

ENVIRONMENTAL
CLEARANCE



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Gujarat)

To,

The GM-HSE BASIN
OIL AND NATURAL GAS CORPORATION LIMITED
Western Onshore Basin, ONGC, VADODARA -390009

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/GJ/IND2/281796/2022 dated 07 Jul 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC23B002GJ189465 |
| 2. File No. | SIA/GJ/144508/2022 |
| 3. Project Type | New |
| 4. Category | B2 |
| 5. Project/Activity including Schedule No. | 1(b) Offshore and onshore oil and gas exploration, development & production |
| 6. Name of Project | EC for Onshore exploration of hydrocarbon from 25 wells in 10 ML Blocks in Anand & Vadodara District. |
| 7. Name of Company/Organization | OIL AND NATURAL GAS CORPORATION LIMITED |
| 8. Location of Project | Gujarat |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 08/06/2023

(e-signed)
Manish N. Modi
Member Secretary
SEIAA - (Gujarat)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environmental Single-Window Hub)





No. SEIAA/GUJ/EC/1(b)/707/2023

Date: 5 JUN 2023

BY R.P.A.D.
Time Limit

Sub: Environment Clearance to M/s. ONGC for setting up "25 Nos of Onshore Oil and gas exploration & Appraisal (including early production)" at 10 ML Blocks in Anand & Vadodara District. In Category 1(b) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal no. SIA/GJ/IND2/281796/2022.

Dear Sir,

This has reference to your application along with form-1, Pre-Feasibility Report, Environment Management Plan and other supporting documents dated 07/07/2022 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

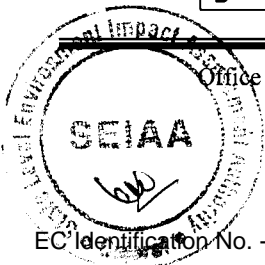
The proposal is for Environmental Clearance to onshore Oil and Gas Exploration in the Appraisal and early production in the in Anand and Vadodara Districts, Gujarat. It is a proposed project is onshore Oil and Gas Exploration and Appraisal in 10 blocks of Anand and Vadodara Districts of Gujarat. The 10 blocks are located in Anand and Vadodara districts of Gujarat. It encloses an area of 264.444 Sq.Km and is bounded by the points having following coordinates provided in below Table. The proposed project is green field in nature. The proposed onshore oil and gas exploration & appraisal is expected to carry out Drilling of 25 exploratory (including appraisal) wells and the exploratory and appraisal wells will be drilled to explore the reservoirs up to a depth of 1900-925 m approx.

Apex Co-ordinates of 10 Blocks boundary (as per RSC)

Akholjuni ML						
CORNER POINTS	LONGITUDE			LATITUDE		
	DEG.	MIN.	SEC.	DEG.	MIN.	SEC.
A	72	32	53.02	22	17	35.02
B	72	29	25.01	22	17	35.02
C	72	29	25.01	22	25	0.01
D	72	32	53.02	22	25	0.01

Kathana ML						
CORNER POINTS	LONGITUDE			LATITUDE		
	DEG	MIN	SEC	DEG	MIN	SEC
A	72	48	9.00	22	19	22.01
B	72	49	45.01	22	19	40.01
C	72	49	45.01	22	17	44.99
D	72	48	10.01	22	16	19.99
E	72	47	48.01	22	16	30.00
F	72	47	49.99	22	17	53.02
A	72	48	9.00	22	19	22.01
Kathana Ext-I ML						
B	72	49	45.01	22	19	40.01
A'	72	50	42.00	22	19	40.01
g	72	52	3.00	22	19	39.00
F	72	52	32.02	22	17	49.99
F''	72	50	26.45	22	16	40.80
D''	72	50	29.98	22	17	44.99
C	72	49	45.01	22	17	44.99
H	72	49	45.01	22	18	29.41
I	72	50	17.99	22	18	29.41
G	72	50	17.99	22	19	17.00
F'	72	49	45.01	22	19	17.00
B	72	49	45.01	22	19	40.01

