			A		7.
		and i	*****	3A			TH	- 19-	ib
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				AR		. 10	ALL AND AD		一時事义
					No.		and the		
			7						
					No. of Lot				
		Photograph				•			-
		Fly ash / bot		•			r period	(Octob	er-2019 to
		March-2020)	as sh	own be	low tab	le:			
							[
		Fly Ash	Unit	Oct	Nov	Dec	Jan	Feb	Mar
				19	19	19	20	20	20
		Generation	MT	4765	4848	4712	5170	5188	4985
		Disposal	MT	4765	4848	4712	5170	5188	4985
26.	Handling of the fly ash shall be	Complied.							
20.	through a closed pneumatic	We are hand	lling	fflyach	through		doneur	naticay	stomwhich
	system.	is shown belo	0	i iiy usii	anougi	i u ciust	- a prieur	nutuesy	
	System.		500.						
1									

			Den	se phas	-	umatic o stem	ash hand	lling	
27.	Ash shall be handled only in dry state.	Complied . We are han manufactur	-	ash only	y in dry	state. S	old to ce	ment an	d brick
28.	The unit shall strictly comply with the fly ash Notification under the EPA and it shall ensure that there is 100% utilization of fly ash to be generated from the unit.	Complied . We are strid are doing 1 unit during Fly ash / bo to March–20	00 % ı last six ttom a	utilizatio a month sh gene	on of fly 1 compl eration	ash to iance pe data foi	be gener eriod.	ated fro	m the
		Fly Ash	Unit	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
		Generati on	MT	4765	4848	4712	5170	5188	4985
		Disposal	MT	4765	4848	4712	5170	5188	4985

29	The fugitive emission in the	Complied.
	work zone environment shall be	We are regularly (once in month) monitoring fugitive emission in
	monitored. The emission shall	work zone environment to confirm the standard prescribed by the
	confirm to the standards	concerned authorities from time to time. And indicative guidelines
	prescribed by the concerned	are strictly followed to reduce the fugitive emission.
	authorities from time to time	Measures adopted to control fugitive emission:
	(e.g. Directors of Industrial	All process pumps shall be provided trays to collect probable
	Safety & Health) Following	leakage.
	Indicative guidelines shall be	More weight age on selection of MoC of piping shall be given
	also be followed to reduce the	to avoid leakage/spillage.
	fugitive emission.	• Overflow system with return line to day tank/storage tank from
		batch tank will be provided to prevent hazardous material
		overflow.

	 De-dusting system is provided at coal storage area, closed silo system is available to collect fly ash. Covered conveyer belt system is available for transfer of coal. water sprinkle system is available to control dust fugitive emission. Proper system is provided for decontamination and effective cleaning of drums. All transfer points are fully enclosed. All roads are RCC & paved on which movement of raw materials or products are take place. Maintenance of air pollution control equipments are to be done regularly. All the workers are working with proper PPE's. i.e boiler shuit, dust mask, safety goggles, face shield, safety shoes etc. Adequate Green belt is developed around the plant to arrest the fugitive emissions. Complied. All handing & transport of coal & Lignite is done through covered coal conveyors only.
Enclosure shall be provided at coal/Ligniteloadinganduploading operations.	Noted and Complied . Enclosure is provided at coal / Lignite loading and uploading operations.
Water shall be sprinkled on coal / Lignite stock piles periodically to retain some moisture in top layer and also while compacting to reduce the fugitive emission.	Complied. We are regularly sprinkled water on coal / Lignite stock piles to retain some moisture in top layer and also while compacting to reduce the fugitive emission.

	Shed for coal storage
All transfer points shall be fully enclosed.	Noted and Complied. We have on road coal conveying system through covered coal trucks and in plant coal transferring system through closed conveying system. All transfer points are fullyenclosed.flyashintermsofclosedsilosshallbeprovidedatsite.Ha ndling of the fly ash shall be through a closed pneumatic system.
Adequate dust suppression / extraction system at crusher house as well as for the coal/ Lignite stock yard and other vulnerable areas shall be provided to abate dust nuisance.	Complied. We have provided Adequate dust extraction system (Dust collector) at crusher house is provided While dust suppression system (water sprinkler system) the coal/ Lignite unloading areas to abate dust nuisance.
Accumulated coal dust / fly ash on the ground and surfaces shall be removed / swept regularly and water the area after sweeping.	Complied . We have adopt practice for Coal dust / Fly ash is being cleaned regular basis as per schedule that we have set. We are also ensuring that Coal dust and fine particles are being loaded to coal handling plant after spraying water on it.

Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	Complied. Paver blocks have been provided in the ESP and some internal area of power plant. Concrete Road have been built in the surrounding area of Power Plant to reduce fugitive emissions during vehicle movement.
	Concrete road at Captive Power Plant
Air borne dust shall be	Complied.
controlled with water sprinkles at suitable locations in	Waste water of neutralization pit is being used for dust
the plant.Coal / Lignite shall be	suppression in Coal plant and Fly ash handling units. Covered trucks / closed bulkers are
transported through covered	being utilized for handling coal and fly ash.
trucks only whereas fly ash shall be transported through closed trucks only.	<image/>
	Closed truck water sprinkler system
A green belt shall be developed all around the plant boundary and also the roads to mitigate fugitive & transport dust emission.	Complied . Proper plantation is done all around the plant boundar and also the roads to mitigate fugitive & transport dust emission. Total Plot area: 1126078.27 sq.mt Green belt area: 409030.00 sq.mt (approx. 36% of total plot area) Layout plan with green belt is as shown below:

30.	Regular Monitoring of ground level concentration of PM2.5, PM10, NOx, SO2 and Hg shall in the impact zone and its records shall be maintained.	-	02 in ambient	-	oncentration of PM2.5, one and its records are
	Ambient air quality levels shall not exceed the standards stipulated by GPCB.	decided in con installed in the maximum gro covers the imp shown to auth ourfactory. The maximum	sultation with und level con bact, if any, of nority like SPC values during he emission rameter wise s	GPCB so that downwind dire centration are the project pla B, CPCB &Mo the compliance level went b summary is giv	ring stations had been at least one station is ection as well as where anticipated. This also nt. The same had been EF during their visit to ce period confirms that beyond the stipulated en below: Values for the period
		Station	Parameter	Limit micro gm/NM ³	Oct 19- Mar 20 Min. Max. Avg.

· · · · · · · · · · · · · · · · · · ·			1			
	66 KV	RSPM	60	19.6	36.8	28.8
	(Up wind)	(PM2.5)				
		PM10	100	38.4	52.3	44.0
		SO2	80	9.4	11.2	10.3
		NOx	80	13.2	17.5	15.3
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Opposite Shed	RSPM	60	28	38	33
	D (Up wind)	(PM2.5)				
		PM10	100	35	52	40.3
	-	SO2	80	7.9	9.6	8.7
		NOx	80	8.3	11.2	9.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Near West	RSPM	60	24	45	34.3
	site ETP	(PM2.5)				
	(Up Wind)	PM10	100	39	55	43.6
		SO2	80	7.7	14.7	9.4
		NOx	80	8.4	15.4	10.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Near North	RSPM	60	27	44	36.6
	ETP (Up	(PM2.5)		27		
	wind)	PM10	100	40	54	44
	-	SO2	80	8.3	12.8	10.0
	-	NOx	80	8.2	14.2	10.8
	-	Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	TSDF	RSPM	60	26	46	37.8
	(Down wind)	(PM2.5)				
		PM10	100	40	50	44.5
		SO2	80	7.4	10.6	9.0
		NOx	80	7.6	13.6	10.1
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Main Guest	RSPM	60	15	28	21.1
		(PM2.5)		10	20	Z1.1
	House	PM10	100	22	45	37.1
	(Down	SO2	80	4.3	8.4	6.1
	wind)	NOx	80	5.2	9.4	7.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Wyeth	RSPM	60	10	20	10.6
	Colony	(PM2.5)		10	20	19.6

	(Down wind)	PM10	100	24	44	35.3
	,	SO2	80	4.1	7.6	6.35
		NOx	80	4.6	8.6	6.9
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Gram panchayat	RSPM (PM2.5)	60	12	30	24.3
	hall (Cross	PM10	100	29	52	42.5
	wind)	SO2	80	6.2	8.6	7.4
		NOx	80	5.7	9.4	7.4
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Main office, North site	RSPM (PM2.5)	60	19	35	26.5
	(Cross wind)	PM10	100	35	52	43.3
		S02	80	6.4	9.2	7.5
		NOx	80	7.3	10.6	8.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Haria water tank (Cross	RSPM (PM2.5)	60	17.8	37.8	27.5
	wind)	PM10	100	24.4	52.2	39.9
		SO2	80	8.8	11.2	9.4
		NOx	80	10.2	15.8	13.4
		Ammonia	850	ND	ND	ND
		HCI	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 f than We have that in event o fault or operation the specified s Rules 1986 as occurrence we operation plan restart or increa to achieve the	designed and f ESP in work ion issue due tandard pres amended fr will intimat t or decrease ase the load	integrated in F ing not efficien to which flue g cribed in the E om time to tim te to board & the load of po until the contro	Plant D(ntly or s gas emis nvironm ne than a author ower pla	CS in su omethi ssion go nent (pr in sucl rity to ant. We	ch a way ng found o beyond otection) h cases / stop the e will not
A.4 SOLID/ HAZARDOUS WASTE :						

31.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance from time to time.	Not Applicable There is no Hazardous waste generation in Captive Power Plant.
	shall be obtained for collection / treatment/storage disposal of hazardous waste.	Complied . We have CCA Amendment No. AWH – 82241 dated. 20/09/2016. No hazardous waste is generated. This EC condition is not applicable to us.
32.	Hazardous waste sludge shall be packed stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.	Not Applicable. There is no Haz. waste generation in this project.
33.	The used oil shall be sold to only to the registered recyclers / refiners.	<section-header><section-header></section-header></section-header>

34.	The discarded containers / barrels /bags/ liners shall be sold only to the registered recycler.	Complied . No bags / I	iners c	ıre bein	ıg utilize	ed for P	ower Plo	ant.	
35.	For storage of fly ash closed silos of adequate capacity shall be provided.	Complied . We are not constructed ash pond to the CPP unit. We have closed three silo of 200 MT and Two silo of 300 MT capacity of each, toto 1200 MT capacity, which is well enough for our averag generation of approx. 250 TPD. We dispatch the fly ash daily from these silo so we have not prepare ash pound.				each, total r average			
		Fly Ash	Unit	Oct	Nov	Dec	Jan	Feb20	Mar 20
				19	19	19	20		
		Generati on	MT	4765	4848	4712	5170	5188	4985
		Disposal	MT	4765	4848	4712	5170	5188	4985
	No ash pond shall be	Complied.							
	construed in the project.	No ash por	nd is co	onstrue	ed in the	e project			
36.	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc.	Complied . manufactu Manufactu	rers aı	nd also					

	The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from theunit.	Complied. We are str are ensurir generated Fly ash / bo March-202 Fly Ash	ng that from t ottom	t that is the unit ash gei shown	s 100 %	utilizati n data fa	on of fly	ash to b	e
			N 47	19	19	19	20	20	20
		Generati on	MT	4765	4848	4712	5170	5188	4985
		Disposal	MT	4765	4848	4712	5170	5188	4985
		We have a Atul Ltd. F Gujarat.		-			-		
37.	All possible efforts shall be	Not Applic	able.						
	made for co-processing of the Hazardous waste prior to	Since ther	e is no	o Haza	rdous w	vaste ge	enerated	l in this	unit.
	disposal into TSDF/CHWIF.								
	A.5 SAFETY:								
38.	The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as manufacturer, storage and Impact of Hazardous chemicals Rules 1989	Complied. We are con MSIHC,198 with Haza transbound Oil & Empt	mplyin 39.We rdous dary N	are co and Ot loveme	mplying her Wa ent) Rule	stes (Mo st,2016	anageme towards	ents and	dge, Used
	as amended in 2000 for handling of hazardous chemicals.	& Disposal authorizati waste vide – 82241da generated	ion fro cC&A ted.20	m GPC A Amer)/09/20	B towa ndment 16. Sinc	rds han No. AW e there	dling of a 'H	above me	ention
39.	Necessary precautions like continuous monitoring of hot spot (ignite lignite) using temperature detection systems water sprinklers, avoiding stacking of lignite near stream pipeline etc shall be made for storing lignite to prevent fire	Complied . Lignite is u far as pose Days. How for the fuel	ısually sible. l vever,	_ignite Water	is not b spray a	eing sto	ored for	not more	e than 3-4

	hazard.	
40.	All the risk mitigation measures, general & specific recommendations mentioned in risk Assessments Report shall be implemented.	Complied . We will implement All the risk mitigation measures, general & specific recommendations mentioned in risk assessments report.
41.	A well designed fire hydrants system shall be installed as per the prevailing standards.	Complied. A well designed Fire hydrant system is adequate and as per standards.
		Fire hydrant Network details:
		Single Hydrant point: 192Nos. Double hydrant point: 07 Nos. Fixed monitor: 11Nos. Hose boxes: 30 Nos. Central hose station: 10 Nos. Hose pipe: 15 mts. 250 Nos. Branch pipes (jet type): 50 Nos. Foam making branch pipe: 03 Nos. Foam compound: 200 litre
		Foam generator with high expansion foam: 2 Nos.
42.	Personal protective Equipment shall be provided to worker and its usage shall be ensured and supervised.	Complied . PPEs like nose masks, safety goggles, chemical resistive aprons, fire proof apron, Hand gloves, safety helmet, welding goggles, ear mugs, safety shoes etc are providedtotheworkersandutilizationofthePPEsisfollowedstrictlyinP owerPlant.

	РНОТО	GRAPHS OF ONSITE :	MOCK DRILL	1	
		Onsile mock drill			
ATUL		Â			
Stores/Accounts/In	dentor	ATUL LIMITE INFRA PC O STORES REQUISIT	U TION SLIP	13-DEC-19 Pa ST	nge 1 of 1 R/FM/05/00
Req. Number Org Code	: 15192745 ; 813		Date Chargable CC	: 24-JUL-19 : 51P01	
Org Name Withdrawing CC. Withdrwaing cc name Purpose	: Infra Engine : 01F43 ¹ Mechanical F	ering (PC Power House Ca	Chargeable CC Name	: STEAM PLANT	
a statement to state					
Sr. Item Code No.				Item Default Locator	Qty Require
No.	HONEYWELL SAF MODEL- A700	ETY GOGGLE (ANTI-)		Locator	Qty Require 20

43.	First Aid Box and required	Complied.
	antidotes for the chemical used	First aid box are kept in each plant and at strategic locations
	in the unit shall be readily	whereas antidotes are kept in the medical Centre.
	available in adequate quantity at all the times.	

44.		- ··					
	Occupational health	Complie					
	surveillance of the workers shall	•	one on regular basis	•			
	be done its records shall be	Occupational health surveillance of the workers is carried out on					
	maintained. Pre - employment	a regulai	r basis as per section	n-41 C of the fac	tories act and ruke-		
	and periodical medical	68T of G	ujarat Factories Rul	es and records ar	re maintained.		
	examination for all the worker	Regular	Medical Checkup of	all employees are	e done by in- house		
	shall be undertaken as per the	Dr. Visho	al Mehta (M.B.B.S), D	Dr. Suman Patel (I	M.D. Physician) & Dr		
	Factories Act &rules.	Sandip E	3handare (M.B.B.S, A	AFIH) in following	manner;		
		The follo	wing medical check	up has been com	pleted;		
		Pre-Emp	loyment Check-Up	(In-house): FY Ap	ril-19 to March-20		
				· · ·			
		SN	Employee	Qty	Check-Up		
		1	Staff		Pre-		
		2	Operators	6361	Employment		
		3	Workers				
		Annual M	edical Check-Up: FY	' April-19 to Marc	:h-20		
		Annual M	edical Check-Up: FY Employee	' April-19 to Marc Qty	h-20 Check-Up		
			· ·	•	1		
		SN	Employee	•	Check-Up		
		SN	Employee Staff	Qty	Check-Up Annual		

B. Annual Checkup:
Physical checkup, Vision, Blood, Urine, PFT, ECG
Our occupational health centre & Pathology Lab is equipped
with necessary facilities under supervision of factory medical
officer with trained three EHS persons.
Medical Facilities:
First Aid boxes in all plants
Central Ambulance Room in the middle of the factory
Two Ambulance Vans. Out of which one is equipped with
ICU facilities.
Medical Center
Three full time AFIH certified doctors.
Equipped with 3Beds
Full equipped Pathological lab with advanced diagnostic
equipment
ECG Equipment
Cardiac monitor
Defibrillator
Finger pulse Oxy meter
Pulmonary Function Test Apparatus
O2Administration
Antidotes with routine Important and ital life saving Drugs
Tie-up with Kasturba Hospital, Valsad, and Pardi
Hospital, Pardi, respectively 7 kms and 3 kms.
away from Atul

		Kasturba Hospital). We have medical checkup schedule once in quarter for Insecticide plant's employees Other necessary items including First-aid medicines, antidotes and equipment as prescribed in the schedule the under Rule-68 U (b) of the Gujarat factories rules are also been provided
		Laboratory Report Laboratory Report
		Name Mode/SuperVision Parametrism
		Teachine Bit 2 2011 00 32 Let 0 Na LA9900255 Biochemistry Biochemistry
		Haematology Test Destrytion Result Units Reserves Range
		Ten Interprete Section Reset them Releases Regin Section Store Section 3000 Section 3000 Section 3000
		Last D Ro. LASTROCCI Turi David (2010) 20 AV NRC: Alles Board David Turi David (2010) 20 AV NRC: Alles Board David Turi David (2010) 20 AV
		HDC-HairRead Calificant LOP UPMail Normal 43.0.4.00 NDC-HairRead T33 Morall 37.4.7.5.5 Lipst Profile NDC-HairRead T33 Morall 43.4.0.0 Descrime Segme NDC-HairRead T35 Segmemon Segme Sergin Desc CE019.0.10.4.0
		IPCT Handmell (FC) ALR % Name (81 + 11) Depriorm Grain Sergide Date (2011) (11) VDV: Mon Cell Vision BABI L None (71) - 512 Last D the (AdDRDA) Task Date (2011) (2014) VDV: Mon Cell Vision BABI L None (77) - 512 Last D the (AdDRDA) Task Date (2011) (2014) VDV: Mon Cell Vision B/10 L None (2011) (2014) Task Date (2011) (2014) VDV: Mon Cell Vision B/10 L None (2011) (2014) Task Date (2011) (2014)
		MCH Standard Management 2017 by Beneratory Cal MCH Market Cell Nemeratory Station 94 Nemerat 223 165 Phone 223 165 Trighysensis Dissertation 02.20 mg/d, Nemerat 223 161
		PCT - Plasted Extent 2013 0F 1023a. Nernal 103 - 557 VLEX Consistence 18:05. mgrd. Nernal 1055.0
		Nacher Denson (197) Add. Second (197) Add. Secon
		Performance Halo Same Halo Same Les Carros L
		PLCM-INTErage California 1720 % Laboration California C
		REV/ Nampelo Covid 45.35 % Namel 34.672 LVMPH: Lynpace Data 24 (2019) % Namel 34.673 Statistics of Statistics of Statistics and Statistics of Statistics
		10. Energy/#Chart 2.4E % Nermal/0.1-TP
		BOD: ServerAtani Bill Is NewsAf2 17 Berner/Manual Bill Is NewsAf2 Berner/Manual Bill Berner/Manua
		Neuroscitory Analyse (Spring & Statistica) (March 1997) and Statistica) (Spring & Spring & Statistica) (Spring & Spring
		Lab Tentivenan Ming Ten Grava
		CTABLE REPAILS Sectors Server Land No. (A 10 ANI) Land No. (A 10 ANI)
		Trans Relicion 6.50 August Permit 0.5.7 6
		Adama Ha 1992D Vasa Dent Capel Vala hela hela hela hela hela ber la data data a da kapa i tal a
		Remark: All employ found medically fit to work, no contiguous diseases were observed.
45.	Flameproof fittings shall be	Complied.
	provided at the proposed	
		Flame proof fittings are provided.
	power plant.	

46.	Adequate firefighting facilities	Comp	lied.				
	shall be provided at the	Firefighting facilities are adequate.					
	proposed power plant.	The risk to people after a fire has started shall largely depends or					
		the adequacy and maintenance of means to escape, the alarm					
		syster	n, training of the workforce in fire routine and evacuation				
		proced	dures at Atul Ltd. management has proposed to employ well-				
		resour	ced and adequate fire fighting network. Details regarding				
		the fir	efighting capacity of the unit are given below:				
			Four full fledged fire hydrant system in the company				
			Water Storage Capacity - 50 million Liters				
			Total hydrant post/ monitors –780				
			Total length of hydrant line – 15km				
			Fire Fighting Equipment				
		□ DCP 1350					
		□ CO2 776					
			Foam : 05Trolly				
		Fire Tenders					
			One fire tender having 1800 Lit water capacity				
			Second multipurpose fire tenders having 5000 Lit				
			water & 500 Foam				
			Third Multipurpose tender having facility of DCP-				
			500 Kg, Foam				
			– 500 lit and Water – 4500Lit.				
			SCBA sets – 35nos.				
			Emergency alarm system – 532 nos. points spread across				
			the company				
			Fire station manned round the clock with Siren and				
			Annunciation System.				
		Regular Testing on every Monday					
			Smoke detectors in the office and labs				
			Auto water deluging system at critical reactors				
			Auto water sprinkler system at tank farms				
			Onsite mock drill and fire fighting Training:				

47.	Proper ventilation shall be	Complied.
	provide in the work area.	Proper ventilation provided in work area.
48.	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	<image/>
49.	The project management shall prepare a details Disaster management plan (DMP) for the project as the guidelines from Directors of Industrial safety and Health.	Complied. Detailed disaster management plan is already prepared. Please find attached herewith detail disaster management plan was submitted to your goog office vide letter dated 19.12.2019 for the project as the guidelines from Directors of Industrial safety and health
	A.6 NOISE:	

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

	equipment generating minimum noise vibration shall be chosen.	We are always use minimum noise vibration generation construction equipment.
	Ear plugs and / muffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	Complied. OurcompanyhaswelllaiddownOHSpolicytouseProperPPE'sbyall employeesin plant area. Ear plugs and / muffs are compulsory for the construction workers working near the noise generating activities / machines / equipment.
	Vehicles and construction equipment With internal combustionengines without proper silencer shall not be	Noted &Complied. We are permitted those vehicles and construction equipment with internal combustion engines with
	allowed to operate. Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	Noted &Complied. We are only using construction equipment meeting the norms specified by EP Act, 1986.
	Noise control equipment and baffling shall be employed ongenerators especially when they are operated near the residential and sensitive areas.	Noted &Complied. We are taken care of Noise control equipment and baffling will be employed on generators especially when they are operated near the residential and sensitive areas.
	Noise levels shall be reduced by the use of adequate mufflers on all motorized equipment	Noted &Complied. We are using mufflers on all motorized equipment to reduce noise levels.
51.	The overall noise level in and around the plant area shall be kept well within the prescribed standard by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration, dampers etc. on all sources of noise generation.	Complied. The overall noise level in and around the plant area to be kept well within the prescribed standard by providing noise control measures including acoustic insulation, hoods, silencers, enclosures, vibration, dampers etc.on all sources of noise generation provided.

