

Reference: Nayara Energy/EC Compliance Report/9 to 60 MMTPA/2026/1420
27th May 2026

To,
Integrated Regional Office,
Ministry of Environment, Forest and Climate Change (MoEF&CC)
Block-3, F-2 Wing, 5th Floor, *Nr. CH-3 Circle*
Karmayogi Bhavan, Sector-10A,
Gandhinagar, Gujarat - 382010

Subject: Six-monthly compliance report of Environment Clearance for expansion of refinery from 9 MMTPA to 60 MMTPA and Petrochemical Complex at Khambhalia, Dist- Devbhumi Dwarka, Gujarat, by M/s Nayara Energy Limited (Formerly known as Essar Oil Limited) as on 1st April 2026.

Reference: 1. Environment Clearance accorded to M/s Essar Oil Limited vide F. No: J-11011/320/2006-IA-II (I) dated 16th September 2008.
2. Extension of validity of Environment Clearance for 5 years vide MoEF &CC letter dated, 7th March 2014.
3. Transfer of Environment Clearance received in the name of M/s Nayara Energy Limited vide MoEF&CC letter dated 20th July 2018.

Dear Sir,

This has reference to the Environmental Clearance (EC) issued by Ministry of Environment, Forests & Climate Change, Government of India vide above referred letters. As per General Condition No. B (IX) of the Environmental Clearance, we hereby submit our six-monthly compliance status report for the period October 2025 to March 2026 along with relevant Annexures for your kind perusal and record please.

Thanking you,

Yours truly,

For, Nayara Energy Limited



Authorized Signatory

Enclosures: EC compliance report along with Annexures.

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New-Delhi-110032.
2. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10 A, Gandhinagar-382010.
3. The Regional Office, MoEFCC, Karmayogi Bhawan, Block-3, F-2 Wing, Near CH-3 Circle, Sector 10-A, Gandhinagar 382010.
4. Regional Officer, Gujarat Pollution Control Board, Jamnagar.

EC COMPLIANCE REPORT FOR NAYARA ENERGY LIMITED (FORMERLY KNOWN AS ESSAR OIL LIMITED), VADINAR, GUJARAT

Six-monthly compliance report of Environment Clearance for expansion of refinery from 9 MMTPA to 60 MMTPA and Petrochemical Complex
(Ref.: File No. -J-11011/320/2006-IA-II (I) dated September 16, 2008, validity extended for 5 years vide MoEF letter No. F. No: J-11011/320/2006-IA-II (I), dated 7th, March 2014 and name changed on 20th July 2018)

Status as on 1st April, 2026

Sr. No.	Specific Conditions	Compliance
I	M/s Essar Oil Limited shall comply with new standards / norms for Oil Refinery Industry Under the Environment Protection Rule 1986 vide GSR 186 (E) dated 18 th March 2008. The design of refinery unit shall incorporate process features and equipment's to comply with the emission and effluent standards for petroleum refinery.	Nayara Energy Limited (Formerly known as Essar Oil Limited) is in compliance with the conditions given for Oil & Gas Industries in GSR 186 (E) dated 18th March, 2008. The design of refinery units incorporates process features and equipment in such a manner to comply with all the norms prescribed in GSR 186 (E) dated 18th March 2008. Following features have been adopted in design stage to control air emissions: Low Temperature Shell Claus off Gas Treating Units (LT SCOT) at sulfur recovery units. Sulfur Recovery Unit having sulfur recovery efficiency more than 99.7%. Multistage Cyclone Separator in Fluidized Catalytic Cracking & Regeneration unit for particulate emission control. Amine Absorbers - The fuel gas produced in the refinery contains H₂S. This is removed in the Amine absorber columns and the sweet gas is routed to Refinery fuel gas system.

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		Use of Low Sulfur Refinery fuel Gas and Fuel Oil in heaters / furnaces. Installed Low NO_x burners in all heaters / furnaces. Floating roof tanks are provided for storage of class A products; this reduces HC vapor loss. Double seal has been provided in order to minimize vapor leakage. All vent offs are connected to the flare to take care, emergency releases from refinery plant.
II	The gaseous emissions (SO₂, NO_x, H₂S, NH₃, NMHC, HC, VOC and Benzene) from various process units shall confirm to the standards prescribed by the concerned State Pollution Control Board. All the measures detailed in the Environment Management Plan (EMP) and response to the public hearing shall be taken to control the point / stack and fugitive gaseous emission from the proposed facilities for ensuring that the ambient air quality around the refinery due to the expansion is maintained within prescribed limit under the EPA, 1986.	The gaseous emissions parameters as prescribed by Gujarat Pollution Control Board in Consolidated Consent & Authorization (CC & A) from stacks attached to heaters / furnaces and to various process units are being complied with. It may kindly be noted that the CC&A specifies only SO₂, NO_x, PM, CO, Ni+V, H₂S gases. Refinery is operated in a closed loop, hence VOC emission is minimum. VOC are monitored as a part of LDAR program as per GSR 186 (E) dated 18th March, 2008. For the period of October 2025 to March 2026, gaseous emissions monitoring results are tabulated in Annexure-I. Measures detailed in the Environment Management Plan (EMP) are attached as Annexure-II. No issues raised regarding control of the fugitive gaseous emission during the Public hearing. However, Adequate control measures as mentioned above have been taken to ensure that ambient air quality around the refinery is maintained within prescribed limit. The summary of the ambient air quality monitoring for the period of October 2025 to March 2026 given in Annexure-III. All the parameters are well below the limits prescribed by statutory authority.

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III	The company shall confirm to the process vent standards for organic chemicals including non-VOCs and all possible VOC i.e. TOCs standards and process vent standards for top priority chemicals. Regular monitoring shall be carried out for VOC and HC and on-line monitors for VOC measurements may be installed.	All process vents are connected to flare. VOC emissions are monitored manually in the vicinity of potential sources of VOC emissions. Regular monitoring of VOCs carried out. The company has well established procedure for leak detection and repair under which VOCs are monitored in all the units manually though photo-ionization VOC meters. All the pumps and other equipment where there is a likelihood of HC leakages are provided with hydrocarbon detectors with LEL indicators. VOC emission monitoring results for the period of Oct'2025 to Mar'2026 are given in Annexure-IV.
IV	The total SO₂ emission load for 32 MMTPA refinery capacity and petrochemical complex will be below 24.60 tons/ day and for III phase for 60 MMTPA production petrochemicals shall not exceed 38.69 tons /day. Regular record on sulfur emission shall be maintained as part of the environmental data record. SRU of 99% sulfur removal will be established and efficiency will be monitored at regular intervals. Performance evaluation will be done for all these activities on annual basis to check adequacies and improve on the deficiencies.	Presently, refinery is operating at 21 MMTPA capacity. The minimum monthly average SO₂ emission load is 3.37 MT/day and maximum SO₂ emission load is 4.44 MT/day. Regular records on sulfur emission are being maintained as a part of environmental data record. The refinery has three units of SRU. All SRU units are having LT-SCOT Technology with design efficiency of 99.9%. Performance evaluations of SRUs is being done on monthly basis. Presently, all SRUs are operating at 99.9% sulfur recovery efficiency. Details are as shown below:

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		SO₂ emission from Stack (MT/day)					
		Sulfur emission record based on the monitoring carried out by NABL accredited laboratory are given as below.					
		Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26
		3.52	4.33	4.44	4.42	3.37	3.91
V	On-line monitoring shall be carried out for stack emission of SO₂ & NO_x contributed mainly from CDU, VDU, SRU, etc. and data shall be transferred to CPCB and SPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated regularly. The monitoring protocol shall ensure continuous monitoring of all the parameters.	Online monitoring is carried out for stack emission of SO₂ & NO_x in all stacks including CDU, VDU etc. Online data are being transmitted to CPCB and GPCB server. 03 Nos. Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed. The Instruments used for ambient air quality monitoring are periodically calibrated by M/s Thermo Fisher Scientific. Online data are being transmitted to CPCB and GPCB server. Continuous monitoring is being carried out and in case of any abnormality the concerned department is immediately informed, and prompt action is being taken to rectify the problem.					
VI	The existing plant is using low NO _x burners and the same or the one which are more efficient than the existing shall be used for the expansion of the projects too in all furnaces/ heaters.	Low NO _x burners have been provided in all the heaters.					
VII	The company shall install Hydro desulphurization and sulfur recovery unit with efficiency more than 99%	Hydro desulphurization & sulfur recovery unit with efficiency 99.9 % were installed and commissioned in refinery.					

