ongc	Oil and Natural Gas Corporation Lt Health Safety and Environment Dept Hazira Plant- Surat Phone no. 0261-2875783/5782	
No: ONGC/H	HZR/HSE/ENV/Six Monthly Report / Apeil - Jept-23	Dated: 04 /12/2023

То

Deputy Director General of Forests (C)

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office, Gandhi Nagar, A-Wing – 407 & 409,

Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar - 382010

Sub: Six monthly compliance status report of MoEFCC stipulation for the period 01/04/2023 to 30/09/2023.

Sir,

Please find enclosed herewith Compliance of Stipulations for Environmental clearance accorded by MoEFCC vide letter No F.No.J-11011/149/2016-IA-II(I) dated 22/03/2018 for Expansion of Hazira Gas Processing Complex by adding Captive Combined Power Plant(CCPP).

With Regards,

Copy to :

(1) Chief HSE, Corporate HSE, ONGC, 3rd floor, Tower A, Deen Dayal Urja Bhavan,5, Nelson Mandela Marg, New Delhi -110 070

(Dinesh Kamble)

GM (P)-I/c Env. Cell

Environmental clearance Accorded by MoEFCC vide letter No. F.No.J-11011/149/2016-IA-II(I) dated 22/03/2018 for Expansion of Hazira Gas Processing Complex by adding Captive Combined Power Plant(CCPP)

No	Stipulations	Implementation Status			
i		Stipulation condition is fully Complied.			
	The company shall revamp the	ETP revamping was carried out in 2012 and was informed during 35 th expert appraisal			
	effluent treatment plant to treat	committee on 11/12 May 2012.(Copy of MOM has been submitted earlier.)			
	the waste water generated from	Later New Equalisation Tank System was installed in WWTP at Hazira Plant for steadier inlet			
	the additional facilities including	loading of ETP units and better control on quality of treated effluent for disposal conforming to			
	waste water from sulphur	GPCB norms on pollution parameters.			
	recovery unit. (This is amended	The treated waste water complies with the standards notified in the Environmental (Protection)			
	condition as per MoEF Letter	Rules 1986.			
	dated 10/10/2012).	Effluent parameters are monitored :-			
	The treated waste water shall	• Continuously by Online metering system measuring flow, pH, COD,BOD ,TSS which is			
	comply with the standards	linked to CPCB server.			
	notified in the Environmental	Daily by Quality & Process Control Laboratory-in house Laboratory,			
	(Protection) Rules 1986.	• Thrice a year during yearly environmental Audit by GPCB nominated agency.			
		(For 2023-24, GPCB had assigned M/s S.N. PATEL RESEARCH CENTRE, UMRAKH,			
		SURAT			
		Detailed Reports is attached (Annexure 1)			

SPECIFIC CONDITIONS CONTINUE	ii	The company shall comply with new standards/norms that are being proposed by the CPCB for petrochemical plants and refineries. Point wise status of CPCB guidelines are as follows :- Vide CPCB directive ONGC is required to install online effluent quality monitoring system to monitor pH,BOD,COD and TSS (for Oil industries) and connect it to GPCB/CPCB server. To install continuous stack and process emission monitoring system for PM, CO, NOx and SO2 and connect and upload emission data to CPCB server	Point wise status of CPCB conditions is given below <u>Stipulation is fully complied.</u> Online effluent quality monitoring system to monitor flow ,pH, BOD,COD and TSS has been installed and Connected to CPCB and GPCB server Effluent report is attached at Annexure 1 for your kind reference. <u>Stipulation is fully complied.</u> Online Continuous monitoring system has been installed at all stack of Hazira Plant which monitors CO, SO2, NOx and PM. The system is linked up to CPCB/GPCB server on real time basis. Their all data is available online at GPCB server.
Stelline Conditions Implementation Status			

iii.	The process emissions (SO2, NOX, HC, VOCs and Benzene) from various units shall conform to the standards prescribed by the Gujarat State Pollution Control Board from time to time. At no time the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the	 <u>Stipulation condition is fully Complied</u>. Yes. These parameters are being monitored form time to time, as per GPCB approval. Yes. Emissions are within the stipulated standards. <u>For Process Emission through Stack (SO2, H2S and HC)</u>: Reports is attached at Annexure 2. Online stack monitors round give data of the Pollutants in flue gases. The data indicates PM, SO2, NOx, HC are very well within limit prescribed by GPCB.
	unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	
No	Stipulations	Implementation Status
iv.	Quarterly monitoring of fugitive	Stipulation condition fully complied
	emissions shall be carried out as per the guidelines of CPCB by	Fugitive emission is regularly checked by HC and H2S detectors though our HSE team. Reports enclosed at Annexure 3 .
	fugitive emission detectors and	enciosed at Annexure 3.
	Reports shall be submitted to the	
	Ministry's regional office at	
	Bhopal.	