The ambient noise levels	Com	plied.								
shall confirm to the	The	The ambient and workplace noise level confirms to the								
standards prescribed under		standard prescribed under EPA. The same is being								
the Environment	regularly monitored.									
(protection) Act and Rules.										
Workplace noise levels for	The	The maximum values during the compliance period								
workers shall be as per the	cont	firms that at no time	the noise er	nissio	n level	went				
factories Act and Rules.	bey	ond the stipulated st	andards. Su	ımmar	y is giv	/en				
	belo	w:								
	Noise	monitoring data (Octob	per 19 to Marc	ch 20) i	s attach	ned as				
	Anne	xure III								
	Noise	e level monitoring data	(Day Time)							
	Sr.	Location	Permissible	Value	s for th	e				
	No.		Limits, dBA	period	d Oct 1	9-				
				Mar 2	0					
			75	Min.	Max	Avg.				
					-					
	1	Near Main guest	75	55.7	61.2	57.4				
		house	76	64.0	64.9	<u> </u>				
	2	Near TSDF	75	61.2	64.2	62.6				
	3	At Wyeth Colony	75	49.7	57.3	53.6				
	4	Gram Panchayat Hall	75	60.8	63.5	62.7				
	5	Near Main Office North site	75	59.2	64.5	62.18				
	6	ETP North site	75	63.2	68.5	64.4				
	7	Opposite shed D	75	64.7	67.3	66.0				
	8	ETP West site	75	62.8	68.5	64.5				
	9	Water tank Haria	75		<u> </u>					
		road		53.5	62.6	57.1				
	10	Near 66KVA	75	62.5	68.6	65.0				
		substation		02.5	00.0	05.0				
	Noise)								
	Sr.	Location	Permissib	1	les for	the				
	No. e Limits, period Oct 19-									
			dBA	Mar						
			70	Min		. Avg.				
	1	Near Main guest	70							
		house	-	50.2	2 52.2	51.2				

	3	At Wyeth Colony	70	43.7	51.1	47.0
	4	Gram Panchayat	70			
		Hall		53.4	58.4	56.1
	5	Near Main Office	70			
		North site		53.2	57.3	55.5
	6	ETP North site	70	53.2	58.6	54.7
	7	Opposite shed D	70	54.7	62.7	59.7
	8	ETP West site	70	50.3	60.8	57.6
	9	Water tank Haria	70			
		road		50.2	52.2	51.2
	10	Near 66KVA	70			
		substation		43.7	58.7	55.0
A.7 GREEN BELT AND						
OTHER PLANTATION.						

52. The unit shall develop green belt in at least 68000 sq.m area within the premises. Green belt shall comprises of rows of varying height tall native trees with thick foliage in the periphery of the factory premises.

Complied.

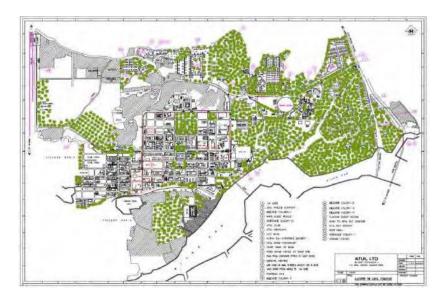
Green belt is developed and we planted more than 50000 plants every year. Green belt is comprised of at least minimum 3 to 4 raw plantation with minimum height of native trees is 5 to 6 mtr with thick foliage in the periphery of the factory premises. Proper plantation is done all around the plant boundary and also the roads to mitigate fugitive & transport dust emission.

Total Plot area: 1126078.27 sq.mt

Total Green belt area: 409030.00 sq.mt (approx.

36% of total plot area) Green belt area for Captive power plant: 17920.0 sq.mt

Layout plan with green belt is as shown below:





53.	The unit shall also take up adequate plantation at		-	e plant more and other o		•	
	suitable open Land on road						
	sides and other open areas	Sr.		'ear		f plants plar	nted
	in nearby villages or	1.	2	2010-11	59,20	00	
	schools in consultation with	2.	2	2011-12	68,70	00	
	the Gram panchayat /	3.	2	2012-13	63,30	00	
	GPCB and submit an action	4.	2	2013-14	75,60	00	
	plan for the same for next	5.	2	2014-15	81,50	00	
	three years to the GPCB.	6.	2	2015-16	72,90	00	
		То	tal		4,21,2	200	
		scho	ols in con	sultation w	ith the Gro	ım pancha	yat.
	B.OTHER CONDITIONS:						
54.	In the event of failure of	Com	plied.				
	any pollution control		-	during the r	epot perio	d. Howeve	r, if such
	system adopted by the	case	happens	we ensure	to close do	own the un	it.
	unit, the unit shall be						
	safely closed down and						
	shall not be restarted until						
	the desired efficiency of						
	the control equipment has						
	been achieved.	6					
55.	All the recommendation , mitigation measures		plied.	all environn	ontal prot	oction mod	
	,environments protection		•	s proposed			
	measures and safeguard		•	omplied as			abinited
	proposed in the EIA report of	S.	Potential		Parame	Frequenc	Status
	the project prepared by M/s	N	Impact	to be	ters for	У	of
	; Eco chem Sales &Service	о		followed	monitor	of	Complia
	,surat& submitted vide letter				ing	monitor	nce
	no NIL dated 03/11/2015					ing	
	and commitments made	1.	Air	Adequate	SPM,	Monthly	Stack
	during presentation before		emission	stack	RSPM,	through	and
	SEAC, proposed in the EIA			height	SO2	NABL	APCM
	report shall be strictly			APCM-	and	Approved	Details
	adhered to in letter and spirit.			Multi	NOx,	external	are
				Cyclone&		agency	provide
				Scrubber	logs to		d in EC
				is	be		Complian
				provided as APCM	maintai ned.		ce Point
					neu.		No.2 of
				AAQ			specific
				$\neg \neg \gamma$			

			within			Conditions Quality of gaseous emission and AAQ is as per Annexure I &II
			the project premises and nearby habitations to be monitored. All vehicles to be PUC certificate.			
	2.	Noise	Noise generati ng from operatio n of boiler, cooling towers & plant & M/c area to be	Spot noise level recording	Monthly through external agency NABL Approved.	Carried out at the periphery of whole plant premises as Annexure III

		monitored			
3.	Waste water dischar ge	Complian ce to the wastewa ter discharg e standard s complete effluent treatmen t Plant- Primary+ Secondar y & MEE, ZLD is achieved.	pH,TSS, TDS,CO D,BOD, oil & Grease	-	Discharge effluent is analyzed on daily basis.
4.	Solid/ Haz Waste	Check complian ce of HWM rules.	Quantity and quality monitorin g	Periodic ally	Details are provide d in EC Complia nce Point No.10 of specific Conditio ns.
5.	Non routine events and acciden t al release.	Plant drawn, consideri ng likely emergenc ies and steps required to prevent/li mit conseque nces	Mock drills and records of the same.	Periodic during process activitie s.	Every year

6.	Green Belts	Vegetation green belt developm ent	More than 50000 no. of plants & species	Once a year	Green belt area is about 33% landarea . Total area: 1126078 .27 sq.mt
					Green belt area: 409030. 00 sq.mt

56.	All the	(Complied							
	recommendation	CREP guidelines is being followed.								
	of CREP		0	5		nendations mentioned in CREP				
	guidelines as			s as follows:-						
	may be		Activit	Action	Complian					
	applicable from		_		ce Status	Remarks				
	time to time shall		У	point		Remarks				
	be following		code	(Brief)	as on					
	vigorously.		No.		today					
	(igereaciy)					APCM are already in place				
						and maintained. We ensured				
			1	Implementation	Complied	that at no time the emission				
				of		level will go beyond the				
				Environmental		stipulated standards and or				
				Standards		prescribed limits by				
						MOEF&CC vide S.O. 3305(E)				
						dated 07/12/2015.				
						We have installed high				
						efficiency electro static				
						precipitator (4 field) with				
						99.9% efficiency to control of				
			2	Particulate	Complied	flue gas emission (particulate				
				matter	•	matter emission) within the				
				emission		permissible limit from the				
				reduction		proposed boilers. Last six				
						month (October-19 to March-				
						2020) monitoring reports				
						shows that Avg. SPM				
						emission is identify 39				
						mg/Nm3 which is below				
						permissible limit of 50				
						mg/Nm3.				
		1		New /))				
			3		Complied	EC awarded for setting up an additional power plant				
			5	expansion	Complied					
				power projects		of 22 MW,				
				to be accorded		Dated20/05/2016 EC No.				
				Environment		SEIAA/GUJ/EC/1(d)/340/2				
		1		Clearance		016				
		1		Development of						
			4	SO2 & NOx	NA	Action by CPCB				
				emission						
		1		standards.						
		1		Development						
		1		standards for of	NA	Action by CPCB				
	l	L								

	guide mercury lines / & other		
	Review of stack height requirement	NA	Action by CPCB
5	Install / activate meters / continuous monitoring systems with calibration system.	Complied	All the stacks are equipped with online opacity meter for continuous monitoring and also kept in CC TV camera surveillance. Also Online results are displayed on company main gate.
	Use of beneficiated coal	As soon as it is viable option with respect to its limited availabilit y and proximity of source, will be used.	Currently not available.
6	Use of abandoned coal mines for Ash disposal	NA	Not Applicable

	Provide dry ash to the users	Complied. Ongoing process	Being given to local brick manufacturers and Cement industries. We have done Agreement between Ambuja cement Ltd. And Atul Ltd. For supply of dry ash from Atul Limited, Atul, Valsad, Gujarat. Dated.21.09.2019.
	Provide dry ash free of cost	Complied	-
	Adhere to schedule by State Dept.	NA	Action by State Dept.
	Environment Clearance Existing plants shall adopt any of systems mentioned in 13(1)	Complied	_
	Fly ash Mission shall prepare guideline	NA	Action by GOI
	New plants shall promote adoption of clean coal & clean power	NA	_
7	CC&A status	Complied	consent no. AWH no. 105110 valid up to 30/9/2025.
8	Compliance with respect to norms prescribed in CC&A for last one year	Complied	Being checked & verified by Regional Office of GPCB time to time.
9	Overall compliance with respect to charter (Yes/No)	Yes	Fully complied with all the condition stipulated in EC as well as CC&A.

57	A separate environment management cell with qualified staff shall be set up for implementation of stipulated environmental safeguards.	Complied. Implementation of stipulated environmental safeguards were ensured by the Company's SHE department. Organogram of SHE Department Chairman & Managing Director Chairman & Managing Director Chairman & Managing Director President - Utility & Services VP - Corporate SHE VP - Legal Assurance SHE VP - DOH Hanager Hana
58 59	The project authorities must strictly adhere to stipulations made by the Gujarat Pollution Control Board (GPCB), state government and statutory authority. No further expansion or modification in the plant likely to cause environmental impacts shall be carried out without obtaining prior	Noted &Complied We are strictly adhere to stipulations made by the Gujarat Pollution Control Board (GPCB), state government and statutory authority. Complied. No further expansion or modification in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.

Environment Clearance from the concerned authority. The above conditions will be enforced, inter- alla under the provisions of water (prevention &Control or pollution) Act, 1974, Air	Noted.	1 2. 3.	CTE CC&A Amendment Public Liability Insurance	No.77793 dated: 17/05/2016 No.AWH-82241 dated: 08/11/2016 Policy No. 1204003619330000002 Validity: 01/04/19 to 31/03/20 Sum assured: 15.0 Cr
(prevention &		4.	Factory License	No. 11192 dated: 31/12/2021
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.		5.	License under Petroleum act,1934 1. Furnace oil 2. Ethanol 3. Kerosene 4. Benzene 5. Methanol	License No. P/HQ/GJ/15/136(P 9747) P/HQ/GH/15/92(97 04) P/HQ/GJ/15/2348(P 167317) P/HQ/GJ/15/138(P 9749) P/HQ/GJ/15/1473(P11115)
		6.	PRESSURE VESSEL/GAS CYLINDER STORAGES 1. Cylinder storage room for Oxygen, Nitrogen, Acytelene. 2. Cylinder storagefor chlorine	G/WC/GJ/06/826 (G13953) G/WC/GJ/06/811 (G13932)

61	The project	Complied.	8.	Explosive Act 1959 1. Sodium chlorate/Poto sium 2. Sulphur yar (storageof sulphur) License unde Prohibition at Excise Act 1. Special DenaturedS 2. Methyl Alco	as d r nd Spirit	No: 8 / 90 21/89/90 DS 45/89/90 MA		
	proponent shall comply all the conditions	CSR project	s (Ap	ril 2019 to Mar	ch 2020)			
	mentioned in ' The Companies(Corpo rate Social Responsibility Policy) Rules, 2014 and its		S.N	Description	Locat n	io Final Implementi ng Agency	Budget from Apr 19 to Mar 20	Expendit ure
	amendments from time to time in a letter and spirit.		1	nt of	Atul, Valsad (Gujarat)	AFT Atul Kelav ani Mand al	36.80	36.80
			2	Support to tribal children in Atul Vidyamandi r	Pardi, Valsad (Gujarat)	AFT Atul Vidyal aya Trust	6.00	6.00
			3	Improveme nt of teaching methodolog y in primary schools	91 villages, Valsad (Gujarat)	AFT ARDF	48.00	48.00

		Adhyapika Project				
	4	Enhanceme nt of rural education	20 villages, Valsad (Gujarat)	AFT ARDF	10.97	10.97
	5	Promotion of educational facilities in an ashram shala	Pardi, Valsad (Gujarat	AFT Shree Vallab h Seva Kendra	3.00	3.00
	6	Conservatio n of manuscript s	Ahmeda bad (Gujarat)	AFT L D Bhartiy a Sanskr uti Vidya mandir	40.00	40.00
	7	Contributio n towards publication of books on Indian culture ecology philosophy	Jaipur (Rajasth an)	AFT Prakrit Bharati Acade my	5.00	5.00
	8	Support to develop a school in a tribal area	Chondha , Navsari (Gujarat)	AFT	5.00	5.00
	9	Conduct science workshops for rural teachers	Sabarka ntha (Gujarat)	AFT Vikram A Sarabh ai Comm unity Scienc e	3.00	3.00

		1			
			Centre		
10	Support needy children with educational kits	Valsad (Gujarat)	AFT	2.70	2.70
11	Capacity building of teachers through training	Atul, Valsad (Gujarat)	AFT	0.94	0.94
12	Introductio n of digital education at Sanskrit Mahavidyal aya	Pardi, Valsad (Gujarat)	AFT Swadh yay Mandal	4.50	4.50
13	Support children with special needs	Bharuch (Gujarat)	AFT Osmosi s Play Centre and Educati onal Games Library	2.00	2.00
14	Empowerm ent of women through various vocational training courses	Atul, Valsad (Gujarat)	AFT ARDF	13.48	13.48
15		Atul, Valsad (Gujarat)	Atul Ltd	179.25	179.2 5

16	Skill developme nt of youth through vocational training	Valsad (Gujarat)	AFT ARDF	36.20	36.20
17	Capacity building of tribal farmers in bee keeping	15 villages, Valsad (Gujarat)	AFT Under The Mango Tree Society	1.40	1.40
18	Empowerm ent of tribal families by creating home stay facilities	six villages, Narmada (Gujarat)	AFT	85.00	85.00
19	Create livelihood opportunitie s among tribal families by providing cows	28 villages, Valsad (Gujarat)	AFT BAIF Institut e for Sustain able Liveliho ods and Develo pment	66.37	66.37
20	Develop micro entreprene urs to provide sustainable livelihood	Ozarpada, Valsad (Gujarat)	AFT	37.50	37.50
21	Support tribal farmers by providing seeds	three villages, Valsad (Gujarat)	AFT ARDF	1.14	1.14

22 23	Improveme nt of hygiene through constructio n of toilets Enhancem ent of rural	15 villages, Valsad (Gujarat) 35 villages,	AFT ARDF	32.00	32.00
	health through health camps	Valsad (Gujarat)	ARDF		
24	Upgradatio n of medical equipment in a hospital	Laxmipu ra, Sabarka ntha (Gujarat)	AFT Gyan Mandal Laxmip ura Group Prerit Arogy a Mandal	15.00	15.00
25	Provision of blood units to the needy and deserted patients	Bharuch (Gujarat)	AFT Seva Yagna Samiti	2.40	2.40
26	Promotion of sports among rural youth	Atul, Valsad (Gujarat)	Atul Ltd	11.00	11.00
27	Contributio n for establishing CT scan facility in a hospital	Valsad (Gujarat)	AFT ARDF Kastur ba Vaidya kiya Rahat Mandal	10.00	10.00

		ſ	1	1	,,
28	Promotion of health and fitness through marathon	Atul, Valsad (Gujarat)	AFT ARDF	9.09	9.09
29	Promotion of sports in rural schools by providing sport kits	Valsad (Gujarat)	AFT	6.15	6.15
30	Provision of medical assistance to the needy people	Atul, Valsad (Gujarat)	AFT ARDF	2.79	2.79
31	Upliftment of quality of life of salt pan workers	Kharagh oda, Surendr ana gar (Gujarat)	AFT ARDF	2.70	2.70
32	Provision of blood units to thalassemia patients	Valsad (Gujarat)	AFT Valsad Raktda n Kendr a	7.00	7.00
33	Contribution for advance treatment of cancer patients	Karams ad, Anand (Gujarat)	AFT Charut ar Arogya Mandal	5.00	5.00
34	Contributio n for community marriage of underprivile ged couples	Valsad (Gujarat)	AFT Shree Chandr amaule s hwar Mahad evji Sansth apan	2.50	2.50

	35	Support to children with special needs	Bangalore (Karnataka)	Trust Shree Valsad Taluka Patel Samaj Pragati Mandal AFT Mathru Founda tion	1.00	1.00
	36	Provide financial support to critically ill patients	Valsad (Gujarat)	AFT Kastur ba Vaidya kiya Rahat Mandal	31.25	31.25
	37	Support to families of Indian solders	Pulwama (Jammu and Kashmir)	AFT	2.50	2.50
	38	Provision of free farm kits and fertilisers at subsidised rates to farmers	Haria, Valsad (Gujarat)	AFT ARDF	3.00	3.00
	39	Support to disaster relief for COVID-19 pandemic	Valsad (Gujarat)	AFT ARDF	50.00	50.00
	40	Support to families of special children	Valsad (Gujarat)	AFT	19.44	19.44

41	Provision of infrastructu re support for institution building	Chanvai , Valsad (Gujarat)	AFT World Renew al Spiritu al Trust	1.50	1.50
42	Renovation of anganwadi infrastructr ee (model anganwadi project)	seven villages, Valsad (Gujarat)	AFT ARDF	51.00	51.00
43	Provision of infrastructu re support to a crematoriu m	Atul, Valsad (Gujarat)	AFT Atul Parnad i Muktid ham Trust	5.00	5.00
44	Provision of infrastructu e support to school	Surwadi, Bharuch (Gujarat)	AFT	4.00	4.00
45	Support to small developme nt activities in nearby villages	Atul, Valsad (Gujarat)	AFT ARDF	0.48	0.48
46	Afforestatin	Atul, Valsad (Gujarat)	Atul Ltd ARDF	5.00	5.00
47	Establishm ent nt of solid waste managemet system in Atul	Atul, Valsad (Gujarat)	AFT ARDF	30.00	30.00

		,				-	1	
				village				
			48	Conservati on of coastal area through cleanliness drive	Daman (Daman and Diu)	AFT	1.00	1.00
			49	-	Atul, Valsad (Gujarat)	AFT	5.51	5.51
				Total			914.35	914.35
62	The project proponent shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk .Assessments study repot as well as proposed by project proponent.	All the reco	its st	endations sug udy repot as v	-		-	

	Ade	quate fund embarke	ed for EMP, Fy. 2	2019-2020:
			Capital Cost per annum (Rs. in lacs) 2019-20	Recurring Cost per annum (Rs. in lacs) 2019-20
	1 2	Air Pollution Control Liquid Pollution Control	124.17 341.7	2444.5
	3	Environmental Monitoring and Management	29.3	35
	4	Solid waste Disposal	-	263.87
	5	Occupational health	-	12
	6	Green belt	_	5.0
	Toto	I	495.17	2760.37
that the project has been accorded environmental	clea	ronmental rancebytheSEIAAandth e GPCB and also be see	-	:learanceletterareavailable EIAA/SEAC/GPCB.
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 /	Infrastraetur Beef () Dess () To, Surpues Aud Will And Bac Respected We bayes	A Shi of LIO(11/108/2015/LA-BB) dated 11/02.2010	Alle one	And A second sec

	This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarat	Complied. We have given advertisement dated 29.05.2016 in local newspapers that are widely circulated in the region, one of which is given in the Gujarati language and the other in English.
	A copy each of the same shall be forwarded to the concerned Regional office of the Ministry.	Complied. A copy each of the same forwarded to the concerned Regional office of the ministry.
65	The project proponent shall also comply with additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Complied. No additional conditions so far imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.

66	It shall be mandatory	Complied	4								
00	for the project	•		ubmit the half-yearly complian	ce report						
·	management to	•			•	iro					
	submit half-yearly	•	The implementation of the project along with environmental actions plans are monitored by the authority time to time. We have already submitted the 6								
	compliance report in										
	respect of the	-	nonthly compliance reports to the authority for all six monthly periods between								
	stipulated prior	2010 10 2	016 to 2019 & same is being updated on website.								
	environmental		SN	EC Compliance Report	Submission Date						
	clearance terms and			Period							
	condition in hard and		1	June-16 to November-16	27/01/2017						
	soft copies to the		2	Dec-16 to May-17	17/07/2017						
	regulatory authority		3	May-17 to October-18	30/11/2017						
	concerned on 1st		4	Nov-17 to April-18	30/07/2018						
	June and 1st		5	May -18 to October-18	31/12/2018						
	December of each		6	Nov -18 to April -19	23/07/2019						
	calendar year.		7	April – 19 to September	19/12/2019						
		•		· · ·							
67	Concealing factual	Noted.									
-	data or submission										
	of false / fabricated										
	data and failure to										
	comply with any of										
	conditions										
	mentioned above										
	may result in withdrawal of this										
	clearance and attract										
	action under the provisions of										
	provisions of Environment										
	(Protection) Act, 1986.										
	1300.										