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VIII	For additional LPG storages, refrigerated storage or mounded bullets shall be installed.	No additional LPG storages has been created after receipt of this EC & we confirm that refrigerated storage or mounded bullets will be installed for additional LPG storages, if required in future.
IX	Low sulfur internal fuel oil and fuel gas shall be fired in process heaters.	Low sulfur fuel gas is fired in all the process heaters except CDU, VDU, CDU-II, VGOMHC wherein mixture of low sulfur fuel oil and fuel gas is being fired. Low sulfur internal fuel oil and fuel gas is being fired in process heaters.
X	Quarterly monitoring of fugitive emissions will be carried out by Fugitive Emission Detectors (GMI Leak Surveyor). Guidelines of CPCB shall be followed for monitoring fugitive emissions.	Fugitive emissions monitoring is being carried out by Fugitive Emission Detectors. as per GSR (186) E, 2008. Detailed compliance is given below in condition no XVI.
XI	Floating roof double seal tanks will be provided to reduce the VOC fugitives' emission. For management of fugitive emissions, all unsaturated hydrocarbons will be routed to the flare systems. The flare system shall be designed for smoke less burning.	Floating roof double seal tanks have been installed to reduce the VOC fugitive emission for all Class-A & B Hydrocarbons (HC). For management of fugitive emissions, all unsaturated hydrocarbons are being routed to the flare system which is designed for smokeless burning with steam.
XII	Flare Gas Recovery (FGR) system shall be installed for reduction of hydrocarbon loss and emission of VOCs, NO _x , N ₂ O, and SO _x & CO ₂ to the environment.	Provision for installing Flare Gas Recovery System has been made for reduction of hydrocarbon loss and to reduce emission of VOCs, NO _x , N ₂ O and SO _x & CO ₂ to the environment. At present flare losses are minimal therefore it is flared directly.
XIII	FCC shall be provided with an ESP and other sources of particulate will be controlled to meet E (P) Act standards.	FCC has been provided with high efficiency multi state cyclone separator to ensure that the particulate emissions are within the limit. We are meeting with the E (P) Act standards by installing cyclone separator.

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		Monitoring report for the FCC stack emission parameter for the period of October 2025 to March 2026 is given in Annexure-I .
XIV	Regular Ambient Air Quality Monitoring shall be carried out. The location and results of existing monitoring stations will be reviewed in consultation with the concerned State Pollution control Board based on the occurrence of maximum ground level concentration and downwind direction of wind. Additional stations shall be set up, if required, It will be ensured that at least one monitoring station is set up in up wind & in down wind direction along with those in other direction.	Ambient Air Quality Monitoring is being carried regularly twice a week at 6 locations, in up wind, down wind direction & in cross wind direction. The monitoring reports are regularly submitted to GPCB. 03 nos. of Continuous AAQM Stations also have been installed within the Refinery premises. Real time data of CAAQMS is being transferred to CPCB and GPCB server. Ambient Air Quality monitoring results for the period October 2025 to March 2026 carried out by M/s Unistar Environment & Research Labs Pvt. Ltd. (NABL accreditation no. for Chemical & Biological: TC-15345) are given in Annexure-III.
XV	The practice of acoustic plant design shall be adopted to limit noise exposure for personnel to an 8 hr time weighted average of 90 dB (A).	The acoustic plant design is in refinery to limit noise exposure for personnel to an 8 hr time weighted average of 90 db (A), All the equipment have been designed and are operated with noise level of <90 dB (A). The design of project is such that the sound level in the work area is not exceeding 90 dB (A). Wherever practicable, attempts have been made to reduce the noise level below 90dB (A). However the areas where it is not reasonably practicable to reduce the noise level below the limit have been designated high noise area, where the movement is restricted and limited exposure is allowed to the working personnel. Following measures have been adapted to reduce the noise exposure:

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		- The major areas of concern for noise generation has been addressed by considering it during procurement of the machinery from vendors, project implementation stage and by giving correct specification during tender floating. - Periodic audiometric test is being conducted for employees working close to noise prone areas, such as compressors, DG Sets, the loading and unloading sections. - PPE's are provided to ensure for eardrum protection of the employees, workers as well as visitors. - Acoustic barriers or acoustic enclosures and silencers are provided for the high noise generating equipment. - Sound proofing / glass paneling have been provided at critical operating stations / control rooms. Further Periodical Monitoring of the exposure to the person working in high noise is being done.
XVI	All the pumps and other equipment's where is a likelihood of HC leakages shall be provided with LEL indicators and Hydrocarbon detectors.	All the pumps and other equipment where there is a likelihood of HC leakages are provided with hydrocarbon detectors with LEL indicators. Around 699 nos. of Hydrocarbon detectors have been installed in all areas where there is a likelihood of HC leakages from pumps and other equipment.  

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	Provision for immediate isolation of such equipment, in case of a leakage will also be made. The company shall provide a well-defined Leak Detection and Repair (LDAR) programme for quantification and control of fugitive emissions. The detector sensitivity will be in PPM levels.	The range of detector is 0-100% LEL of the Hydrocarbon of respective area and Alarm value is L1: 20% LEL and L2: 40% LEL. Standby pumps have been provided so that leaky pumps are immediately isolated and maintained. The company has well established procedure for leak detection and repair as per GSR 186 (E) dated 18th March, 2008 under which VOCs are monitored in all the units manually through photo-ionization VOC meter since 2010. The detection limit of the instrument used for measurement of VOC is 0.1 to 10,000 PPM. VOC monitoring for the month of October 2025 to March 2026 is shown in Annexure-IV.
XVII	The product loading gantry shall be connected to the product sphere in closed circuit through the vapor arm connected to the tanker. Data on fugitive emission from here shall be regularly monitored and records will be maintained.	The LPG Loading gantry has been connected to the product sphere in closed circuit through the vapor arm connected to the tanker. Data on fugitive emission from product gantry & nearby area is as shown in Annexure-IV.
XVIII	The company shall ensure that no halogenated organic is sent to the flares. If any of the halogenated organic are present, then the respective streams may be incinerated, if there are no technically feasible or economically viable reduction/recovery options. Any stream containing organic carbon, other than halogenated shall be connected to proper flaring system, if not to a recovery device or an incinerator.	We will ensure that no halogenated organic is sent to the flare and suggested treatment will be implemented. All other streams containing organic carbon are routed to flare system.

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		The quantity of sea water return to sea is monitored daily and is well below the stipulated limits. <table><tr><th>Month</th><th>Oct'25</th><th>Nov'25</th><th>Dec'25</th><th>Jan'26</th><th>Feb'26</th><th>Mar'26</th></tr><tr><td>Sea Water Return, M³/hr</td><td>3165</td><td>3149</td><td>2914</td><td>2611</td><td>2806</td><td>3610</td></tr></table>	Month	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Sea Water Return, M³/hr	3165	3149	2914	2611	2806	3610
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Sea Water Return, M³/hr	3165	3149	2914	2611	2806	3610										
XXI	Regular monitoring of relevant parameters for the underground water in the surrounding areas will be undertaken and the results will be submitted to the relevant States pollution Control Boards.	Monitoring of relevant parameters for the underground water in the surrounding areas is being carried out six-monthly, recent monitoring was done in December 2025, results of ground water quality monitoring is given in Annexure-VI . Copy of EC compliance report comprising ground water quality monitoring results are being also submitted to the State pollution Control Board.														
XXII	All organic waste shall be sent to incinerator only. For potential of heat recovery, the possibility of installing incinerator at site shall be explored and plan may be submitted to the SPCB. Alternatively, it will be sent for use as fuel in the cement Kiln.	The refinery has taken membership of GPCB approved CHWTSDF & Incinerator facility of M/s SEPPL located at Bhachau, Kutch & M/s Safe Enviro Private Limited located at Magnad, Bhachau. Organic waste (Oily Sludge) with high CV is being reprocessed in DCU as well as Co-processed in GPCB authorized Cement Plants. Waste/Residue containing oil, Spent carbon, contaminated cotton rags, heater deposits are also sent to cement industries for co-processing.														
XXIII	Solid waste generated as Pre-treater and Reformer Catalysts, Sulphur guard absorbent and Alumina Balls will be disposed off as the authorization from the State Pollution Control Board.	Spent catalysts, Used/spent oil are being sent to GPCB authorized recyclers. The company has obtained authorization from GPCB vide order no.: AWH-138406 issued in 2024 and valid till 2028 for collection, treatment, storage and disposal of hazardous waste, and conditions there under are being complied with.														

