

Oil and Natural Gas Corporation Ltd Health Safety and Environment Deptt. Hazira Plant- Surat

Phone no. 0261-2875778/5781/5780

No: ONGC/HZR/HSE/ENV/Six Monthly Report /Apr-24 to Sep-24

Dated: 29/11/2024

To

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 01/04/2024 to 30/09/2024.

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,

(R Ramkumar Babu)
GM (P)-I/c Env. Cell

Copy to:

(1)Corporate HSE, ONGC, 3rd floor, Tower A,

Deen Dayal Urja Bhavan, 5, Nelson Mandela Marg, New Delhi -110 070

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 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 the	committee on 11/12 May 2012.(Copy of MOM has been submitted earlier.)
	waste water generated from the	Later New Equalisation Tank System was installed in WWTP at Hazira Plant for steadier
	additional facilities including waste	inlet loading of ETP units and better control on quality of treated effluent for disposal
	water from sulphur recovery unit.	conforming to GPCB norms on pollution parameters.
	(This is amended condition as per	The treated waste water complies with the standards notified in the Environmental
	MoEF Letter dated 10/10/2012).	(Protection) Rules 1986.
	The treated waste water shall comply	Detailed Reports is attached (Annexure 1)
	with the standards notified in the	
	Environmental (Protection) Rules	
	1986.	

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

Stipulation condition is complied.

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.

Stipulation condition is complied.

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.

SPECIFIC CONDITIONS CONTINUE---

No	Stipulations	Implementation Status

iii.	The process emissions (SO2, NOX,	Stipulation condition is complied.
111.	<u> </u>	Yes.
	HC, VOCs and Benzene) from	
	various units shall conform to the	These parameters are being monitored form time to time, as per GPCB approval.
	standards prescribed by the Gujarat	Yes. Emissions are within the stipulated standards.
	State Pollution Control Board from	
	time to time.	For Process Emission through Stack (SO2, H2S and HC): Reports is attached at Annexure
	At no time the emission levels shall go	2.
	beyond the stipulated standards.	
	In the event of failure of pollution	Online stack monitors round give data of the Pollutants in flue gases. The data indicates PM,
	control system(s) adopted by the unit,	SO2, NOx, HC are very well within limit prescribed by GPCB.
	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 is complied.
1 4 .	emissions shall be carried out as per	Fugitive emission is regularly checked by HC detectors.
	the guidelines of CPCB by fugitive	1 againe chinosion is regularly effected by the detectors.
	emission detectors and Reports shall	
	be submitted to the Ministry's	
	regional office at Bhopal.	
v.	For control of fugitive emission all	Yes.
	unsaturated hydrocarbon will be	Stipulation condition is complied.

vi.	routed to the flare system and the flare system shall be designed for smoke less burning. The company shall strictly follow all the recommendation mentioned in the charter on corporate responsibility for environmental protection (CREP).	Stipulation Condition is All the recommendation	s complied. ons of CREP are adhered to.	
vii.	Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the factories Act.	Occupational Health C interval depending upo PME (Occupational he	rveillance of worker is being carried out entre at Hazira Plant. PME of all employ a age. alth surveillance Record) data for the pertie up details with nearby hospital in case.	riod Apr-Sept 2024
viii	Greenbelt shall be developed to mitigate the effect of fugitive emission all around the plant in a minimum 30% plant area in consultation with DFO as per CPCB guidelines.	to mitigate the effect of In addition to design plantation, gardens, law • Additional plantation (sapota), jamun and ma • Annually we can	ned green belt in 34% of project area .G f fugitive emission all around the plant. nated green belts, Miscellaneous green was and golf course:- n inside campus includes- horticulture ango plantation. arry out plantation inside and outside plant plant is given in table below;	n areas include Additional plantation coconut, Chikoo nt.
		GREENBELT-II GREENBELT-III	Appro. width, length And area W=25 m,L=2.8 Km,A=7.0 Ha W=250 m,L= 2.3 Km,A=57.5 Ha W=500 m,L=1.0 Km,A= 50 Ha	Estimated dry bushes a 25% area i.e. 1.75 Ha 35% area i.e.20.13 Ha 35% area i.e.20.12 Ha