v.	For control of fugitive emission	Yes.				
	all unsaturated hydrocarbon will	Stipulation condition fu	lly complied			
	be routed to the flare system and		<u></u>			
	the flare system shall be					
	designed for smoke less burning.					
vi.	The company shall strictly follow	Stipulation Condition is	s complied.			
	all the recommendation		ns of CREP are adhered to.			
	mentioned in the charter on					
	corporate responsibility for					
	environmental protection					
	(CREP).					
vii.	Occupational health surveillance	Stipulation Condition i				
	of worker shall be done on a	Occupational health su	rveillance of worker is being carried out o	n a regular basis by		
	regular basis and records	Occupational Health C	Occupational Health Centre at Hazira Plant. PME of all employees is done at regular interval			
	maintained as per the factories	depending upon age.				
	Act.	PME(Occupational health surveillance Record) data for the period Apr-Sept 2023 available at				
		OHC and tie up details with nearby hospital in case of any emergency is attached at Annexure				
		4.				
viii	Greenbelt shall be developed to	Stipulation condition is	Complied			
	mitigate the effect of fugitive		ned green belt in 34% of project area .G	reenbelt has been developed to		
	emission all around the plant in a		gitive emission all around the plant.			
	minimum 30% plant area in	U U	ed green belts, Miscellaneous green areas	s include Additional plantation,		
	consultation with DFO as per	gardens, lawns and gol				
	CPCB guidelines.		inside campus includes- horticulture plan	tation coconut, Chikoo (sapota)		
		,jamun and mango plantation.				
		• Annually we carry out plantation inside and outside plant.				
		The greenbelt area in plant is given in table below;				
		Direction	Appro. width, length	Estimated dry bushes and t		
			And area			
		GREENBELT-I	W=25 m,L=2.8 Km,A=7.0 Ha	25% area		
				i.e. 1.75 Ha		
		GREENBELT-II	W=250 m,L= 2.3 Km,A=57.5 Ha	35% area		
				i.e.20.13 Ha		

		GREENBELT-III	W=500 m,L=1.0 Km,A= 50) Ha 35% are i.e.20.1		
		GREENBELT-IV	W=300 m,L=3.0 Km,A= 90		ea	
		Area of green belt around periphery of	214.5 На	69 Ha		
		plant Misselleneous groen	25 Ha			
		Miscellaneous green belt	25 Ha			
		Total area under Green belt	240 На			
			reen belt is appr.240 Ha, mal mitted to maintain green belt	0 1	tivities are carried	
			34% of Project area is covere	• 1		
		-	o high sea tide and monsoon f		1 0	
			d hence patchy. Renewed e	Ũ	0	
		1	red area. ONGC is committee	1		
		1	on is being made. Green b	elt developed Layout pl	an is attached at	
		Annexure-5.				
ix.	The Company shall make the suitable arrangement for disposal of catalyst waste and other		<u>s fully complied</u> ptane drums are sold through	tendering to GPCB appro	ved license holder	
	wastes.	agency. Oily sludge, spent activ	vated charcoal is disposed of	to GPCB approved TSDF	/CHWI facilities	
		5 0 1	waste authorization for stora	11		
		already been submitted for your kind reference.				
Disposal of different varieties of waste in tabular form is given below:-						
		waste	Mode of disposal		Copy of agreement	
		0	Collection, storage, transportation	ONGC is member of GPCB approved		

Asbestos gaskets and gland pickingsCollection, storage, transportation Disposal at GPCB approved TSDF site.ONGC is member of GPCB approved TSDF site-M/s Bharuch Enviro Infrastructure LtdUsed oilCollection, storage, transportation & selling to GPCB approved refiners.Infrastructure LtdDiscarded containers-ethyl mercaptan drumsCollection, storage, and decontamination.ONGC is member of GPCB approved member of Infrastructure LtdUsed activated charcoal(spentCollection, storage, transportationONGC is member of GPCB approved	B prization bership already
Asbestos gaskets and gland pickingsCollection, storage, transportationONGC is member of GPCB approved TSDF site-M/s Bharuch Enviro Infrastructure LtdUsed oilCollection, storage, transportation & selling to GPCB approved refiners.Infrastructure LtdDiscarded containers-ethyl mercaptan drumsCollection, storage, and 	brization bership already
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Asbestos gaskets Collection, storage, transportation ONGC is member of GPCB approved TSDF Image: Asbestos gaskets Collection, storage, transportation ONGC is member of GPCB approved TSDF Image: Asbestos gaskets Collection, storage, TSDF site. ONGC is member of GPCB approved TSDF Image: Asbestos gaskets Collection, storage, transportation & selling to GPCB approved refiners. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage and decontamination. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage and decontamination. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage and decontamination. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage, and decontamination. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage, and decontamination. Image: Asbestos gaskets GPCB approved refiners. Image: Asbestos gaskets Collection, storage, and decontamination. Image: Asbestos gaskets GPCB approved	
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mercaptan drums mercaptan drums Used activated collection, storage, charcoal(spent Collection, storage, GPCB approved	
UsedactivatedCollection, transportationstorage,ONGC is member of GPCBapproved	
charcoal(spent transportation GPCB approved	
carbon) Disposal by incineration at TSDF/CHWI site-M/s	
GPCB approved CHWI Bharuch Enviro	
site. Infrastructure Ltd	
The report of waste disposal shall ONGC is Member of M/s Bharuch Enviro Infrastructure LtdGPCB approved TSDF a	and CHWI
be submitted to Ministry's facility.	
Regional Office at Bhopal Membership certificate of TSDF/CHWF site is attached at Annexure-6.	
x. The company shall take necessary Stipulation condition is Complied.	
measures to prevent fire hazards, Oil spill contingency plan is covered in our Disaster management Plan.	
Containing oil spill and soil Existing elevated flare stack with knock out drum is being used for this purpose.	
remediation as needed. Ground flaring is not done at ONGC, Hazira.	
At place of ground flaring the Details of firefighting facility are attached at Annexure 7. Obtaining of Fire NOC from	
overhead flaring stack with knock Competent authority is under process.	m
out drums shall be installed to	m