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	Spent catalysts shall be regenerated and waste oil will be sold to the registered recycler only.	As per provisions of the HOWM Rules, 2016 , the characterization of waste has been carried out.						
XXIV	Oily sludge shall be sent to melting pit treatment for recovery of oil. The recovered oil shall be recycled into the refinery system. The residual sludge will be stored in HDPE lined pit for disposal after treatment. The sludge will be incinerated in the premises only.	Oily sludge is being reprocessed in Delayed Coker Unit or co-processed in GPCB authorized Cement Plants. Oily sludge is being stored in sludge drying pit with HDPE liner & leachate collection facility. Oily Sludge is being reprocessed in DCU or Co-processed in GPCB authorized Cement Plants.						
XXV	The project authorities shall 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.	The details of the compliance of the applicable conditions are as given below Compliance of the applicable conditions of MSIHC <table border="1"> <thead> <tr> <th>Sr. No</th><th>Condition</th><th>Compliance Status</th></tr> </thead> <tbody> <tr> <td>1</td><td> An occupier who has control of an industrial activity in term of sub-rule (I) shall provide evidence to show that he has,- (a) identified the major accident hazards; and (b) taken adequate steps to - (i) prevent such major accidents and limit their consequences to persons and the environment; </td><td> a) Refinery has identified all the potential hazards linked with all kinds of operational, administrative and technical activities. Each department and units have their Environment Aspect-Impact, Hazard Identification - Risk Assessment Register as per the activities being carried out. This register is being updated from time to time. b) (i) Refinery has well established safety systems and procedures in place. It also </td></tr> </tbody> </table>	Sr. No	Condition	Compliance Status	1	An occupier who has control of an industrial activity in term of sub-rule (I) shall provide evidence to show that he has,- (a) identified the major accident hazards; and (b) taken adequate steps to - (i) prevent such major accidents and limit their consequences to persons and the environment;	a) Refinery has identified all the potential hazards linked with all kinds of operational, administrative and technical activities. Each department and units have their Environment Aspect-Impact, Hazard Identification - Risk Assessment Register as per the activities being carried out. This register is being updated from time to time. b) (i) Refinery has well established safety systems and procedures in place. It also
Sr. No	Condition	Compliance Status						
1	An occupier who has control of an industrial activity in term of sub-rule (I) shall provide evidence to show that he has,- (a) identified the major accident hazards; and (b) taken adequate steps to - (i) prevent such major accidents and limit their consequences to persons and the environment;	a) Refinery has identified all the potential hazards linked with all kinds of operational, administrative and technical activities. Each department and units have their Environment Aspect-Impact, Hazard Identification - Risk Assessment Register as per the activities being carried out. This register is being updated from time to time. b) (i) Refinery has well established safety systems and procedures in place. It also						

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			(ii) Provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety.	has Emergency Response Disaster Management Plan for prevention of major accidents. Mock drills are carried out timely as a part of prevention plan. (ii)Refinery has a dedicated training center known as Nalanda Knowledge Centre wherein Induction training including firefighting, first aider, safety system awareness is being conducted for all the employees and contractors. In addition to this, Emergency Response Disaster Management Plan training, first aider training and safety refresher training is allotted every three years to all the personnel.
		2	An occupier shall prepare and keep up-to-date an on-site emergency plan detailing how major accidents will be dealt with on the site on which the industrial activity is carried on and that plan shall include the name of The person who is responsible for safety on the site and the names of those who are authorized to take action in accordance with the plan in case of an emergency.	Refinery has Emergency Response Disaster Management Plan in line with the industrial activity as well as crude handling operations.
		3	The occupier shall ensure that the emergency plan prepared in accordance with sub-rule (I) takes into account any modification made in the	Refinery has Emergency Response Disaster Management Plan in line with the industrial activity as well as crude handling operations.

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			industrial activity and that every person on the site who is affected by the plan-is informed of its relevant provisions.	
		4	An occupier, who has control of an industrial activity in term of sub-rule 1 of this rule, shall arrange to obtain or develop information in the form of safety data sheet as specified in Schedule 9. The information shall be accessible upon request for reference.	Refinery has a separate portal known as Process Safety Management portal wherein all the MSDS as well as chemical database are available.
	Necessary approvals from Chief controller of explosives must be obtained before commissioning of the expansion project. Requisite On-site and off-site Disaster Management plans will be prepared and implemented. Regular mock drill shall be carried out for both On-Site and Off-site plans.	All necessary approvals from Chief Controller of Explosives have been obtained prior commissioning of the expansion project. Emergency Response Disaster Management Plan (ERDMP) for onsite and offsite has been prepared, updated & implemented. Regular mock drills on ERDMP are conducted. Off-site emergency plan is implemented by the district administration in association with neighboring industries, mock drills are carried out regularly for the off -site emergency plan as well. We are in compliance with all the applicable conditions under MSIHC Rules 1989.		
XXVI	Green belt shall be provided to mitigate the effects of fugitive emissions all around the plant in a minimum of 33%	Greenbelt has been developed in 410 Ha area around the periphery and in available area*.		

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	of the plant area in consultation with DFO as per CPCB guidelines.	 Apart from this we have also done mangrove afforestation in 575 Ha area. *Note : Currently 21 MMTPA refinery is established in 1171 Ha area out of total project area of 2275 Ha. As per the current establishment, we have developed green belt in 410 Ha area which is 35 % of the plant area.
XXVII	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	CREP compliance status is given in a separate report as Annexure-VII .
XXVII I	The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Six Nos. reservoirs / ponds have been developed within refinery premises for storage and recharging of ground water. Total capacity of these ponds is 6,25,000 m³. Four Nos. ground water recharge wells have been made at strategic locations within refinery.

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XXIX	Occupational Health Surveillance of the workers shall be done on regular basis and records be maintained as per the Factories Act.	Occupational health Surveillance of the employees is being done in house on regular basis and records are maintained at Occupational Health Centre (OHC) at refinery site as per Factory Act. For contractual staff also medical check-up includes audiometry test and periodic test compliance and records are ensured.
XXX	All the recommendations made in the EIA / EMP and Risk Assessment Reports in respect of environmental management and risk mitigation measures relating to refinery and petrochemical complex shall be implemented. In respect of activities in the marine national park, the recommendations of NIO shall be followed for protection of marine national park.	All recommendations of EIA / EMP have been implemented. Details are given in Annexure-II . In respect of activities in the marine national park, the recommendations of NIO have been implemented for protection of marine national park. Details are given in Annexure-VIII .

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XXXI	The company shall undertake all relevant measures, as indicated during the public Hearing for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local village and administration.	During public hearing various points have been discussed and the compliance status of public hearing points on Socio-economic & CSR activities are given in Annexure-IX as submitted in GPCB. Apart from that we are committed to making positive impact in communities in surrounding village of Vadinar. We are committed to maintaining the highest standards of CSR in its business activities. This facilitates development initiatives in line with provisions under the Companies' Act, 2013, and aligns its vision with Nayara's philosophy of 4Ps – PEOPLE at the core, PROGRESS towards aspirations, POWER of synergy, and PASSION with compassion. The initiatives are strategically designed based on community needs assessment, mapping, participatory planning and considering local feasibility. In all locations, the local Government's effort in development is supplemented with the company's resources and facilitation. According to this philosophy whatever amount is needed as a part of CSR is spent for surrounding villagers. Local people are being trained in technical skill required for plant operation and maintenance. These locally trained people are appointed in plant. CSR activities undertaken during Oct'25 to Mar'26 are given as Annexure-X.
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Sr. No.	General Conditions	Compliance
I	The project authorities must strictly adhere to the stipulations made by the concerned State pollution Control Board (SPCB) and the State Government.	We are following the stipulations made by the Gujarat Pollution Control Board (GPCB) and the State Government.
II	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We confirm that no further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
III	At no time, the emissions should go beyond the prescribed standards. In the event of failure any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	It is ensured that the emission does not go beyond the prescribed standard as per CCA. For continuous emission monitoring of stacks (at the emission source) are provided with online analyzers for real time monitoring of parameters. Alarm has been set in each stack for each parameter at the 90% value of emission standards mentioned in CC&A to ensure corrective action can be initiated in advance. Operators are 24 X 7 watching pollutants emission level of all stacks and immediate actions are taken in case of failure of any pollution control device/ system.
IV	Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters for both surface and ground water.	The untreated effluent received from various units is being collected in effluent collection tanks and necessary treatment is being imparted to achieve the norms prescribed in CCA for the Effluent Treatment Plant (ETP). Influent / effluent's quantities & qualities are being monitored on a daily basis in the ETP. Treated effluent is being monitored by NABL accredited third party and results are provided in Annexure-V. Apart from third party for real time monitoring, online analyzers for effluent quality monitoring systems have been installed & integrated with CPCB server. The groundwater quality of the surrounding villages is monitored six-monthly, which was last monitored in December 2025; results of the same are given in Annexure-VI.