68	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied.
69	The SEIAA may revoke or suspend the clearance. If implementation of any of the above conditions is not found satisfactory.	Noted.
70	The company in a time bound manner shall implement these conditions. The SEIAA reserves the stipulate additional conditions, if the same is found	Noted.
71	Necessary.TheprojectauthoritiesshallinformtheGPCB,RegionalOfficeofMoEFandSEIAAaboutthedatefinancialclosureandfinalapprovaloffinalapprovaloftheconcernedauthoritiesanddateofstartoftheproject.	Complied. We have communicated with the regional officer of MoEF&CC towards the status of work and financial closure time to time. We have also submitted six monthly EC Compliance report periodically in which said information were updated time to time. Consent to Establish obtained from GPCB vide letter no. GPCB/CCA-VSD- 313(12)/ID:23158/306616 Dated: 17/05/2016.

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

Annexure I Flue gas stack result

Sr. No.	Stack Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
East				110 110 100	and the second second	COLUMN CALL	Contraction of the	Contraction of the	a come of the
1	FBC boiler El	IPM	100 mg/Nm3	65	53	71	63	76	78
*	PBC boner El	7.515		110	124	112			1000 C
		SO ₂ NOx	600 mg/Nm3 600 mg/Nm3	110			104	112	115
					145	126	125	106	103
2	FBC boiler E2	PM	100 mg/Nm3	73	68	68	78	82	88
	10-12-11-1	SO ₂	600 mg/Nm3	126	132	107	112	109	108
		NOx	600 mg/Nm3	140	137	119	117	121	116
3	FBC boiler E3	PM	100 mg/Nm3	78	59	75	65	72	75
		SO2	600 mg/Nm3	136	128	116	108	113	114
		NOx	600 mg/Nm3	129	132	126	112	126	120
4	Hot Oil Unit	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
	(Resorcinol Plant)	SO2	100 ppm	ND	ND	ND	ND	ND	ND
		NOx	50 ppm	24	24	36	28	22	25
5	DG set 1010 KVA (Standby)	PM	150 mg/Nm ³	Stand by	Stand by	Stand by	Stand by	Stand by	Stand by
		SO,	100 ppm						
	The Bart of Survey of the state	NOx	50 ppm	- Sugar	123235		1.01	- and	a la Canto
West	Site	NOX	150 ppm	and the second second		-			-
6	FBC boiler W1	PM	100 mg/Nm3	53	60	52	70	58	Icc
	PDC boner w1	SO3	600 mg/Nm3	102	112	104	118	119	55
	100	NOx	600 mg/Nm3	102	112	123	118	113	120
7	Hot Oil Plant shed-B	PM	150.0 mg/Nm3	ND	ND	ND	ND ND	ND	ND ND
1	Hot OII Flant shed-B	SO3	100 ppm	ND	ND	ND	ND	ND	ND
	And the second second second	NOx	50 ppm	30	30	40	32	20	21
8	Oil burner Shed B	PM	150.0 mg/Nm3	Stand by			the second se	-	
	(Stand By)	SO,	100 ppm	Stand by	Stand by	Stand by	Stand by	Stand by	Stand by
	(Stand by)	NOx		-	Call and		100		
9	Boiler (50 TPH 2 Nos) (New	PM	50 ppm 50 mg/Nm3	25	20	24	0.7	100	ar
	boilers) W2,W3				32	34	37	39	35
	I CONTRACTOR OF THE OWNER	SO ₂	600 mg/Nm3	127	132	108	116	120	110
	and the second state of the second state of the	NOx	300 mg/Nm3	93	102	98	102	103	105
		Mercury	0.03 mg/Nm3	ND	ND	ND	ND	ND	ND
10	DG set 1500 KVA	PM	150.0 mg/Nm3	Stand by	Stand by	Stand by	Stand by	Stand by	Stand by
	(Stand By)	SO ₂	100 ppm			-			
		NOx	50 ppm						
	h Site		Contraction of the				-	1000	
11	Thermic fluid heater of	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND
	DCO/DAP Plant	SO2	100 ppm	ND	ND	ND	ND	ND	ND
		NOx	50 ppm	24	24	32	30	28	26

Annexure II Ambient Air Monitoring details

Station	Parameter	Limit micro gm/N M3	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
	PM 2.5	60	21.3	19.6	32.2	29.6	33.7	36.8
	PM10	100	43.5	38.4	45.3	40.4	44.2	52.3
	SO2	80	9.8	10.4	9.4	10.4	11.2	10.8
66 KV	NOx	80	16.4	17.5	16.2	13.5	13.2	15.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	21.3	28	32	38	32	36
Opposite	PM10	100	43.5	35	39	35	39	42
Shed D	S02	80	9.8	7.9	9.6	8.4	9.6	8.2
	NOx	80	16.4	8.3	9.3	9.2	9.3	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	24	24	27	45	36	38
	PM10	100	39	39	42	39	42	45
Near West site	S02	80	8.7	8.7	8.4	14.7	8.4	8.7
ETP	NOx	80	9.4	9.4	8.4	15.4	8.4	11.4
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	27	27	29	40	40	44
	PM10	100	40	40	44	40	42	44
	S02	80	8.3	8.3	9.6	12.8	9.6	10.8
Near North ETP	NOx	80	8.6	8.6	8.2	14.2	8.2	12.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	26	28	42	43	46
	PM10	100	46	46	46	42	40	43
TSDF	SO2	80	7.4	7.4	8.2	10.6	8.2	9.8
ISDE	NOx	80	8.1	8.1	7.6	11.5	7.6	13.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	15	15	15	28	19	24
Main Guest House	PM10	100	25	25	22	45	42	44
	S02	80	4.5	4.5	4.3	8.4	7.8	6.3

	NOx	80	5.2	5.2	6.2	9.4	8.2	7.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	10	10	17	25	20	22
	PM10	100	26	26	24	42	39	37
	SO2	80	4.1	4.1	5.4	7.2	6.7	7.6
Wyeth Colony	NOx	80	4.6	4.6	5.3	8.2	7.4	8.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	12	12	22	30	28	29
	PM10	100	29	29	32	49	48	45
Gram panchayat	SO2	80	6.2	6.2	6.3	8.6	7.8	8.2
hall	NOx	80	5.7	5.7	7.2	9.4	8.2	7.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	19	19	24	35	30	26
	PM10	100	35	35	38	52	48	49
Main office, North	SO2	80	7.2	7.2	6.8	9.2	8.4	7.3
site	NOx	80	7.3	7.3	8.1	10.6	9.6	8.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	18.3	18.3	17.8	28.2	37.8	30.8
	PM10	100	24.4	24.4	32.7	42.2	42.7	45.2
Haria water tank	SO2	80	9.5	9.5	8.8	11.2	8.8	8.8
	NOx	80	15.8	15.8	14.5	14.3	11.5	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

Annexure III

Sr.	Location		Noise Level, dBA						
No									
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	75	
1	Near Main guest house	56.7	59.7	55.7	55.7	55.7	61.2	75	
2	Near TSDF	64.2	61.2	62.3	62.3	62.3	63.7	75	
3	At Wyeth Colony	57.3	49.7	53.5	53.5	53.5	54.4	75	
4	Gram Panchayat Hall	62.4	60.8	63.5	63.5	63.5	62.5	75	
5	Near Main Office North site	60.2	59.2	64.5	64.5	64.5	60.2	75	
6	ETP North site	64.3	68.5	63.2	63.2	63.2	64.4	75	
7	Opposite shed D	64.8	64.7	66.4	66.4	66.4	67.3	75	
8	ETP West site	68.5	62.8	63.7	63.7	63.7	65.5	75	
9	Water tank Haria road	59.7	62.6	53.5	53.5	53.5	60.2	75	
10	Near 66KVA substation	63.3	68.6	65.2	65.2	65.2	62.5	75	

Noise level monitoring data (Day Time)

Sr.	Location	Noise Level, dBA								
No					Permissible Limits, dBA					
110		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	70		
1	Near Main guest house	50.2	52.2	50.6	50.6	51.6	52.2	70		
2	Near TSDF	55.7	58.7	54.2	54.2	53.2	54.4	70		
3	At Wyeth Colony	44.7	43.7	46.1	46.1	51.1	50.3	70		
4	Gram Panchayat Hall	57.3	54.8	58.4	58.4	53.4	54.3	70		
5	Near Main Office North site	57.3	54.8	54.2	54.2	56.8	56.2	70		
6	ETP North site	58.6	55.3	53.6	53.6	53.2	54.4	70		
7	Opposite shed D	60.2	57.3	62.7	60.7	59.2	58.3	70		
8	ETP West site	57.8	59.8	60.8	57.8	54.7	55.1	70		
9	Water tank Haria road	52.3	55.8	50.3	52.3	54.7	53.2	70		
10	Near 66KVA substation	57.2	53.8	63.2	57.2	56.4	55.1	70		

Noise level monitoring data (Night Time)



COMPLIANCE OF ENVIRONMENTAL CLEARANCE NO.:F. No. J-11011/108/2015-IA-II (I) , Dated: 11/02/2019 Period – OCTOBER 2019 TO MARCH 2020

Expansion of Chemicals Manufacturing Unit By Atul Ltd, Valsad, Tehsil & Dist-Valsad,

CONDITION	COMPLIANCE STATUS
A SPECIFIC CON	IDITIONS:
i Consent to Establish/ Operate for the project shall be obtain from the State Pollution Control Board as required under the Air (prevention and control of pollution) Act, 1981 and the Water (prevention and control of pollution)Act, 1974.	Complied. We have obtained CTE after receiving ToR. CTE was granted by GPCB Vide No. GPCB/CCA- VSD- 313(12)/ID: 23158/363958 on 25.7.2016 (CTE no. 80394) Valid Till- 17/7/2023. We had applied for amendment in existing CTO after receiving EC. CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO amendment No. AH 102080), Valid Till-03.11.2019. Renewal for the same has been granted till 30.9.2025 Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/MoEF dated 19.12.2019 We have not the same has been granted till 30.9.2025 Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/MoEF dated 19.12.2019 We have not the same has been granted till 30.9.2025 Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/MoEF dated 19.12.2019 We have not the same have not the same have not the same has been granted till so the same have not the sa

ii	Complied.				
The treated	The treated eff	luent rea	cycled in system	is Avg.306 KL/D a	y during the reporte
effluent of 3335	from October 2	2019 to	March 2020 whic	ch is well below th	ne stipulated norms
cum/day shall		Sr No	Month	Total Recycle	Avg KL/Day
be recycled/reused		1	October-19	9891	319
to meet the		2	November-19	9827	328
requirement of		3	December-19	8654	279
different industrial		4	January-20	9941	321
operations, and		5	February-20	8776	303
the remaining		6	March-20	8870	286
treated effluent					
of 20514					
cum/day shall					
be discharge to					
estuary of					
Par River					
through the					
existing					
pipeline.					

Remaining about **Avg 8327 KL/Day** treated effluent has been discharged to estuary of Par river through the existing pipeline after achieving norms stipulated, which well within below limit as prescribed in stipulated condition.

Sr No	Month	Effluent Discharged to	KL/Day
		Estuary of Par River	
1	October-19	291813	9413
2	November-19	257071	8569
3	December-19	282245	9105
4	January-20	254951	8224
5	February-20	225463	7775
6	March-20	213113	9874

The Waste Water analysis at ETP outlet is monitored at regular interval for ensuring the compliance. The testing lab appointed is M/s. Pollucon Laboratories Pvt Ltd, Surat NABL Approved TC – 5945, issue date-28/05/2019 and valid till 27/05/2021. The analysis reports were within the permissible limits. A detail of analysis report of Monitoring report is attached in Annexure-I

Monitoring details of final effluent discharged are as follows:

				Values for	the period	Oct 19- Mar 20
S.NO	PARAMETER	UNIT	LIMIT	Min	Max	Avg
1	рН		5.5-9.0	6.23	8.19	7.19
2	Temperature	°C	40	30.1	31.8	31.09
3	Colour	Co-pt		78	140	92.86
4	Suspended solids	mg/L	100	62	98	79.57
5	Phenolic Compounds	mg/L	5	0.039	0.088	0.05
6	Cyanides	mg/L	0.2	ND	ND	ND
7	Fluorides	mg/L	2	0.62	0.75	0.69
8	Sulphides	mg/L	2	0.9	1.8	1.23
9	Ammonical Nitrogen	mg/L	50	34	48	41.00
10	Total Chromium	mg/L	2	ND	ND	ND
11	Hexavalent Chromium	mg/L	1	ND	ND	ND
12	BOD (3 days at 27°C)	mg/L	100	57	78	64.29
13	COD	mg/L	250	205	240	218.29

iii Necessary authorizati on required under the Hazardous and other Wastes Managem		Complied. We have obtained necessary authorization for Hazardous and other waste by obtaining Amendment in Existing CTO after receiving EC. CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO amendment No. AH 102080), Valid Till-03/11/2019. Renewals for the same has been received vide CCA (AWH-105110 valid till 30.9.2025). We have our own TSDF, Incinerator facility for safely management and disposal of hazardous waste generated in their premises. The following are amended for Hazardous and other waste as follows Hazardous Waste Disposal & Management Name of Waste Authoriz								
ent Rule,										
2016 shall be obtain and the Provisions contained in the Rules shall bestrictly adhered to.		Name of waste	Waste Authoriz ation on as per CCA (In Kgs.)		Wo	ıste (Kgs∕	Month)			
10.				Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Disposal
		Iron Sludge	80000	6000	11420	7340	16060	19495	6200	Own TSDF
			62500	6660	24970	49670	27910	10320	10200	Own TSDF
		Brine Sludge	242500	17710	22040	0	32860	61270	30260	Own TSDF
	ETP/ Gypsum Sludge			723120	711860	727310	717520	666476	581161	Own TSDF
		Salt from MEE	1678710	37180	42730	59080	93870	138600	75300	Own TSDF
		Hyflo	15750	7100	14880	15700	14760	15700	12500	Own Incineraor.
		Waste / Salt Lime Dust	5000	3200	4800	4800	3200	5000	4900	Own TSDF
		То	otal	800970	832700	886390	909780	916861	81100	
		Epoxy Resin	130000	75310	153550	163080	140660	63740	57260	Co-Pro
		Spent	40000	14180	37230	31670	40010	42180	44300	Co-Pro

	Carbon										
			<u> </u>	I							
iv	Noted & Com	nlied									
National											
Emission	We have bee	We have been following the Standards for National Emission Standards since beginning. The									
Standards	Location of ambient air quality monitoring stations had been decided in consultation with GPCB so that at least one station is installed in the up wind and downwind direction as well as where maximum ground level concentration are anticipated. This also covers the impact, if any, of the										
for											
organic											
chemicals	project plant. The same had been shown to authority like SPCB, CPCB & MoEF during their vi										
Manufactu	-	to our factory. In total we had selected 10 Locations, and monitored successfully. Results are									
ring	attached here					2					
Industry issued by			monitored at regula			5					
the	5		al Environment Au	-		•	Surat NABL				
Ministry			-01/06/2019 and vo				Monitoring				
vide	-	hed in Annexure-II	the permissible lim	its. A detail		ysis report of	wonitoring				
G.S.R.											
608(E)	The maximum	n values durina the	e compliance period	confirm th	at at no	time the em	nission level				
Dated 21		-	dards. Parameter w								
July, 2010	-		as per National En								
and Amended	Station	Parameter	Limit	1	for the						
from			microgram/NM ³		9- Mar I	•					
time to				Min.	Max.	Avg.	-				
time	66 KV GEB	RSPM (PM2.5)	60	19.6	36.8	28.8	-				
Shall be		PM10	100	38.4	52.3	44.0					
followed.		SO2	80	9.4	11.2	10.3					
		NOx	80	13.2	17.5	15.3					
		Ammonia	850	ND	ND	ND					
		НСІ	200	ND	ND	ND	-				
	Opposite	RSPM (PM2.5)	60	28	38	33	-				
	Opposite Shed D			-							
		PM10	100	35	52	40.3					
	Shed D	PM10 SO2	100 80	35 7.9	52 9.6	40.3 8.7	-				
	Shed D			-			-				
	Sned D	SO2	80	7.9	9.6	8.7	-				
	Sned D	SO2 NOx	80 80	7.9 8.3	9.6 11.2	8.7 9.5					
	Near West	SO2 NOx Ammonia	80 80 850	7.9 8.3 ND	9.6 11.2 ND	8.7 9.5 ND					
		SO2 NOx Ammonia HCI	80 80 850 200	7.9 8.3 ND ND	9.6 11.2 ND ND	8.7 9.5 ND ND					
	Near West	SO2 NOx Ammonia HCI RSPM (PM2.5) PM10 SO2	80 80 850 200 60 100 80	7.9 8.3 ND ND 24 39 7.7	9.6 11.2 ND 45 55 14.7	8.7 9.5 ND ND 34.3 43.6 9.4					
	Near West	SO2 NOx Ammonia HCI RSPM (PM2.5) PM10 SO2 NOx	80 80 80 850 200 60 100 80 80	7.9 8.3 ND ND 24 39 7.7 8.4	9.6 11.2 ND 45 55 14.7 15.4	8.7 9.5 ND 34.3 43.6 9.4 10.5					
	Near West	SO2 NOx Ammonia HCI RSPM (PM2.5) PM10 SO2 NOx Ammonia	80 80 850 200 60 100 80 80 80 850	7.9 8.3 ND ND 24 39 7.7 8.4 ND	9.6 11.2 ND 45 55 14.7 15.4 ND	8.7 9.5 ND 34.3 43.6 9.4 10.5 ND					
	Near West	SO2 NOx Ammonia HCI RSPM (PM2.5) PM10 SO2 NOx	80 80 80 850 200 60 100 80 80	7.9 8.3 ND ND 24 39 7.7 8.4	9.6 11.2 ND 45 55 14.7 15.4	8.7 9.5 ND 34.3 43.6 9.4 10.5					

Near North	PM10	100	40	54	44
ETP	SO2	80	8.3	12.8	10.0
	NOx	80	8.2	14.2	10.8
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
TSDF	RSPM (PM2.5)	60	26	46	37.8
	PM10	100	40	50	44.5
	SO2	80	7.4	10.6	9.0
	NOx	80	7.6	13.6	10.1
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Main Guest	RSPM (PM2.5)	60	15	28	21.1
House	PM10	100	22	45	37.1
	SO2	80	4.3	8.4	6.1
	NOx	80	5.2	9.4	7.5
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Wyeth Colony	RSPM (PM2.5)	60	10	20	19.6
	PM10	100	24	44	35.3
	SO2	80	4.1	7.6	6.35
	NOx	80	4.6	8.6	6.9
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Gram	RSPM (PM2.5)	60	12	30	24.3
panchayat hall	PM10	100	29	52	42.5
	SO2	80	6.2	8.6	7.4
	NOx	80	5.7	9.4	7.4
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Main office,	RSPM (PM2.5)	60	19	35	26.5
North site	PM10	100	35	52	43.3
	SO2	80	6.4	9.2	7.5
	NOx	80	7.3	10.6	8.5
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND
Haria water	RSPM (PM2.5)	60	17.8	37.8	27.5
tank	PM10	100	24.4	52.2	39.9
	SO2	80	8.8	11.2	9.4
	NOx	80	10.2	15.8	13.4
	Ammonia	850	ND	ND	ND
	HCI	200	ND	ND	ND

V	Com	plied.								
To control	Com	plica.								
source and	For a	controlling source	& Fugitive e	missions	in the work zone	environment ar	nd raw mate	erial		
the		5	0							
fugitive	storage area is being regularly monitored by NABL approved third party. Further also numbers of gas detectors are provided in work area for close monitoring. M/s. Atul Ltd has installed									
emissions,	various APCM, special hood, suction pipe for gases emission, Alkaline scrubber and has stack									
suitable		height as per stipulated condition & CPCB guidelines. Elephant trunk with flexible hoods are								
pollution	•	also provided at potential leak points, sampling points, man holes, charging points and								
control		connected with scrubbers.								
devices	M/s /	Atul Ltd. is also ma	onitoring VO	C as well	as other chemical	s in work area (as per Facto	ries		
shall be	Acto	and records are be	ing maintair	ned in Forr	n No. 37.					
installed to	Solve	ents are stored in t	tank farms ir	n separate	tanks with proper	earthing, flame	e arresters,			
meet the	lighte	ening arresters, fe	ncing, Fire hy	/drant sys	tem, Fire extinguis	hers, flame pro	of equipmen	nt,		
prescribed	etc. s	safety measures. D	Dedicated Sc	rubbers w	ith stacks of appro	opriate height (a	as per the			
norms			5		e been provided to					
and/or the					en provided at str	-				
NAAQS.		1	ving the haz	ardous ga	ses are routed thre	ough multiple s	tages scrubb	bing		
The	syste	em.								
gaseous emissions	Tho r		during the co	malianco	period confirm the	at at no time th	o omission l			
shall be			-	•	ameter wise sum					
dispersed		sis report are atta			uncter wise sur	indry is given		ancu		
through	anary									
stack of	The F	- lue & Process Sta	ck is beina m	nonitored c	at regular interval f	or ensuring the	compliance.	The		
adequate			-		ent Auditing & Co	-	•			
height as					and valid till 31/0		,			
per		e Gas Stacks & Its I								
CPCB/SPC	SN	Stack Details	Capacity/	Parame	Permissible Limit	sAPCD	Fuel			
B			Stack Htm	ter						
Guidelines.	1	FBC boiler E1	34/56	РM	100 mg/Nm3	Electro static	Coal/			
				SO2	600 mg/Nm3	precipitator	Lignite			
				NOx	600 mg/Nm3					
	2	FBC boiler E2	34/56	РМ	100 mg/Nm3	Electro static	Coal/			
				SO2	600 mg/Nm3	precipitator	Lignite			
				NOx	600 mg/Nm3					
	3	FBC boiler E3	50/80	РМ	100 mg/Nm3	Electro static	Coal/			
				SO2	600 mg/Nm3	precipitator	Lignite			
				NOx	600 mg/Nm3					
	4	FBC boiler W1	45/70	РМ	100 mg/Nm3	Electro static	Coal/			
				SO2	600 mg/Nm3	precipitator	Lignite			
				NOx	600 mg/Nm3					
	5	Boiler (50 TPH2	50/106	РМ	50 mg/Nm3	Electro static				
		Nos) (New		SO2	600 mg/Nm3	precipitator	Lignite			
		boilers)W 2,W 3		NOx	300 mg/Nm3					

