



File No: File no: 10/26/2021-IA-III.

Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date 29/08/2023



To,

RAVI KUMAR
Hindustan Petroleum Corporation Limited
17, Jamshedji Tata Road, Mumbai , MUMBAI, MAHARASHTRA, Nariman Point, 400020
ravik@hpcl.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/GJ/INFRA1/425715/2023 dated for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A3501GJ5136754N
(ii) File No.	File no: 10/26/2021-IA-III.
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	7(e) Ports, harbors, breakwaters, dredging
(vi) Sector	INFRA-1 Proposed constriction of LPG Import Jetty with dispatch station at Survey No. 1504-A, Village Dahej, Taluka Vagra, District Bharuch, Gujarat by M/s Hindustan Petroleum Corporation Limited (HPCL)
(vii) Name of Project	Hindustan Petroleum Corporation Limited
(viii) Name of Company/Organization	BHARUCH, GUJARAT
(ix) Location of Project (District, State)	MoEF&CC
(x) Issuing Authority	No
(xi) Applicability of General Conditions as per EIA Notification, 2006	

1. The proposed project involves construction of LPG import Jetty of design capacity 5 MMTPA (Million Metric Tonnes per Annum) complete with loading arm facilities, firefighting facilities, electrical and mechanical equipment, piping and pipelines along with on-shore dispatch station, where-in, pumping station and allied facilities like heating & blending, mercaptan dosing, booster and mainline pumps, small mounded storage vessels (for process requirements), required piping along with associated civil, electrical, mechanical and instrumentation facilities will be located for pumping of LPG from on-shore dispatch station to Vadodara through the upcoming Kandla-Gorakhpur Pipeline.
2. The proposed project falls under 7(e) - Ports, Harbours, Dredging, and Reclamation, of the schedule to the EIA Notification, 2006 and its subsequent amendments. Total cost of the project is Rs. 1333 Crores.
3. The proposed site of on-shore dispatch station is arid, dry and barren Govt. Land of 14.17 ha. The proposed project consists of following elements:

- LPG Jetty having design capacity of 5.0 MMTPA (Million Metric Tonnes per Annum) with Unloading Platform of 50x35 Sq. meter area.
- Approach Trestle-4000 meters length and 13 meters wide.
- Unloading Platform with 12" Marine Unloading Arm
- Mooring Dolphins with walkway
- Breasting Dolphins with walkway
- Substation-cum Control Tower
- Fire Water Pump House
- Port Craft Jetty (34x9 m)
- 2 nos. 24" LTCS pipelines on approach trestle from Jetty head to the onshore Dispatch Station.
- Dispatch Station with heating and blending facilities, pumping facilities, Admin Building, Fire Water Storage & Hydrants Facilities, Substation Building, Parking Bay, small capacity mounded bullet vessel storage (for process requirements) etc.

1. The proposed Dahej LPG Jetty consists of a central unloading platform with berthing dolphins and mooring dolphins provided symmetrically on either side and interconnecting walkways. The unloading platform is connected to shore by an approach trestle of adequate width to accommodate pipelines and a 4 m wide service roadway. Over all dimension of unloading platform is 50 m x 35 square meters with an extension of 18 m x 15 square meters for the pig launcher space. The unloading platform will have two (with 3 Nos for future expansion) marine loading arms and piping with launcher / receiver facilities, marine gangway, space for slop tanks, fire-fighting facilities etc. A turning space for vehicular movement shall also be provided at the platform.
2. ToR was granted vide letter No. 10/26/2021-IA-III. dated 12.07.2021 during the 265th EAC meeting held on 23rd-24th June, 2021. subsequently amended in ToR was obtained during 275th meeting of Expert Appraisal Committee held on 29th September, 2021.
3. Details of Public Hearing: Conducted at Survey No. 1504-A, Dahej, Ta. Vagra, Dist. Bharuch (At Project Site) on 13.12.2022 chaired by Resident Additional Collector.
4. Terrain and topographical features: The seashore in this area is generally flat. The existing ground level in the proposed area is around -1.0m to 2m CD.
5. Details of water bodies, impact on drainage: The study area is drained by Narmada (southern parts) & Dhadhar (Viswamitri) in northern parts. Narmada river confluences into Arabian Sea (Gulf of Khambhat) at 8.5 Kms. in the south. Vishwamitri river flows through the salt pans and confluences into Gulf of Khambhat at 8 Kms. in the north. There is no impact on existing surface water bodies due to this project.
6. Water requirements: The project requires 15 KLD during construction phase and 5 KLD during operation phase will be sourced from local water supply vendors or from local panchayath. There will not be any groundwater extraction in the CRZ area. There will not be any groundwater extraction in the CRZ area.
7. Diversion of Forest land: No forest land involved in proposed project site.
8. The proposed project is not located within 10 km of Protected Areas (PA) including National Parks, Sanctuaries and Tiger Reserves etc. Impact of the proposed project on the migratory birds thru M/s Gujarat Institute of Desert Ecology (GUIDE). They have conducted detailed study of the impact on migratory birds and have submitted the report with the required mitigation measures. The impact as per the report is very minimal and we will follow the required mitigation measures as per the recommendations of GUIDE. In