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		Surface water Quality monitoring (sea water) is being carried out by third parties like NIO and Gujarat Institute of Desert Ecology.
V	Industrial wastewater shall be properly collected and treated so to conform to the standards prescribed under GSR 422 (E) dated 1 st May 1993 and 31 st December, 1993 or as amended from time. The treated wastewater shall be utilized for plantation purpose.	Industrial wastewater is being collected at effluent treatment plant having primary, secondary and tertiary treatment system for treatment of effluent to meet the standards prescribed. Effluent quality parameter is within the prescribed limit mentioned in GSR 186 (E) dated 18th March, 2008. Treated water quality for the period of Oct'25 to Mar'26 is given in Annexure-V. The entire Treated Effluent is then reused as a RO feed and Fire Water make up. RO permeate further reuse in Service Water, Cooling Tower make up, horticulture and DM feed.
VI	The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	The design of project is such that the sound pressure level in the work area is not exceeding 90 dB (A). Restricted areas are those locations where it is not reasonably practicable to reduce the noise level below the work area limit. Wherever practicable, attempts have been made to reduce the noise level below 90 dB (A). The noise level is not exceeding 70 dB (A) during daytime and 65 dB (A) during nighttime at the boundary of the project site. The equipment has been chosen in such a way that the above noise limit is never exceeded. ✚ The major areas of concern for noise generation has been addressed by considering it during procurement of the machinery from vendors, project implementation stage and by giving correct specification during tender floating. ✚ Periodic audiometric test is being conducted for employees working close to noise prone areas, such as compressors, DG Sets, the loading and unloading sections. ✚ PPE's are provided to ensure eardrum protection of the employees, workers as well as visitors. ✚ Acoustic barriers or acoustic enclosures and silencers are provided for the high noise generating equipment.

EC COMPLIANCE REPORT FOR NAYARA ENERGY LIMITED (FORMERLY KNOWN AS ESSAR OIL LIMITED), VADINAR, GUJARAT

	The ambient noise level shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	🔊 Sound proofing / glass paneling have been provided at critical operating stations / control rooms. The ambient noise level is monitored during day and night in the periphery of refinery and found to be well within the prescribed standards. The ambient Noise level monitoring reports is given in Annexure-XI. All results are within limit.
VII	Authorization from the State Pollution Control Board must be obtained for collection / treatment /storage /disposal of Hazardous wastes.	Consolidated Consent & Authorization has been obtained from Gujarat Pollution Control Board vide Ref. No AWH-138406 dated 30.12.2024 which is valid up to 21.08.2028.
VIII	The project authorities will provide RS. 3853.00 Crore to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Adequate funds for recurring expenditure shall also be provided. The funds so provided shall not be diverted for any other purposes.	Funds as stipulated have already been ear-marked and implemented for the identified actions as per the EMP for 21 MMTPA refinery. Adequate funds for recurring expenditure are provided.
IX	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 shall be submitted to them regularly. It will also be displayed on the website of the Company.	Six monthly EC compliance status along with monitoring report is regularly submitted to MoEF&CC- Bhopal, CPCB-New Delhi and GPCB - Gandhinagar. The last six-monthly EC compliance report has been submitted vide letter no. Nayara Energy/EC Compliance Report 9 to 60 MMTPA/2025/1393 dated 20.11.2025 to The Regional Office, MoEF&CC, Bhopal. Report has been displayed on the company website.
X	The date of financial Closure and final approval of the project by the concerned authorities and the date of commencing the land development work as well as the commissioning of the project will be informed to the Ministry and its regional Office.	The proposed expansion of 60 MMTPA is not complete yet. Presently we are operating our refinery at 21 MMTPA. All the necessary approval for the same are in place. The details of financial closure and final approval of the project at various stages was submitted to the Ministry and its regional office vide letter no. EOL/ENV/EC refinery/2012/334, dated 25.10.2012.

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EC COMPLIANCE REPORT FOR NAYARA ENERGY LIMITED (FORMERLY KNOWN AS ESSAR OIL LIMITED), VADINAR, GUJARAT

	Sufficient preventive measures shall be adopted to avoid direct exposure to emission and other Hydrocarbons etc.	5. Blood investigation {CBC, RBS, kidney profile, Liver profile} 6. Urine Routine. <u>Once in year</u> (Person not working in hazardous process) –above tests except Audiometry Hydrocarbon and H₂S detectors have been installed at strategic locations in all the units. Timely H₂S and hydrocarbon exposure awareness training is being given to all the contract workman as well as employees. In addition, H₂S detectors are provided to all the employees. It is mandatory for all the employees to carry personal H₂S detectors during field visit.
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EC COMPLIANCE REPORT FOR NAYARA ENERGY LIMITED (FORMERLY KNOWN AS ESSAR OIL LIMITED), VADINAR, GUJARAT

XII	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	The Environment Management Cell has been set up, headed by Senior Executive who reports directly to the Head of Refinery. Technical qualification Env Cell is in table below. Details Environment Management Cell <table><tr><th>Sr. No.</th><th>Name of the Person</th><th>Designation</th><th>Technical Qualification</th></tr><tr><td>1</td><td>P. R. Dixit</td><td>VP & Head- HSEF</td><td>M. Tech Environment</td></tr><tr><td>2</td><td>Jay Pandya</td><td>Head Environment</td><td>M. Tech Environment</td></tr><tr><td>3</td><td>Asmita Patel</td><td>JGM Environment</td><td>M. Tech Environment</td></tr><tr><td>4</td><td>Harshit Shah</td><td>Sr. Manager Environment</td><td>B.E Electrical & PG Diploma in Environment & PG Diploma in Safety</td></tr><tr><td>5</td><td>Jaymin Joshi</td><td>Sr. Manager Environment</td><td>M. Sc. Environmental Science.</td></tr><tr><td>6</td><td>Dip Jogidas</td><td>Manager Environment</td><td>B. E. Chemical PG diploma in Environment and Sustainable Development</td></tr><tr><td>7</td><td>Vinay Vala</td><td>Manager Environment</td><td>M. Tech Environment & PG Diploma Safety</td></tr></table>	Sr. No.	Name of the Person	Designation	Technical Qualification	1	P. R. Dixit	VP & Head- HSEF	M. Tech Environment	2	Jay Pandya	Head Environment	M. Tech Environment	3	Asmita Patel	JGM Environment	M. Tech Environment	4	Harshit Shah	Sr. Manager Environment	B.E Electrical & PG Diploma in Environment & PG Diploma in Safety	5	Jaymin Joshi	Sr. Manager Environment	M. Sc. Environmental Science.	6	Dip Jogidas	Manager Environment	B. E. Chemical PG diploma in Environment and Sustainable Development	7	Vinay Vala	Manager Environment	M. Tech Environment & PG Diploma Safety
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7	Vinay Vala	Manager Environment	M. Tech Environment & PG Diploma Safety																															

Annexure – I

Stacks Emissions Monitoring Data

Period: Oct'2025 to Mar'2026

Frequency of monitoring: Monthly

(A) Emission through heater's/furnace's stacks:

Sr. No.	PLANT	Parameters monitored									
		PM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		CO (mg/Nm ³)		Ni (mg/Nm ³)	Vanadium (mg/Nm ³)
		Min	Max	Min	Max	Min	Max	Min	Max	Min-Max	Min-Max
1	CDU	26	45	68	317	25	51	20	66	BDL	BDL
2	VDU	14	49	75	184	12	46	5	20	BDL	BDL
3	CDU - II	10	14	225	887	28	78	3	18	BDL	BDL
4	VGOMHC	BDL	3	BDL	5	2	17	2	5	NA	NA
GPCB Limit (for Sr. No. 1 to 5)		100		1700		450		200		5	5
5	DHDT	BDL	2	3	10	36	62	BDL	7	NA	NA
6	NHT/CCR	5	7	4	7	55	61	11	38	NA	NA
7	DHDS	BDL	3	4	9	56	86	BDL	8	NA	NA
8	FCC Feed heater	BDL	4	3	9	6	83	9	34	NA	NA
9	HMU - 1	BDL	3	2	4	BDL	15	BDL	2	NA	NA
10	HMU - 2	3	4	2	5	3	18	BDL	3	NA	NA
11	DCU - 1	3	4	4	8	BDL	45	2	25	NA	NA
12	DCU - 2	2	3	5	8	12	47	BDL	23	NA	NA
13	DCU - 3	4	5	5	10	33	45	2	32	NA	NA
GPCB Limit (for Sr. No. 6 to 13)		10		50		350		150		-	-

Annexure – I
Stacks Emissions Monitoring Data

(B) Emission through processes stacks:

Sr. No.	Plant	Parameters monitored					
		Sulfur recovery (%)	H ₂ S (mg/Nm ³)	NO _x (mg/Nm ³)		CO (mg/Nm ³)	
			Min-Max	Min	Max	Min	Max
1	SRU	99.84-99.9	BDL	16	27	71	89
2	SRU - 1	99.9-99.9	BDL	40	67	23	49
3	SRU-2	99.9-99.9	BDL	39	75	12	24
GPCB Limit (for Sr. No. 1 to 3)		98.7	15	350		150	