		GREENBELT-IV	W=300 m,L=3.0 Km,A= 90 Ha	30% area
				i.e.27 Ha
		Area of green belt	214.5 Ha	69 Ha
		around periphery of		
		plant		
		Miscellaneous green	25 Ha	
		belt		
		Total area under	240 Ha	
		Green belt		
		Thus total area under g	reen belt is appr.240 Ha, making 34 % of p	lant area.
		ONGC, Hazira is com	mitted to maintain green belt area and tre	e plantation activities are
		carried out from time	to time. 34% of Project area is covered	by plants, However, it is
		submitted that the refe	rred area is prone to high sea tide and mor	asoon flood so difficult to
			een cover in such area and hence patchy. F	
		1	ove plantation in the referred area. ONGC is	<u> </u>
			nd and suitable fund provision is being ma	-
				de. Green ben developed
		Layout plan is attached	i at Annexure-4.	
х.	The Company shall make the suitable	Stipulation condition is	s complied	
	arrangement for disposal of catalyst	Supulation Condition is	<u>s compilea.</u>	
	waste and other wastes.	Report of waste dispos	al is attached at Annexure-5 .	
		r		
	The report of waste disposal shall be			
	submitted to Ministry's Regional			
	Office at Bhopal			
	The company shall take necessary	Stipulation condition is	s Complied.	
	measures to prevent fire hazards,		lan is covered in our Disaster management	Plan.
	Containing oil spill and soil		stack with knock out drum is being used fo	
	remediation as needed.	Ground flaring is not d	<u> </u>	
	At place of ground flaring the	Details of firefighting t	facility are attached at Annexure 6.	
	overhead flaring stack with knock out			

xi.	drums shall be installed to minimize gaseous emission during flaring. The company shall carry out Risk assessment study and submit to the Ministry and its Regional Office Bhopal within 3 months from date of issue of this letter.	Stipulation condition is Complied.
xii	The company shall develop green belt in 33% area of the project as per the guidelines of the CPCB to mitigate the effect of fugitive emissions.	Stipulation condition is Complied Green belt developed Layout plan is attached at Annexure-4.
xiii.	To prevent fire and explosion at oil and gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material shall be in place.	Stipulation condition is Complied Yes .The plant is designed as per OISD standard -118 based on safe layout principle and same is certified by PESO.
xiv	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile, 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.	Stipulation condition was Compiled during construction phase. Yes.

General Conditions:

	Stipulations	
N o		Implementation Status
i.	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.
i 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.	MoEFCC 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 MoEFCC 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-2024 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-7 . No DG set is installed in Plant.
No	Stipulations	Implementation Status
iv.	Waste water shall be properly collected and treated so as to conform to the standards prescribed under EP Act and Rules and mentioned in the Consents provided by the relevant SPCB.	 Stipulation condition is complied. Equalization tanks of capacity ensure proper collection and stabilization before treatment. The liquid effluents are being treated in WWTP and meet EP act, MINAS Standards and GPCB limits stipulated in CC & A Online monitoring system for final effluent discharged 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)
No	Stipulations	Implementation Status
V	The overall noise level is and around the premises shall be limited within the prescribed standards (75 dBA) by providing; noise control measures including acoustic hoods, silencers enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules 1989 viz 75 dBA (day time) and 70 dBA (night time.).	Stipulation condition is Complied PPE such as Ear muffs/Ear plug are used in high noise areas as precaution. High noises prone are segregated with proper signage. Ear muff/ Ear Plugs have been provided to employees working in high noise areas.
vi	The project authorities must strictly comply with the provisions made in Manufacture, Storage and import of Hazardous Chemicals Rules 1989 as	Stipulation condition is complied. Prior approval under Factories Act and Explosives Act has been taken. Factory License – Valid till 31.12.2028 Explosive License –