	minimize gaseous emission	
	during flaring.	
xi.	The company shall carry out Risk	Stipulation condition is Complied.
	assessment study and submit to	
	the Ministry and its Regional	
	Office Bhopal within 3 months	
	from date of issue of this letter.	
xii	The company shall develop green	Stipulation condition is Complied
	belt in 33% area of the project as	
	per the guidelines of the CPCB to	Green belt developed Layout plan is attached at Annexure-5.
	mitigate the effect of fugitive	
	emissions.	
xiii.	To prevent fire and explosion at	Stipulation condition is Complied
	oil and gas facility, potential	Yes .The plant is designed as per OISD standard -118 based on safe layout principle and same is
	ignition sources should be kept to	certified by PESO.
	a minimum and adequate	It may kindly be noted that zone clarification are being mandatorily followed in the day to day O
	separation distance between	& M.
	potential ignition sources and	
	flammable material shall be in	
	place.	
xiv	Provision shall be made for the	Stipulation condition was Compiled during construction phase.
	housing of construction labor	Yes. It is certified that the plant is now completed is operational.
	within the site with all necessary	As provisions laid down in Gujarat Factories Rules, 1963 were followed during construction of
	infrastructure and facilities such	the unit and temporary structures have been removed, the stipulation may please be considered
	as fuel for cooking, mobile,	as complied.
	toilets, Mobile STP, Safe	
	drinking water, medical health	
	care, crèche etc. The housing may	
	be in the form of temporary	
	structures to be removed after the	
	completion of the project.	

General Conditions:

N o i	Stipulations The project authorities must strictly adhere to the stipulations made by the concerned state Pollution Control Board (SPCB) and the State Govt. and any other statutory body.	Stipulation condition is Complied All the stipulations made by State Govt. and State Pollution Control Board are strictly adhered to. GPCB has given CC & A No.AWH-129475 dated 04/10/2023 valid up to 22/04/2029. ONGC; Hazira has strictly adhered to its conditions. (1) Production is within limits of quantity given in CC &A. (2) The effluent quantity and quality is within permissible limits.(Annexure 1) (3) Pollutants in Ambient Air are very much less than maximum permissible limit. (4) Flue gas emission is within permissible limits. (5) Generation of hazardous waste is less than permitted quantity. Hazardous waste is dimensioned to CDCD emprine.
i	No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and forests. In case of deviations or alterations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry.	disposed to GPCB approved agencies. MoEF & CC has granted EC for Modification in the process facilities of Gas and Condensate processing at Hazira plant vide F.No. J-11011/677/2008-IA.II(I) dated 27/04/2017 and MoEF & CC has granted EC for Expansion of Hazira Gas Processing Complex by adding Captive Combined Power Plant(CCPP) vide F.No.J-11011/149/2016- IA-II(I) dated 22/03/2018. No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and forests.
i i i	At no time, the emissions should go beyond the prescribed standards In the event of failure of any pollution control system, the respective well site should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Stipulation Condition is complied Stipulated conditions and recorded data for the period Apr-Sep-2023 is given in table below:- CC & A (AWH-129475 DATED 04/10/2023) accorded to ONGC, Hazira by GPCB has set following permissible limits- Online Continuous monitoring system has been installed at all stack of Hazira Plant which monitors CO, SO2, NOx and PM. The system is linked up to CPCB/GPCB server on real time basis. Their all data is available online at GPCB server. The data indicates CO, SO2, NOx and PM are very well within limit. Further H2S which is not in CC & A is monitored by GPCB approved third party and is within limits.