Sr. No.	Plant	Parameters monitored									
		PM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		CO (mg/Nm ³)		Ni (mg/Nm ³)	V (mg/Nm ³)
		Min	Max	Min	Max	Min	Max	Min	Max	Min-Max	Min-Max
4	FCC Regenerator	24	37	44	54	47	60	204	245	BDL	BDL
GPCB Limit (for Sr. No. 4)		100		500		400		400		2	2

Legends:

CDU/VDU	Crude Distillation Unit / Vacuum Distillation Unit
CDU - II	Crude Distillation Unit – II
NHT/CCR	Naphtha Hydro Treater/ Continuous Catalytic Reforming
DHDS	Diesel Hydro de Sulfurization
FCCU	Fluidized Catalytic Cracking Unit
HMU	Hydrogen Manufacturing Unit
DHDT	Diesel Hydro Treater
VGOMHC	VGO Mild hydrocracker
DCU	Delayed Coker Unit
SRU	Sulfur Recovery Unit
PM	Particulate Matter
SO ₂	Sulfur Dioxide
NO _x	Oxides of Nitrogen
H ₂ S	Hydrogen Sulfide
CO	Carbon Monoxide
Ni	Nickel
V	Vanadium

NA: Not applicable, BDL: Below Detection Limit

Annexure-II

Environmental Management Plan

Environmental Management Plan for mitigation of adverse impacts on environment due to Refinery operations is as follows:

Air Pollution Prevention / Control Measures:

Air pollution prevention / Control measures adopted at site are as following:

- Installed Low Temperature Shell Claus off Gas Treating (LT SCOT) Technology at sulfur recovery units.
- Installed Multistage Cyclone Separator in Fluidized Catalytic Cracking & Regeneration unit for particulate emission control.
- Installed Amine Absorbers - The fuel gas produced in the refinery contains H₂S. This H₂S is removed in the Amine absorber columns and the sweet gas is routed to Refinery fuel gas system. Subsequently H₂S is stripped out from rich amine in amine regeneration unit. Lean amine is reused while H₂S is sent to sulfur recovery unit.
- Use of Low Sulfur Fuel - Refinery Fuel Gas, Natural Gas and Fuel Oil containing low Sulfur are used as fuel in heaters / furnaces.
- Installed Low NO_x burners in all heaters / furnaces.
- Installed Sulfur Recovery Units having sulfur recovery efficiency of 99.7%.
- Floating roof tanks: Floating roof tanks are provided for storage of class A products; this reduces HC vapor loss. Double seal has been provided to minimize vapor leakage.
- Good Flare Management- all vent offs are connected to the flare to take care emergency releases from refinery plant.
- All access roads (internal as well as external) which is being used are paved either with concrete or bitumen to suppress the dust generation along the roads.

Air Environment:

The major sources of air emission is process emissions from FCCU, SRU and emissions from fuel burning in the different heaters / furnaces of refinery's plant operations. To minimize impacts, major steps taken are following:

Regular monitoring and record keeping of emission at refinery as part of environmental data records.

Annexure-II

Environmental Management Plan



Monitoring the Performance of Sulfur Recovery Units (SRU) on a monthly basis.

Energy conservation schemes have been launched, for instance, steam traps management, variable speed control drive.

Leak Detection and Repair Program (LDAR) has been implemented in the refinery. The program includes leak detection of valves, flanges, pumps, floating & fixed rooftop of tanks etc. Total 1,03,311 points were monitored during Oct'2025 to Mar'2026.

Stack Monitoring Facility (SMF) have been provided at proper location in all stacks.

Ambient air quality is being monitored simultaneously at 6 locations within refinery premises twice a week.

Three Continuous Ambient Air Quality Monitoring stations (CAAQMS) have been installed. The same has been hooked up with CPCB and GPCB server.

Continuous Emission Monitoring System (CEMS) has been hooked up with CPCB and GPCB server.

To minimize occupational exposure / hazards, the practice of using personal protective equipment like helmets, safety (gas) masks/ safety dress, shoes etc. is followed, they are provided to all workers, engaged in operation of process units within the refinery complex.

The health checkup (diagnostic) for all regular employees at the refinery complex at scheduled intervals is carried out and the corresponding health records are maintained.

Noise Environment:

The design of the project is such that the sound level in the work area does not exceed 85 dB (A). Restricted areas are those locations where it is not reasonably practicable to reduce the noise level below the work area limit. Wherever practicable, attempts have been made to reduce the noise level below 85dB (A). The noise level does not exceed 70 dB (A) during daytime and 65 dB (A) during nighttime at the boundary of the project site. The equipment has been chosen in such a way that the above noise limit is never exceeded. The noise levels at the nearest habitation after refinery expansion is less than the stipulated standards of CPCB. Good Standard Operational Procedure, the following generic measures have been implemented in base refinery and same will be implemented in addition to the existing green belt, in the future expansion of the project:

Annexure-II

Environmental Management Plan



The major areas of concern for noise generation have been addressed by considering it during procurement of the machinery from vendors, project implementation stage and by giving correct specification during tender floating.

Monitoring of job and location specific noise levels for compliance with HSE regulations by verifying acceptability of noise levels caused by the project activities and comparison with noise criteria.

Periodic audiometric test is being conducted for employees working close to noise prone areas, such as compressors, DG Sets, the loading and unloading sections.

PPE's are provided to ensure eardrum protection of the employees, workers as well as visitors.

Acoustic barriers and silencers have been used in equipment wherever necessary.

Sound proofing / glass paneling have been provided at critical operating stations / control rooms.

Either acoustic barriers/ shelters shall be developed in noisy workplaces or acoustic enclosures are provided for the high noise generating equipment

Monitoring of ambient noise levels is carried out regularly inside the refinery area.

Water & Wastewater Environment:

Water: The main source of water requirement for the refinery is sea water. Sea water is drawn from Gulf of Kutchh by a 44 inch pipeline laid from Gulf of Kutch to refinery site. Sea water is mainly used as cooling media in cooling towers and for producing sweet water by desalination plant. Cooling Tower blow down, desalination plant reject, and RO reject are sent back to sea via a 52 inch pipeline and diffuser system. Sweet water is used for producing DM water, steam, and potable water and in process / operation.

Wastewater: Main source of wastewater generation is refinery operations. Wastewater is treated in the wastewater treatment plant. Full quantity of treated wastewater is reused as RO feed and fire water make-up. Further RO permeate is used in cooling tower make up, Service water, Horticulture and DM feed.

The quality of treated water is monitored daily to ensure that treated water quality is always in compliance with statutory limits.

Continuous Effluent Monitoring system has been hooked up with CPCB and GPCB server.

Land Environment:

Soils in the adjoining areas are sandy loam to silty loam with moderate infiltration rates. Considering this fact, every precaution has been taken to avoid spillage of oils and other petroleum products on soils to protect groundwater and to avoid any danger to other soil microbial groups which are sensitive to oil pollution.

Green belt coverage inside the refinery is well maintained.

Adequate storage facility for temporary storage of hazardous and non-hazardous wastes has been created within refinery premises.

Green Belt Development:

A large green belt area has been developed along the periphery of the refinery at Vadinar. 410 Ha. area is covered under thick Green Belt in refinery and associated facilities.

Annexure – III

Ambient Air Quality Monitoring

Period: Oct'2025 to Mar'2026

Particulars/ Parameters	Unit	GPCB CC&A Limit	Labor Gate			Refinery Main Gate			At 93 Gate			Main Flare			COT			Coal Storage Yard		
			Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
PM ₁₀	µg/m ³	100 (TWA 24 hrs)	68	88	79	58	84	70	61	88	80	52	88	75	61	88	73	64	96	84
PM _{2.5}	µg/m ³	60 (TWA 24 hrs)	19	30	24	14	28	22	18	28	23	16	28	22	16	28	23	18	31	24
Sulphur Dioxide (SO ₂)	µg/m ³	80 (TWA 24 hrs)	12.1	22.4	15.7	12.1	21.4	15.9	11.6	22.1	16.0	11.5	19.8	15.4	11.4	19.6	15.2	11.3	20.3	15.7
Nitrogen Oxides (NO ₂)	µg/m ³	80 (TWA 24 hrs)	15.6	26.3	20.0	13.5	25.7	19.8	14.6	28.1	20.8	16.3	24.8	20.3	14.7	26.3	19.9	14.5	26.3	19.3
Carbon Monoxide (CO)	mg/Nm ³	2 (TWA 8 hrs)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	µg/m ³	5 (TWA Annual)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a) – Pyrene	ng/m ³	1 (TWA Annual)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TWA	Time Weighted Average
BDL	Below Detection Limit
PM10	Particulate Matter of size less than 10 micron
PM2.5	Particulate Matter of size less than 2.5 micron