	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 Offsite Disaster management Plans will be prepared and implemented.	Storage of SKO & Diesel :- 31.12.28 Storage of HSD (NFU):- 31.12.27
vii	Disposal of hazardous waste shall be as per the Hazardous Waste (Management and Handling) Rules 2003. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/storage/disposal of hazardous waste.	Stipulation condition is Complied GPCB has given CC & A No.AWH-129475 dated 04/10/2023 valid up to 22/04/2029

viii	The project authorities will provide adequate funds as non-recurring and recurring expenditure to implement the 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.	Stipulation condition is Complied
ix.	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water	Explored the possibility of Rain Water Harvesting but found not feasible In the past M/S Gujarat Water resources development corporation (A Government of Gujarat undertaking) was entrusted the job of feasibility study for carrying out rainwater harvesting at Hazira Plant. Feasibility study for carrying out rainwater harvesting at Hazira Plant, recommended that there is no feasibility of recharging the fresh groundwater aquifer as the shallow aquifer is already saturated. However, as advised, the matter shall be taken up with MoEFCC for necessary amendment.
X	The stipulated conditions will be monitored by the concerned Regional Office of this Ministry /Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly. It will also be displayed on Website of the Company.	Stipulation condition is Complied Six monthly compliance reports are being sent to Regional Office, MoEFCC Gandhinagar. The data is displayed on website of company-ongcindia.com
xi	The Project Proponent should inform the that the project has been accorded environmental clearance by the	Exemption for Public Consultation given by MOEFCC vide letter No. MoEF vide letter No. F.No.J-11011/149/2016-IA-II(I) dated 25 th July 2017 as the project is in the Notified 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 http://www.env.for.nic.in . 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.	
xii	A separate environment management	Stipulation condition is Complied
	cell 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	
	of a senior executive.	Hazira has the laboratory facilities and skilled personnel environmental quality monitoring of
		various environmental components. Sulphur Recovery Unit (SRU) Lab and Gas Sweeting
		Unit (GSU) Lab monitors H2S and Hydrocarbons in various streams including vent gases.
		Effluent Lab monitors pH, TSS, Oil & Grease, COD, BOD, Sulphide in Process Waste Inlet
		& outlet (PWS I & PWS III), Final effluent and storm water drain. In addition pH, TSS,
		Sulphide and free chlorine in sanitary outlet is monitored. Details of Laboratory facilities have
		already been submitted for your reference.
		In view of above it may be treated as complied

xiii	The project authorities shall inform the	The project started on 27/09/2023.
	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	

ANALYSIS REPORT

Annexure-1: Quality of Treated Effluent:

	FEDS (Final Effluent Discharge Sump) Quality Parameters- Monthly Average Value										
Sr.	Parameters	Permissible	April-24	May-24 June-24		July-24	Aug-24	Sep-24			
No		Limit									
1.	pН	6.5-8.5	8.11	8.17	7.76	7.61	7.04	6.99			
2.	TSS (PPM)	100	30.3	25.19	22.63	23.58	23.61	27.8			
3.	Sulphide (PPM)	2	0.06	0.05	0.11	0.09	0.07	0.25			
4.	Oil & Grease (PPM)	10	4.7	4.13	4.37	4.55	5.16	4.97			
5.	BOD (PPM)	30	13.37	8.23	8.73	8.32	8.03	7.4			
6.	COD (PPM)	100	41.87	26.55	28.13	25.81	23.87	23.37			

Annexure 2: Quality of Flue Gas Stack

Sr.No	Parameters	Geometric mean value for the month July-Sep 2024	Consent Standard
		THERMAX BOILER	·
1	PM mg/Nm ³	3.98	150
2	SO ₂ ppm	8.07	100
3	NO _x ppm	26.13	50
		COGEN KTI BOILER	·
1	PM mg/Nm ³	8.96	150
2	SO ₂ ppm	16.97	100
3	NO _x ppm	4.44	50
		COGEN HRSG-3	·
1	PM mg/Nm ³	1.41	150
2	SO ₂ ppm	3.28	100
3	NO _x ppm	5.62	50
		COGEN HRSG-2	·
1	PM mg/Nm ³	7.16	150
2	SO ₂ ppm	19.02	100
3	NO _x ppm	7.74	50
		KRU-H901	
1	PM mg/Nm ³	5.98	150
2	SO ₂ ppm	6.95	100
3	NO _x ppm	2.76	50
		KRU-H902	
1	PM mg/Nm ³	1.64	150
2	SO ₂ ppm	0.9	100
3	NO _x ppm	9.16	50
		LPG FURNACE	