addition to this mudflat areas have also been studied and mitigation/conservation measures will be implemented as per EMP.

9. Waste Management: About 11 Kg/day of domestic solid waste is estimated to be generated from construction and operational activities. This will be collected from designated location and segregated into organic and inorganic waste. The inorganic non-biodegradable will be sold to GPCB authorized vendor for recycling. The biodegradable waste will be disposed-off according to SHW (Management and Handling) Rules, 2016. No commercial waste will be generated. The project does not generate any trade effluent. Domestic Sewage of 0.8 KLD will be biologically treated in septic tanks of adequate size followed by dispersion trench. STP details: Domestic Sewage of 0.8 KLD will be biologically treated in septic tanks of adequate size followed by Dispersion Trench.
10. Details of tree cutting and Green belt development: No tree cutting is envisaged. Greenbelt will be developed as per existing norms and guidelines.
11. Details of Rain Water Harvesting: During operational phase the necessary approach will be taken to implement the rainwater harvesting plan. Rainwater from the roofs of Buildings, storm water drains adjoining roads shall be collected in a rainwater collection tank.
12. CRZ details: The CRZ maps is by institute of remote Sensing, Anna University, Chennai, an authorised agency by the MoEF&CC, as per the CRZ map the details are as following: Refer Table-1

1. The proposal was discussed in the 64th meeting of Gujarat Coastal Zone Management Authority held on 05.01.2023 and recommended the proposal vide letter no. ENV-10-2022-93-T dated 8th June, 2023.
2. Foreshore facilities: The proposed project involves construction of LPG import Jetty of design capacity 5 MMTPA (Million Metric Tonnes per Annum) complete with loading arm facilities, firefighting facilities, electrical and mechanical equipment, piping and pipelines along with on-shore dispatch station, where-in pumping station and allied facilities like heating & blending, mercaptan dosing, booster and mainline pumps, small mounded storage vessels (for process requirements), required piping along with associated civil, electrical, mechanical and instrumentation facilities will be located for pumping of LPG from on-shore dispatch station to Vadodara through the upcoming Kandla-Gorakhpur Pipeline. Cargo handling of LPG for a design capacity of 5 MMTPA is proposed. It will be through closed loop system through loading arms and pipelines. Hence, no dust will be involved during cargo handling. All jetty operations will be in accordance with the MARPOL Convention. The system shall include Oil Spill Skimmer capable to recover oil @ 50 m³/hour boom of adequate length to cover 250 m LOA VLGCs for containment and deflecting oil spill, transfer pump and temporary storage of about 10 KL capacity along with the accessories.
3. Land acquisition and R&R issues involved: The proposed site is Govt. land and no R&R is applicable.
4. Employment potential: Construction stage, services of about 500 Nos. workers would be hired mostly from nearby areas. During the operations phase; about 20 Nos. of workmen shall be employed directly / indirectly.
5. Benefits of the project: Govt. of India is constantly promoting cleaner fuel especially in the rural areas through various schemes like Pradhan Mantri Ujjwala Yojana; under which till date more than 10 Crores LPG Cylinders have been given with majority of the connections being given in rural areas to promote the Government of India's vision of safer and greener fuel usage replacing the traditional fuels of wood, cow dung, coal etc. This effort is also directly linked with India's commitment towards reducing its carbon footprint. In India, 50% of annual LPG demand (approx. 26 MMTPA) is required to be imported thru various import facilities and the annual growth of LPG demand is in the range of 6%. LPG imported through the Proposed Jetty will be fed into Kandla-Gorakhpur Pipeline (KGPL) which passes through 22 bottling plants of the three OMCs namely HPCL, BPCL & IOCL. It will improve the distribution and supply of the LPG. Millions of rural households will benefit from the import of LPG. Further, with other initiatives like the National Infrastructure Pipeline, the Govt. of India is requiring the PSUs to substantially improve infrastructure investments to give boost for the economy and development of the country.
6. Details of Court cases: The proposal does not having any court cases/litigations.
7. The EAC, based on the information submitted and clarifications provided by the project proponent and detailed discussions held on all the issues in its 333rd meeting on 11th-12th July, 2023 and **recommended** the project for grant of environmental and CRZ clearance with stipulated specific conditions along with