Annexure - IV

Sampling period: Oct'25 to Mar'26

Frequency of monitoring: Monthly

Sr. No.	VOC monitoring area / unit / plant	Unit	VOC Min-Max
1	Near Truck Gantry (HC Truck Loading)	ppm	0
2	Primary Treatment Unit of Truck Dispatch Area	ppm	24 - 36
3	Expansion ETP	ppm	32 – 46
4	Hazardous waste storage sites	ppm	0
5	Primary Treatment Unit of ISBL-1 process	ppm	25 – 41
6	At Battery Limit in CDU/VDU	ppm	0
7	At Battery Limit in CDU – II	ppm	0
8	Downwind of Oil Separation Basin Unit-8400 of base ETP	ppm	37 – 48
9	Primary Treatment Plant of Crude Tank Storage (COT) Area	ppm	13 – 17
10	Sludge Pit 1	ppm	0
11	Sludge Pit 2	ppm	0
12	Sludge Pit 3	ppm	0

Note: Monitoring is carried out in the areas where probability of hydrocarbon presence is high. Monitoring is done by hand held (portable meter – detection limit 10000 ppm) VOC meter on monthly basis.

Legends:

VOC: Volatile Organic Compounds

PIT: Product Intermediate Tank

CDU/VDU: Crude Distillation Unit / Vacuum Distillation Unit

CDU - II: Crude Distillation Unit - II

ETP: Effluent Treatment Plant

COT: Crude Oil Tank

Annexure - IV

Sr. No.	Unit	Total Components Monitored (Nos.) (Components like Valves, Flanges, Seals and Valve Glands)	Total Emissions before leak attention kg/ yr	Total Emissions after leak attention kg/ yr
1	CDU	10243	2.39	0.00
2	VDU	3765	0.00	0.00
3	CDU-2	8464	1.74	0.12
4	DCU	17833	0.00	0.00
5	DHDS	2709	0.71	0.63
6	DHDT	8310	0.00	0.00
7	Jetty	1761	7.02	0.00
8	NHTCCR	4175	0.85	0.00
9	COT	3719	6.06	0.00
10	FCCU	10992	0.00	0.00
11	VGOMHC	8365	0.00	0.00
12	Pit	22975	13.00	0.00
Total		1,03,311	31.78	0.75

Note: Monitoring is done by handheld (portable meter – detection limit 10000 ppm) VOC meter. *Total 37,227 points monitored where the initial Total Volatile Organic compounds concentration was 0.44 kg/ yr. and after attending the leak the TVOC concentration was 0 kg/ yr.*

Legends:

CDU/VDU	Crude Distillation Unit / Vacuum Distillation Unit
CDU - II	Crude Distillation Unit – II
NHT/CCR	Naphtha Hydro Treater/ Continuous Catalytic Reforming
DHDS	Diesel Hydro de Sulfurization
FCCU	Fluidized Catalytic Cracking Unit
VGOMHC	VGO Mild hydrocracker
ISOM	Isomerization
HMU	Hydrogen Manufacturing Unit
COT	Crude Oil Tankage
PIT	Product Intermediate Tankage
DHDT	Diesel Hydro Treater

Annexure – V

Treated water quality monitoring data

Period: Oct'2025 to Mar'2026

Frequency of monitoring: Monthly

Pollutant Parameters	Unit	Limit specified by SPCB in CCA	Quality of Treated Effluent*		
			Min	Max	Average
pH	-	6.5 – 8.5	6.80	8.10	7.70
Suspended Solids	mg/l	20	12.00	18.00	15.67
Oil & Grease	mg/l	5	<2	<2	<2
Phenol (as C ₆ H ₅ OH)	mg/l	0.35	<0.1	<0.1	<0.1
Sulphide (as S)	mg/l	0.50	0.24	0.46	0.37
COD	mg/l	125	28.60	38.40	34.42
BOD (3 days, 27 °C)	mg/l	15	8.00	14.00	11.50
Cyanide (as CN)	mg/l	0.2	<0.05	<0.05	<0.05
Ammonia as N	mg/l	15	<2	<2	<2
TKN	mg/l	40	<2	<2	<2
P	mg/l	3	0.01	0.03	0.02
Cr (Hexavalent)	mg/l	0.1	<0.05	<0.05	<0.05
Cr (Total)	mg/l	2	<0.05	<0.05	<0.05
Pb	mg/l	0.1	<0.01	<0.01	<0.01
Hg	mg/l	0.01	<0.001	<0.001	<0.001
Zn	mg/l	5	<0.05	<0.05	<0.05
Ni	mg/l	1	0.01	0.02	0.01
Cu	mg/l	1	0.06	0.08	0.07
V	mg/l	0.2	<0.01	<0.01	<0.01
Benzene	mg/l	0.1	<0.001	<0.001	<0.001
Benzo(a)- Pyrene	mg/l	0.2	<0.001	<0.001	<0.001

*Third party monitoring results.

Annexure – VI
Monitoring Results of Ground Water Quality of Surrounding Village

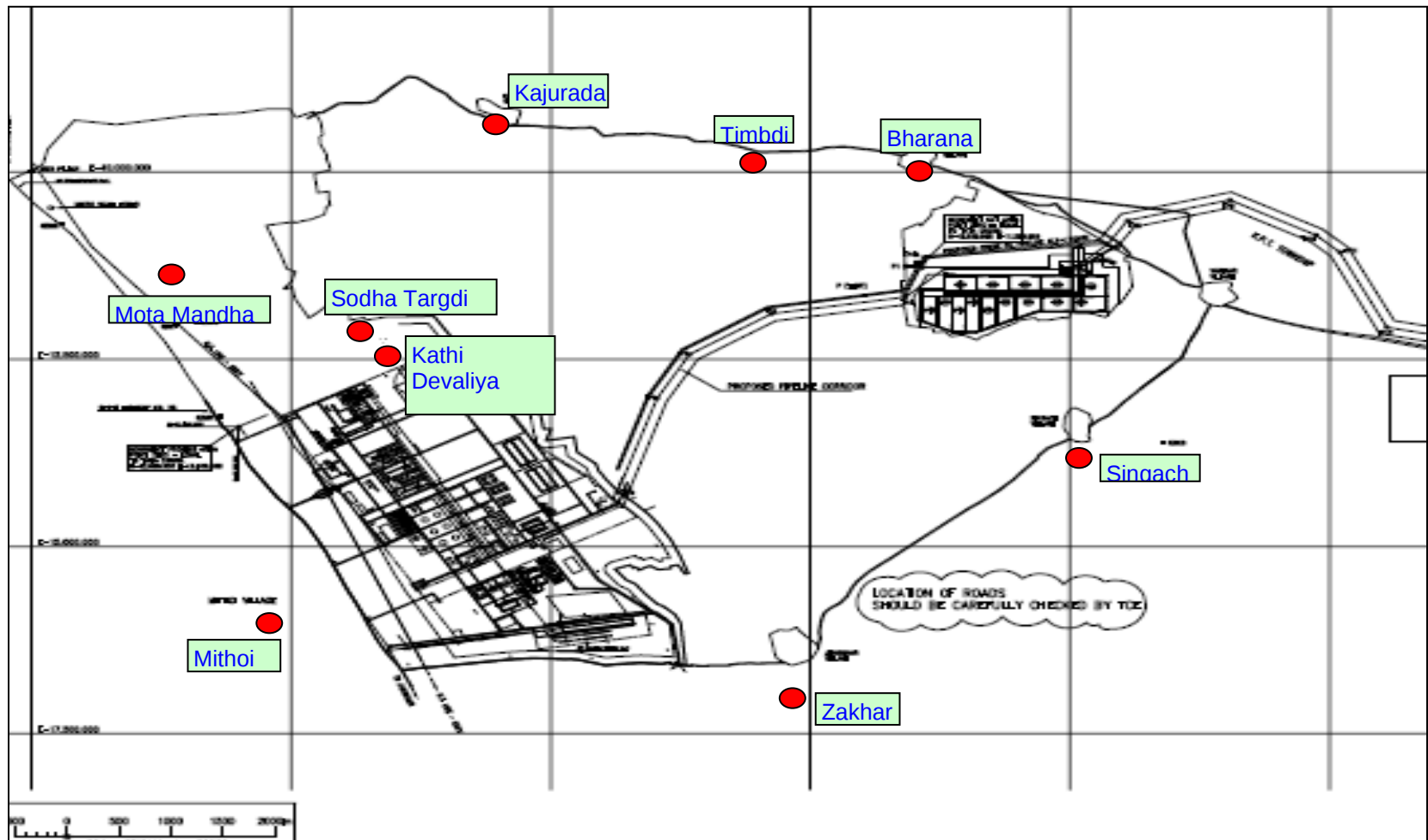


Monitoring Results of Ground Water Quality of Surrounding Villages

Parameters	Unit	Vadinar	Timbdi	Bharana	Mithoi	Kathi Devaliya	Zakhar	Singach	Kajurada	Sodha Taragadi	Mota Mandha
Parameters analysis											
pH	---	7.08	8.12	7.63	7.39	7.55	7.00	7.01	7.66	7.82	8.17
TDS	ppm	1047	3759	363	700	517	1326	1160	367	333	764
Chloride	ppm	264	951	81	154	112	420	413	98	143	249
Sulphate	ppm	104	251	59	93	65	183	163	64	35	88
T-Hardness	ppm	459	2440	196	420	327	976	863	202	112	452
Ca-Hardness	ppm	260	1110	78	249	198	554	542	93	66	155
Mg-Hardness	ppm	199	1330	118	171	129	422	321	109	46	297
O & G	ppm	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Metal Analysis											
Hg	ppm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cr	ppm	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pb	ppm	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zn	ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ni	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cu	ppm	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
V	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cd	ppm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Se	ppm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
As	ppm	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