6	Hot Oil Unit	32.5	РМ	150 mg/Nm3		CNG
	(Resorcinol		SO2	100 ppm	-	
	Plant)		NOx	50 ppm		
7	Hot Oil	H: 19	PM	150 mg/Nm3		
	Plant shed-B		SO2	100 ppm	-	CNG
			NOx	50 ppm		
8	Hot Oil	H: 17	РМ	150 mg/Nm3	-	
	Plant shed-B		SO2	100 ppm		CNG
	(Stand By)		NOx	50 ppm		
9	Thermic fluid	H: 12	РМ	150 mg/Nm3		
	heater		SO2	100 ppm	-	
	of DCO/DAP Plant		NOx	50 ppm		CNG
10		H: 10	PM	150 mg/Nm3		
	KVA(Standby)		SO2	100 ppm	1.	Diesel
			NOx	50 ppm		
11	DG set 1500	H: 11	PM	150 mg/Nm3		
	KVA		SO2	100 ppm	-	_
	(Stand By)		NOx	50 pm		Diesel
2. Pro	ocess Gas Stacks &	Its Emis	sion Control M	easures:-		
Sr.	Stack Details	Stack I	HtParameter	Permissib	A	PCD
No		m		le Limits		
	East Side	m		le Limits		
		m 15	PM	le Limits 150	Alkali & Wate	er Scrubber
	East Side	1	PM		Alkali & Wate	er Scrubber
	East Side New Phosgene	1	PM CO	150	Alkali & Wate Alkali & Wate	
	East Side New Phosgene plant-Furnace	15		150 mg <i>/</i> Nm3		
Atul 1 2	East Side New Phosgene plant-Furnace New Phosgene	15	СО	150 mg/Nm3 		
Atul 1 2 Caus	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor	15	СО	150 mg/Nm3 		er Scrubber
Atul 1 2	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant	15 15	CO phosgene	150 mg/Nm3 0.1 ppm	Alkali & W ate	er Scrubber
Atul 1 2 Caus	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination	15 15	CO phosgene CI 2	150 mg/Nm3 0.1 ppm 9mg/Nm3	Alkali & W ate	er Scrubber Der
Atul 1 2 Caus 3	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit)	15 15 35	CO phosgene CI 2 HCI	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3	Alkali & Wate Alkali Scrubb Alkali Scrubb	er Scrubber Der
Atul 1 2 Caus 3 4	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCl Sigri unit	15 15 35	CO phosgene CI 2 HCI CI 2	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3	Alkali & Wate Alkali Scrubb Alkali Scrubb	er Scrubber Der
Atul 1 2 Caus 3 4	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCl Sigri unit 1& 2	15 15 35 25	CO phosgene CI 2 HCI CI 2	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3	Alkali & Wate Alkali Scrubb Alkali Scrubb	er Scrubber Der
Atul 1 2 Caus 3 4	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCI Sigri unit 1& 2 uric Acid (East Side)	15 15 35 25	CO phosgene CI 2 HCI CI 2 HCI	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3	Alkali & Wate	er Scrubber ver
Atul 1 2 Caus 3 4 Sulfu 5	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCI Sigri unit 1& 2 uric Acid (East Side)	15 15 35 25 30	CO phosgene CI 2 HCI CI 2 HCI HCI	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3	Alkali & Wate	er Scrubber ver
Atul 1 2 Caus 3 4	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor Stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCI Sigri unit 1& 2 Iric Acid (East Side) Sulfuric Acid plant	15 15 35 25 30	CO phosgene CI 2 HCI CI 2 HCI SO2 Acid Mist	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3 20mg/Nm3	Alkali & Wate	er Scrubber ver ver
Atul 1 2 Caus 3 4 Sulfu 5 6	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCI Sigri unit 1& 2 uric Acid (East Side) Sulfuric Acid plant Chloro Sulfonic	15 15 35 25 30	CO phosgene CI 2 HCI CI 2 HCI SO2 Acid Mist CI 2	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3 20mg/Nm3 50mg/Nm3 9mg/Nm3	Alkali & Wate	er Scrubber ver ver
Atul 1 2 Caus 3 4 Sulfu 5 6	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCI Sigri unit 1& 2 Iric Acid (East Side) Sulfuric Acid plant Chloro Sulfonic Acidplant reactor	15 15 35 25 30 11	CO phosgene CI 2 HCI CI 2 HCI SO2 Acid Mist CI 2	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3 20mg/Nm3 9mg/Nm3 9mg/Nm3	Alkali & Wate	er Scrubber ber ber ober With DC Water Scrubber
Atul 1 2 Caus 3 4 Sulfu 5 6	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCl Sigri unit 1& 2 uric Acid (East Side) Sulfuric Acid plant Chloro Sulfonic Acidplant reactor plant	15 15 35 25 30 11	CO phosgene CI 2 HCI CI 2 HCI SO2 Acid Mist CI 2 HCI	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3 20mg/Nm3 9mg/Nm3 9mg/Nm3	Alkali & Wate Alkali Scrubb Alkali Scrubb Alkali Scrubb System Caustic And	er Scrubber ber ber ober With DC Water Scrubber
Atul 1 2 Caus 3 4 Sulfu 5 6 FCB 7	East Side New Phosgene plant-Furnace New Phosgene plant - Reactor stic Chlorine Plant Dechlorination Plant(Hypo unit) Common Stack of HCl Sigri unit 1& 2 uric Acid (East Side) Sulfuric Acid plant Chloro Sulfonic Acidplant reactor plant	15 15 35 25 30 11	CO phosgene CI 2 HCI CI 2 HCI SO2 Acid Mist CI 2 HCI SO2	150 mg/Nm3 0.1 ppm 9mg/Nm3 20mg/Nm3 9mg/Nm3 20mg/Nm3 20mg/Nm3 9mg/Nm3 9mg/Nm3 20mg/Nm3	Alkali & Wate Alkali Scrubb Alkali Scrubb Alkali Scrubb System Caustic And	er Scrubber ber ber ober With DC Water Scrubber

			600	40 ** -	1
		40	SO2	40mg/Nm3	
			NOx	25mg/Nm3	
NI Plo		1			
g	Foul Gas	26.5	SO2	-	Caustic scrubber
	Scrubber		NOx	25mg/Nm3	
NBD	Plant				
10	Spray Dryer	21	РМ	150mg/Nm	water scrubber
10			NOx	25mg/Nm3	
11	Scrubber S-902	25	Phosgene	0.1 ppm	Caustic scrubber
12	Scrubber S-	25	HCI	20mg/Nm3	Caustic scrubber
	801/802		NOx	25mg/Nm3	
2-4-D	& related Produc	ts			1
	Common	5	CI2	9mg/Nm3	Caustic scrubber
13	Scrubber; 2,4D		HCI	20mg/Nm3	
	Plant		Phenol		
14	Dryer-1	26.5		20ma/Nm3	Bag Filter, Water Scrubber
	Dryer-2			J	Cyclone, Bag Filter, Caustic
	Dryer-3		PM with Pesticide		scrubber
	Dryer-4		compound		
	Dryer-5				
	Plant				
	Phosgene	7	Phosgene	0.1 ppm	Caustic scrubber
10	Scrubber at MPSL	,	rnoogene	or ppm	
20	Central Scrubber	7	Phosgene	0.1 ppm	Caustic scrubber
20	at MPSL	,	rnoogene	or ppm	
	Plant				
-	Central scrubber	12	Acetonitrile		water scrubber
21	at Nico Plant	12	Acelonitine		
Pacar	cinol Plant				
	Spray dryer	20	PM	150mg/N	water scrubber
22	spidy dryer	20	T IVI	M3	
23	Scrubber vent	15	SO2		Caustic scrubber
23					
~ 4	Scrubber at	12	Formaldehyde	10mg/Nm3	water scrubber
24	Ester plant for				
	Glyphosate				
Other 25	МСРА	19	CL2	9 mg/NM3	Alkali& Water Scrubber
25		13	HCI	5	
				20mg/NM3	
20	Circument'	10	SO2	40mg/NM3	
26	Fipronil	19	SO2		Alkali& Water Scrubber
			HCI	20mg/Nm3	
27	Imidacloprid	20	NH3	175mg/N	Water & Acid Scrubber
<u> </u>				m3	
28	Pyrathroids	19	SO2	40mg/Nm3	Alkali & Water Scrubber

			HCI	20mg/Nm3	
29	Stack at Amine	5	NH3	175Mg/N	Caustic Scrubber
	Plant			m3	
30	Central Scrubber	19	HCI	20mg/Nm3	Caustic Scrubber
	MCPA Plant				
31	MPP plant	21	HCI	20mg/Nm3	Water & Alkali Scrubber
	scrubber		Phosgene	0.1 ppm	

32	Flavors & Fragrances Plant	21	HCI	20mg/NM3	Water Scrubber Followed By Caustic Scrubber
33	Sulphur Black Plant	19	H2S NH3	 175 mg/NM3	Alkali & W ater Scrubber
34	Sulphur Dyes plant	19	H2S NH3	 175mg/NM3	Alkali& Water Scrubber
	plant			West Site	
35	Shed	19	CI2	9 mg/NM3	Caustic Scrubber
	A05/03/44		HCI	20 mg/NM3	
36	Shed	19	CI2	9 mg/NM3	Caustic Scrubber
	B2/12/24 Reaction Vessel		HCI	20 mg/NM3	
37	Shed	19	SO2	40 mg/NM3	Caustic Scrubber
	B18/02/24	тJ	CI2	9.0mg/Nm3	
	Fan	-	HCI	20 mg/Nm3	-
38	Shed	19	CI2	-	Alkali& Water Scrubber
50	C5/20/15 Chlorinator	10	HCI	20 mg/NM3	
39	Shed D Niro Spray dryerNo.45	19	PM	150mg/NM3	W ater Scrubber
40	Shed D Niro Spray dryer No. 50	19	PM	150mg/NM3	W ater Scrubber
41	Shed E 7/12/49 Spray Dryer	19	PM	150mg/NM3	Water Scrubber
	Shed F 6/1/15		CI2	9 mg/NM3	Alkali& Water Scrubber
42	Reaction Vessel	19	HCI	20 mg/NM3	
	Shed G		CI2	9 mg/NM3	Alkali& Water Scrubber
43	10/8/1 (receiver)	19	HCI	20 mg/NM3	
	Shed		CI2	9 mg/NM3	Alkali& Water Scrubber
44	H11/6/17 Chlorinator	19	HCI	20 mg/NM3	
	Shed K K-	19	SO2	2 kg/T	Alkali& Water Scrubber
45	13/3/4 Final of Sulfuric acid plant		Acid Mist	50 mg/NM3	
46	Shed	19	HBr		Alkali& Water Scrubber

	J15/09/25		SO2	40 mg/NM3]
	Shed	19	SO2	40mg/NM3	Alkali & Water Scrubber
	J12/01/42		CI 2	9.0mg/Nm3	
			HCI	20 mg/Nm3	
	Shed J12/03/36	19	SO2	40 mg/NM3	Caustic Scrubber
	Shed N	19	CI2	9 mg/NM3	Caustic Scrubber
	Scrubber Fan N20/08/24		HCI	20mg/Nm3	
50	Shed-N	19	SO2	40mg/NM3	Alkali& Water Scrubber
	N-FDH Plant Catalytic	31.5	РМ	150mg/Nm3	Bag Filter
	Incinerator		SO2	40mg/Nm3	
			NOx	25mg/Nm3	
			Formaldehyde	10mg/Nm3	
	PHIN Plant	15.5	Phosgene	0.1 ppm	Water Scrubber Followed By Two Stage Caustic Scrubber With Ammonia/Steam Injection At stack
	DDS (Pharma Plant)	20	NH3	175mg/Nm3	Water Followed By Acid Scrubber
54	SPIC II Plant (DCDPS)	30	SO3		Alkali & Water Scrubber
55	SPIC I Plant	30	NH3	175mg/Nm3	Water Scrubber Followed By Two Stage Caustic Scrubber With Ammonia/Steam Injection At Stack
56	SPIC IV Plant	2	NH3	175mg/Nm3	Alkali & Water Scrubber
		2	SO3		
57	PHIN II Plant	21	HCI	20mg/Nm3	Water Scrubber Followed By
			phosgene	0.1 ppm	Two Stage Caustic Scrubber With Ammonia/Steam injection At Stack

- 1	vi) Solvent	
	management shall	
	be carried out as	
ł	follows.	
	a) Reactor shall	Complied.
	be connectedto	
	chilled brine	Condensers with chilling systems are provided at point of Solvent recovery to
	condenser	minimized vapor loss as shown below:-
	system.	
		a) Condensers at Solvent b)Solvent
		Recovery Recovery
	b) Reactor and solvent	Complied.
	handling pump	M/s. Atul Limited has provided seals at all Reactors and pump's in order to
	shall have mechanical	prevent leakage as shown below:-
	seals to	
	prevent leakages.	

a) Seal at Stirrer

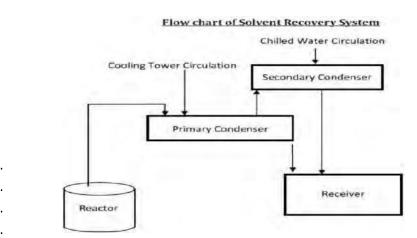
b) Pump Seal

Complied.

c) The condensers shall be provided with sufficient HTA and residence time so as to achieve More than 95% recovery.

Spent solvents are recovered as far as possible as per details given below and all venting equipment are provided with condenser system & scrubber provided with Sufficient Heat Transfer Area (HTA) which helps to achieved more than 95% recovery. The detailed report are as below:-

S.N.	Solvent	Qty. in MT									
	used	Qty.	Qty.	Qty.	% Recovery						
		Used	Recover	Loss							
1	loluene	2577	2562	14.50	99.4						
2	Xylene	46135	43825	2310	95.3						
3	Butyl Acetate	41238	40454	784	98.1						
4	EDC	57850	55536	2314	96.2						



 VOC Trap Condenser -02: Chilled water at -15 ^oC is be used to trap any traces of Solvent which is slipped from Secondary condenser

MEASURES:

To prevent losses of these solvents in atmosphere, following infrastructure shall be used:

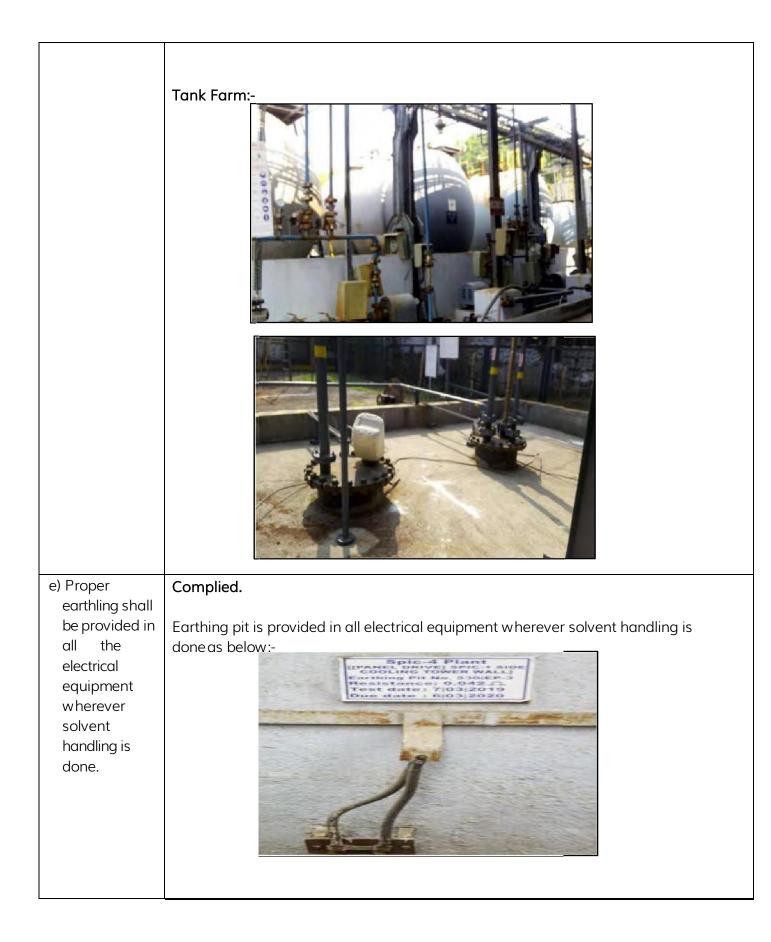
Leak Free Pumps for transfer of solvents.

MSW Gaskets in solvent pipelines to prevent leakage from flanges.

- $\cdot\;$ Minimum number of flanges, joints and valves in pipelines.
- To eliminate chances of leakages from glands of pumps, mechanical seal will be provided at all solvent pumps.
- All the rotating equipment like pumps will be installed with Mechanical Seals to arrest any sort of emissions.

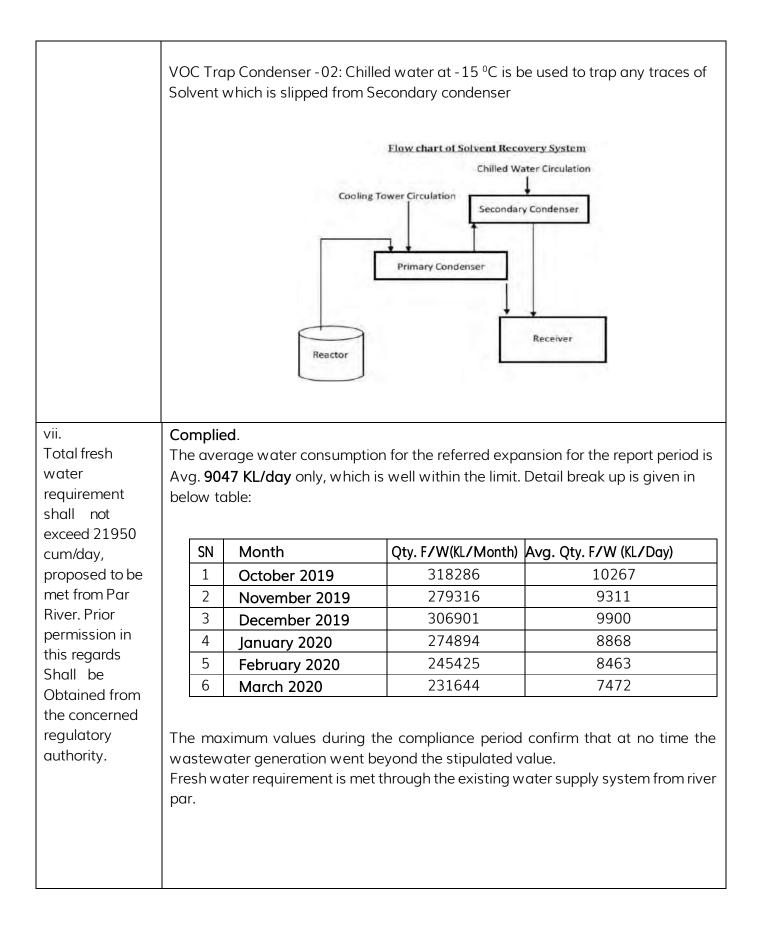
d) Solvents shall be stored in a	Cor	mplied.										
separate space specified with all safety measures.	We have made separate provision for solvent storage & is installed as per PESO regulation wherever applicable with all details of Storage area, operating temperature and pressure, types of possible hazards and control measures.											
	Details For Solvent Storage is as follows:-											
			Quantit	-		State & Type of Control measures						
		Hazardous substance	Max. Qty can be stored	Qty Store d	Storage	Operating Pressure & Temp	hazard	provided				
	1	Methanol (Group 5 - 2)	470 MT	350 MT	Methanol Storage Tank Farm	Liquid at RT atmos. pressur e	Fire	Flame arrester, earthing dyke wall to over ground Tank fire water				
	2	Phenol	180+ 60MT		PH-11 Anisole tank farm	Temp- Ambient	Toxic spill	Dyke wall with valve, which do not allow liquid spill to go to normal drain. PVC suit, washing facility, SOP, etc.				
	3	Benzene	180 MT	100 MT	Resorcinol	Liquid at RT atmos. pressure	Fire	Isolated storage, FLP, Flam arrester, Breather valve, Ll, Fire hydrant, sand etc.				
	4	Xylene	60		MPSL- NICO Plant	Atmosph eric Normal Temp.	Fire	Dyke wall, Fire hydrant line, FLP, Spark arrester, Prohibited for vehicle movement &unauthorized person.				
	5	Phenol 98% solution	200 MT		Near Bisphenol plant	Liquid at RT atmos.	Toxic spill	Dyke wall water spraying & washing				

6	Methanol	650	50 M2	Methanol	Pressur e Liquid at	Fire &	facilities PEG 400 as antidote. Isolated
0	methanor	M3		farm north site.	RT, atmos. Pressure	Toxic spill	storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
7	Toluene	40 m3	30 m3	Phin& PO plant	Liquid at RT, atmos. Pressur e	Fire	Isolated storage, FLP, Flam arrester, Breather valve, LI, Fire hydrant, sand etc.
8	Toluene	120 KL	100 KL	Shed C	Atmo. Press and temp.	Fire &Che mical spilla ge	Underground tank, prohibited are, FLP, foam trolley etc.
9	Ethanol <i>I</i> Methanol	51 KL	40 KL	Shed N & A	Atmo. Press and temp.	Gas leaka ge, Spill	Respirators, Dry Sand, Dyke wall, spare tank
10	MCB	105 MT	100 Kl	Shed C	Atmo. Press and temp.	Fire &Che mical spilla ge	Underground tank, prohibited are, FLP, foam trolley etc.
11	Formaldeh yde 37 to 43 %	120 0 MT	600 MT	Storage Tank Opp. UF plant, FDH Plant & Nr. UF Plant	Liquid at RT, atm. press.	Toxic spill	Water spraying facilities L.I. Empty space for emergency transfer



f) Entire plant	Complied.
shall be flame	
proof. The	Entire plant is flame proof installations, Storage tanks are provided with breather valve
solvent	for all prevention of losses. M/s. Atul Limited has made separate provision for solvent
storage tanks	storage & is installed as per PESO regulation wherever applicable with all details of
shall be	Storage area, operating temperature and pressure, types of possible hazards and
provided with	control measures.
breather	
valve to	Details For Solvent Storage Is given in above point vi d.
prevent	
losses.	

g) All the solvent	Complied.
storage tanks	
shall be	All the solvent storage tanks are being connected with condensers & chilled water
connected	circulation, Spent solvents are recovered as far as possible and all venting
with vent	equipments are provided with condenser system & scrubber.
condensers	
with chilled	VOC MITIGATION MEASURES:
brine	To prevent losses of these solvents in atmosphere, following infrastructure shall be
circulation.	used:
	 Leak Free Pumps for transfer of solvents.
	MSW Gaskets in solvent pipelines to prevent leakage from flanges.
	 Minimum number of flanges, joints and valves in pipelines.
	 To eliminate chances of leakages from glands of pumps,
	mechanical seal will be provided at all solvent pumps.
	\cdot All the rotating equipments like pumps will be installed with Mechanical
	Seals to arrest any sort of emissions.
	 Condenser and scrubber post Reactor with cooling arrangement.
	\cdot Enclosures to chemical storage area, collection of emission from loading of
	raw materials in particular solvents through hoods and ducts by induced
	draft, and control by scrubber / dust collector to be ensured.
	\cdot In case the small spillage or leakage observed, first pour the china clay
	(vermiculate) on material and collect the contaminated china clay
	(vermiculate) and send to ETP.
	If the spillage is of inflammable liquid, switch off all the power supply in the
	area to prevent Electric Spark.
	\cdot Two condensers are installed with cooling water and chilled water to recover the
	solvent.
	Primary Condenser -01: Cooling Tower water or Chilled water at 5 °C is used to
	condense the solvents depend on the vapor pressure at its operating conditions
	and the non-condensed vapors will be condensed in a Secondary Condenser.