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S No.	ML Name	Point	Longitude			Latitude		
			Deg	Min	Sec	Deg	Min	Sec
1	PADRA EXT-I ML	I	73	4	9.98	22	15	47.99
		Q	73	4	36.01	22	16	44.00
		R	73	5	42.00	22	16	44.00
		S	73	5	41.42	22	14	39.98
		T	73	4	36.01	22	14	39.98
		Y	73	4	23.02	22	15	2.99
		D	73	4	31.98	22	15	13.00
		X	73	4	18.01	22	15	25.99
		I	73	4	9.98	22	15	47.99
2	PADRA EXT-IV ML	G	73	3	42.98	22	13	23.99
		H	73	3	4.00	22	15	25.99
		I	73	4	9.98	22	15	47.99
		X	73	4	18.01	22	15	25.99
		C	73	4	4.98	22	15	38.41
		B	73	3	29.99	22	15	7.31
		A	73	4	1.70	22	14	40.42
		T	73	4	36.01	22	14	39.98
		J	73	4	48.00	22	13	57.00
		F	73	4	49.01	22	13	43.00
		G	73	3	42.98	22	13	23.99
3	PADRA EXT-V ML	F	73	4	49.01	22	13	43.00
		O''	73	5	17.99	22	14	15.00
		P''	73	6	29.99	22	13	4.01
		Q''	73	5	60.00	22	12	34.99
		F	73	4	49.01	22	13	43.00
4	PADRA-EXT-VI ML	L	73	2	44.99	22	12	56.99
		G	73	3	42.98	22	13	23.99
		F	73	4	49.01	22	13	43.00
		Q''	73	5	60.00	22	12	34.99
		P''	73	6	29.99	22	13	4.01
		O''	73	5	17.99	22	14	15.00
		S	73	5	40.99	22	14	39.98
		S''	73	7	12.00	22	13	18.98
		R''	73	7	0.01	22	13	8.00
		U''	73	7	12.00	22	12	55.01
		T''	73	7	24.02	22	13	8.00
		V	73	8	20.00	22	12	18.00
		U	73	9	20.99	22	13	53.00
		T	73	7	27.98	22	15	6.01
		S	73	5	40.99	22	14	39.98
		g	73	5	42.00	22	14	55.00
		f	73	6	58.00	22	15	36.00
		e	73	6	23.00	22	16	44.00
		U'	73	6	58.00	22	17	8.99
		V'	73	10	23.02	22	13	18.01
		W'	73	10	23.99	22	12	18.00
		X'	73	6	29.99	22	10	44.00
		Y'	73	1	40.01	22	10	21.00
Z'	73	1	23.99	22	16	12.00		
M'	73	2	21.98	22	16	9.98		
p	73	2	34.98	22	14	19.00		
o	73	2	16.01	22	14	17.02		
n	73	2	25.01	22	13	14.02		
m	73	2	43.01	22	13	16.00		
L	73	2	44.99	22	12	56.99		



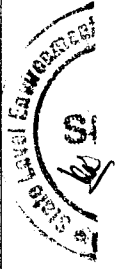
	EXCLD	i	73	3	34.99	22	12	47.02
		j	73	4	11.03	22	12	47.02
		k	73	4	11.03	22	12	13.00
		l	73	3	34.99	22	12	13.00
		i	73	3	34.99	22	12	47.02
5	PADRA EXT-VII ML	G	73	3	42.98	22	13	23.99
		L	73	2	44.99	22	12	56.99
		X	73	2	35.00	22	14	13.10
		W	73	3	10.01	22	14	12.98
		Z	73	3	10.01	22	14	47.00
		Y	73	2	30.00	22	14	47.00
		M	73	2	21.98	22	16	9.98
		a	73	2	44.02	22	16	27.01
	G	73	3	42.98	22	13	23.99	
6	PADRA EXT-VIII ML	S	73	5	41.42	22	14	39.98
		T	73	7	27.98	22	15	6.01
		U	73	9	20.99	22	13	53.00
		V	73	8	20.00	22	12	18.00
		S	73	5	41.42	22	14	39.98
7	PADRA EXT-IX ML	Y'	73	1	40.01	22	10	22.01
		A'	72	59	52.98	22	12	44.50
		P	72	59	45.90	22	15	20.99
		b'	73	0	58.00	22	15	20.99
		Z'	73	1	23.99	22	16	12.00
	Y'	73	1	40.01	22	10	22.01	

The proposed well locations with Village and Taluka/Tehsil as follows:

S. No	Well	Latitude	Longitude	Vill. Name	Taluka/ Tehsil	District	Present Land use	Road Infrastructure	For est/ Wil dlif e Sanctu ary/ National Park	Near est River / Water bodies	Major human establishments etc.	Indus tries etc.
Akholjuni ML												
1	P1	22°24'41.466 4"N	72°29'47 .8538"E	ROHNI	Khambhat	Anand	Agriculture	Nearby SH 6 (500m distance to be maintained)	NIL	Vally Lake (5 KM)	ROHNI Village (2.3 KM)	NIL
2	P2	22°23'15.446 2"N	72°31'23 .8003"E	GUDEL	Khambhat	Anand	Nearer to Canal	SH 6 (0.8 KM)	NIL	Vally Lake (7 KM)	GUDEL Village (0.8 KM)	NIL
3	P3	22° 22' 32.344"N	72° 29' 49.210" E	Tamsa	Khambhat	Anand	Agriculture	SH 6 (3 KM)	NIL	Sabarmati River (2KM)	Tamsa Village (0.8 KM)	NIL
4	P4	22°21'9.0329" N	72°30'24 .1601"E	Navagam Bara	Khambhat	Anand	Agriculture	SH 6 (6 KM)	NIL	Sabarmati River (10	Navagam Bara Village (0.6 KM)	NIL

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											KM)		
5	P5	22°20'49.241 1"N	72°29'28 .8934"E	Navag am Bara	Khambh at	Anan d	Agricul ture	SH 6 (5 KM)	NIL	Saba mati River (07 KM)	Navaga m Bara Village (0.6 KM)	NIL	
Kathana & Kathana Ext-I ML													
6	P1	22° 19'04.495"N	72°48' 27.328" E	Kanbh a	Borsad	Anan d	Agricul ture	Borsad- Dhuvara n Road (1.3 KM)	NIL	Mahi River (5 KM)	Kanbha Village (500 m distance will be maintain ed while finalizing the location)	NIL	
7	P2	22° 18'35.950"N	72°48' 17.560" E	Kanbh a	Borsad	Anan d	Agricul ture	Borsad- Dhuvara n Road (1.6 KM)	NIL	Mahi River (5 KM)	Kanbha Village (0.63 Km)	NIL	
8	P3	22°18'59.546 2"	72°50'57 .3844"E	Kathol	Borsad	Anan d	Agricul ture/G arden	Borsad- Dhuvara n Road (4 KM)	NIL	Mahi River (5 KM)	Kathol Village(0 .55 Km)	NIL	
9	P4	22°18'49.038 9"	72°52'12 .2762"E	Kathol	Borsad	Anan d	Agricul ture	Borsad- Dhuvara n Road (5 KM)	NIL	Mahi River (5 KM)	Kathol Village (0.7KM)	NIL	
10	P5	22°19'4.9877" N	72°51'27 .2460"E	Sisva	Borsad	Anan d	Agricul ture	Borsad- Dhuvara n Road (5.5 KM)	NIL	Mahi River (5 KM)	Umlav Village (0.7KM)	NIL	
Padra ML													
S. No	Wel l	Latitude	Longitud e	Vill. Name	Taluka/ Tehsil	Distri ct	Presen t Land use	Road Infrastru cture	For est/ Wilde life San ctua ry/ Nati ona l Par k	Near est River / Wate r bodie s	Major human establi shments etc.	Indus tries etc.	
11	P1	22° 11' 30.602" N	73° 04' 14.426" E	Sejaku va	Padra	Vado dara	Agricul ture	SH 160 (1.8KM)	NIL	Vish wami tri river (6 KM)	Sejakuv a Village (1 Km)	NIL	
12	P2	22° 11' 17.943" N	73° 02' 58.692" E	Sadhi	Padra	Vado dara	Agricul ture	SH 160 (4 KM)	NIL	Vish wami tri river (7 KM)	SADHI Village (0.8 KM)	NIL	
13	P3	22° 14' 51.993" N	73° 01' 23.166" E	Ekalba ra	Padra	Vado dara	Agricul ture	Jambusa r-Padra Road (0.8 KM)	NIL	Mahi River (2.5 Km)	Ekalbara Village (0.6 KM)	NIL	
14	P4	22° 12' 56.040" N	73° 08' 39.652" E	Chans ad	Padra	Vado dara	Agricul ture	NH 48 (4.5 KM)	NIL	Vish wami tri river (1.5	Chansad Village (1.2KM)	NIL	