other Standard EC Conditions.

8. The Ministry of Environment, Forest and Climate Change has considered the proposal based on the recommendations of the Expert Appraisal Committee (Infrastructure, CRZ and other Miscellaneous projects) and hereby decided to grant Environmental Clearance for the “Proposed construction of LPG Import Jetty with dispatch station, the proposed site of on-shore dispatch station is arid, dry and barren Govt. Land of 14.17 ha. at Survey No. 1504-A, Village Dahej, Taluka Vagra, District Bharuch, Gujarat by M/s Hindustan Petroleum Corporation Limited (HPCL)” under the EIA Notification, 2006 as amended and CRZ Notification 2011, subject to strict compliance of the following specific conditions, in addition to all standard conditions applicable for such projects.

Table-1

Project Description	Name	Area (Sq.m)
	CRZ III (No Development Zone (NDZ))	62,613.5
Proposed Dahej Dispatch Station	CRZ-IB	83.4
	50m Buffer from Mangroves	3892.8
	Total	66,589.7
Proposed Permanent Approach to Trestle	CRZ III (No Development Zone (NDZ))	206.2
	CRZ – IB	228.6
	50m Buffer from Mangroves	14,995.8
	Total	15,430.6
Proposed LPG Import Jetty Alignment	CRZ III (No Development Zone (NDZ))	
	50m Buffer from Mangroves	
Proposed Jetty Head	CRZ-IA	194
	CRZ – IVB	
	CRZ – IVB	
	CRZ – IVA	

Copy To

1. The Principal Secretary, Department of Forests & Environment and Chairman, GCZMA, Govt. of Gujarat, Sachivalaya, Gandhinagar, Gujarat
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
3. The Member Secretary, Gujarat Pollution Control Board, Sector 10-A, Gandhi Nagar – 382043, Gujarat.
4. The 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.
5. The Director(Environment) & Member Secretary, GCZMA, Forest & environment Department, Government of Gujarat no.14,8th Floor, Sachivalaya, Gandhinagar -38.
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7. PARIVESH Portal.
8. Guard File/Record File
9. Notice Board.

Annexure 1

Standard EC Conditions for (Ports, harbors, breakwaters, dredging)

1 Statutory compliance

S. No	EC Conditions
1.1	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
1.2	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
1.3	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

2 Air quality monitoring and preservation

S. No	EC Conditions
2.1	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations, covering upwind and downwind directions.
2.2	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
2.3	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.
2.4	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.
2.5	The Vessels shall comply the emission norms prescribed from time to time.
2.6	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
2.7	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation

S. No	EC Conditions
	of these departments.

3 Water quality monitoring and preservation

S. No	EC Conditions
3.1	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
3.2	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.
3.3	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
3.4	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
3.5	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
3.6	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
3.7	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
3.8	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.
3.9	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
3.10	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
3.11	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.

4 Noise monitoring and prevention

S. No	EC Conditions
4.1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
4.2	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
4.3	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
4.4	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

5 Energy Conservation measures

S. No	EC Conditions
5.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
5.2	Provide LED lights in offices and project areas.

6 Waste management

S. No	EC Conditions
6.1	Dredged material shall be disposed safely in the designated areas.
6.2	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.
6.3	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
6.4	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
6.5	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
6.6	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
6.7	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the

S. No	EC Conditions
	prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
6.8	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.

7 Green Belt

S. No	EC Conditions
7.1	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines.
7.2	Top soil shall be separately stored and used in the development of green belt.