*** Well water samples collected and analyzed in December 2025**

Annexure – VI
Monitoring Results of Ground Water Quality of Surrounding Village



Location of Villages

Annexure – VII

CHARTER ON CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION



Sector: Petroleum Crude Oil Refineries
March 2003

Name of Industry: **Nayara Energy Limited**
(Formerly known as Essar Oil Limited),
Address: Essar Oil Limited, Post Box 24
PO: Khambhalia, Jamnagar – Okha
Highway, Devbhumi Dwarka-361005

Code: 09

Sr. No. / Activity code No.	Action Point (in brief)	Action Taken Report
A	AIR POLLUTION MANAGEMENT	
1.	All the refineries located in the critically polluted areas, identified by CPCB, will submit an action plan (within six months) for phase wise reduction of SO ₂ emission from the present level	<i>Not Applicable:(Our refinery is neither identified by CPCB nor located in critically polluted area, hence condition is not applicable to us)</i>
2.	Future refineries will have Sulphur Recovery Unit (SRU) with minimum 99% efficiency	<i>SRUs are operating at an average above 99% sulfur recovery efficiency.</i>
3.	To enhance the efficiency of SRUs in the existing refineries, an expert committee will be constituted to look into various aspects and suggest a road map within six months.	<i>All the SRUs are provided with LTSCOT technology to enhance the efficiency of SRUs.</i>
4.	With regard to NO _x emission, the new refineries/process units will install low NO _x burners. For retrofitting of low NO _x burners in existing units, the expert committee will suggest the strategies and action plan within six months including NO _x standard.	<i>All Heaters / boilers are equipped with Low NO_x burners.</i>
5.	The flare losses will be minimized and monitored regularly	<i>Flare loss is being estimated based on material balance and immediate actions are being taken to minimize losses.</i>
6.	Refineries will install continuous emission monitoring systems for SO _x and NO _x in major stacks with proper calibration facilities. Action plan for this will be submitted within six months	<i>Stacks are provided with on-line continuous emission monitoring systems (OCEMS) for parameters SO₂ and NO_x since start-up of refinery. Continuous Emission Monitoring data is being submitted on CPCB and GPCB server.</i>

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7.	Refineries will also monitor total HC and Benzene in the premises (particularly at loading / un-loading operations and ETP). The status and action plan will be submitted within six months.	<i>VOC monitoring is carried out in the vicinity of all potential sources of HC emission such as Primary ETP, Secondary ETP, Truck Loading Gantry, and Rail Loading Gantry. This is being done on monthly basis. VOC emission monitoring results are attached as Annexure-IV.</i> <i>The detection limit of the instrument used for measurement of VOC is 0.1 to 10,000 PPM.</i>
8.	The expert committee will also suggest an action plan, within six months, for control and monitoring of hydrocarbon loss & VOC emissions, leak detection and repair (LDAR) program and vapor recovery systems (for loading & unloading operations within refineries only).	<i>We have established LDAR program. Under this program, total 1,03,311 points were monitored during Oct'25 to Mar'26.</i>
B	WASTE WATER MANAGEMENT	
1.	Refineries will prepare action plan for conservation of water resources and maximizing reuse/ recycling of treated effluent within six months. The treated effluent discharge quantity (excluding once through cooling water) will be limited to 0.4 m ³ /per Ton (for 90% of time) except for the monsoon season.	<i>During period of October 2025 to March 2026, Approx 88% of treated effluent was reused / recycled within refinery for the fire water make up, service water, cooling tower make up, as a RO feed and in green belt area.</i>
2.	Oil spill response facilities at coastal refineries will be in position within two years. To facilitate this, MoEF will coordinate with Coast Guards, Port Trust and other departments.	<i>Oil Spill Disaster Contingency Plan Tier-1 response has been approved by Indian Coast Guard (ICG). Regular Oil spill mock drills are conducted with ICG & Dindayal Port Authority (Formerly known as Kandla Port Trust KPT).</i>
C	SOLID WASTE MANAGEMENT	
1.	Refineries will explore new technologies for reduction in the generation of oily sludge. Strategy and action plan for liquidation of existing sludge will be submitted within six months	<i>ETP Oily sludge is recycled in Delayed Coker Unit (DCU), apart from that oily sludge is sent to M/s Digvijay Cement Company for co-processing</i>

Annexure – VII

CHARTER ON CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION

Sr. No. / Activity code No.	Action Point (in brief)	Action Taken Report
2.	The petroleum coke having high sulphur content will only be sold to/ reused by organized industries (having consent from SPCBs), which have systems to control SO ₂ emissions. This will be ensured by June 2003.	<i>Pet coke is sold to reputed Cement Manufactures such as ACC, Ambuja, Shree Cement, JK Cement, Ultratech Cement, Diamond Cement, Manglam Cement, Orient Cement etc.</i>
NEW ACTION POINTS AS PER FIRST MEETING ON REVISED NATIONAL TASK FORCE HELD ON OCTOBER 09, 2009		
1	Refineries will carry out monitoring and survey to assess HC loss and concentration of VOC in Ambient Air/ Wastewater treatment plant. (Action plan was to be submitted by Jan 2010)	<i>Same as Sr. No. 8 above under Air Pollution Management tab.</i>
2	Refineries will assess the quantity of flare gas. (Install the measurement system if the same is not possible) (Action plan was to be submitted by March 2010)	<i>The flare loss is being assessed on monthly basis and monthly avg. flare loss for the period of Oct'25 to Mar'26 is 0.15 % of crude processed</i>
3	Assessment of Potential leakages from petroleum storage tanks. (Action plan was to be submitted by Jan 2010)	<i>All tanks are above grounds. The highly volatile products / crudes are stored in floating roof tanks which are monitored regularly; so far we did not find any leakages from these tanks.</i>
4	Cleaner Technology options and information to be provided to CPCB. (to be submitted by Feb 2010)	<i>In addition of FO and FG, we are using NG as fuel in heaters / furnaces to the extent of NG available in the market.</i>

Abbreviations:

FO: Fuel Oil

FG: Fuel Gas

LDAR: Leak Detection & Repair

VOC: Volatile Organic Compounds

KPT: Kandla Port Trust

SPCB: State Pollution Control Board

CPCB: Central Pollution Control Board

Annexure – VIII

NIO'S RECOMMENDATIONS & THEIR COMPLIANCE STATUS

NIO carried out Environment Impact Assessment (EIA) sequential studies for marine facilities of M/s Essar Oil Ltd (Now, Nayara Energy Limited), Vadinar from 1994 onwards. The compliance status of the salient recommendations stipulated in those studies is given below:

1. Diffuser for discharge of return sea water into Gulf of Kutch:

Diffuser has been installed as per the design and recommendations of NIO.

2. Overall Risk Assessment of Marine Facility:

Risk assessment was carried out through the third party, viz. M/s Enviro-Software, Bangalore.

3. Contingency plan for Oil Pollution Control:

Based on overall risk assessment, Oil Spill Disaster Contingency Plan has been prepared, vetted by Indian Coast Guard and then implemented.

4. Translocation of Corals:

Coral transplantation was carried out by NIO in consultation with Department of Forests, Government of Gujarat.

5. Periodic Monitoring of Corals and Mangroves:

Initially, monitoring were carried out on half yearly basis for couple of years and thereafter it were undertaken on yearly basis as per NIO's recommendation and GoG's directives. Latest comprehensive marine monitoring along with the monitoring of Corals & Mangroves was done by NIO in November 2023.

