



Oil and Natural Gas Corporation Ltd
Health Safety and Environment Deptt.
Hazira Plant- Surat
Phone no. 0261-2875778

No: ONGC/HZR/HSE/ENV/Six Monthly EC Compliance Report /April to September-2025

Dated: 01/12/2025

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 01/04/2025 to 30/09/2025.

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,

(Setu Goyal)
CE (Env)- HSE
ONGC, Hazira Plant

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)

SPECIFIC CONDITIONS		
No	Stipulations	Implementation Status
i	The company shall revamp the effluent treatment plant to treat the waste water generated from the additional facilities including waste water from Sulphur recovery unit. (This is amended condition as per MoEF Letter dated 10/10/2012). The treated waste water shall comply with the standards notified in the Environmental (Protection) Rules 1986.	<u>Stipulation condition is Complied.</u> ETP revamping was carried out in 2012 and was informed during 35th expert appraisal committee on 11/12 May 2012. (Copy of MOM has been submitted earlier.) Later New Equalisation Tank System was installed in WWTP at Hazira Plant for steadier inlet loading of ETP units and better control on quality of treated effluent for disposal conforming to GPCB norms on pollution parameters. The treated waste water complies with the standards notified in the Environmental (Protection) Rules 1986. Detailed Reports is attached (Annexure 1)

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 condition is complied.</u> Online effluent quality monitoring system to monitor flow ,pH, BOD,COD and TSS has been installed and connected to CPCB/ GPCB server Effluent report is attached at Annexure 1 for kind reference. <u>Stipulation condition is 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. Reports is attached at Annexure 2.
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 unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	<u>Stipulation condition is 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>

		Online stack monitors round give data of the Pollutants in flue gases. The data indicates PM, SO ₂ , NO _x , HC are very well within limit prescribed by GPCB.
iv.	Quarterly monitoring of fugitive emissions shall be carried out as per the guidelines of CPCB by fugitive emission detectors and Reports shall be submitted to the Ministry's regional office at Bhopal.	<u>Stipulation condition is complied.</u> Fugitive emission is regularly checked by HC detectors.
v.	For control of fugitive emission all unsaturated hydrocarbon will be routed to the flare system and the flare system shall be designed for smoke less burning.	<u>Yes.</u> <u>Stipulation condition is complied.</u>
vi.	The company shall strictly follow all the recommendation mentioned in the charter on corporate responsibility for environmental protection (CREP).	<u>Stipulation Condition is complied.</u> All the recommendations 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.	<u>Stipulation condition is complied.</u> Occupational health surveillance of worker is being carried out on a regular basis by Occupational Health Centre at Hazira Plant. PME of all employees is done at regular interval depending upon age. PME (Occupational health surveillance Record) data for the period April 2025- September 2025 available at OHC and tie up details with nearby hospital in case of any emergency is attached at Annexure 3.
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.	<u>Stipulation condition is Complied</u> Yes. We have maintained green belt in 43.35 of project area as per the latest assessment by IIFM, Bhopal.
ix.	The Company shall make the suitable arrangement for disposal of catalyst waste and other wastes.	<u>Stipulation condition is complied.</u>

	The report of waste disposal shall be submitted to Ministry's Regional Office at Bhopal	Latest Hazardous Waste Disposal Report submitted to GPCB is attached as Annexure-4
x.	The company shall take necessary measures to prevent fire hazards, Containing oil spill and soil remediation as needed. At place of ground flaring the overhead flaring stack with knock out drums shall be installed to minimize gaseous emission during flaring.	<u>Stipulation condition is Complied.</u> Oil spill contingency plan is covered in our Disaster management Plan. Existing elevated flare stack with knock out drum is being used for this purpose. Ground flaring is not done at ONGC, Hazira. Details of firefighting facility are attached at Annexure 5.
xi.	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.	<u>Stipulation condition is Complied.</u>
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.	<u>Stipulation condition is Complied</u> Yes. We have maintained green belt in 43.35 of project area as per the latest assessment by IIFM, Bhopal.
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.	<u>Stipulation condition is Complied</u> 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.	<u>Stipulation condition was Compiled during construction phase.</u> Yes.