8 Marine Ecology

S. No	EC Conditions
8.1	Dredging shall not be carried out during the fish breeding and spawning seasons.
8.2	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
8.3	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
8.4	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
8.5	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.
8.6	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.
8.7	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries

S. No	EC Conditions
	that fall along the stretch of the river.

9 Public hearing and human health issues

S. No	EC Conditions
9.1	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.
9.2	Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
9.3	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.
9.4	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.
9.5	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.6	Provision shall be made for the housing of construction labour 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.
9.7	Occupational health surveillance of the workers shall be done on a regular basis.

10 Environment Responsibility

S. No	EC Conditions
10.1	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
10.2	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

S. No	EC Conditions
10.3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
10.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

11 Miscellaneous

S. No	EC Conditions
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
11.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.4	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
11.5	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
11.6	The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
11.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
11.8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
11.9	No further expansion or modifications in the project shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

S. No	EC Conditions
11.10	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
11.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.13	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
11.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
11.15	Any appeal against this EC 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.

12 Specific Conditions

S. No	EC Conditions
12.1	<ol style="list-style-type: none"> 1. Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area. 2. All the recommendations and conditions specified by the Gujarat State Coastal Zone Management Authority (GCZMA) vide letter No ENV-10-2022-93-T dated 8th June, 2023 shall be complied with. 3. Migratory Bird Species study was conducted by the GUIDE and its recommendations will be implemented. The status report of the same shall be submitted along with the six Monthly compliance report to the concern regional office of the Ministry. GUIDE will monitor the movement and impacts on birds during and two years post construction and accordingly bird monitoring costs to be provided to GUIDE. 4. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. PESO certificate shall be obtained. 5. The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

S. No	EC Conditions
	<ol style="list-style-type: none"> 6. 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. 7. Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. 8. During production, storage and handling, the fugitive emission of methane, if any, shall be monitored using Infra-red camera/ appropriate technology. 9. The project proponent shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation. 10. Continuous online (24x7) monitoring system for stack emissions/effluent shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. 11. The project proponent 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. 12. Blow Out Preventer system shall be installed to prevent well blowouts during drilling operations 13. Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974. 14. The project proponent shall comply with the air pollution mitigation measures as submitted. 15. The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. 16. No underwater blasting is permitted. 17. Necessary approvals be taken during implementation and commissioning from statutory bodies concerned. 18. Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report. 19. A continuous monitoring programme covering all the seasons on various aspects of the coastal and marine environs need to be undertaken by Nationally reputed academic institutes such as MS University Baroda with rich experiences in marine science aspects. Monitoring should include sea weeds, sea grasses, mudflats, sand dunes, fisheries, mangroves and other marine biodiversity components as part of the management plan. Separate financial provision for the same should be made in the EMP. 20. Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance reports to the regional office of MoEF&CC. 21. Effective and efficient pollution control measures like covered conveyors/stacks (coal, iron ore and other bulk cargo) with fogging/back filters and water sprinkling commencing from ship unloading to stacking to evacuation shall be undertaken. Coal and iron ore stack yards shall be bounded by thick two tier green belt with proper drains and wind barriers wherever necessary. 22. Sediment concentration should be monitored fortnightly at source and disposal location of dredging while dredging. 23. Spillage of fuel / engine oil and lubricants from the construction site are a source of organic

S. No	EC Conditions
	<p>pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.</p> <p>24. Necessary arrangements for the treatment of the effluents and solid wastes/ facilitation of reception facilities under MARPOL must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986. The provisions of Solid Waste Management Rules, 2016. E- Waste Management Rules, 2016, and Plastic Waste Management Rules, 2016 shall be complied with.</p> <p>25. All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.</p> <p>26. As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30th September, 2020, the project proponent shall abide by all the commitments made by them to address the concerns raised during the public consultation. The project proponent shall initiate the activities proposed by them, based on the commitment made in the public hearing, and incorporate in the Environmental Management Plan and submit to the Ministry. All other activities including pollution control, environmental protection and conservation, R&R, wildlife and forest conservation/protection measures including the NPV, Compensatory Afforestation etc, either proposed by the project proponent based on the social impact assessment and R&R action plan carried out during the preparation of EIA report or prescribed by EAC, shall also be implemented and become part of EMP.</p>

Annexure 2