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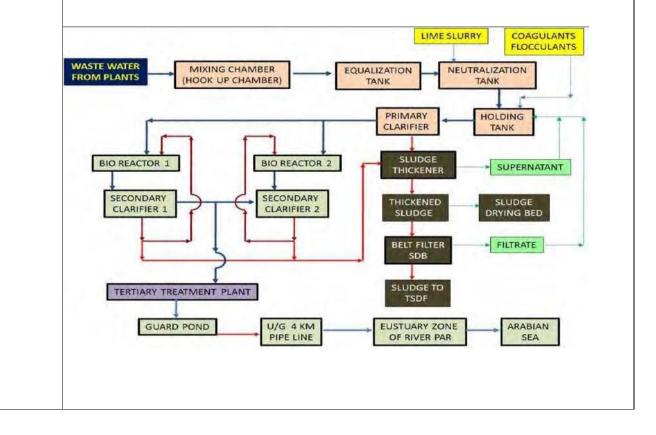
viii.		mplied										
Industrial/		Industrial/trade effluent is being segregated as shown below into High TDS/COD & Low										
trade		TDS/COD. High COD/TDS stream is subjected to MEE and ATFD. Low TDS/COD stream										
effluent		is treated in in-house Effluent Treatment Plant and discharged as per stipulated norms.										
shall be		It's not exceeding then prescribed limit of EC & CCA. The average wastewater generation										
segregated	for	for the report period (last six month – October 2019 to March 2020) is as under:										
into High												
COD/TDS												
and Low				Break	up of effluent	KI/Day						
COD/TDS				High	Low	Total						
Effluent		Sr	Month	TDS/CO	TDS/CO	Effluent						
streams.		No		TDS/COD	D	generation						
High		1	October-19	153	9260	9413						
TDS/COD shall be		2	November-19	140	8429	8569						
passed		3	December-19	8993	9105							
through		4	January-20	143	8081	8224						
stripper		5	February-20	149	7625	7775						
followed by MEE and		6	March-20	135	6740	6875						
ATFD. Low												
TDS												
effluent												
stream shall												
Be treated												
in ETP/ROto												
meet the												
prescribed												
standards.												

The maximum values during the compliance period confirm that at no time the wastewater generation went beyond the stipulated value.

Entire quantity of waste water is being utilized in ash quenching, coal storage yard to attend coal smoldering, dust suppression, fire hydrant make up, Gardening plants floor cleaning.

Effluent Treatment Plant, MEE:-





Prescribed Standards: The W aste W ater analysis at ETP outlet is monitored at regular interval for ensuring the compliance. The testing lab appointed is M/s. Pollucon Laboratories Pvt Ltd, Surat NABL Approved **TC – 5945**, issue date-**28/05/2019** and valid till **27/05/2021**.

Monitoring details of final effluent discharged are as follows:-

S.N O	PARAMETER	UNIT	LIMIT	Values for the period Oct 19- Mar20				
				Min	Max	Avg		
1	рН		5.5-9.0	6.23	8.19	7.19		
2	Temperature	°C	40	30.1	31.8	31.09		
3	Colour	Co- pt		78	140	92.86		
4	Suspended solids	mg/L	100	62	98	79.57		
5	Phenolic Compounds	mg/L	5	0.039	0.088	0.05		
6	Cyanides	mg/L	0.2	ND	ND	ND		
7	Fluorides	mg/L	2	0.62	0.75	0.69		
8	Sulphides	mg/L	2	0.9	1.8	1.23		
9	Ammonical Nitrogen	mg/L	50	34	48	41.00		
10	Total Chromium	mg/L	2	ND	ND	ND		
11	Hexavalent Chromium	mg/L	1	ND	ND	ND		
12	BOD (3 days at 27°C)	mg/L	100	57	78	64.29		
13	COD	mg/L	250	205	240	218.29		

ix.	Complied.
Process	Process effluent/any wastewater are being discharged to estuary of Par river through the
effluent/any	existing pipeline at M/s. Atul Limited and are not mixed with storm water line.
wastewater	
shall not be	The generated wastewater is Segregated in Streams of High and Low TDS/COD. The high
allowed to	COD streams (COD >50000 ppm) is being taken for recovery to get economic benefit. Rest
Mix with storm water.	lean effluent of COD < 2000 ppm is finally sent to ETP for treatment. All the high COD
The storm	streams are being diverted to recovery system rather than incineration. The high TDS
water from	effluent is evaporated in MEE.
the premises	Rooftop rain water from Coal sheds and New TG building is collected in well-constructed
shall be	pond and used as make up water for cooling tower after giving necessary pre-treatment
collected	to remove suspended matter as we have pumped this rain water to clarifloculator units to
and	remove suspended matter.
discharged	
through a	W e have three numbers of check dams in natural storm water drains to collect and harvest
separate	rain water in monsoon season. We are creating facility/capacity to cater our consumption
Conveyance	with rain harvested water with almost zero river drawls of water during the rainy days.
system.	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

x) Hazardous	Complied.										
chemicals shall be stored in	All Hazardous materials other than solvent are stored as per below mentioned details with Control Measures;										
tanks, tank farms, drums,	SNName of RM	MOC	Tank Type	Nos of Tank	Capaci ty	Control Measures Provided					
carboys etc. Flame arresters shall be provided on tank farm, andsolvent	1 65% Oleum	MS, IS- 2825		2	65 MT	Dyke wall with valve, do not allow the spill to mix with water, vent with Acid seal, spare storage tank for emergency transfer, Dry sand beds for spill Control, tank level meter.					
transfer through pumps.	2 Chlorine	CS	Above ground	4	200	Two standby tank, DCS controlling, Hypo scrubbing, SCBA, Emergency chlorine kit & hood blower etc.					
	3 Epichloro- hydrin	MS	Above ground	6	55 M3	Flame arrester earthing, dyke wall with valve which do not allow liquid spill to go to normal drain.					
	4 Sulphur Trioxide (Group 2)	MS	Above ground	2	13 MT	Dyke wall with valve, with valve do not allow the spill to mix with water, vent with Acid seal, spare storage tank for emergency transfer					
	5 Ammonia Anhydrou s	MS	Above ground	1	10	High Alarm switch Water sprinkler, Fog Nozzles, Dyke wall					
	6 65% Oleum	MS	Above ground	2	72	Respirators, Dry Sand, Dyke wall, Spare tank, High alarm switch					
	7 Caustic	MS	Above ground	4	530 MT	Dyke wall, LI & LT, DCS controlling etc.					
	8 Hydrogen	MS	Above ground	1	100 nm3	Prohibited for men & vehicle movement, Isolated storage, FLP , Flam arrester, PG & PT, Fire hydrant, 7 Fire extinguisher etc.					
	9 Chloro Sulphonic Acid	SS 316	ground	4	30	Respirators, Dry Sand, Dyke wall, spare tank					
	10 Sulfuric acid	MS	ground	4	800	Emergency tank, Dyke wall, LT, DCS controlling, Level alarm etc.					
	11 liq. SO3,	MS	Above ground	3	40 MT	Emergency tank, LT & LI, DCS controlling, Level alarm etc.					

12 HCL	PP FRP	Above ground	3	200 KL	Dyke wall, LI & LT, DCS controlling etc.
Mitigation Measures as per risk assessment report:- 1. Secondary Containment to all storage areas of Hazardous materials with leakage collection system is provided.					
2. Spill kits are made available at all locations of hazardous materials.3. Fire hydrant system is provided at Hazardous materials storage area.					

xi.	Complied.
Process organic	
residue and	We have obtained necessary authorization for Hazardous and other waste by
spent carbon, if	obtaining Amendment in Existing CTO after receiving EC.
any, shall be	
Sent to cement	CTO amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-
industries.	313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO amendment No. AH 102080),
ETP sludge,	Valid Till- 03/11/2019. Renewal for the same has been received with consent order
process	no. 105110 valid up to 30.09. 2025.
inorganic	
& evaporation	Copy of CTE and CTO was submitted to Ministry vide our letter Atul/SHE/MoEF dated
salt shall be	19.12.2019
disposed off to	
the TSDF.	
xii.	Complied.
The Company	
shall strictly	W e are complying all the rules and regulation led by MSIHC, 1989. W e are complying
comply with the	with Hazardous and Other Wastes (Managements and transboundary Movement)
rules and	Rules, 2016 towards ETP Sludge, Used Oil & Empty Drums- Handling, and Storage
guidelines under	& Disposal to authorized Facility/TSDF. We have obtained necessary authorization
Manufacture,	for Hazardous and other waste by obtaining Amendment in Existing CTO after
Storage and	receiving EC. CTO amendment has been granted by GPCB Vide Letter No.
Import of	GPCB/CCA-VSD-313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO
Hazardous	amendment No. AH 102080), Valid Till-03/11/2019. Renewals for the same has
Chemicals	been received vide consent order no. 105110 valid up to 30.09. 2025.
(MSIHC)	Company has obtained TSDF memberships from his own TSDF & Incineration
Rules,1989 as amended time to	Facility. Company has also obtained membership from Co-Processing Facilities i.e.
	RSPL & Cement Industry (Ambuja Cement).
time. All	
transportation	
of Hazardous	
Chemicals shall	
be as per the	
Motor Vehicle	
Act, 1989.	
πc_{1} 1003.	

CONDITIONS	COMPLIANCE
 4. Responsibilities of the occupier for management of hazardous and other wastes. (1) For the management of hazardous and other wastes, an occupier shall follow the following steps, namely:- (a) prevention; (b) minimization; (c) reuse, 	1) Complied. We are using advanced technology and processes to minimization of waste generation for prevention, reuse recycling and safe disposal to the
 (d) recycling; (e) recovery, utilization including co- processing; (f) safe disposal. (2) The occupier shall be responsible for safe 	authorized actual user TSDF /CHW IF facility. 2)Complied.
and environmentally sound management of hazardous and other wastes.	We are ensuring for safe and environmentally sound management of hazardous and other wastes.
 (3) The hazardous and other wastes generated in the establishment of an occupier shall be sent or sold to an authorized actual user or shall be disposed of in an authorized disposal facility. (4) The hazardous and other wastes shall be transported from an occupier's establishment to an authorized actual user or to an authorized disposal facility in accordance with the provisions of these rules. 	 3)Complied. W e have our own captive TSDF and Incinerator facility. 4) Noted &Complied.
(5) The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.	5)Complied. We are having separate hazardous waste storage facility with all safety measures to avoid accident. Also we are adopting safe disposal and storage practices.
 (6) The occupier shall take all the steps while managing hazardous and other waste to- (a) contain contaminants and prevent accidents and limit their consequences on human beings and theenvironment; and (b) Provide persons working in the site with 	6) Complied.

appropriate training, equipment and the information necessary to ensure their safety.	
6. Grant of authorization for managing hazardous and other wastes.	Complied. We are strictly agreeing, complying & will continue to comply with all the stipulations made by GPCB as per CC & A Letter No. GPCB/CCA-VSD- 313(16)/ID: 23158/513897, Dated 17.7.2019 (CTO amendment No. AH 102080), Valid Till 03/11/2019. Renewal for the same has been received CCA (No. AWH 105110 valid till 30.9.25).

7. Power to suspend or cancel an	Not Applicable
authorization.	
8. Storage of hazardous and other wastes	Complied
9. Utilization of hazardous and other	Complied.
wastes	Recovered Spent Solvent are being
	reused. Used Oil & Discarded drums
	are being sent to authorize recycler.
10. Standard Operating Procedure or	Noted.
guidelines for actual users	
11. Import and export (transboundary	Not Applicable
movement) of hazardous and other wastes.	
12. Strategy for Import and export of	Not Applicable
hazardous and other wastes.	
13. Procedure for import of hazardous and	Not Applicable
other wastes.	
14. Procedure for Export of hazardous and	Not Applicable
other wastes from India	
15. Illegal traffic.	Not Applicable
16. Treatment, storage and disposal facility	Complied. We have our own captive
for hazardous and other wastes.	TSDF and Incinerator. We also send
	waste to Authorized facility as per the
	valid authorization.
17. Packaging and Labeling – Form 8	Complied.
	All hazardous Waste transportation is
	being done through appropriate
	packing and labeling as per Form-8.
18. Transportation of hazardous and other	Complied.
wastes	Waste is being transported through
	TREM Card as per Haz. Rules.
19. Manifest system (Movement	Complied. We are sending waste
Document) for hazardous and other waste	through Online Manifest system of
to be used within the country only	GPCB XGN.
20. Records and returns	Complied.
	We are maintaining & submitting all
	records like Form-III, Form-IV &
	Environment Statement Form-V
	periodically to GPCB.
21. Responsibility of authorities The	Noted
authority specified in column (2) of	
Schedule VII shall perform the duties as	
specified in column (3) of the said Schedule	
subject to the provisions of these rules.	
subject to the provisions of these fulles.	

22. Accident reporting. Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 1.	No accidents were reported during OCtober2019 to March 2020 period during handling and transportation of hazardous or other wastes.		
23. Liability of occupier, importer or exporter and operator of a disposal facility.			
(1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste.	Noted.		
(2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.	Noted.		

	24. Appeal								
	 (1) Any person (1) Any person suspension authorization Pollution Control Pollution Control thirty days from thirty days from thirt	or ca or its re- ntrol Boo rom the ed to hir Appella Secre ellate A expiry of d that the se from peal file within a	ncellatio enewal p ard may, date on m, prefer te Auth tary o uthority the said e appella filing the d under	n or bassed k within an appe nority, n f the may en period o nt was p appeal i this rule	refusal by the Sta a period the order al in Form amely, t State. State. thirty da revented n time. e shall	of ate of is he he ys, by be	d & Com	plied	
xiii. Fly ash should be stored separately as per CPCB guidelines so that it should	Complied. We have not constructed ash pond for the CPP unit. We have closed three silo of 200 MT and Two silo of 300 MT capacity of each, total 1200 MT capacity, which is well enough for our average generation of approx. 300 TPD. We dispatch the fly ash daily from these silos so we have not prepare ash pond. Fly ash / bottom ash generation data for period (October-2019 to March – 2020) as shown below table:								
not adversely	Fly Ash	Unit		Nov 19		Jan 20	Feb 20	Mar 20]
affect the air	Generation	MT	4765	4848	4712	5170	5188	4985	1
quality, becoming air	Disposal		4765	4848	4712	5170	5188	4985	1
borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be									

xiv

The company shall undertake waste minimization measures as below:a) Metering and control of quantities of active ingredients to minimize waste.

Complied.

Metering of water is done. Meter is provided at the inlet of the collection tank and reuse system of waste water and records are being maintained.

Photograph of water meter shown below:

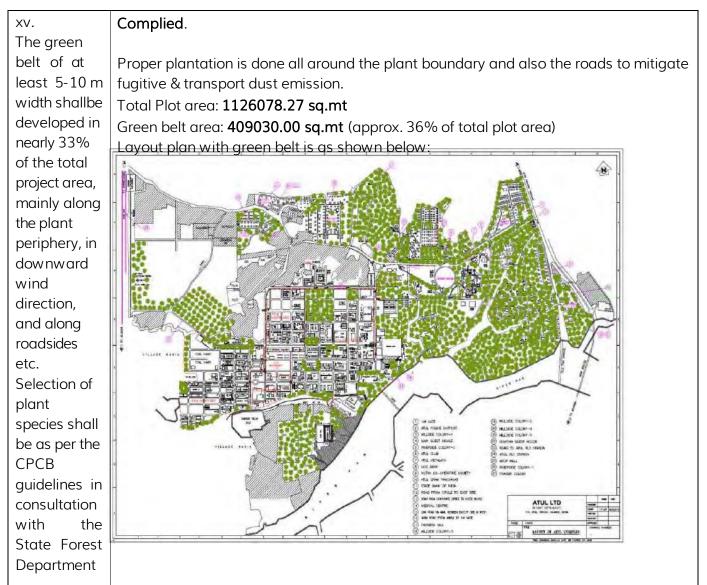


Month wise water consumption, waste water generation and reuse data are

sł	shown below table:		Water	Waste water generation		
	S	Month	consumption	(KL/Month)		
	Ν		(KL/Mont			
			h)			
	1	October 19	318286	291813		
	2	November19	279316	257071		
	3	December 19	306901	282245		
	4	January 20	274894	254951		
	5	February 20	245425	225463		
	6	March 20	231644	213113		

We are reusing 100% treated water in ash quenching , coal storage yard to attend coal smoldering, dust suppression, fire hydrant make up, Gardening plants & floor cleaning.

b)	Reuse of by-	Sodium Sulfate, Sodium Thio Sulphate, Brine, MEE salt, Sodium hypochlorite,
D)	-	Copper Hydroxide, spent acid, etc. are few by-products from the process which are
	•	
		being sold for using the same either as raw material or as substitute to raw
	•	materials. Also, fly ash and Gypsum are being used as raw material for Brick
		Manufacturing. Sodium Hypochlorite, Sodium hydro sulfide, etc. are being used as
		raw material in other processes.
	as raw	
	material	
	substitutes in	
	other	
	processes.	
C)	Use of	Filling/transfer system is being provided to minimized the spillage i.e. Chain
	automated	conveyor system provided.
	filling to	
	minimize	
	spillage.	
d)	Use of Close	"Close feed system" is available to our plant.
	Feed system	
	into batch	
	reactors.	
e) V	'enting	At all venting equipment condenser recovery system & scrubbers are provided.
е	quipment	
t	hrough	
V	apour	
r	ecovery	
S	ystem.	
f) l	Jse of high	We are using high pressure jet nozzle for equipment cleaning to minimize
	pressure hoses	wastewater generation.
	for equipment	
	clearing to	
	reduce	
	wastewater	
	generation.	



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



xvi.	Complied.
All the commitment	All the issued raised during public hearing were replied satisfactorily. Towards
ts made	commitment company has been satisfactorily implementing CER/CSR as per the action plan / schedule; details given in next point xvii. Of compliance report.
regarding	
issues raised	Commitment towards coal transportation in Covered truck is complied. Now coal
during the	transportation is being done 100% in closed / covered mechanical trucks.
public hearing/	Towards apployment of local Atul 1 to 16 consistent in hiring local as par the aligibility (
consultation	Towards employment of local Atul Ltd. Is consistent in hiring local as per the eligibility / educational cretier.80% of Total Employees are from local.
meeting shall	
be	
satisfactorily	
implemented.	

funds allocation	CSR projects (April 2019 to March 2020):									
for the Corporate Environment Responsibility(CER)	S.N	Description	Location	Final Implementing Agency	Budget from Apr 19 to Mar 20	Expendit ure				
shall be 2% of the total project cost. Item- wise details along with time	1	Enhancement of education practices in Kalyani Shala	Atul, Valsad (Gujarat)	AFT Atul Kelavani Mandal	38.60	38.60				
bound action plan shall be prepared and submitted to the Ministry's	2	Support to tribal children in Atul Vidyamandir	Pardi, Valsad (Gujarat)	AFT Atul Vidyalaya Trust	6.00	6.00				
Regional Office.	3	Improveme nt of teaching methodolog y in primary schools Adhyapika Project	91 villages, Valsad (Gujarat)	AFT ARDF	48.00	48.00				
	4	Enhanceme nt of rural education	20 villages, Valsad (Gujarat)	AFT ARDF	10.97	10.97				
	5	Promotion of educational facilities in an ashram shala	Pardi, Valsad (Gujarat	AFT Shree Vallabh Seva Kendra	3.00	3.00				
	6	Conservation of manuscripts	Ahmeda bad (Gujarat)	AFT L D Bhartiya Sanskruti Vidyamandir	40.00	40.00				
	7	Contribution towards publication of books on Indian culture ecology	Jaipur (Rajastha n)	AFT Prakrit Bharati Academy	5.00	5.00				

		a bilo o o o by (
	8	philosophy				
	8	Support to	Chondha,	AFT	ГОО	F 00
		develop a	Navsari		5.00	5.00
		school in a	(Gujarat)			
		tribal area				
	9	Conduct		AFT Vikram A		
		science	Sabarkan	Sarabhai	3.00	3.00
		workshops	tha	Community		
		for rural	(Gujarat)	Science Centre		
		teachers				
	10	Support	Valsad	AFT		
		needy	(Gujarat)		2.70	2.70
		children				
		with				
		educational				
		kits				
	11	Capacity	Atul,	AFT		
		building of	Valsad		0.94	0.94
		teachers	(Gujarat)			
		through				
		training				
	12	Introductio	Pardi,	AFT		
		n of digital	Valsad	Swadhyay	4.50	4.50
		education	(Gujarat)	Mandal		
		at Sanskrit				
		Mahavidyal				
		aya				
	13	Support		AFT Osmosis		
		children	Bharuch	Play Centre and	2.00	2.00
		with special	(Gujarat)	Educational		
		needs		Games Library		
	14	Empowerm				
		ent of	Atul,	AFT ARDF	13.48	13.48
		women	Valsad			
		through	(Gujarat)			
		various				
		vocational				
		training				
		courses				
	15	Skill	Atul,	Atul Ltd	179.25	179.25
		training to	Valsad			
		youth as	(Gujarat)			
		apprentices				
	16	Skill	Valsad			
		developme	(Gujarat)	AFT ARDF	36.20	36.20