GENERAL CONDITIONS		
No	Stipulations	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.	<u>Stipulation condition is Complied</u> 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.
ii	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.
iii	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. Provision of adequate height of stack attached to DG sets and flare is to be done.	<u>Stipulation Condition is complied</u> 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, NO_x 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, NO_x and PM are very well within limit. 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-6. No DG set is installed in Plant.
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.	<u>Stipulation condition is complied.</u> 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)
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.).	<u>Stipulation condition is Complied</u> 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 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.	<u>Stipulation condition is complied.</u> Prior approval under Factories Act and Explosives Act has been taken. Factory License – Valid till 31.12.2028 Explosive License – Storage of ARN / NGL :- 31.12.28 Storage of SKO & Diesel :- 31.12.28 Storage of HSD (NFU):- 31.12.27 Storage of HSD for Diesel dispensing unit:- 31.12.27 Storage of ATF :- 31.12.28

	If required Requisite On-site and Off-site Disaster management Plans will be prepared and implemented.	Storage of Methanol :-31.12.27 Storage of LPG Phase-I (6 Nos. Spheres):- 30.09.27 Storage of LPG Phase-II (3 Nos. Spheres):- 30.09.27 Storage of Propane:- 30.09.27 Onsite and offsite Emergency plan are available.
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.	<u>Stipulation condition is Complied</u> 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.	<u>Stipulation condition is Complied</u>
ix.	The company shall develop rain water harvesting structures to harvest the runoff water for recharge ground water.	<u>Explored the possibility of Rain Water Harvesting but found not feasible</u>

		In the past M/S Gujarat Water resources development corporation (A Government of Gujarat undertaking) was entrusted with 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.
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.	<u>Stipulation condition is Complied</u> 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 public that the project has been accorded environmental clearance by the 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 to the concerned Regional office of this Ministry.	Exemption for Public Consultation given by MOEFCC vide letter No. MoEF vide letter No. F.No.J-11011/149/2016-IA-II (I) dated 25th July 2017 as the project is in the Notified Industrial area.

xii	A separate environment management cell with Full-fledged laboratory facilities to carry out various management and monitoring function shall be set up under the control of a senior executive.	<u>Stipulation condition is Complied</u> Environment Cell headed by CGM– Head HSE (Health, Safety and Environment) has been functioning at ONGC, Hazira with skilled manpower for Environment Management. Hazira has laboratory facilities (QPCL) and skilled personnel for monitoring various Environmental components. 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 are monitored.
xiii	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	The project started on 27/09/2023.

ANALYSIS REPORT

Annexure-1: Quality of Treated Effluent:

FEDS (Final Effluent Discharge Sump) Quality Parameters- Monthly Average Value								
Sr.No	Parameters	Permissible Limit	April-25	May-25	June-25	July-25	August-25	September-25
1.	pH	6.5-8.5	8.05	7.98	7.84	7.88	7.73	7.16
2.	TSS (PPM)	100	19	20.77	24.23	28	41	34
3.	Sulphide (PPM)	2	0.09	0.14	0.16	0.14	0.28	0.09
4.	Oil & Grease (PPM)	10	4	4	3.57	3	4	3
5.	BOD (PPM)	30	7	8.35	8.17	6	9	6
6.	COD (PPM)	100	23	27.29	28.53	20	32	21

Annexure 2- Quality of Flue Gas Stack/ Process Stack Emission:

Process Stack	NOx	PM	SO2
	Permissible Value(mg/Nm3)		
	350	150	104.8
	Average Value for April 2025 (mg/Nm3)		
SRU_61	2.22	6.95	0.18
SRU_62	4.07	11.25	0.0
SRU_63	30.75	40.43	0.18
SRU_64	36.4	1.8	4.86
SRU_66	8.11	1.0	88.86
Flue Gas Stack	NOx	PM	SO2
	Permissible Value(mg/Nm3)		
	94	150	262
	Average Value for April 2025 (mg/Nm3)		
HRSG 1	4.95	3.57	3.33
HRSG 2	7.2	1.5	10.48
HRSG 3	0.19	1.76	0.37
KTI	4.24	0.66	19.01
LPG	22.91	3.07	0.0
KRU 1	0.45	4.53	17.03
KRU 2	0.89	1.09	3.88
Thermax	0.91	0.82	1.69

Ambient Air Quality Monitoring Data:

Ambient Air Quality Data FY 2025-26 (Till Sep-25) ,ONGC Hazira Plant									
Parameter	Permissible Limit		Unit	24 hourly Average values					
	Annual	24 Hrs Average		Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
SO2	50	80	µg/m ³	5.64	4.27	4.63	6.67	7.15	7.32
NOx	40	80	µg/m ³	30.23	19.24	18.17	24.52	20.83	21.76
PM2.5	40	60	µg/m ³	20.15	9.57	13.61	19.26	15.35	16.08
PM10	60	100	µg/m ³	33	25.20	33.42	36.27	30.76	39.81

Annexure-3: PME Data of ONGC Hazira Plant

Particulars	Number
General PME of regular employees	149
Six Monthly Target group PME(Regular employees)	188
Six Monthly Target group PME(Contractual employee)	174

Annexure-4: Waste Disposal Report (Annual Hazardous Waste Report 2024-25)

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 2024 to March 2025)

1. Name and address of the occupier/operator of facility: Oil & Natural gas Corporation Ltd, Hazira Plant, Surat - 394518.