15	P5	22° 13' 12.159" N	73° 02' 57.789" E	Latipura	Padra	Vadodara	Agriculture	SH 160 (3.5 KM)	NIL	Mahi River (6 Km)	Latipura Village (1 KM)	NIL
16	P6	22° 16' 17.691" N	73° 04' 56.908" E	Raypura	Vadodara	Vadodara	Agriculture	Padra Road (2.2 KM)	NIL	Mahi River (5 Km)	Raypura Village (1.2 KM)	NIL
17	P7	22° 12' 47.270" N	73° 00' 27.675" E	Bhoj	Padra	Vadodara	Agriculture	NH 228 (1.7KM)	NIL	Mahi River (5 Km)	Bhoj Village (1.5 KM)	NIL
18	P8	22° 11' 51.237" N	73° 00' 48.984" E	Bhoj	Padra	Vadodara	Agriculture	NH 228 (3 KM)	NIL	Mahi River (7 Km)	Bhoj Village (1 KM)	NIL
19	P9	22° 12' 58.229" N	73° 06' 27.576" E	Darapura	Padra	Vadodara	Agriculture	SH 160 (2 KM) & Under construction Express way (500m distance to be maintained)	NIL	Vishwamitri river (5 KM)	Darapura Village (1 KM)	NIL
20	P10	22° 12' 30.676" N	73° 09' 07.716" E	Chansad	Padra	Vadodara	Agriculture	NH 48 (4 KM)	NIL	Vishwamitri river (0.6 KM)	Chansad Village (1.8 KM)	NIL
21	P11	22° 14' 28.028" N	73° 03' 45.136" E	Padra Town	Padra	Vadodara	Nearby Building	Nearby Jambusar-Padra Road (500m distance to be maintained)	NIL	Mahi River (5 Km)	Padra Town (1.5 KM)	NIL
22	P12	22° 12' 00.965" N	73° 05' 17.863" E	Goriya	Padra	Vadodara	Agriculture	Near SH 160 (500m distance to be maintained)	NIL	Vishwamitri river (5.5 KM)	Goriya Village (1.5 KM)	NIL
23	P13	22° 12' 55.312" N	73° 04' 58.906" E	Ghayaj	Padra	Vadodara	Agriculture	Near SH 160 (500m distance to be maintained)	NIL	Vishwamitri river (6.5 KM)	Goriya Village (0.3 KM) (500 m distance will be maintained while finalizing the location)	NIL
24	P14	22° 14' 04.455" N	73° 02' 47.380" E	Dabhasa	Padra	Vadodara	Agriculture	Jambusar-Padra Road (1.8 KM)	NIL	Mahi River (5 Km)	Dabhasa Village (1.2 KM)	
25	P15	22° 14' 07.216" N	73° 00' 23.559" E	Mahuvad	Padra	Vadodara	Agriculture	Jambusar-Padra Road (0.5 KM)	NIL	Mahi River (2.8 Km)	Mahuvad Village (0.5 KM)	NIL

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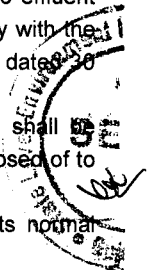
The project activity is covered in 1(b) and is of 'B' Category. Since, the project falls in B2 category as per the MoEF&CC's amendment EIA Notification vide S.O. 236(E) dated 16.01.2020, the public consultation is not required as per paragraph 7(i) (III) (i) (e) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated 20/03/2023 & 12/05/2023 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 17/11/2022 & 24/04/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 01/04/2023 & 26/05/2023 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

A. CONDITIONS :

A.1 SPECIFIC CONDITION :