1	PM mg/Nm ³	1.13	150							
2	SO ₂ ppm	0.09	100							
3	NO _x ppm	5.5	50							
	COGEN HRSG-1									
1	PM mg/Nm ³	5.15	150							
2	SO ₂ ppm	6.87	100							
3	NO _x ppm	27.65	50							
		IAEC BOILERS								
1	PM mg/Nm ³	5.32	150							
2	SO ₂ ppm	11.51	100							
3	NO _x ppm	1.96	50							

Process Stack Emission:

Sr.No	Parameters	Geometric mean value for the month July-	Consent		
		Sep 2024	Standard		
		SRU STACK-61			
1	PM mg/Nm ³	2.47	150		
2	SO ₂ ppm	23.89	40		
3	HC ppm				
		SRU STACK-62			
1	PM mg/Nm ³	ND	150		
2	SO ₂ ppm	12.85	40		
3	HC ppm		45		
		SRU STACK-63			
1	PM mg/Nm ³	2.47	150		
2	SO ₂ ppm	23.89	40		
3	HC ppm		45		

	SRU STACK-66							
1	PM mg/Nm ³	ND	150					
2	SO ₂ ppm	12.85	40					
3	HC ppm		45					

Ambient Air Monitoring:

Sr. No.	Parameter	Monthly Average							
	(μg/Nm3)	Apr-24	May-24	June-24	July-24	Aug-24	Sep-24	Consent Limit	
1	PM 10	43.81	45.01	31.05	17.12	21.16	27.95	100	
2	PM 2.5	24.19	25.45	19.18	10.48	11.34	14.87	60	
3	SO_2	10.22	4.1	0.7	0.1	2.29	5.21	80	
4	NO _x	24.54	11.88	9.17	9.69	9.72	10.06	80	

Annexure-3: PME Data of ONGC Hazira Plant

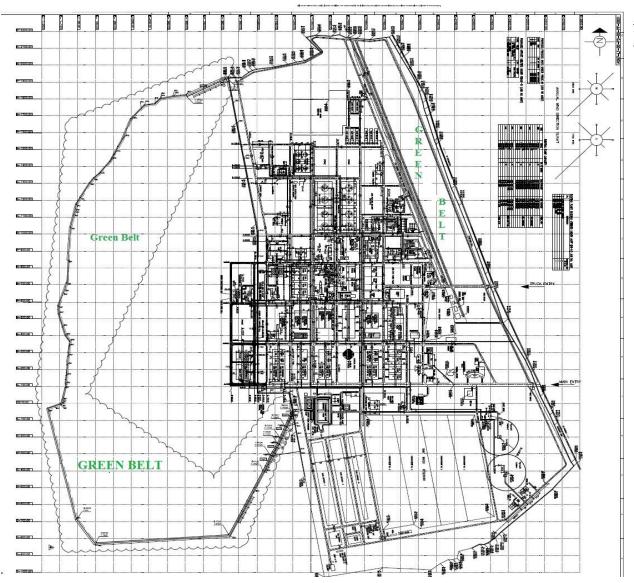
Particulars	Number
General PME of regular employees	28
Six Monthly Target group PME(Regular	130
employees)	
Six Monthly Target group	402
PME(Contractual employee)	

Medical hospital Empanelment in the city

SN	Name	Address	Contact
1	Anand Hospital	1/5, 68b, Athughar Street, Timaliawad, Nanpura, Surat	2474268; 2474229; 9879044491
2	Banker's Cardiology Pvt Ltd	Opp. Lakeview Garden B/H Shardayatan School Floral Park Road, Umra, Surat	2324004; 2320404; 2252123; 8511174103
3	Baps Pramukhswami Hospital	Shri Pramukh Swami Maharaj Marg, Adajan Char Rasta, Surat,	2781000; 9879373901
4	Harsh Hospital & Maternity Home	Shakuntal "B" Apt., Nr. Sanghvi Tower, Gujarat Gas Circle, Adajan Road, Surat.	2781652; 9978987222; 9374593366
5	Metas Of Seventh-Day Adventist Mission Hospital	Athwalines, Surat-1	2667591-95; 3047777; 9574002121
6	Nirmal Multispecialty Hospital	Ring Road, Surat- 395002	2333999; 2332999; 2331999; 9909945476; 9909940905