2. Categories of waste generated & quantity (in MT's):

- ETP Sludge- 0.944 MT
- Used Oil - 4.768 MT
- Empty Barrels/containers/liners contaminated with hazardous chemicals/wastes- 105 MT.
- Spent Carbon or Filter Medium —Nil
- Discarded Asbestos- Nil

3. Details of waste treatment operation

SL NO	Name of Hazardous Waste	Treatment
1.	ETP sludge	ETP Sludge is stored in storage pit and treated through Bioremediation.
2.	Used activated charcoal/spent carbon	Wash with water before removal from filter and filled in plastic bags.
3.	Empty Barrels/containers/liners contaminated with hazardous chemicals/wastes	Treated with zinc acetate solution (method approved by M/S NEERI Nagpur) and stored in main stores for disposal after decontamination.
4.	Used oil	Stored in drums at site and sent to main stores for disposal to GPCB registered refiners.

4. Details of Waste disposal operation

No	Date of Issuance of authorization for the disposal of hazardous waste and its reference number	Description of Hazardous Waste Physical form and contents	Chemical form	Total Volume of the Hazardous waste disposal with No. of packages	Mode of Transportation to the site of disposal	Site of disposal (attach a sketch showing the location(s) of disposal)	Brief description of the method of disposal	Date of disposal	Remarks
1	CCA No. - AWH-129475 dated 04/10/2023. Valid up to 22/04/2029.	ETP sludge	Dry Sludge	0.944 MT	--	--	ETP Sludge is stored in storage pit and treated through Bioremediation.	During FY 2024-25	--
2		Used activated charcoal/spent carbon	Granules	Nil	Nil	Nil	--	--	--
3		Empty Barrels/containers/liners contaminated with hazardous chemicals/wastes	Drum	105 MT	By Road	M/S Ecotime Barrel recyclers Navsari and M/s M G Chemicals Ankleshwar	Through GPCB registered recyclers	During FY 2024-25	--
4		Used oil	Thick burnt Oil	4.768 MT	By Road	M/S Karim Corporation Ahmedabad	Through GPCB registered recyclers	During FY 2024-25	--

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-			Ambient Air stations are installed in Plant Area. The real time data is captured in the AAQMS work stations.			-NA-		
						Ambient air quality/Environment Audit by GPCB Nominated schedule -1 Auditor:					
						1 st : 15.10.2024 - 17.10.2024					
						2 nd : 16.12.2024 - 17.12.2024					
						3 rd : 19.03.2025 - 20.03.2025					

ONGC Hazira Plant follows the approved practices for disposal of all hazardous waste.

GPCB Nominated Auditors M/s, Pacific School of Engineering (Civil Engg. Dept.), Kadodara - Palsana, 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.

Place: Hazira Plant, Surat

Date : 27/06/2025



(R Ramkumar Babu)

CGM (P) I/c -Env

ONGC Hazira Plant

अर रामकुमार बाबु / R RAMKUMAR BABU
महाप्रबंधक (उत्पादन) / GM (PROD.)
ओ. एन. जी. सी. इनीरा संयंत्र, सुरत
ONGC HAZIRA PLANT, SURAT.

Annexure-5: 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)	255 m ³ /hr

B. DETAILS OF MOBILE FIRE APPLIANCES :

Sr. No.	Item Description	Qty. (Nos.)	Year of Purchase	Pump Capacity LPM	Tank Capacity		
					Water	Foam	DCP
1.	Multipurpose F/T (25 TON)	04	2016 & 2018	4500	4500 lts	5500 lts	800 kg
2.	Foam Nurser (16 TON)	01	2016	400	N/A	8000 ltrs	N.A
3.	DCP Tender (16 TON)	01	2022	N/A	N/A	N/A	2000 Kg.
4.	Emergency Rescue Tender (11 TON)	01	2025	--	--	--	--
	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. No	Activity/Equipment	Qty
1.	Fire Extinguisher	2580
2.	Hydrants & Monitors	1147 & 294
3.	HVLR	53
4.	Deluge valve along with spray system	76
5.	ROV along with spray system	129
6.	FOAM Pourer system	66
7.	Rim Seal Fire Protection system	08
8	IG-514	02
9	NOVEC-1230	13
10	CO2 Total flooding system	10
11	MPFT/RT/FT	06
12	SCBA Sets	269
13	Wind socks	54
14	Eye wash station	107
15	ELSA	625

E. LIFE SAVING EQUIPMENT

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

Annexure-6: Stack Height

Flue Gas Stack		
Stack No.	Stack attached to	Stack Height in Meter
1	Steam Boiler (58 TPH)	32
2	HRSG Boiler-1	30
3	HRSG Boiler-2	30
4	HRSG Boiler-3	30
5	KTI Boiler	25
6	IAES Boiler-3 Nos.	25 (Each)
7	LPG Furnace	32
8	KRU-1 Furnace	25
9	KRU-2 Furnace	27
10	HRSG Boiler	43
Process Emission Stack		
1	SRU Incinerator	70
2	SRU Trains (61 to 66)	28