Г	r	_			-	1
		nt of youth				
		through				
		vocational				
		training				
	17	Capacity	15	AFT Under		
		building of	villages,	The Mango Tree	1.40	1.40
		tribal	Valsad	Society		
		farmers in	(Gujarat)			
		bee keeping				
	18	Empowerm	six			
		ent of tribal	villages,	AFT	85.00	85.00
		families by	Narmada			
		creating	(Gujarat)			
		home stay				
		facilities				
	19	Create		AFT BAIF		
		livelihood	28	Institute for		
		opportunitie	villages,	Sustainable	66.37	66.37
		s among	Valsad	Livelihoods and		
		tribal	(Gujarat)	Development		
		families by				
		providing				
		COWS				
	20	Develop	Ozarpad			
		micro	a, Valsad	AFT	37.50	37.50
		entrepreneu	(Gujarat)			
		rs to				
		provide				
		sustainable				
		livelihood				
	21	Support	three			
		tribal	villages,	AFT ARDF	1.14	1.14
		farmers by	Valsad			
		providing	(Gujarat)			
		seeds				
	22	Improvement	15			
		of hygiene	villages,	AFT ARDF	32.00	32.00
		through	Valsad			
		construction	(Gujarat)			
		of	-			
		toilets				
	23	Enhancem	35			
		ent of rural	villages,	AFT ARDF	9.79	9.79
		health	Valsad			
		through	(Gujarat)			
	1	anough		1	1	

health	i camps				
24 Upgro n of m	adatio nedical	Laxmipu	AFT Gyan Mandal	15.00	15.00
equipi in a ho	ment ospital	ra, Sabarkan tha (Gujarat)	Laxmipura Group Prerit Arogya Mandal		
25 Provis blood to the needy desert patier	and ted	Bharuch (Gujarat)	AFT Seva Yagna Samiti	2.40	2.40
26 Prom of spc amon youth	orts g rural	Atul, Valsad (Gujarat)	Atul Ltd	11.00	11.00
27 Contri for establ CT sco facility hospit	an / in a	Valsad (Gujarat)	AFT ARDF Kasturba Vaidyakiya Rahat Mandal	10.00	10.00
28 Prom of hec and fit throug mara	ilth tness gh	Atul, Valsad (Gujarat)	AFT ARDF	9.09	9.09
29 Prom of spo in ruro schoo provic sport	orts al Is by ling kits	Valsad (Gujarat)	AFT	6.15	6.15
medic	ance to 1	Atul, Valsad (Gujarat)	AFT ARDF	2.79	2.79
31 Uplift of qua life of pan	lity of	Kharagh oda, Surendra na gar	AFT ARDF	2.70	2.70

32Provision of blood units to thalassemia patientsValsad (Gujarat)AFT Valsad Raktdan Kendra7.007.0033Contribution for advance treatment of cancer patientsKaramsa d, Anand (Gujarat)AFT Charutar Arogya Mandal5.005.0034Contribution for community marriage of underprivilege d couplesAFT Shree Chandramaules hwar Mahadevji Sansthapan Trust Shree Valsad Taluka Patel Samaj Pragati Mandal2.502.5035Support to children e mits special needs ka)Banglor ka)AFT Kasturba Valsad Chardtamadal31.2531.2536Provide financial support to critically ill patientsPulwama (Gujarat)AFT Kasturba Valsad AFT Mathru Foundation31.2531.2537Support to free form kits and kits and kits and subsidisedPutara, Valsad (Gujarat)AFT ARDF3.003.00		workers	(Gujarat)			
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solders Kashmir) Image: Kashmir) 38 Provision of free farm (Free farm (Free farm (Gujarat))) AFT ARDF 3.00 S.00			-	AFT	2.50	2.50
38 Provision of free farm Haria, Valsad AFT ARDF 3.00 3.00 kits and fertilisers at (Gujarat) FT ARDF 1.00 1.00						
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free farm Valsad AFT ARDF 3.00 3.00 kits and (Gujarat) fertilisers at	38	Provision of	Haria,			
kits and (Gujarat) fertilisers at	_			AFT ARDF	3.00	3.00
		kits and	(Gujarat)			
subsidised						
rates to						
farmers 39 Support to	20		Valcad			
39Support toValsaddisaster(Gujarat)AFT ARDF50.0050.0050.00	29				50.00	50.00
relief for				ישאק ייא	50.00	50.00
COVID-19						

	pandemic				
40	Support to families of special children	Valsad (Gujarat)	AFT	19.44	19.44
41	Provision of infrastructu re support for institution building	Chanvai, Valsad (Gujarat)	AFT World Renewal Spiritual Trust	1.50	1.50
42	Renovation of anganwadi infrastructu re (model anganwadi project)	seven villages, Valsad (Gujarat)	AFT ARDF	51.00	51.00
43	Provision of infrastructure support to a crematorium	Atul, Valsad (Gujarat)	AFT Atul Parnadi Muktidham Trust	5.00	5.00
44	Provision of infrastructure support to school	Surwadi, Bharuch (Gujarat)	AFT	4.00	4.00
45	Support to small development activities in nearby villages	Atul, Valsad (Gujarat)	AFT ARDF	0.48	0.48
46	Afforestati on	Atul, Valsad (Gujarat)	Atul Ltd ARDF	5.00	5.00
47	Establishm ent of solid waste manageme nt system in Atul village	Atul, Valsad (Gujarat)	AFT ARDF	30.00	30.00
48	Conservati on of coastal area	Daman (Daman and Diu)	AFT	1.00	1.00

	through cleanliness drive				
49	Plantation of medicinal plants at Kalyani Shala	Atul, Valsad (Gujarat)	AFT	5.51	5.51
		Total		914.35	914.35

XVIII.		plied.						
For the DG sets, emission limits		We ensured that at no time the emission level will go beyond the stipulated standards and or prescribed limits. In such cases / Occurrences we will intimate						
and		•				es are provided on I		
The stack height						alves of Boilers.	Ju seis.	
shall be in	JIIEI	cers nuve been	provided on	muins		uives of Dollers.		
conformity with								
the extant	SN	Stack Details	Capacity/	Para	Permissible	APCD	Fuel	
regulations and			Stack Ht		Limits			
the CPCB			mtr					
guidelines.	1	DG Set 1010	H: 10	РM	150	Adequate Stack	Diesel	
Acoustic		KVA(Standby			mg/Nm3	Ht & Acoustic		
enclosure shall)		SO2	100 ppm	Enclosure		
be				NOx	50 ppm			
provided to DG	2	DG Set 1500	H: 11	РM	150	Adequate Stack	Diesel	
set for		KVA			mg/Nm3	Ht & Acoustic		
controlling		(Stand By)		SO2	100 ppm	Enclosure		
thenoise				NOx	50 ppm			
pollution.								
	Phot	ograph of Stac	k & Stack At	tached	to D.G Sets			
	POCO Indica ne							
Xix The unit shall		plied.	budrant au	tonsia	adaqueta	d ac parataralard		
make the		5		iem is (uuequate and	d as per standards.		
	Fire	hydrant Netwo						
arrangement for	•	Four full fledg Water Storag				npany		

Protection of possible fire hazards during manufacture ng process in material handling. Fire-fighting system shall be as per the norms.	 Total hydrant post/monitors –780 Total length of hydrant line – 15 km Fire Fighting Equipment DCP1350 o CO2 776 Foam : 05Trolly Fire Tenders One fire tender having 1800 Lit water capacity Second multipurpose fire tenders having 5000 Lit water &500Foam Third Multipurpose tender having facility of DCP- 500 Kg, Foam – 500 litand W ater – 4500Lit. SCBA sets – 35nos. Emergency alarm system – 532 nos. points spread across the company Fire station manned round the clock with Siren and Annunciation System. Regular Testing on every Monday Smoke detectors in the office and labs
	 Auto water deluging system at critical reactors Auto water sprinkler system at tank farms
	<image/>

хх Complied. Occupation al Being done on regular basis as per the Factories Act & rules. health Occupational health surveillance of the workers is carried out on a regular basis as surveillance of per section-41 C of the factories act and ruke-68T of Gujarat Factories Rules and the records are maintained. Regular Medical Checkup of all employees are done by inworkers shall house Dr.Vishal Mehta (M.B.B.S), Dr.Suman Patel (M.D. Physician) & Dr.Sandip be done on a Bhandare (M.B.B.S, AFIH) in following manner; regular basis The following medical checkup has been completed; And records Pre-Employment Check-Up (In-house): FY April-19 to March-20 maintained as

SN	Employee	Qty	Check-Up
1	Staff		Pre-
2	Operators	6361	Employm
3	Workers		ent

Annual Medical Check-Up: FY April-19 to March-20

SN	Employee	Qty	Check-Up						
1	Staff		Annual						
2	Operators	3145	Checkup						
3	Workers								

Various types of tests being performed are as below;

A. Pre- employment Checkup:

1.Vision 2.Colour blindness 3.CBC 4.Urine 5.Heig ht 6.Weight 7.B/P 8.Pulse 9.Habit 10.Personal History 11.Family History

12.Identification Mark

- B. Annual Checkup:
- 1. Physical checkup
- 2. Vision

per the

Factories Act.

- з. Blood
- 4. Urine
- 5. PFT
- 6. ECG

Our occupational health centre & Pathology Lab is equipped with necessary facilities under supervision of factory medical officer with trained three EHS persons.

Medical Facilities:

First Aid boxes in all plants

Central Ambulance Room in the middle of the factory

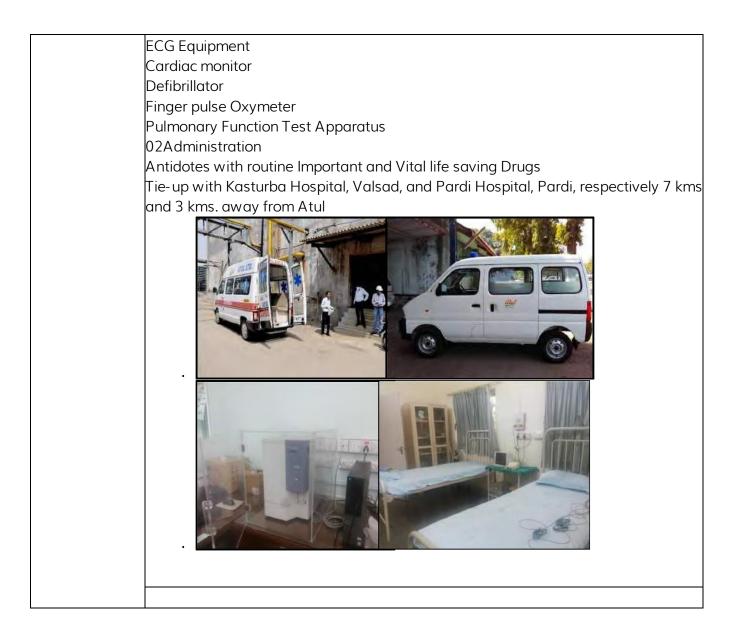
Two Ambulance Vans. Out of which one is equipped with ICU facilities.

Medical Center

Three full time AFIH certified doctors.

Equipped with 3Beds

Full equipped Pathological lab with advanced diagnostic equipment



We also have tie up with external two hospitals (Pardi Hospital and Kasturba Hospital). We have medical checkup schedule once in quarter for Insecticide plant's employees Other necessary items including First-aid medicines, antidotes and equipment as prescribed in the schedule the under Rule-68 U (b) of the Gujarat factories rules are also been provided. Attached sample medical checkup report sample was submitted to your good office vide our letter dated **19.12.2019** the main report.

			Atul Ltc		atul				ul Lte		atul
		Labo	aratory Rep	port				Laboratory Report			
Hanne Agertfantslan Visis Hi Ung Kas	Mr Diversel V De Iso Vest Original United Netter	-		Despiser Dam 640.46a	*1.62000033*** DC-121.2010 #8002010414	Harry AgarGeomer Vall D Ductor	All Devid of Viteral 32 Yest Devid(2011 Victor Metter			Report Date MR No.	64000000000
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		н	aematolog	Y		Test Oescription	18	ine suff	Alrive.	finterance flamps	
Test Description		Reserve	Linter	Roberton Hauge		PBB - Fasting Brood Spectron Stand					inter terrerte it 16 Au
GBC + DFF : Come						tilinoi) lingut Fastant			marm.	Narmal 70.8 101.0	the streng of the ball
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MCHL Hours Call Ha MCHL Mean Call		54.700	Aven sphere.			HT3. Chemanulanini		1.34	marile.	Maintenant Str. 20 - 200, 11	
Celebration Celebration	Concentration of	10000	Print.	Remail 323 - 36 5		Tingiptanitian		0.30	require.	Reserved dell Cr., Mills	
PLT . Plankel Court		3823.684	NOVIEME.	Party of 165 KAT		VLCA Christman		40 cm ²	marts.	Palermont P ID - 1815 U	
ROW-NO - REC Dis	Ardination Wells	AT DAT	n	facernal ID 8-43 D		Co. Chammen		20.2	UNDOR:	Normal MUS - THE II	
Stanaard Descalott				Teerrup In F-42.5		173 HOT States		49	indear.	Palarman Lights II II	
ROW OV - RINC Del Costilicioni Vialution	N	10 (80)	*	Perman 11.0		TT294DC Thene.		.73.4		Apprenal (Apren 4, 1)	
PDW PLT Database		9.20	n.			Statement (Action)					
NPV : Misser Plansiel		0.90	n.			Equipments Demain					1444 (210 ¹ 10 (210) 10 (4)
PLCR PLT Looper	Cell Hallin	17.30				BLOT / ANT			Mental	Married 5.0 . 4010	N. COMMON INVESTIG
NEMT - NewWorki 15	ALC: NOT ALC	65,28	2	Namue 54.0 - 67.0		BUST / AST		W.PR.	There is a second secon	Report 5.1 . 4011	concept formers and
KIMPH: Lamphoed		28.70	2	Parma 218-511						subscart Pattern of Pathabatan	
MONCE Monocolle C		4.88	2	Terrine 21.0 -52.1						errary word his faires consuling	and the second sec
ED - Emmanii Ces		2.40		Personal R.H - Fill							
BABR) Bengfil Co		0.60	*	Perrol 2.2 - 1.2	10 m m	Egissement Nature Late 83 Nov. (AGORODIN					Main 120715 8116 AV
Deemalchery Areny		I THEN MADE	athed S-part littled	High Weichten High wie Sall merthy) (Touriasa)		BIGPT (ALT		2,79	terent.	Normal 5.0 at 0.0 Descentions orderformerses. Fire scores in terms of the Stationard by reary levels in feature considers	
					Later President age-						
				ć	the esce.	Billingbie (Berum) Spectren server Lao ID Nor LAGROUNE					NE 120/10 5 16 14
					and the second se	Titki thetaway		194	Harm.	Terrenal Island State	
		N. VILLENCE	0.0000000000	Circleral Strate Berlus		Clarine's Binanizates		30 #		Nextman Lapers (J.J.	
					Dam Lista	Automot Dissultan		20		Pagement Taylor (S.M.	

Remark: All employ found medically fit to work, no non-contagious diseases were observed.

xxi

.Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel /dra in carrying effluent within the premises.

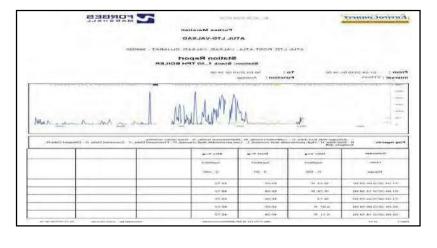
Complied.

Online monitoring system for SPM, SOx and NOx is already been made and connected to CPCB server.

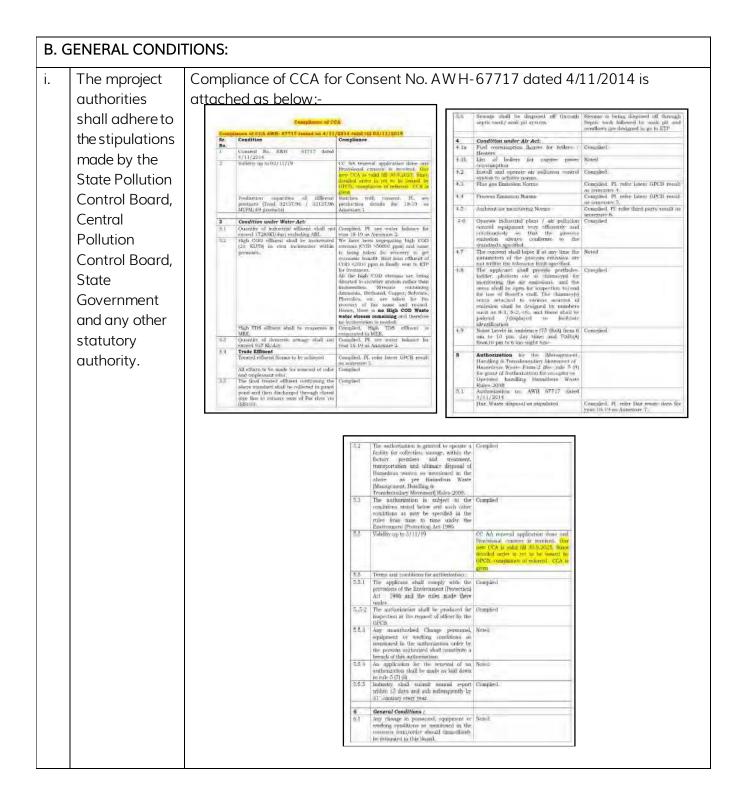
Photograph of main gate digital display board for ambient air quality.







Photograph of online monitoring system (CEMS) connected to the CPCB server:



::	No £trai	Generalised
ii.		Complied.
	expansion or	
		We ensure that there is no further expansion or modifications related to EC in
		the plant. For any deviations or alteration in the plant we will opt prior
		permission from MoEF.
	without prior	
	approval of the	
	MoEF&CC in	
	case of	
	deviations or	
	alterations in	
	the project	
	proposal from	
	those submitted	
	to this Ministry	
	for clearance, a	
	fresh reference	
	shall be made to	
	the Ministry to	
	assess the	
	adequacy of	
	conditions	
	imposed and to	
	add additional	
	environmental	
	protection	
	measures	
	required, if any.	
iii.	The locations of	Complied. The Location of ambient air quality monitoring stations had been
	Ambient air	
		decided in consultation with GPCB so that at least one station is installed in
	quality	the up wind and downwind direction as well as where maximum ground level
	monitoring stations shall be	concentration are anticipated. This also covers the impact, if any, of the
		during their visit to our factory.
	consultation	
		The maximum values during the compliance period confirm that at no time
		the emission level went beyond the stipulated standards. Parameter wise
	ensured that at	summary is given below:
	least one	
	stationeach is	
	installed in the	
	upwindand	
	downwind	
	direction as well	

as where max. ground level concentrations are anticipated.

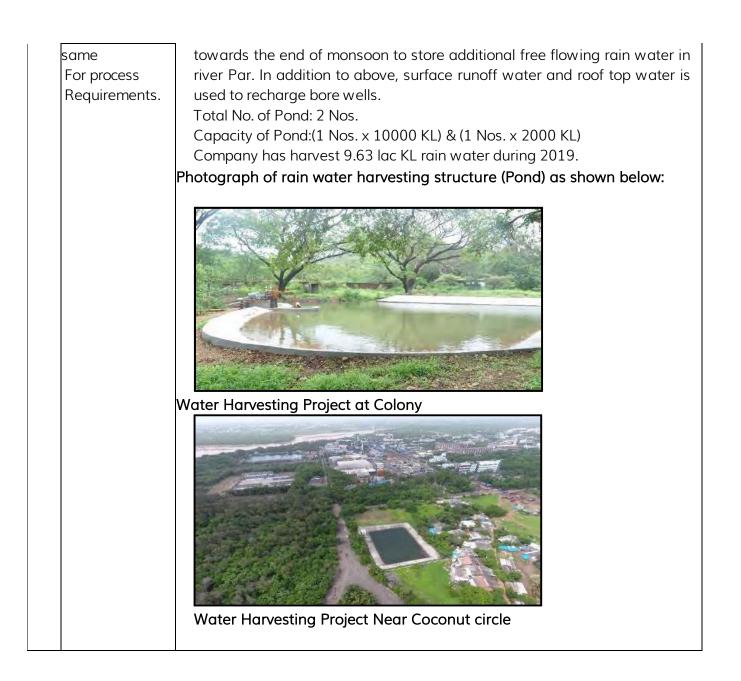
			SUM	IMARY OF AMB RESU	•	LITY	
		Station	Parameter		Values for the	period Oct	19 - Mar 20
				microgram/NM3	Min.	Max.	Avg.
		66 KV	RSPM (PM2.5)	60	19.6	36.8	28.8
			PM10	100	38.4	52.3	44.0
			SO2	80	9.4	11.2	10.3
			NOx	80	13.2	17.5	15.3
			Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
		Oppos	RSPM	60	28	38	33
iv.	The National	ite	(PM2.5)		35	52	40.3
	Ambient Air	Shed	PM10	100	7.9	9.6	8.7
	Quality	D	SO2	80	8.3	11.2	9.5
	Emission		NOx	80	28	38	33
	Standards		Ammonia	850	ND	ND	ND
	issued by the		HCI	200	ND	ND	ND
	Ministry vide G.S.R. No.	Near W est site ETP	RSPM (PM2.5)	60	24	45	34.3
	826(E)dated		PM10	100	39	55	43.6
	16""Novembe		SO2	80	7.7	14.7	9.4
	r, 2009 shall		NOx	80	8.4	15.4	10.5
	be followed.		Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
		Near North	RSPM (PM2.5)	60	27	44	36.6
		ETP	PM10	100	40	54	44
			SO2	80	8.3	12.8	10.0
			NOx	80	8.2	14.2	10.8
			Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
		TSDF	RSPM (PM2.5)	60	26	46	37.8
			PM10	100	40	50	44.5
			SO2	80	7.4	10.6	9.0
			NOx	80	7.6	13.6	10.1
			Ammonia	850	ND	ND	ND
			HCI	200	ND	ND	ND
		Main Guest	RSPM (PM2.5)	60	15	28	21.1
		House	PM10	100	22	45	37.1

SO2	80	4.3	8.4	6.1
NOx	80	5.2	9.4	7.5
Ammonia	850	ND	ND	ND

		HCI	200	ND	ND	ND
	W yeth Colony	RSPM (PM2.5)	60	10	20	19.6
		PM10	100	24	44	35.3
		SO2	80	4.1	7.6	6.35
		NOx	80	4.6	8.6	6.9
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Gram panchay	RSPM (PM2.5)	60	12	30	24.3
	at hall	PM10	100	29	52	42.5
		SO2	80	6.2	8.6	7.4
		NOx	80	5.7	9.4	7.4
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Main office,	RSPM (PM2.5)	60	19	35	26.5
	North	PM10	100	35	52	43.3
	site	SO2	80	6.4	9.2	7.5
		NOx	80	7.3	10.6	8.5
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND
	Haria water	RSPM (PM2.5)	60	24.4	52.2	39.9
	tank	PM10	100	8.8	11.2	9.4
		SO2	80	10.2	15.8	13.4
		NOx	80	24.4	52.2	39.9
		Ammonia	850	ND	ND	ND
		HCI	200	ND	ND	ND