	Provision of adequate height of stack attached to DG sets and flare is to be done.	The data of last six months and all previous data indicate that the parameters are well within the permissible limits. If by any chance during any upsets, the parameters are deviating from their normal range, necessary corrective actions are taken to correct the parameters and it is ensured that the units are shut down before the prescribed limits are reached Height of flare/ stacks as per design is attached at Annexure-8 . No DG set is installed in Plant.	
Ν	Stipulations	Implementation Status	
0	Waste water shall be properly collected	Stipulation condition is fully Complied	
1	and treated so as to conform to the	Equalization tanks of capacity ensure proper collection and stabilization before treatment.	
v	standards prescribed under EP Act and	The liquid effluents are being treated in WWTP and meet EP act, MINAS Standards and	
•	Rules and mentioned in the Consents	GPCB limits stipulated in CC & A Online monitoring system for final effluent discharged	
	provided by the relevant SPCB.	measuring flow, pH, COD, BOD, TSS is linked to CPCB server.	
		Further, effluent quality is	
		 Daily checked by in house Laboratory, 	
		• Three times a year during yearly Environmental Audit.	
		Detailed Reports of Effluent Analysis test reports is attached (Annexure 1)	
Ν	Stipulations	Implementation Status	
0			
V	The overall noise level is and around the	Stipulation condition is Complied	
	premises shall be limited within the	During Yearly environmental audit, Noise was recorded at 22 locations thrice in year.	
	prescribed standards (75 dBA) by	Data indicates noise level within permissible limits.	
	providing; noise control measures including acoustic hoods, silencers	Details of Noise level Recordings are in Annexure 9 .	
	enclosures etc. on all sources of noise	PPE such as Ear muffs/Ear plug are used in high noise areas as precaution.	
	generation. The ambient noise levels	High noises prone are segregated with proper signage.	
	should conform to the standards	Ear muff/ Ear Plugs have been provided to employees working in high noise areas.	
	prescribed under EPA Rules 1989 viz 75	SOPs are in place to work in high noise areas.	
	dBA (day time) and 70 dBA (night time.).		
v	The project authorities must strictly	Stipulation condition is fully Complied	
i	comply with the provisions made in	Prior approval under Factories Act and Explosives Act has been taken.	

	Manufacture, Storage and import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the expansion project. if required Requisite On-site and Off-site Disaster management Plans will be prepared and implemented.	Storage of ATF :- Storage of Methano Storage of LPG Pha (6 Nos. Spheres):- Storage of LPG Pha (3 Nos. Spheres):- Storage of Propane:	GL :- 31.12.28 Diesel :- 31.12.28 FU):- 31.12.27 r Diesel dispensing unit:- 31.12.28 1 :-31.12.27 Ise-I 30.09.27 Ise-II 30.09.27	31.12.27 Annexure-10.	
v ii	Disposal of hazardous waste shall be as per the Hazardous Waste (Management	Stipulation conditio	n is Complied Mode of disposal		Agreement
11	and Handling) Rules 2003. Authorization from the State Pollution Control Board	waste	Wode of disposal		copy
	must be obtained for collections/ treatment/storage/disposal of hazardous waste.	ETP sludge	Collection,storage,transportationDisposalatapproved TSDF site.	ONGC is member of GPCB approved TSDF/CHWI site-M/s Bharuch Enviro Infrastructure Ltd	approval of
		Asbestos gaskets and gland pickings	Collection, storage, transportation Disposal at GPCB approved TSDF site.	ONGC is member of GPCB approved TSDF site-M/s Bharuch Enviro Infrastructure Ltd	
		Used oil	Collection, storage, transportation and selling to		

			CDCD and a finance		
			GPCB approved refiners.		
		Discarded	Collection, storage and		
		containers-ethyl	decontamination		
		mercaptan drums			
		Used activated	Collection, storage,	ONGC is member of	
		charcoal(spent	transportation Disposal by	GPCB approved	
		carbon)	incineration at GPCB	TSDF/CHWI site-	
			approved CHWI site	M/s BEIL	
		CC&A Authorizatio	on by GPCB for Hazardous v	vaste and form IV has alreaded	ady been submitted
		for your kind refere	nce.		•
		ONGC is Member	of M/s Bharuch Enviro Infi	astructure LtdGPCB ar	proved TSDF and
		CHWI facility.			1
v	The project authorities will provide	Stipulation conditio	n is Complied		
ii	adequate funds as non-recurring and	-	*		
	recurring expenditure to implement the				
i	conditions stipulated by the Ministry of				
	Environment and Forests as well as the				
	State Government along with the				
	implementation schedule for all the				
	conditions stipulated herein				
	The funds so provided should not be				
	diverted from any other purposes.	Funds are not and sl	all not be diverted		
i	The company shall develop rain water		ility of Rain Water Harvesti	ng but found not feasible	
	harvesting structures to harvest the		arat Water resources develop		ernment of Guiarat
Х	runoff water for recharge of ground water.	1 5	trusted the job of feasibility	. 1 `	5
	runon water for recharge of ground water.	Hazira Plant.	in usied the job of feasibility	study for carrying out fam	water narvesting at
			a commine cut aciamotos he	masting of Haring Dlant	
			or carrying out rainwater ha	0	
			ty of recharging the fresh g	roundwater aquifer as the	snanow aquiter is
		already saturated.	1 /1 // 1 11 1 / 1		1
			d, the matter shall be taken u	p with MoEFCC for neces	ssary amendment.
Х	The stipulated conditions will be	Stipulation conditio	n is Complied		
	monitored by the concerned Regional				
	Office of this Ministry /Central Pollution				