1. Project proponent (PP) shall obtain separate Environmental Clearance for commercial drilling and exploration as this proposal is for drilling of Exploration activity only as per EIA Notification 2006 and amendment dated 16.01.2020 [Category B2 of activity 1(b)]
2. No drilling shall be carried out in protected areas.
3. The company shall make all arrangements at the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated waste water shall conform to CPCB/GPCB standards.
4. Drill cuttings separated from drilling fluid shall be adequately washed and disposed according to HWMH rule, 2016. No effluent /drilling mud /drill cutting shall be discharged /disposed off into nearby surface water bodies. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR. 546 dated 20 the August ,2005
5. Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/ contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.
6. After completion of drilling activities, in case of non-availability of hydrocarbons the site shall be restored back to its normal condition as per the prevailing Rules/Guidelines/Site restoration policy.
7. PP shall adopt best drilling practices and drilling operations shall be designed in such a way that there is no chance of contamination of ground water aquifer.
8. PP shall take all precautionary measures to avoid any contamination of ground water.
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
10. Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.
11. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
12. The company shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus.
13. Company shall prepare operating manual in respect of all activities, which would cover all safety & environment related issues and measures and measures to be taken for protection. One set of environment manual shall be made available at the drilling site /project site. Awareness shall be created at each level of management. All the schedules and results of environmental monitoring shall be available at the project site office. Remote monitoring of site should be done.
14. **Safety & Health:**
 - a. PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.
 - b. PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises.
 - c. The consequence arising out of incidents such as Well Blow Out, Fire, Explosion, Natural Calamities etc. shall be accurately predicted with the help of latest technique available by various Risk Analysis Studies and unit shall submit Disaster Management Plan (DMP) to the concern authority based on such probable scenarios.
 - d. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
 - e. First Aid Box shall be made readily available in the unit.
 - f. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
 - g. The company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed.
 - h. Blow out preventer system shall be installed to prevent well blowouts during drilling operations.



i. Emergency response plan shall be based on the guidance prepared by OISD, DGMs and Govt. of India.

A.2 WATER :

15. Total water requirement for the project shall not exceed 25 KLD per well. Unit shall reuse 5 KLD per well of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 20 KLD per well and it shall be met through tankers from nearby ONGC establishment.
16. PP shall not dig borewell for fresh water requirements.
17. The industrial effluent generation from the project shall not exceed 5 KLD per well.
18. Out of 5 KLD Total Industrial effluent, 3 KLD shall be reused in mud preparation and 2 KLD shall be sent to nearest ONGC ETP for treatment.
19. PP shall obtain prior permission for disposal of treated effluent.
20. Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall not be any industrial wastewater discharge from the unit.
21. Domestic wastewater generation shall not exceed 2 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
22. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
23. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
24. The unit shall provide metering facility at the ETP & STP and maintain records for the same.
25. Proper logbooks of ETP & STP; treated effluent reused in gardening/ plantation; chemical consumption in effluent treatment; quantity & quality of treated effluent; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

A.3AIR:

26. Unit shall not exceed fuel consumption for D G Set as mentioned below.

Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
DG set of 1250 HP	8m	HSD	5-6 KL/Day	Flue gas	Supercharging, DOC (Diesel oxidation Catalyst), Particulate matter Reducer.

27. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
28. There shall be no process gas emission from drilling & exploration activities and other ancillary operations.
29. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.
 - Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
 - Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
 - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
30. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
31. Regular monitoring of ground level concentration of PM₁₀, PM_{2.5}, SO₂, NO_x and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

A.4 SOLID / HAZARDOUS WASTE:

32. All the hazardous/ solid waste management shall be taken care as mentioned below.

Sr. no.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/Annun)	Management of HW
1	Drill cuttings	Drilling	HW Sc-I cat. 2.1	500 tons per Well.	Collection in HDPE lined pit and disposal as per Hazardous waste Rules, 2016
2	Drilling mud	Drilling	HW Sc-I cat 2.3	250 Tons per Well.	Collection in HDPE lined pit and disposal as per Hazardous waste Rules, 2016

3	Used oil/ spent oil	Others	HW Sc-I cat 5.1	0.2 MTon	Disposal as per Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016
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33. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
34. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.
35. The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB.
36. The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.

A. 50THER:

37. The project proponent shall allocate the separate fund of Rs 6 Crores [Electrification including Solar lights Projects in ROHNI, GUDEL, Tamsa, Navagam Bara villages; Drinking water projects including Water Supply lines & associated activities, installation of RO plants etc. in Kanbha, Kathol, Sisva villages; Sanitization & health projects in Villages & schools in Sejakuva, Sadhi, Ekalbara, Chansad, Latipura; Green Belt development / Tree plantation in ROHNI, GUDEL, Kathol, Raypura, Bhoj, Darapura, Chansad and Rain water harvesting projects in Raypura, Padra Town, Goriyad, Ghayaj, Dabhasa and Mahuvad villages] proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.
38. All the environmental protection measures and safeguards proposed in the Form-1 & PFR submitted by the project proponent and commitments made in their application shall be strictly adhered to in letter and spirit.