7	Bombay Maternity & Surgical Hospital	202, 2nd Floor, Bhagwati Ashish-2, Above New Janta Ice- Cream, Prem Prakash Circle, City Light Road, Surat	2253954
8.	Me & Mummy Hospital	3rd Floor, Jalnidhi Complex, Opp. Bahumali Bldg., Nanpura, Surat	2471111; 2472222; 6777000; 9909091444
9.	Kadhiwala Orthopaedic Hospital	Athul 4gar Street , Near Sbi Bank, Nanpura, Surat	2464344; 2474344; 9712912735
10.	Surat Life Care Pvt. Ltd (Unique Hospital)	Opp. Kiran Motor, Nr. Canal, Civil Char Rasta, Sosyo Circle Lane, Off Ring Road, Surat	0261 6776600, 2636318/19
1.1	INS Hospital	Nr. Valentino Business Hub Opp. Khatodra BRTS Bus Stand Surat	0261- 2706000/270 6060
12.	Green Leaf Hospital (unit of Surat Medicare IIp)	3rd & 4th Floor, Western Vesu Point, Vesu Char Rasta, Surat	0261 2203550-99
13.	Kiran Multi Super Specialty & Research Centre	Nr Sumul Diary, Katargam Surat	0261- 7161111
14	Shivam Retina Clinic & Eye Hospital	Hg-1-G, ITC Building, Majura Gate, Ring Road, Surat-395001	02612464414 /489441
15.	Param Hospital	Canal(brts) Road, Near Polaris Mall, Punagam, Surat-394530	9624240933/ 44/55
16	United Green Hosptial	Green Atria, Beside Silver Park Society In Front Of Sneh-Sankul Wadi, Anand Mahal Road, Adajan, Surat	02617199000 /001
17.	Nirali Cancer Hospfial	AM Naik Health Care Complex Survey No. 1522/p/2, Opp. GIDC Kabilpore, NH-48, Ganesh Sisodra, Dist. Navsari	9106067269

18.	Vision Eye super-specialty Hospital	3rd Floor, Union Point, Nr. Kakadia Complex, Parle Point, Ghod-dod Road, Surat - 395 007	9879207604	
19.	Eye Q Vision Pvt. Ltd	2/3rd Floor, Raina Arcade, Nr. Navyug College, Rander Road, Surat	07824015453 /9722527141	



Annexure-4: GREEN BELT ONGC HAZIRA PLANT LAYOUT

Annexure-5: Waste Disposal Report (Annual Hazardous waste Report- 2023-24)

FORM-IV (See Rule 9(2)

To be submitted to the state Pollution Control Board Format for the submission of returns, regarding disposal of hazardous waste (For the period April 2023 to March 2024)

- Name and address of the occupier/operator of facility: Oil & Natural gas Corporation Ltd, Hazira Plant, Surat 394518.
- Categories of waste generated & quantity (in MT's):
- ETP Sludge- 2.94 MT
- Used Oil –5.04 MT
- Empty Barrels/containers/liners contaminated with hazardous chemicals/wastes- 2.5 MT
- Spent Carbon or Filter Medium —Nil
- Discarded Asbestos- Nil

4.	Details of Wast	e disposal operation	:		Made of	Site of disposal	Brief description of the	Date of	Remarks
No	Date of Issuance of authorization for the disposal of hazardous waste and its reference	Description of Hazardous Physical form and contents	Waste Chemical form	Total Volume of the Hazardous waste disposal with No. of packages	Mode of Transportation to the site of disposal	(attach a sketch showing the location(s) of disposal	method of disposal	disposal	
1	number CCA No AWH-	ETP sludge	Dry Sludge	2.94 MT	-		ETP Sludge is stored in storage pit and treated through Bioremediation by OTBL.	05/03/2024	Process is ongoing
2.	129475 dated 04/10/2023. Valid up to	Used activated charcoal/spent carbon	Granules	Nil	Nil	nil .	W to		
3	Valid up to 22/04/2029.	Empty Barrels/containers/liners contaminated with hazardous	Drum	Nil	Nil	Nil	,		
4		chemicals/wastes Used oil	Thick burnt Oil	5.04 MT	By Road	M/S Karim Corporation Ahmedabad	Through GPCB registered recyclers	13/10/2023	