	Control Board/State Pollution Control	Six monthly compliance reports are being sent to Regional Office, MoEFCC Gandhi Nagar
	Board.	
	A six monthly compliance report	Monthly Reports in prescribed format is sent to GPCB.
	and the monitored data should be	
	submitted to them regularly.	
	It will also be displayed on Website	The data is displayed on website of company-ongcindia.com
	of the Company.	
xi	The Project Proponent should inform the	Exemption for Public Consultation given by MOEFCC vide letter No. MoEF vide letter No.
	that the project has been accorded	F.No.J-11011/149/2016-IA-II(I) dated 25 th July 2017 as the project is in the Notified
	environmental clearance by the	Industrial area.
	Ministry and copies of the clearance	
	letter are available with the State	
	Pollution Control Board/Committees	
	and may also	
	be seen at Website of the	
	Ministry of Environment and	
	Forests at <u>http://www.env.for.nic.in</u> . This	
	should be advertised within seven days	
	from the date of issue of the clearance	
	letter at least in two local newspapers	
	that are widely circulated in the region	
	of which one shall be in the vernacular	
	language of the locally concerned and a	
	copy of the same should be forwarded	
	concerned Regional office of this	
	Ministry.	
	A separate environment management cell	Stipulation condition is Complied
i	with	Environment Cell headed by GM(P) has been functioning at ONGC, Hazira and report to
	Full-fledged laboratory facilities to carry	CGM –Head HSE(Health, Safety and Environment) who in turn is reporting directly to ED-
	out various management and monitoring	Plant Manager, Hazira Plant, ONGC,
	function shall be set up under the control	Details of persons in Environment Cell with Name and designation are as:-
	of a senior executive.	1. Sh. A. E. Udapure CGM(P)-Head HSE
		2. Sh. Dinesh Kamble GM(P)-Environment Cell.

		3. Sh. Ravish Kumar Sahani AEE(Environment)
xi ii	The project authorities shall inform the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the Project	1 0

ANALYSIS REPORT

Annexure-1:Quality of Treated Effluent

			Consent	An	alysis Resul	ts 10/04/2	023	Analysis Results 10/07/2023			Analysis Results 25/09/2023				
Sr. No.	Parameters	Units	Limit	Proce ss Wate r Sum p-I (O/L)	Process Water Sump – III(O/L)	FEDS -(O/L)	STP Outlet	Process Water Sump –I (O/L)	Process Water Sump – III(O/L)	FEDS -(O/L)	STP Outlet	Process Water Sump –I (O/L)	Process Water Sump – III(O/L)	FEDS- (O/L)	ST P Out let
1	pH	-	6.5 to 8.5	7.24	7.42	7.86	7.56	8.04	7.98	8.12	7.81	7.62	7.42	7.31	7.19
2	Temperature	°C	40	33	32	31		31	30	30		31	30	31	
3	Colour	Pt. Co.	100											30	
4	TSS	mg/L	300	21	16	14	18	08	10	09	12	10	12	09	10
5	Oil & Grease	mg/L	10	3.2	2.8	1.8		4.0	02	04		03	02	02	
6	Chloride	mg/L	600											426	
7	Sulphate	mg/L	1000											438	
8	Phenolic Compound	mg/L	1												
9	Sulphides	mg/L	2	0.04	0.03	0.03	0.03	0.05	0.02	0.03	0.07	0.03	0.16	0.07	0.06
10	Ammonical Nitrogen	mg/L	50											4.6	
11	Total Chromium	mg/L	2												
12	Hexavalent Chromium	mg/L	0.1												
13	B.O.D.(5 days at 20 ⁰ C)	mg/L	30	15	05	07		05	6	18		06	12	09	
14	C.O.D.	mg/L	100	27	24	28		12	12	79		47	19	46	
15	TDS	mg/L	2100											1382	
16	Percent Sodium	mg/L	60											18	
17	Copper	mg/L	2			ND				ND				ND	
18	Nickel	mg/L	2			ND				ND				ND	
19	Zinc	mg/L	5			ND				ND				ND	
20	Cyanide	mg/L	0.2			ND				ND				ND	
21	Fluoride	mg/L	1			ND				ND				ND	
22	Mercury	mg/L	0.01			ND				ND				ND	

Some of the parameters values in column (Analysis Result 25/09/2023) has provided by GPCB Approved Schedule 1 Environmental Auditor, during the month October.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	Permissible limit
			Γ		
	Steam Boiler (58 TPH)			Particulate Matter	150 mg/Nm ³
1		32		SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-1	30		Particulate Matter	150 mg/Nm ³
2				SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-2	30		Particulate Matter	150 mg/Nm ³
3				SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-3	30		Particulate Matter	150 mg/Nm ³
4				SO ₂	100 ppm
				NOx	50 ppm
	KTI Boiler			Particulate Matter	150 mg/Nm ³
5		25		SO ₂	100 ppm
				NOx	50 ppm
	IAES Boiler-3 Nos.			Particulate Matter	150 mg/Nm ³
6		25 (Each)		SO ₂	100 ppm
				NOx	50 ppm
	LPG Furnace			Particulate Matter	150 mg/Nm ³
7		32		SO ₂	100 ppm
				NOx	50 ppm
	KRU-1 Furnace			Particulate Matter	150 mg/Nm ³
8		25		SO ₂	100 ppm
				NOx	50 ppm