٧.	The overall noise levels in	Com	pliec	l.								
	and around the plant area shall be kept well within the standards by providing	unde ensu Audi	he ambient and workplace noise level confirms to the standard prescribed nder EPA. The same is being regularly monitored at regular interval for nsuring the compliance. The testing lab appointed is M/s. Royal Environment auditing & Consultancy Service, Surat NABL Approved TC – 5948 , issue date- 1/06/2019 and valid till 31/05/2021 .									
	noise control measures including acoustic	perm	The analysis reports were below the limits of quantization and within the permissible limit. A detail of analysis report of Monitoring report is attached in Annexure- IV									
	hoods, silencers, enclosures etc. on all sources of noise	The maximum values during the compliance period confirm that at no time the emission level went beyond the stipulated standards. Parameter wise summary is given below: Noise level monitoring data (Day Time)										
	generation. The ambient								I			
	noise levels shall conform		Sr. No.	Location	Permissible Limits, dBA		es for th 19- Mo	ne Period ar 20				
	to the				75	Min.	Max.	Avg.				
	standards prescribed		1	Near Main guest house	75	55.7	61.2	57.4				
	under		2	Near TSDF	75	61.2	64.2	62.6				
	Environment		3	At Wyeth Colony	75	49.7	57.3	53.6				
	(Protection) Act, 1986 Rules,1989											

			4	Current Dave als av est 1 fall	76	60.0	СОГ	C 2 7
	viz. 75 dBA		4	Gram Panchayat Hall		60.8	63.5	62.7
	(day time) and		5	Near Main Office	75	59.2	64.5	62.18
	70 dBA (night			North site	76	<u> </u>	со г	64.4
	time).		6	ETP North site	75	63.2	68.5	64.4
			7	Opposite shed D	75	64.7	67.3	66.0
			8	ETP W est site	75	62.8	68.5	64.5
			9	Water tank Haria	75	53.5	62.6	57.1
				road				
			10	Near	75			
				66KVA		62.5	68.6	65.0
				substation				
		Noise	e level Sr. No.	monitoring data (Nig Location	ht Time) Permissible Limits, dBA		llues for t Oct 19-1	he period Mar 20
					70	Min.		Avg.
			1	Near Main guest	70			Avg.
			Т	house	10	50.2	52.2	51.2
			2	Near TSDF	70	43.7	58.7	55.0
				At Wyeth Colony		43.7	51.1	47.0
			4	Gram Panchayat Hall	70	53.4	58.4	56.1
			5	Near Main Office	70	55.4	50.4	50.1
			5	North site	10	53.2	57.3	55.5
			6	ETP North site	70	53.2	58.6	55.5
			7	Opposite shed D	70	55.2 54.7	62.7	59.7
			8	ETP West site	70	50.3	60.8	57.6
			9	Water tank Haria	70	50.3	55.8	53.1
			5	road	70	50.5	55.0	55.1
			10	Near 66KVA	70	53.8	63.2	57.1
				substation				
vi.	The Company Shall harvest rainwater from the roof tops of the Buildings and Storm water Drains to Recharge the ground water	Roc wel We to c pre- wat faci zero	I-cons have ollect treatr ter to a lity/co priver	d. ain water from Coal s structed pond and used already two numbers c and harvest rain water ment to remove suspen clarifloculator units to re apacity to cater our cou drawls of water during	as make up of check dams in monsoon ded matter c emove suspe nsumption w g the rainy do	water s in na seaso as we l ended rith rai ays.	for cooli tural stor n after g nave pur matter. V n harves	ng tower. rm water drair iving necessa nped these ra V e are creatir



Training shall be imparted to	Complied.							
all employees on safety and health aspects	Annual training plan are being carried out every calendar year from January to December for safety purpose.							
of chemicals handling. Pre- employment and routine periodical	Company is providing Training which cover all relevant workplace policies, procedures and practices to ensure that staff have the appropriate skills and knowledge to perform their work safety and according to the legislative requirements and the departments and work place procedures.							
medical examinations for all	Il Employees and others have a duty to comply with instructions given for orkplace health and safety.							
employees shall be	Employee training which generally include:							
undertaken on regular basis. Training to all employees on Handling of chemicals shall be imparted.	 First aid training Fire fighting training – Use of Fire Hydrant /Extinguisher Handling of Compressed Gas Cylinder Work Permit System, Use of Spill Kit Handling of Solvents Operation of ETP &MEE Handling of Hazardous waste Handling of Biomedical waste Scrap yard management 111 – A training as per factory Act General instruction training; e.g. workplace communication processes, incident reporting, lock down, evacuation and medical emergency procedures, mock drill. Job-specific training e.g. safe work procedures for the use of equipment, SOP of manufacturing process & safety and health aspect of chemical handling. Conducted OSHAS & EMS Programme. Hygiene, Stress management & skill development. 							

viii	The company	Com	plied.				
	shall also	Com	pliance to c	all environment	al protection measure	s and safeg	uards
	comply	prop	osed in the	project report	submitted to ministry	is compiled of	as below:-
	With all the					Frequency	
	environmental	S.	Potential	Action to be	Parameters for	of	Status of
	protection	Ν	Impact	followed	monitoring	monitoring	Compliance
	Measures		·				
	and						
	safeguards	1.	Air	Adequat	SPM, RSPM, SO2	Monthly	Stack and
	proposed in		emissi	e stack	and	through	APCM
	the documents		on	height	NOx, Vehicle logs to	external	Details are
	submitted to			APCM-	be maintained.	agency	provided in
	the Ministry.			Multi		NABL	EC
	All the			Cyclone		Approved.	Compliance
	recommendati			&			Point No.4
	ons made in			Scrubber			of
	the EIA /EMP in			is			Conditions.
	Respect of			provided			Quality of
	environmental			' as APCM			gaseous
	management,			AAQ			emission
	and risk			within the			and AAQ
	mitigation			project			,
	measures			premises			
	relating			and			
	To the project			nearby			
	shall be			habitations			
	implemented.			to be			
				monitored.			
				All vehicles			
				to			
				be PUC			
				certificate			
		2.	Noise	Noise	Spot noise level	Monthly	Carried out
				generating	Recording.		at the
				from	5	NABL	periphery
				operation		Approved	of whole
				of boiler,		external	plant
				cooling		agency	premises
				towers			
				&plant &			
1	l		l l	Spisines	l		

	M/c area to be monitored.				
--	---------------------------------	--	--	--	--

	3.	Waste water discharg e	Compliance to the wastewater discharge standards complete effluent treatment Plant- Primary+ Secondary & MEE, ZLD is achieved.	pH, TSS,TDS,COD,BOD, oil & Grease	Monthly through NABL Approved external agency	Discharge effluent is analyzed on daily basis.
	4.	Solid/ Haz Waste	Check compliance of HW M rules.	Quantity and quality monitoring	Periodicall y	Details are providedin EC Complianc e Point No.10 of specific Conditions.
	5.	Non routine events and accident al release.	Plant drawn, considering likely emergencies and steps required to prevent/limit consequence s.	Mock drills and records of the same.	Periodic during process activities.	Every year 4 nos. mock drills carried out in the premise on rotational basis covering all plants.
	6.	Green Belts	Vegetation, green belt development	More than 50,000 Trees /Year	Once a year	Green belt area is abou36% land area. Totaarea: 1126078.2 7 sq.mt

			Green
			belt area:
			409030.00
			sq.mt

Х.	The company shall undertake eco- developmental measures including community welfare measures in the project area for the Overall improvement of the environment.	Complied. CSR projects (April 2019 to March 2020): is given in condition (vii)
xi.	A separa te Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied. A separate Environmental Management Cell is equipped along with internal lab such as COD Analyzer, TOC Analyzer, pH Meter, TDS Meter etc. For all External Environmental Monitoring we have appointed M/s. Pollucon Laboratories Pvt Ltd, Surat NABL Approved TC – 5945, issue date- 28/05/2019 and valid till 27/05/2021. Organogram of SHE Department Chairman & Managing Director President - Unitly & Services VP - Corporate SHE VP - Legal Assurance SHE VP - DOH VP - Legal Assurance SHE VP - DOH VP - Legal Assurance SHE VP - DOH VP - Legal Assurance SHE VP - DOH

xii.	The company Shall	Com	plied.								
	earmark		EMP measures are implemented. A separate budget is being allocated every								
	sufficient funds towards	-	year to comply with the entire legal requirement stipulated by SPCB, CPCB &								
			MoEF apart from upkeep of pollution control systems and facilities. Total								
	capital cost and	-	expenditure is given in below table including EMS implementation:								
	recurring cost per annum to	Ade	Adequate fund embarked for EMP, Fy. 2019-2020:								
	implement the										
	Conditions		5.N.	Parameter	Capital Cost per	Recurring Cost					
	stipulated by				annum (Rs. in	per annum (Rs.					
	the Ministry of				lacs) 2019-20	in lacs)					
	Environment,					2019-20					
	Forest and		1	Air Pollution Control	124.17						
	Climate		2	Liquid Pollution Control	341.7	2444.5					
	Change as well		3	Environmental	29.3	35					
	as the State		J	Monitoring and	29.5	55					
	Government			Management							
	along with the		4	Solid waste Disposal	-	263.87					
	implementatio		5	Occupational health		12					
	n schedule for		6	Green belt		5.0					
	all the		Toto		495.17	2760.37					
	conditions		1010	11	495.17	2700.57					
	stipulated										
	herein. The										
	funds so										
	earmarked for										
	environment										
	management/										
	pollution										
	control										
	measures shall										
	not be diverted										
	for any other										
	purpose.										

xiii	A copy of the	Complied.	
•	clearance		
	letter shall be	We have informed the public the	at the project has been accorded
	sent by the	environmental clearance by the EAC,	MoEF&CC Delhi and that the copies of
	project	the clearance letter are available with	the GPCB and also be seen at website
	proponent to	of EAC/GPCB.	
	concerned	- Infrantrastare	ani inter and services
	Panchayat	ATUL LTD	ATUL LTD and Netton Hole And Add Street States
	Zilla	MARTHAND FOR A STATE AND A	 Terra Acta Sciences (2004), National Core 2004 (2004)
	Parishad/Muni	Hef : Atul/Assurance/EC Date : Pebruary 16, 2019	Ref. (Ats)/Assurance/EC 2019/Adv Through Reg. AD Post Date : February 22, 2019
	cipal	Two, Starganzah Bites. And Village.	Tu, Ragional Officer, Segional Officer, Bogins,
	Corporation,	Anu	New Crayer Wargur and Thavenn. Link Baad No. 3 E-G. Stev. Thankair Frager. Bhogal 462010.
	Urban local	Polyteve 4: Environmental Charance (EC) Ref. (P. No. 4-1011/108/2018-04-00) dated (1.02.0019	Maiffys Prades). Bubject - Advertisonant for receiving EC Beference - BC P no. J-11011/108/2015/A-Hib dated Pebruary 11, 2019
	Body and the	Respected Maslam. We hereby inform you that Attal Leffmeaned at Attal 396 020, Oujatur has been accorded environmental decompare value P on a 51011310 at most a second	Respected Sir.
	local NGO, if	by the Ministry of Epsthonment, Fornat and Climate Charge, Government of India for	We nurve been severable environmental idlemence viale P on 3-110(37/108/3018-36.00) foreid Patrianey 11.5 (2019 by the Ministry of Environment, Foreis and Alimping Change, Overemment of India for the proposed project of expansion of Educational manufacturating units.
	any, from	supplicated in the referred EC for your referrance and record aroun to the condition kinety antensedening the receipt of the same.	be per the condition too, wi of referred EC, we have published the advectorments of frequence and a straining merupapers of regime. 2 none, in versionalise inappropriate and marine frequence, All to Analog merupapers of regime do 17th Federatory 2019. Copy of same is attached hereworth.
	whom	Thesisting you. Yosice truly.	Trust the source is in order, findmitted for your record please. Tracking you,
	suggestions/	Per Asia Lea (IL, M. Sonat)	X valme truty For Atal Xal.
	representation	CIONSARAD Manager Annurance XRBI COPY Luiper	(16 Janas) (16 Janas) Manager- Assertance E355
	s, if any,	S1 10-10-51	
	were received	Extension Requiremental attemps from 1 linears, 61 (Free House, Statementaria Material Accounts, Junior Reliandamic (Here) and Here (Here) (Here) (Here) (Here) (Here) (Here) (Here)	(S)
	while		Bagishward office: Load Essen, R.E. Perris Sang, Alexandred Charles, Annual Sang, Alexandred Charles, Annual Sang, San
	processing		
	the proposal.		
	uie proposul.		

xiv	The project	Comp	lied.			
	proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance	the pr author reports	oject ity tim s to th	v submit the half-yearly complic along with environmental act ne to time. We have already su e authority for all six monthly g updated on website.	ions plans are monitor bmitted the 6 monthly	ored by the compliance
	conditions including results of		SN	EC Compliance Report Period	Submission Date	
	monitored data (both in hard		1	April 2019- September 2019	27.11.2019	
	copies as well as by e- mail) to the					
	respective Regional Office					
	of MoEF&CC, the respective					
	Zonal Office of CPCB					
	and SPCB. A copy of EC and					
	six monthly					
	compliance status report					
	shall be posted onthe					
	website of the company.					

XV.	The	Complied.
	environmental	
	statement for	The Env. Statement (Form-V) for each financial year ending 31 st March is being
	each financial	submitted to State Pollution Control Board (GPCB) every year time to time on
	year ending	XGN portal as well as hard copy submission. We have also submitted six
	31st March in	monthly EC Compliance report periodically in which said information were
	Form-V as is	updated time to time.
	mandated shall	
	be submitted to	
	the concerned	
	State Pollution	
	Control Board	
	as	
	prescribed	
	under the	
	Environment	
	(Protection)	
	Rules, 1986, as	
	amended	
	Subsequently,	
	shall also be	
	put on the	
	website of the	
	company along	
	with the	
	status of	
	compliance of	
	environmental	
	clearance	
	conditions and	
	shall also be	
	sent to the	
	respective	
	RegionalOffices	
	of MoEF&CC by	
	e- mail.	

xvi.	The project	Complied.
	proponent shall	
	inform the	W e have granted EC Dated:11 th Feb, 2019 Online, and inform the public that
	public that the	the project has been accorded environmental clearance and advertised in local
	project has	newspapers that are widely circulated in the region with vernacular language
	been	Guajarati and another in English as per below details: New Paper Add Dated:
	accorded	17 th Feb,2019
	environmental	
	clearance by	1. Gujarati news paper: "Gujarat Samachar"
	the Ministry and	2. Gujarati news paper:"Sandesh"
	copies of the	3. English news paper: Times of India "Surat Edition"
	clearance letter	
	are available	
	with the	Photographs of newspaper ADD:
	SPCB/Committ	Gujarat Samachar Dt.17.2.19 Sandesh dt.17.2.19
	ee and may	
	also be seen at W ebsite of the	
	Ministry at http://moef.nic.i	(2) มาสา สุนมี และ สุนมี และ สุนมี และ สุนมี การสา (การ สุนมี การสา (การ สุนมี และ สนุมี และ สุนมี และ สนุมี และ สน
		ારી ગયા આતુલ લિમિટેક, અતુલ ૩૯૬ ૦૨૦, ગુજરાત આતુલ લિમિટેક, આતુલ ૩૯૬ ૦૨૦, ગુજરાત
	<u>n</u> This shall be	દો
	advertised	મેત્રી અતુલ લિમિટેડ અતુલ ટલ્ક કરક, ગુજરાતને પત્રક્ષાં કે રાગ્દરા માટે લગાવા છે. તા રાગ મંત્રા લય દારા અતુલ લિમિટેડ, અતુલ ૩૯૯ ૦૨૦, ગુજરાતને પત્રક્રમાંક જે- ગુજરાતને પ્રત્રકમાંક જે- ગાંધા કે પુઆરી સ્વાર ના સેય કે પ્રેસિક મેન્યુકેમ્લોસ પ્રતિના સંચેત વધારની પંચ વરશે મંત્ર છે. 11011/108/2015-1A-II(1) તા. ૧૧ - કે બ્રુઆરી ૨૦૧૯ના રોજ કેમિકલ મેન્યુકે કે ચરી ગ
	within seven	મારે. યતેલ કે દાયકાત પત્રની તાલ ગુજરાત પદ્ધક નિરંત્રણ બોર્ડના કરે કે દેવરાંત પર્શવરણ વન યુપારાની પ્રયોધરણીય મંજૂરી મળેલા છે. ઉપરોકન પત્રની નકલ ગુજરાત
	days from the	યુદ્ધ અને કલાઇયેટ વેન્ય પ્રયાદયની વેલસાઇટ Implimed Acin ઉપર ધ્યાલમ છે. પ્રદુષણ નિયંત્રણ ઓર્ટની કચેરી ઉપરાંત પર્યાવરણ, વન અને કલાઈમેટ ચેન્જ મંત્રાલયની
	date of issue of	สินกับ การการการการการการการการการการการการการก
	the clearance	ande Contraction and a contraction of the contracti
	letter, at least in	
	two local	Time of India
	newspapers that	dt.17.2.19
	are widely	G(17).2.15
	circulated in the	
	region of which	Atul Ltd,
	one shall be in	Atul 396 020 Gujarat Atul Lto located at Atul 396 020, Gujarat has been
	the vernacular	second emutropmental clearance vide + no. J-
	language of the	11011/108/2015-1A-II(I) dated February 11, 2019 by the Ministry of Environment, Forest and Climate Change,
	locality	for the proposed project of
	concerned and a	expansion of chemicals manufacturing unit. The copy of the environment clearance letter is available with the
	copy of the same	Control Hoard and may also be seen
	shall be	on the website of the Ministry at http://moef.nic.in
	forwarded to the	
	concerned	
	Regional Office	
	of the Ministry.	

xvii	The project	Complied.
	authorities shall	
	inform the	We have communicated with the regional officer & MoEF&CC towards the
	Regional Office	status of work and financial closure time to time. We have also submitted six
	as well as the	monthly EC Compliance report periodically in which said information were
	Ministry, the	updated time to time.
	Date ofinancial	
	closure and	We have obtained CTE after receiving ToR. CTE was granted by GPCB Vide
	final approval	No. GPCB/CCA- VSD-313(12)/ID: 23158/363958 on 25.7.2016 (CTE no.
	of the project	80394) Valid Till- 17/7/2023.
	by the	
	concerned	W e had applied for amendment in existing CTO after receiving EC. CTO
	authorities and	amendment has been granted by GPCB Vide Letter No. GPCB/CCA-VSD-
	the date of	313(16)/ID:23158/513897, Dated 17.7.2019 (CTO amendment No. AH
	start of the	102080), Valid Till-03/11/2019. Renewal for the same has been received with
	project.	consent order no. 105110 valid up to 30.09. 2025.

Annexure I

Quality of treated effluent

Sr.	Parameter			Res	ults			GPCB
No.								Limits
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	
1	рН	8.19	7.95	6.91	7.02	7.45	6.23	5.5 to 9.0
2	Temperature oC	31.4	31.8	30.9	30.4	31.6	30.1	40 oC
3	Colour (pt. co. scale)in units	100	90	80	140	80	78	
4	Suspended solids, mg/l	92	76	92	98	65	72	100
5	Phenolic Compounds, mg/l	0.088	0.056	0.044	0.056	0.041	0.047	5
6	Cyanides, mg/l	ND	ND	ND	ND	ND	ND	0.2
7	Fluorides, mg <i>l</i> l	0.75	0.7	0.65	0.75	0.68	0.62	2
8	Sulphides, mg/l	1.2	0.9	1.2	1.8	1.2	1.1	2
9	Ammonical Nitrogen, mg/l	48	38	43	46	34	37	50
10	Total Chromium, mg/l	ND	ND	ND	ND	ND	ND	2
11	Hexavelent Chromium, mg/l	ND	ND	ND	ND	ND	ND	1
12	BOD (3 days at 27oC), mg/l	78	65	60	65	59	66	100
13	COD, mg/l	240	220	218	215	208	222	250
Note :	ND is Not Detectable.							