5: Details of environmental Surveillance

Analysis of ground water samples Analysis of soil samples				Analysis of air sampling			Analysis of any Measurement				
Date	Location of Sampling	Depth of sampling	Date	Location of Sampling	Depth of sampling	Date	Location of Sampling	sampling	Date	Location of Sampling	Depth of sampling
-NA			-NA-			Continues Plant for n Ambient a schedule 1st: 17.10.	air stations are installed ptured in the AAQMS is Emission Monitoring monitoring Stack Emission Horizon Stack Emission Horizon Stack Emission quality/Environmental Auditor: 2023-19.10.2023 2022-29.12.2022 2024	-NA-		Ph. s.	

^{*} ONGC Hazira Plant follows the approved practices for disposal of all hazardous waste.

Place: Hazira Plant, Surat Date : 27/08/2024

आर रामकुमार बाबु / R RAMKUMAR BABU महाप्रवेधक (उत्पादन)/ GM (PROD.) ओ. एन. जी. सी. इजीरा संयंत्र, सूरत ONGC HAZIRA PLANT, SURAT.

1 1/4 6

(R Ramkumar Babu) GM (P) I/c -Env, ONGC Hazira Plant

^{**} GPCB Nominated Auditors M/s, Centre for Environment Research of S. N. Patel Institute of Technology and Research Centre, Umrakh, Bardoli, Surat carried out Environment Audit of ONGC Hazira Plant thrice in year, as per the GPCB mandated audit norms, to verify and confirm that our operations are as per our CC&A, valid till 2029.

Annexure-6: FIRE FIGHTING FACILITIES AT HAZIRA PLANT

A. DETAILS OF FIXED FIRE FIGHTING SYSTEM / NETWORK

Sr. No	Item Description	Qty. (Nos.)	Capacity
•			
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	Tank Capacity		y
No		(Nos.)	of	Capacity	Water	Foam	DCP
•			Purch				
			ase				
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				
	-	0					
	Total	07					

C. DETAILS OF OTHER FIRE PUMPS:

Sr. No	Item Description	Qty. (Nos.)	Year of Purchase	Pump Capacity
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.	Activity/Equipment	Qty
No		
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-7:
<u>Stack Height and Permissible limits of parameters for Process Stack and Flue Gas Stack as per Consent</u>

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control System	Parameter	Permissible limit
	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
8	KRU-1 Furnace	25		Particulate Matter	150 mg/Nm ³
8		23		SO ₂	100 ppm

			NOx	50 ppm
	KRU-2 Furnace		 Particulate Matter	150 mg/Nm ³
9		27	SO ₂	100 ppm
		27	NOx	50 ppm
	HRSG Boiler		 Particulate Matter	30 mg/Nm ³
10		43	SO ₂	100 mg/Nm ³
10		43	NOx	100 mg/Nm^3
			Mercury	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 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-08: ONSITE & OFFSITE EMERGENCY PLAN

Doc. No.: HZR/HSE/OEP-DMP

ON-SITE EMERGENCY PLAN

(May - 2024)



ONGC, Hazira Plant, Surat

Reviewed by	Co-Reviewed by	Approved by	
275/2024	, Oldstone 2224	Overvar 29:5:24	
V A Rao	A E Udapure	Chandra Shekhar	
GM(P)-HSE	CGM-Head HSE	ED-Plant Manager	

Offsite Emergency Plan Of Hazira Plant

(Revision-13)



Updated September, 2023

Prepared by

Reviewed by

Approved by

V A Rao

GM(P)-HSE

Reviewed by

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Plant Manager

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