Annexure-2: Details of Flue Gas Stack

9	KRU-2 Furnace	27	 Particulate Matter SO ₂ NOx	150 mg/Nm ³ 100 ppm 50 ppm
10	HRSG Boiler	43	 Particulate Matter SO ₂ NOx Mercury	30 mg/Nm ³ 100 mg/Nm ³ 100 mg/Nm ³ 0.03 mg/Nm ³

Process emission through the stack attached to the Incinerator

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	Permissible limit
1	SRU Incinerator	70	Alkali Scrubber	Particulate Matter	150 mg/Nm ³
2	SRU Trains (61 to 66)	28	Alkali Scrubber	SO ₂ HC	40 ppm 45 ppm

<u>Annexure 3-</u> Quality of Flue Gas Stack

Sr.No	Parameters	Geometric mean value for the month- June-2023	Consent Standard
		THERMAX BOILER	
1	PM mg/Nm ³	6.4	150
2	SO ₂ ppm	12.83	100
3	NO _x ppm	45.76	50
		COGEN KTI BOILER	
1	PM mg/Nm ³	7.55	150
2	SO ₂ ppm	78.7	100
3	NO _x ppm	18.26	50
		COGEN HRSG-3	· · · · · · · · · · · · · · · · · · ·
1	PM mg/Nm ³	5.75	150
2	SO ₂ ppm	0	100
3	NO _x ppm	0.1	50
		COGEN HRSG-2	
1	PM mg/Nm ³	12.98	150
2	SO ₂ ppm	15.72	100
3	NO _x ppm	ND	50
		KRU-H902	
1	PM mg/Nm ³	ND	150
2	SO ₂ ppm	21.08	100
3	NO _x ppm	7.0	50
		KRU-H902	
1	PM mg/Nm ³	0.64	150
2	SO ₂ ppm	15.59	100

3	NO _x ppm	4.03	50	
		SRU INCINERA	ATOR	
1	PM mg/Nm ³	9.59	150	
2	SO ₂ ppm	4.79	40	
3	HC ppm	ND	45	
		SRU Trains - 65	· · · · · · · · · · · · · · · · · · ·	
1	PM mg/Nm ³	7.55	150	
2	SO ₂ ppm		40	
3	HC ppm	ND	45	
		SRU Trains -	64	
1	PM mg/Nm ³	0.3	150	
2	SO ₂ ppm	9.17 mg/Nm ³	40	
3	HC ppm	ND	45	
		LPG FURNA	CE	
1	PM mg/Nm ³	1.16	150	
2	SO ₂ ppm	4.59	100	
3	NO _x ppm	0.03	50	
		SRU Trains -	63	
1	PM mg/Nm ³	1.77	150	
2	SO ₂ ppm	10.39 mg/Nm ³	40	
3	HC ppm	ND	45	
		SRU Trains -	62	
1	PM mg/Nm ³	ND	150	
2	SO ₂ ppm	8.56 mg/Nm ³	40	
3	HC ppm	ND	45	
		SRU Trains -	61	
1	PM mg/Nm ³	6.44	150	
2	SO ₂ ppm		40	

3	HC ppm	ND	45	
		COGEN HR	SG-1	
1	PM mg/Nm ³	1.82	150	
2	SO ₂ ppm	52.09	100	
3	NO _x ppm	46.11	50	
		SRU Trains -	- 66	
1	PM mg/Nm ³	7.55	150	
2	SO ₂ ppm	10.7 mg/Nm ³	40	
3	HC ppm	ND	45	
		IAEC BOIL	ERS	
1	PM mg/Nm ³	3.28	150	
2	SO ₂ ppm	40.16	100	
3	NO _x ppm	37.65	50	

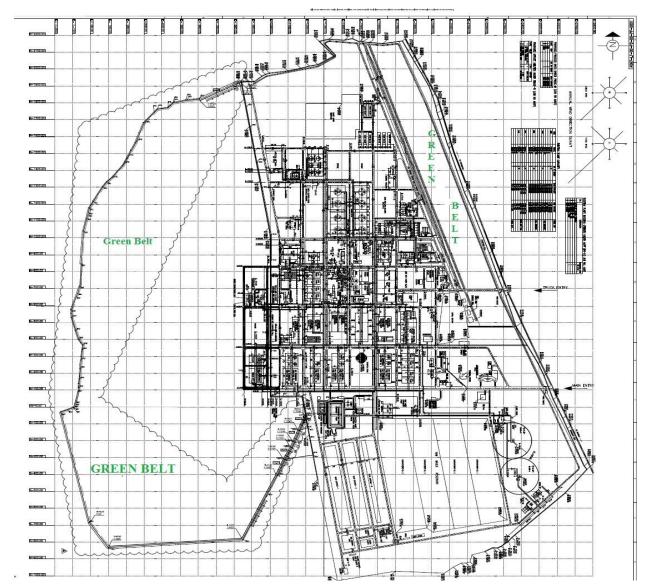
For Stack attached to SRU Incinerator & SRU Trains (61-62), SO₂ Analyzer of OCEMS was malfunctioning for respective month, so we have provided SO₂ data tested by GPCB Approved Schedule 1 Environmental Auditor, during the month october for SRU Trains- 62,63,64 & 66.