Annexure II

Ambient Air Monitoring details

		Limit microg	Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20
Station	Parameter	m/NM 3						
	PM 2.5	60	21.3	19.6	32.2	29.6	33.7	36.8
	PM10	100	43.5	38.4	45.3	40.4	44.2	52.3
CC KV	SO2	80	9.8	10.4	9.4	10.4	11.2	10.8
66 KV	NOx	80	16.4	17.5	16.2	13.5	13.2	15.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	21.3	28	32	38	32	36
Opposite	PM10	100	43.5	35	39	35	39	42
Shed D	SO2	80	9.8	7.9	9.6	8.4	9.6	8.2
	NOx	80	16.4	8.3	9.3	9.2	9.3	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	24	24	27	45	36	38
	PM10	100	39	39	42	39	42	45
Near West site	SO2	80	8.7	8.7	8.4	14.7	8.4	8.7
ETP	NOx	80	9.4	9.4	8.4	15.4	8.4	11.4
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	27	27	29	40	40	44
	PM10	100	40	40	44	40	42	44
	SO2	80	8.3	8.3	9.6	12.8	9.6	10.8
Near North ETP	NOx	80	8.6	8.6	8.2	14.2	8.2	12.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	26	26	28	42	43	46
	PM10	100	46	46	46	42	40	43
TODE	SO2	80	7.4	7.4	8.2	10.6	8.2	9.8
TSDF	NOx	80	8.1	8.1	7.6	11.5	7.6	13.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	15	15	15	28	19	24
Main Guest House	PM10	100	25	25	22	45	42	44

	602	00			4.2	0.4	7.0	
	SO2	80	4.5	4.5	4.3	8.4	7.8	6.3
	NOx	80	5.2	5.2	6.2	9.4	8.2	7.8
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	10	10	17	25	20	22
	PM10	100	26	26	24	42	39	37
W yeth Colony	SO2	80	4.1	4.1	5.4	7.2	6.7	7.6
vv yeth Colony	NOx	80	4.6	4.6	5.3	8.2	7.4	8.6
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	12	12	22	30	28	29
	PM10	100	29	29	32	49	48	45
Gram panchayat hall	SO2	80	6.2	6.2	6.3	8.6	7.8	8.2
	NOx	80	5.7	5.7	7.2	9.4	8.2	7.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	19	19	24	35	30	26
	PM10	100	35	35	38	52	48	49
Main office, North	SO2	80	7.2	7.2	6.8	9.2	8.4	7.3
site	NOx	80	7.3	7.3	8.1	10.6	9.6	8.3
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND
	PM 2.5	60	18.3	18.3	17.8	28.2	37.8	30.8
	PM10	100	24.4	24.4	32.7	42.2	42.7	45.2
	SO2	80	9.5	9.5	8.8	11.2	8.8	8.8
Haria water tank	NOx	80	15.8	15.8	14.5	14.3	11.5	10.2
	Ammonia	850	ND	ND	ND	ND	ND	ND
	HCI	200	ND	ND	ND	ND	ND	ND

Annexure III

			-							
			Falmen and							
Sr	r, Stack Details	Paramenter	Permissible	Obtained	Obtained	Obtained	Obtained	Obtained	Obtained	
Ne	0.	liter a state i usen	Limits	Value	Value	Value	Value	Value	Value	
E	ast site									
1	FBC boiler El	PM	100 mg/Nm3	65	53	71	63	76	78	
	and the second sec	SOJ	600 mg/Nm3	110	124	112	104	112	115	
2	77901 7 90	NOx PM	600 mg/Nm3	137	145	126	125	106	103	
-	FBC boiler E2	SO2	100 mg/Nm3 600 mg/Nm3	73	68 132	68 107	78	82 109	88	
		NOx	600 mg/Nm3	140	137	119	117	121	116	
	and the second s			The second			-34	-	the second	
3	FBC boiler E3	PM	100 mg/Nm3	78	59	75	65	72	75	
		SO2	600 mg/Nm3	136	128	116	108	113	114	
		NOx	600 mg/Nm3	129	132	126	112	126	120	
4	Hot Oil Unit	PM	150.0 mg/Nm3	ND	ND	ND	ND	ND	ND	
	(Resorcinol Plant)	SO ₂ NOx	100 ppm	ND 24	ND 24	ND 36	ND 28	ND	ND	
5	DG set 1010 KVA (Standby)	PM	50 ppm 150 mg/Nm ³	Stand by	Stand by	Stand by	28 Stand by	22 Stand by	25 Stand by	
		SO2	100 ppm				Common Dy	Citata Oy	Country by	
	a the second second second	NOx	50 ppm	1.0-01	and and the	1	1.11	They were the	AND SALES	
	est Site					-		1		
6	FBC boiler W1	PM	100 mg/Nm3	53	60	52	70	58	55	
		SO ₂ NOx	600 mg/Nm3	102	112 124	104	118	119	120	
7	Hot Oil Plant shed-B	PM	600 mg/Nm3 150.0 mg/Nm3	ND 122	124 ND	123 ND	104 ND	113 ND	116 ND	
		SO2	100 ppm	ND	ND	ND	ND	ND	ND	
		NOx	50 ppm	30	30	40	32	20	21	
8	Oil burner Shed B	PM	150.0 mg/Nm3	Stand by	Stand by	Stand by	Stand by	Stand by	Stand by	
	(Stand By)	SO2	100 ppm		The second		-	-		
9	Boiler (50 TPH 2 Nos) (New	PM	50 ppm 50 mg/Nm3	25	32	34	37	39	35	
	boilers) W2,W3						Design of the second			
		SO ₂	600 mg/Nm3	127	132	108	116	120	110	
12.0		NOx Mercury	300 mg/Nm3 0.03 mg/Nm3	93 ND	102	98 ND	102	103	105	
	DG set 1500 KVA	PM	0.03 mg/Nm3 150.0 mg/Nm3	ND Stand by	ND Stand by	ND Stand by	ND Stand by	ND Stand by	ND Stand by	
10	(Stand By)	SO ₂	100 ppm				y			
10			50 ppm							
		NOx	oo ppm							
No	orth Site									
	orth Site	PM SO ₂	150.0 mg/Nm3 100 ppm	ND ND	ND ND	ND	ND ND	ND ND	ND	

Sr.	s of Process and Flue stack Stack Details	Paramenter	Permissible	Oct-19 Obtained	Nov-19 Obtained	Dec-19 Obtained	Jan-20 Obtained	Feb-20 Obtained	Mar-20 Obtained
No.	Stack Details	Paramenter	Limits	Value	Value	Value	Value	Value	Value
Atul E	ast Site								
L	Phosgene Plant (Old Plant)	Phosgene	0.1 ppm	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
Causti	ic Chlorine Plant			-					CONVERSION OF
2	Dechlorination Plant	Cl	9.0 mg/Nm3	6.2	5.3	7.2	5.8	4.2	4.4
		HCI	20.0 mg/Nm3	1 Contraction of the second	and the second se	9.3	6.3	8	6.5
3	Common stack of HCl Sigri unit	Cl ₂	9.0 mg/Nm3	6.7	4.3	5.6	5.3	6.4	5.2
	1&2	HCI	20.0 mg/Nm3	9.4	7.6	8.2	7.3	8.4	9.3
FCB P	aInt	10000							
4	Foul Gas Scubber	SO2	40.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
	and the second spect	NOx	25.0 mg/Nm3	-					
Sulfur	ic Acid (East Site)		solo ing/ time			-			
5	Sulfuric Acid Plant	SO2	2.0 kg/T	0.4	0.6	0.8	0.6	0.4	0.5
		Acid Mist	50.0 mg/Nm3	14.3	12.4	16.7	13.4	11.7	10.2
6		and the second			19 19 19 19 19 19 19 19 19 19 19 19 19 1	900			
6	ChloroSulfonic Acid plant reactor	Cl ₂	9.0 mg/Nm3	6.8	5.2	7.3	6.2	5.7	3.2
	(actor	HCI	20.0 mg/Nm3	12.5	11.7	14.6	12.7	14.8	12.5
Resor	cinol plant					-			
	internet and shares		a farmer and		123	1.			
7	Scrubber vent-Resorcinol Plant	SO2	40.0 mg/Nm3		Not running		6.2	8.6	7.2
					during visit				
			4		-			1000	10
130			and a star	- 20.0				12.20	and the
8	Spray Dryer -Resorcinol Plant	PM	150.0 mg/Nm ³	Not running	Not running	Not running	Not running	32	32
		12.5		during visit	during visit	during visit	during visit	Sie and	A maria
	Contract of the second second								122.06
-				1		1000		2	
Incine		Contraction of the	A. Marshall		hard a start	-	12	100 200	1000
9	Incinerator	PM	150.0 mg/Nm3	52	61	62	46	38	45
	and the second second	SO ₂	40.0 mg/Nm3	17.8	16.7	16.2	14.2	12.5	10.2
	and an initial second set of	NOx	25.0 mg/Nm3	8.6	7.2	9.8	9.8	10.8	14.5
NI Pla	TT 7								10.000
10	Foul Gas Scubber	SO ₂	40.0 mg/Nm3	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runnig	Not Runni
		NOx	25.0 mg/Nm3	During Visit	During Visit	During Visit	During Visit	During Visit	During Vis
					1000				1.2.2.3.4
NBD F				-					
11	The state of the second s	PM	1150.0 (11.0	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
11	Spray Dryer	PM	150.0 mg/Nm3	Not in use	Not in use	Not in use	Not in use	Not in use	Not in use
12	Scrubber S-902	Phosgene	0.1 ppm		1.223		ND	ND	ND
				Not running	Not running	Not running	1		
				during visit		during visit			
		- 64	a starten and	Contraction of the	- Warne			12 1 1 1 1 1	1.1.1.1.1.1.1
13	Scrubber S-801/802	HCI	20.0 mg/Nm3		The second		2.5	3.4	3.5
				Not running	Not running	Not running	S. Contraction		1111
		1		during visit	during visit	during visit			
		1		1.1.1				9.2	8.8
		NOx	25.0 mg/Nm3	Selection in	Then and		11.3	9.2	8.8
		1.91	a della di	Not running	Not running	Not running	51		
		-		during visit	during visit	during visit		- a la seconda	
2-4-D		-			A COLORED DA				
14	Common Scrubber; 2,4D Plant	CL2	9.0 mg/Nm3	7.3	6.5	5.8	6.5	4.3	4.6
	Common Scrubber; 2,4D Plant	HCI	20.0 mg/Nm3	6.5	10.3	7.3	8.4	6.3	4.0
	and the second second	Phenol	20.0 mg/ rem3	ND	ND	ND	ND	ND	ND
15	Dever 1	Phenol PM with	20.0 mc/N=2	7.5	6.3	8.6	6.8	7.2	6.5
10	Dryer-1	PM with Pesticide	20.0 mg/Nm3	1.5	0.5	0.0	0.0		0.0
	and the set of second set of second	compound	and a second	Stant 2	100.30			Same Say	1.50 1.6
12	Dryer-2	PM with	20.0 mg/Nm3	9.2	8.2	7.2	9.2	8.6	7.2
		Pesticide							
		compound			1		1.		
16	Dryer-3	PM with	20.0 mg/Nm3	8.5	7.5	10.7	7.5	6.4	6.5
		Pesticide compound	6.0	1 2 1 2 3	100 4170 1				1000
17	Descent	PM with	00.0 ma/Nm2	11.3	13.4	9.5	10.4	11.7	10.2
.,	Dryer-4	PM with Pesticide	20.0 mg/Nm3	11.0	13.4	2.0	10.4	-1.7	10.2
		compound				1.			1000
18	Dryer-5	PM with	20.0 mg/Nm4				8.2	7.6	8.1
		Pesticide		1.0	1.000		1.1	Tool Inc. Long	111.000
		compound	and the second se						

Sr.	Stack Details	Paramenter	Permissible	Obtained	Obtained	Obtained	Obtained	Obtained	Obtained
No.	CHRA DOMIN		Limits	Value	Value	Value	Value	Value	Value
CP P	lant	1997 - 19	and the second second second						
20	MCPA	Cl ₂	9 mg/NM ³	Not Runnig	Not Runnig	Not Runnig	Not Runnig		Not Runnig
		HCl	20 mg/NM ³	During Visit	During Visi				
	and and a second second	SO_2	40 mg/NM ³					1.00	
21	Fipronil	SO ₂	40 mg/NM ³	Not Runnig	Not Runnig				
	in the second se	HCI	20 mg/Nm3		During Visit	During Visit	During Visit	During Visit	During Visi
			the second second		1.77		the second		
		AUT	1775 (11-2	Not Description	Not Runnig	Not Donate	Not Runnig	Net Durals	Net Desert
17	Imidacloprid	NH ₃	175 mg/Nm3	Not Runnig During Visit				During Visit	Not Runnig During Vis
	The state of the state of the		1						
		1.1.1.1.1.1	1 Same						
18	Pyrathroids	SO ₂	40 mg/Nm3	Not Runnig	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit	Not Runnig
		HCI	20 mg/Nm3	During vian	During visit	Suring visit	During visit	During visit	During Visi
		i farman	an anna an	Territoria international					
19	Stack at Amine Plant	NH ₃	175 mg/Nm3	21.5	30.2	20.4	25.5	20.8	15.2
	L Plant		La tra						3.5.5
20	Phosgene Scrubbr at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
21	Central Scrubber at MPSL	Phosgene	0.1 ppm	ND	ND	ND	ND	ND	ND
_) plant					1	1.1		
22	Central scrubber at Nico Plant	Acetonytryle, IPA		-	· · · · · ·	-		-	·
Ester	r Plant	7	1		12112		1411		The second
23	Scrubber at Ester plant for	Formaldehyde	10 mg/Nm3	Not Runnig	Not Runnig				
	Glyphosate	3			During Visit	During Visit	During Visit	During Visit	During Vis
									1
24	Central Scrubber MCPA Plant	LICI	20	Net Dunnin	Not Domain	Net Dunnin	Not Dunnin	Net Dunnin	Not Runnis
24	Central Scrubber MCPA Plant	HCI	20 mg/Nm3	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit	During Visit	
25	MDD alast seathles	HCI	20 mg/Nm3	Not Runnig	Net Doomin	Not Dunnin	Net Donale	Net Dunnin	Net Dunel
25	MPP plant scrubber	and the second	and the second sec				During Visit		Not Runnig During Visi
		Phosgene	0.1 ppm			1			
		-	and the second						37.2
Atul	West Site	C. Theory and	and service in the	Secolar State	aler and	12.30	100	22/24	10000
26	Shed A05/03/44	CI_2	9 mg/NM ³	7.8	6.7	5.8	6.7	7.1	6.5
		HCI	20 mg/NM ³	10.3	9.6	8.4	9.2	12.7	10.2
27	Shed B2/12/24 Reaction Vessel	Cl ₂	9.0 mg/Nm3	6.7	6.5	5.4	6.5	5.3	4.5
28	01 - 1 D10 (02 (01 D-	HCI	20.0 mg/Nm3	8.3	8.8	12.6	9.3	8.6 14.7	7.3
40	Shed B18/02/24 Fan	SO ₂ Cl ₂	40 mg/NM ³	5.6	4.6	Not Runnig During Visit	16.2	4.8	4.5
		HCI	9 mg/NM ³ 20 mg/NM ³	12.4	10.6		9.3	7.3	6.8
		Carl Store						1	50
29	Shed C5/20/15 Chlorinator	Cl ₂	9.0 mg/Nm3	6.4	5.2	7.3	5.2	6.3	7.2
	The second second	HCI	20.0 mg/Nm3	10.2	12.3	9.8	11.8	10.7	13.3
30	Shed D Niro Spray dryer No. 45	PM	150.0 mg/Nm3	63	56	46	55	32	40
31	Shed D Niro Spray dryer No.50	PM	150.0 mg/Nm3	58	48	62	48	24	Not Runnig
	bild b hat opray alyer house		100.0 mg/ Hms		10	U.L.	10		During Vis
32		PM	150.0 mg/Nm3	Not Runnig	Not Description	Net Deserte	Not Description	N-+ D	N D
32	Shed E 7/12/49 Spray Dryer	PM	150.0 mg/ Nm3		During Visit	Not Runnig During Visit	Not Runnig During Visit	During Visit	Not Runnig During Vis
						100			
		1. J		1		Children of	100		
33	Shed F F6/1/15 Reaction Vessel		9.0 mg/Nm3	5.4	6.7	6.2	6.7	5.1	3.2
		HCI	20.0 mg/Nm3	7.3	8.4	8.2	8.4	7.3	6.8
34	Shed G 10/8/1 (receiver)	Cl ₂	9.0 mg/Nm3	Not Runnig	Not Runnig	Not Runnig	Not Runnig		
		HCI	20.0 mg/Nm3	During Visit	During Vis				
			N. S. S.			Law Law		1.00	
35	Shed H 11/6/17 chlorinator	Cl ₂	9.0 mg/Nm3	6.3	6.8	5.8	5.8	3.2	2.5
35		HCI	20.0 mg/Nm3	15.2	12.5	12.4	11.4	9.7	7.2
35	the second second second	nei						and the second se	
35 36	Shed K K-13/3/4 Final of	SO ₂	2.0 kg/T	0.8	0.6	0.8	0.5	0.4	0.5
	Shed K K-13/3/4 Final of Sulfuric acid plant	to prove the second second		0.8 17.3	0.6 20.5	0.8 15.4	0.5 10.6	0.4 14.3	0.5 10.2
		SO ₂	2.0 kg/T				and the second	Designed and the second	

Sr. No.	Stack Details	Paramenter	Permissible Limits	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value	Obtained Value
38	Shed J12/01/42	SO2	40 mg/NM ³	15.2	10.3	17.2	10.3	13.5	Not Runnig
		CI2	9.0 mg/Nm3	6.3	6.7	7.1	6.2	5.8	During Visit
		HCI	20.0 mg/Nm3	9.4	8.2	12.3	8.6	7.3	
39	Shed J12/03/36	SO2	40 mg/NM ³	14.8	14.8	16.7	14.5	12.5	Not Runnig During Visi
		HCI	20.0 mg/Nm3	9.7	8.4	9.2	8.2	7.2	
40	Shed N Scrubber Fan N20/08/24	CI ₂	9 mg/NM ³	7.2	6.3	6.2	6.7	5.6	7.3
	Anna and the second second	HCI	20 mg/NM ³	13.6	12.8	15.5	12.2	10.4	12.8
41	Shed N Scrubber Fan N20/02/41	SO2	40 mg/NM ³	17.3	13.6	20.4	13.9	14.6	10.2
42	Sulfer Black Plant	H ₂ S		ND	ND	ND	ND	ND	ND
		NHa	175 mg/NM ³	15.7	13.5	22.6	13.5	17.2	16,4
43	Sulfer Dyes plant	H ₂ S		ND	ND	ND	ND	ND	ND
		NH3	175 mg/NM ³	29.6	27.4	34.2	20.4	12.8	10.2
44	MPP plant	HCl	20 mg/NM ³	12.7	9.7	11.6	10.8	9.8	-
45	Flavors & Fragrances Plant	HCI	20 mg/NM ³	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visit		Not Runnig During Visit
Atul	North Site						15		
46	N-FDH Plant Catalytic Incinerator	PM	150.0 mg/Nm3	Not Runnig	Not Runnig		Not Runnig During Visit	Not Runnig During Visit	Not Runnig During Visi
		SO ₂	40.0 mg/Nm3	During Visit	During Visit	During Visit			
		NOx	25.0 mg/Nm3		1.000		100		and the second
		NOx Formaldehyde	25.0 mg/Nm3 10.0 mg/Nm3	1.6.					and an
47	PHIN Plant vessel	10923	-	ND	ND	ND	ND	ND	ND
0.00		Formaldehyde	10.0 mg/Nm3	ND 12.3	ND 12.3	ND 9.8	ND 11.3	ND 9.8	ND 8.2
47	PHIN Plant vessel PHIN - II Plant	Formaldehyde Phosgene	10.0 mg/Nm3 0.1 ppm			2275	States -	100028	5. X.
48		Formaldehyde Phosgene HCI	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3	12.3	12.3	9.8	11.3 ND ND	9.8 ND ND	8.2 ND ND
0.00	PHIN - II Plant	Formaldehyde Phosgene HCI Phosgene	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3	12.3 ND	12.3 ND	9.8 ND	11.3 ND	9.8 ND	8.2 ND
48 49 50	PHIN - II Plant DCDPS Plant	Formaldehyde Phosgene HCI Phosgene SO ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm	12.3 ND ND	12.3 ND ND	9.8 ND ND	11.3 ND ND	9.8 ND ND	8.2 ND ND
48 49 50 51.	PHIN - II Plant DCDPS Plant DDS Plant	Formaldehyde Phosgene HCI Phosgene SO ₃ NH ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm	12.3 ND ND 55.3	12.3 ND ND 55.3	9.8 ND ND 58.4	11.3 ND ND 52.3	9.8 ND ND 48.3	8.2 ND ND 44.1
48 49 50 51. 52	PHIN - II Plant DCDPS Plant DDS Plant SPIC II Plant	Formaldehyde Phosgene HCI Phosgene SO ₃ NH ₃ SO ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm 175 Mg/Nm3 	12.3 ND ND 55.3 ND	12.3 ND S5.3 ND	9.8 ND ND 58.4 ND	11.3 ND ND 52.3 ND	9.8 ND ND 48.3 ND	8.2 ND ND 44.1 ND
48 49 50 51. 52	PHIN - II Plant DCDPS Plant DDS Plant SPIC II Plant SPIC I Plant	Formaldehyde Phosgene HCI Phosgene SO ₃ NH ₃ SO ₃ NH ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm 175 Mg/Nm3 175 mg/Nm3	12.3 ND ND 55.3 ND 68.2	12.3 ND 55.3 ND 68.2	9.8 ND S8.4 ND 101.2	11.3 ND 52.3 ND 72.2	9.8 ND 48.3 ND 68.2	8.2 ND ND 44.1 ND 64.3
48 49 50 51. 52 53	PHIN - II Plant DCDPS Plant DDS Plant SPIC II Plant SPIC I Plant	Formaldehyde Phosgene HCI Phosgene SO ₃ NH ₃ SO ₃ NH ₃ NH ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm 175 Mg/Nm3 175 mg/Nm3	12.3 ND ND 55.3 ND 68.2 45.5	12.3 ND 55.3 ND 68.2 45.5	9.8 ND 58.4 ND 101.2 132.6	11.3 ND 52.3 ND 72.2 88.6	9.8 ND 48.3 ND 68.2 73.4	8.2 ND ND 44.1 ND 64.3 70.5
48	PHIN - II Plant DCDPS Plant DDS Plant SPIC II Plant SPIC IV Plant SPIC IV Plant	Formaldehyde Phosgene HCI Phosgene SO ₃ NH ₃ SO ₃ NH ₃ NH ₃ SO ₃	10.0 mg/Nm3 0.1 ppm 20.0 mg/Nm3 0.1 ppm 175 Mg/Nm3 175 mg/Nm3 175 mg/NM ³ 	12.3 ND ND 55.3 ND 68.2 45.5 7.3	12.3 ND S5.3 ND 68.2 45.5 7.3	9.8 ND ND 58.4 ND 101.2 132.6 4.3	11.3 ND ND 52.3 ND 72.2 88.6 3.6	9.8 ND ND 48.3 ND 68.2 73.4 4.2	8.2 ND ND 44.1 ND 64.3 70.5 3.5

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Annexure IV Noise level monitoring data (Day Time)

Sr. No	Location	Noise Level, dBA						Permissible Limits, dBA
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	75
1	Near Main guest house	56.7	59.7	55.7	55.7	55.7	61.2	75
2	Near TSDF	64.2	61.2	62.3	62.3	62.3	63.7	75
3	At Wyeth Colony	57.3	49.7	53.5	53.5	53.5	54.4	75
4	Gram Panchayat Hall	62.4	60.8	63.5	63.5	63.5	62.5	75
5	Near Main Office North site	60.2	59.2	64.5	64.5	64.5	60.2	75
6	ETP North site	64.3	68.5	63.2	63.2	63.2	64.4	75
7	Opposite shed D	64.8	64.7	66.4	66.4	66.4	67.3	75
8	ETP West site	68.5	62.8	63.7	63.7	63.7	65.5	75
9	Water tank Haria road	59.7	62.6	53.5	53.5	53.5	60.2	75
10	Near 66KVA substation	63.3	68.6	65.2	65.2	65.2	62.5	75

Sr. No	Location	Noise L	Permissible Limits, dBA					
		Oct 19	Nov 19	Dec 19	Jan 20	Feb 20	Mar 20	70
1	Near Main guest house	50.2	52.2	50.6	50.6	51.6	52.2	70
2	Near TSDF	55.7	58.7	54.2	54.2	53.2	54.4	70
3	At Wyeth Colony	44.7	43.7	46.1	46.1	51.1	50.3	70
4	Gram Panchayat Hall	57.3	54.8	58.4	58.4	53.4	54.3	70
5	Near Main Office North site	57.3	54.8	54.2	54.2	56.8	56.2	70
6	ETP North site	58.6	55.3	53.6	53.6	53.2	54.4	70
7	Opposite shed D	60.2	57.3	62.7	60.7	59.2	58.3	70
8	ETP West site	57.8	59.8	60.8	57.8	54.7	55.1	70
9	Water tank Haria road	52.3	55.8	50.3	52.3	54.7	53.2	70
10	Near 66KVA substation	57.2	53.8	63.2	57.2	56.4	55.1	70

Noise level monitoring data (Night Time)