B. GENERAL CONDITIONS:

B.1 CONSTRUCTION PHASE:

26. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
27. Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
28. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
29. First Aid Box shall be made readily available in adequate quantity at all the times.
30. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
31. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
32. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
33. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
34. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
35. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
36. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.
37. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.
38. "Wind – breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.
39. "No uncovered vehicles carrying construction material and waste shall be permitted."
40. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."
41. Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).
42. No excavation of soil shall be carried out without adequate dust mitigation measures in place.

43. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
44. Grinding and cutting of building materials in open area shall be prohibited.
45. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
46. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

B.2 OPERATION PHASE:

B.2.1 WATER:

47. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
48. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.

B.2.2 AIR:

49. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
50. Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
51. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
52. Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
53. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

B.2.3 HAZARDOUS/SOLID WASTE:

54. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
55. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
56. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
57. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
58. The design of the Trucks/tankers shall be such that there is no spillage during transportation
59. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
60. Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

B.2.4 SAFETY:

61. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
62. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
63. Main entry and exit shall be separate and clearly marked in the facility.
64. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
65. Storage of flammable chemicals shall be sufficiently away from the production area.
66. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
67. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
68. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
69. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
70. Only flame proof electrical fittings shall be provided in the plant premises.
71. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
72. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage

tanks for Hazardous Chemicals.

73. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
74. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
75. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
76. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
77. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
78. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
79. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
80. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
81. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

B.2.5 NOISE:

82. The company shall make all arrangement for control of noise from the drilling activities.
83. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation, hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (Protection) Act & Rules, 1986 amended from time to time.
84. Noise levels for workers shall be as per the Factories Act & Rules.

B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

85. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
86. The company shall undertake various waste minimization measures such as :
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
 - c. Use of automated and close filling to minimize spillages.
 - d. Use of close feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for cleaning to reduce wastewater generation.
 - g. Recycling of washes to subsequent batches.
 - h. Recycling of steam condensate.
 - i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
 - j. Regular preventive maintenance for avoiding leakage, spillage etc.

B.2.7 GREEN BELT AND OTHER PLANTATION:

87. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
88. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

B.3 OTHER CONDITION:

89. PP shall re locate the well no. 6 and 23 and maintain distance more than 500 meter from nearby habitats.
90. PP shall comply with disaster management plan strictly in case of oil spillage to minimize damage of environment.
91. PESO license shall be obtained before commencement of activity.
92. Project Proponent shall contribute to conservation of Great Indian Bustard by way of sponsoring shifting of overhead cables to underground, in consultation with Deputy Conservator of Forests, Kutch(west) and Forests and Environment Department, Sachivalaya Gandhinagar. This condition is as per the clarification given in para 3 of OM of MoEF&CC, GOI dated 25.02.2021. The expenditure of supporting above activities will be within the total outlay of CER including the other activities committed by PP.
93. Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
94. Project proponent shall display the copy of Environment Clearance at the site prominently.
95. Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.
96. Project Proponent will have to display the safety procedure in working area.
97. The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.



98. Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP / TSD / CHWIF / CMEE / Common Spray Dryer as the case may be.
99. Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.
100. Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.
101. Integrated Regional Office of MoEF&CC, Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.
102. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
103. Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.
104. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.
105. Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.
106. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
107. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
108. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.
109. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
110. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
111. During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
112. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
113. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
114. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
115. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
116. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
117. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
118. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
119. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. 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 Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
120. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
121. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
122. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
123. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.

124. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
125. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
126. This environmental clearance is valid for seven years from the date of issue.
127. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
128. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:

129. Project proponent shall inform to all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the Environment Clearance order accorded.
130. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
131. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
132. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
133. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.
134. Any person including the project proponent affected by this Environment Clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribe under section 16 of National Green Tribunal Act 2010.
135. All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com & (b) seacgujarat@gmail.com



(M. N. MODI)
Member Secretary

Issued to:
M/s. ONGC
Western onshore Basin office of the Block Manager-II
3rd Floor, Gaveshna Building,
Makarpura Road Vadodara Gujarat

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar-382010.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
4. The Additional Principal Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
7. Select File