Annexure-4: PME Data of ONGC Hazira Plant

Particulars	Number
General PME of regular employees	54
Six Monthly Target group	143
PME(Regular employees)	
Six Monthly Target group	366
PME(Contractual employee)	

Medical hospital Empanelment in the city

SI.	Name & Address	Contact details	Clinic Timings
No.			
	C/	ARDIOLOGY	
01	DR. ALOK RANJAN	9099927100 &	4.00PM TO 8.00 P.M.
	HEART CLINIC 4TH FLOOR, JEEVANDEEP COMPLEX,	9726476016	
	UNAPANI ROAD, LALDARWAJA SURAT-395001		
02	DR. ANUPAM MEHROTRA	9628509636	11.00AM TO 1.00 P.M. & 5.00PM TO 7.00PM (MON
	BANKERS HEART INSTITUTE , KARGIL CHOWK		TO SAT)
	PIPLOAD,SURAT-395007		
03.	DR. ATUL ABHYANKAR	9824145738 &	10.30AM TO 12.30PM & 6.00PM TO 9.00 P.M. (MON
	HEART FIRST CARDIAC AND VASCULAR CENTRE,	0261-2472211	TO SAT)
	2ND FLOOR, 201 MILESTONE LEONE,		
	ATHWA GATE CIRCLE,		
	SURAT-395001		
04.	DR. PRITESH PAREKH	9824157137 &	3.00PM TO 7.00 P.M. (MONDAY TO FRIDAY)
	102-104, JOLLY PLAZA, ATHWA GATE,	0261-2474696 &	
	SURAT -395001	2463386	
	DER	MATOLOGIST	
01.	DR. DIPAK A PATEL	9374711540 &	10.00AM to 1.00PM & 6.30 to 8.00
	9, SHIV SAKTI SOCIETY, B/HWELCOME TOWER,	0261-2763535 &	
	TADWADI, RANDER ROAD	2768335	
	SURAT -395009		
02.	DR. RANI SHAH	9824505161 &	3.00PM to 7.00 pm
	512, WESTRAN BUSINESS PARK, OPP SD JAIN SCHOOL,	0261-2215405	
	UDHANA MAGDALLA ROAD,		
	SURAT-395007		
03.	DR. BHUVNESH SHAH	7405527919 &	9.00AM TO 1.00 P.M. & 5.00PM TO 8.00 P.M.
	301, TAKSHASHILA APARTMENT,	0261-2475200 &	
	MAJURA GATE,	2475600	
	SURAT-395001		



Annexure-5: GREEN BELT ONGC HAZIRA PLANT LAYOUT

Annexure-6 : membership certificate of TSDF/CHWI site

DATE. 07 04 2000 M/s. Oil and Natural Gas Corporation Ltd. (Hazira Gas Processing Complex) ONGC Nagar. P.O. Surat - 394 518. Sub : Membership Certificate for Common Solid Waste Disposal Facility. Dear Sir, We hereby certify that you have become member for the common Solid/Hazardous Waste Disposal Facility of Bharuch Enviro Infrastructure Ltd. at GIDC, Ankleshwar. You have booked solid waste quantity of <u>44 MT/year</u>. You have also paid your capacity commitment charges. Your Membership No. is Oth./28 Thanking you, Yours faithfully, for BHARUCH ENVIRO INFRASTRUCTURE LTD. Britalund B.D. DALWADI Chief Manager (Works) KUMAR SUBADH HAZIRA NNGL

Annexure-7:FIRE FIGHTING FACILITIES AT HAZIRA PLANT

A. DETAILS OF FIXED FIRE FIGHTING SYSTEM / NETWORK

Sr	Item Description	Qty. (Nos.)	Capacity
Ν			
0.			
1.	Fire water tank (Main FWPH)	02	4500 m ³ each tank
2.	Fire water tank (Addl. FWPH)	02	5000 m ³ each tank
3.	Electrical Driven Pumps	04(M) / 02(A)	410 m ³ /hr / 616 m ³ /hr
4.	Diesel Driven Pumps	04(M) / 04(A)	410 m ³ /hr / 616 m ³ /hr
5.	Jockey Pumps	02(M) / 01(A)	50 m ³ /hr

B. DETAILS OF MOBILE FIRE APPLIANCES :

Sr	Item Description	Qty.	Year	Pump	Т	ank Capacit	ty
•		(Nos.)	of	Capacity	Water	Foam	DCP
Ν			Purc				
0.			hase				
1.	Multipurpose F/T (25 TON)	04	2016	450	4500 lts	5500 lts	800 kg
			-18				
2.	Foam Nurser (16 TON)	01	2016	560 lpm	N/A	8000 ltrs	N.A
3.	DCP Tender (16 TON)	01	2022	N/A	N/A	N/A	2000
							Kg.
4.	Rescue Tender (25 TON)	01	2022				
	Total	07					

C. DETAILS OF OTHER FIRE PUMPS:

Sr	Item Description	Qty. (Nos.)	Year of Purchase	Pump Capacity
· N		(1105.)	i ui chase	
0.				
1.	Trailer Fire Pump	01	2018	2250 lpm
2.	Trailer Fire Pump	01	2012	1800 lpm
3.	Portable Fire Pump	03	2008	275 lpm
4.	Floating Pump	01		275 lpm

D. DETAILS OF FIRE FIGHTING EQUIPMENT

Sr. No	Activity/Equipment	Qty
1.	Fire Extinguisher	2245
2.	Hydrants & Monitors	1147 & 245
3.	HVLR	46
4.	Deluge valve along with spray system	56
5.	ROV along with spray system	136
6.	FOAM Pourer system	70
7.	Rim Seal Fire Protection system	08
8	IG-514	02
9	NOVEC-1230	13
10	CO2 Total flooding system	06
11	MPFT/RT/FT	09
12	SCBA Sets	269
13	Wind socks	50
14	Eye wash station	104

15	ELSA	80

E. LIFE SAVING EQUIPMENT

Sr.No:	Equipment	QTY
1.	Self-contained breathing apparatus	269
	(SCBA)	
2.	Emergency Life Saving Apparatus (ELSA)	625

Annexure-8:

Stack Height and Permissible limits of parameters for Process Stack and Flue Gas Stack as per Consent

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	Permissible limit
	1	Γ	Γ	I	
	Steam Boiler (58 TPH)			Particulate Matter	150 mg/Nm ³
1		32		SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-1	30		Particulate Matter	150 mg/Nm ³
2				SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-2	30		Particulate Matter	150 mg/Nm ³
3				SO ₂	100 ppm
				NOx	50 ppm
	HRSG Boiler-3	30		Particulate Matter	150 mg/Nm ³
4				SO ₂	100 ppm
				NOx	50 ppm
	KTI Boiler			Particulate Matter	150 mg/Nm ³
5		25		SO ₂	100 ppm
				NOx	50 ppm
	IAES Boiler-3 Nos.			Particulate Matter	150 mg/Nm ³
6		25 (Each)		SO ₂	100 ppm
				NOx	50 ppm
	LPG Furnace			Particulate Matter	150 mg/Nm ³
7		32		SO ₂	100 ppm
				NOx	50 ppm
	KRU-1 Furnace			Particulate Matter	150 mg/Nm ³
8		25		SO ₂	100 ppm
				NOx	50 ppm

9	KRU-2 Furnace	27	 Particulate Matter SO ₂ NOx	150 mg/Nm ³ 100 ppm 50 ppm
10	HRSG Boiler	43	 Particulate Matter SO ₂ NOx Mercury	30 mg/Nm ³ 100 mg/Nm ³ 100 mg/Nm ³ 0.03 mg/Nm ³

Process emission through the stack attached to the Incinerator

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	Permissible limit
1	SRU Incinerator	70	Alkali Scrubber	Particulate Matter	150 mg/Nm ³
2	SRU Trains (61 to 66)	28	Alkali Scrubber	SO ₂ HC	40 ppm 45 ppm

Ambient Air Parameters and permissible limit

Parameters	Permissible	e limit μg/ m ³
	Annual	24 Hrs Average
PM 10	60	100
PM 2.5	40	60
SO ₂	50	80
NOx	40	80

Annexure-9:NOISE MEASUREMENT

Sr. No.	Lasstian	Noise in dB ,Date-14/09/2023
Sr. No.	Location	Day Time, Permissible limit- 75 dB
1	Main Gate	65.5
2	Near Admin Building	40.5
3	Near LPG	61
4	Near COGEN	71
5	Near SRU	67
6	Near DPD	70
7	Near GSU/GDU	69
8	Near CFU	68
9	Near Canteen	56
10	Near Product Terminal	63
11	Near NFU	65
12	Near KRU	63
13	Near CCPP	61
14	Near ETP	57
15	Near RWTP	55
16	Near Gas Terminal	69
17	flare Area	65
18	Near Training Center	54

Annexure-10: ONSITE & OFFSITE EMERGENCY PLAN

REF. NO. HZR/ISC	o/DIO/SH002 ओएन जीसी Ale C	
	औएन जीसी ्र्रा ONGC	
(Di	te Emergen isaster Management of Hazira Pla	t Plan)
Prepared by	Reviewed by	Approved by
	00,1000-	indh-
18/9/2023	Alla 18 9 20 2	8 egizan