6. Monitoring of Marine Environment:

Marine environment is being monitored for water and sediments quality every month by third party – M/s Gujarat Institute of Desert Ecology (GUIDE), Bhuj from November'2010 onward.

7. Erection and Installation of all Marine Structures:

Erection and installation of all Marine Structure was carried out as per the recommendation of CWPRS (Central Water Power Research Station) and NIO.

8. Periodic Inspection and Replacement of Flexible Hoses:

Periodic inspection and replacement of hoses are carried out as per schedule and maintained as per OEM, OCIMF and requirements of our Class ABS. The flexible hoses were tested in October 2024 for their integrity as per international norms and were found satisfactory after pressure test. The safety breakaway couplings have been provided in the system.

Annexure - IX

Compliance status of Public Hearing points on Socio-economic & CSR activities.



During public hearing following point has been discussed and the compliance of the same as submitted in GPCB is given below:

Sr. No.	Public Queries	PH coordinating Officer's Reply	Compliance Status
Shri Jitubhai Bhatt local villager, stated			
1	Due to any Industrial activity people get direct employment as well as indirect employment. This company should therefore keep local village people in direct employment. Skilled category people are being recruited from outside the State. Company should make necessary arrangement to see that locals are made skilled and then recruited these locally skilled people within the company.	Company is complying with the GR of Government of Gujarat regarding 85% of local employment. Since the definition of the local as stated earlier is restricted to state of Gujarat as whole and so it is not within the purview of this company to change the definition of "locals". The company officials further informed that if qualified persons are available from nearby area the company is committed to give top priority to them.	Being complied as per commitment
Shri Dilipbhai Jadeja, Ex Sarpanch of Vadinar, stated			
2	Each farmer whose land has been acquired should be given employment within the company.	At present no additional land is going to be acquired. The present land was acquired way back in the year 1993. Also, that preference would be given to people of the nearby village as per their skills.	Being complied as per commitment
3	Fodder for the cattle of nearby villages should be provided by the company	Fodder distribution in nearby villages is being done; Infrastructures - Gaushalas of nearby area have been upgraded.	Fodder is being distributed in 12 villages on monthly basis namely Sodha Targadhi, Kathi Devalia, Timbdi, Bharana, Rasangpar, Modpar, Kajurda, Vadinar, Vadaliya Sihan, Zakhar, Singach, Mithoi.

	 Gaushala Construction	 Gaushala Renovation	
4	Pipelines for water supply in vadinar village should be provided by the company.	Drinking water support is being provided to 9 villages namely Sodha Targadhi, Kathi Devalia, Timbdi, Bharana, Rasangpar, Modpar, Vijaynagar, Mota Amla and Nana Amla.	Continued being complied
Shri Chandubhai Jadeja of village Vadinar, stated			
5	The company should give preference in employing people of nearby area so that socio economic status of the nearby area also upgraded. He further added that company should initiate for an ITI center in coordination with Government, so that youth of the nearby village can take necessary advantage.	They welcome the suggestion for setting up an ITI center and would try to support such institute if the government proposal in this regard comes to it. Separate budget is allocated under CSR.	- Youth skilling activities were taken up at (A) Govt. ITI Jamnagar, Govt. ITI Jamnagar Mahila , Govt. ITI Khambhalia, Govt ITI Lalpur along with Govt. Polytechnic College Jamnagar (B) Youth Employability Skill (YES) Centres viz. YES Centre Jamnagar, YES Centre Khambhalia, YES Centre Vadinar (C) CNC/VMC Technical Training Centre (in partnership with JFOA Jamnagar). a. 471 youth were trained in 21st century skills module (Content includes basic of 21st Century skills as in basics of English, IT, personality development, communication, and life skills b. 202 youth were trained in Vocational Course in Computers (CCC), Beauty & Wellness, General Duty Assistant (GDA) and Tally etc.

Annexure - IX

Compliance status of Public Hearing points on Socio-economic & CSR activities.



			c. 118 admissions in AutoCAD, CNC programming, VMC programming and Quality Control courses was done successfully.
Shri Kishorsinh Jadeja of Jankhar village, stated			
6	The company should give employment to people whose land has been acquired.	At present no additional land is going to be acquired. The present land was acquired way back in the year 1993. However, company has taken approx. 300 people of nearby area for greenbelt development purpose.	Continued being complied
Shri Mahesh Pandya from Paryavaran Mitra, stated			
7	Government GR of 85% local employment should be implemented.	Government GR of 85% local employment has been already implemented.	Continued being complied
8	Nearby villagers should be given preference for new recruitment.	If qualified person is available in nearby area, company is giving priority to them.	As per the skill set and qualification, company is employing nearby villagers.

Annexure-X

CSR Activities of Nayara Energy Limited



Nayara Energy Limited is committed to maintaining the highest standards of Corporate Social Responsibility (CSR) in its business activities and aims to make a difference to the communities around. Nayara Energy Limited collaborates with key stakeholders, especially the local administration and institutions to facilitate development with initiatives in education, livelihoods, women's empowerment, and health. The interventions are in line with the UN Sustainable Development Goals (SDGs) and the provisions under the Companies' Act, 2013

CSR Activities carried out in Oct'25 to Mar'26 are as under:

Sr. No.	Activity Description /Project	Implementing agencies	ThematicArea wise	In Cr
1	Mobile Health Services	Datta Meghe Institute Of Medical Sciences Nagpur (AVBRH)	Health & Sanitation	0.23
2	Insurance for TT Drivers and FSM	Oriental Insurance and Go Digit	Health & Sanitation	0.57
3	Project Tushti 2.0 - JSI	JSI R&T India Foundation	Health & Sanitation	2.14
4	Project Tushti 2.0 - Chetna	Nehru Foundation for Development (CHETNA)	Health & Sanitation	0.29
5	Project Tushti 2.0 - Gooduse	Gooduse Enterprise	Health & Sanitation	0.00
6	COEN	IIPHG	Health & Sanitation	2.63
7	Community Health Centre	Wockhardt Foundation	Health & Sanitation	1.13
8	Mobile Health Services_Pali	Helapge India	Health & Sanitation	0.07
9	Swachh Halar	J V Nariya Education & Charitable Trust	Health & Sanitation	1.14
10	Nutrition Support to TB	Wardha	Health & Sanitation	0.00
11	Nutrition Support to TB	Pali	Health & Sanitation	0.00
12	Akshay Patra	Akshay Patra	Health & Sanitation	0.00
13	Gram Samruddhi 1.0	BAIF Institute for Sustainable Livelihood Development	Sustainable Livelihoods	3.18
14	Gram Samruddhi 2.0	Solidaridad Regional Expertise Centre	Sustainable Livelihoods	0.00
15	Project Nayar- Revitalising River Nayar	Friends of Himalaya	Sustainable Livelihoods	0.02
16	Education Transformation Projects	VET	Education & Skilling	1.76
17	Fellowship Project	TRIF	Education & Skilling	0.00
18	Support to Govt. Health Establishment	Multiple Vendros - G.G.G. Hospital Jamnagar, General Hospital, Khambhaliya	Rural Development	0.00

19	Village Transformation Projects		Rural Development	0.27
Sr. No.	Activity Description /Project	Implementing agencies	ThematicArea wise	In Cr
20	Village Transformation Projects		Rural Development	0.00
21	Mangrove initiative for Shoreline Habitats and Tangible Incomes	Gujarat Marine	Rural Development	0.78
22	Habitat Improvement and Conservation - Khijadiya	Gujarat Marine	Rural Development	0.00
23	Cotigency Requirement		Rural Development	0.45
24	Mobile Health Service Wardha	Datta Meghe Institute Of Medical Sciences Nagpur (AVBRH)	Health & Sanitation	0.00
25	Multi-utility Centre – extension / addition in the existing facility	Direct	Education & Skilling	0.00
26	Training of young (under 20) footballers	Malabar Sports and Recreation Foundation (MSRF)	Education & Skilling	0.40
27	Solar project at Vadnagar	Direct /Wadnagar Nagarpalika / Gujarat Urban Development Mission	Rural Development	7.30
28	Integrated village development – Srikalahasti	Aroh Foundation	Rural Development	0.00
29	Infrastructure support to IIM Mumbai	IIM Mumbai	Education & Skilling	3.50
30	Construction of Farm Road in Wardha	Direct / Panchayat Samiti	Rural Development	1.00
31	Mid-day meal to students - Kanpur	Akshay Patra	Health & Sanitation	8.67
32	Scholarship for socio-economically weak students of IIM Mumbai	IIM Mumbai	Education & Skilling	2.00
33	Construction of Auditorium at Dibrugarh and Tinsukia	Direct/Assam PWD / Prkalpa Planning Solutions Ltd.	Rural Development	0.00
34	Cancer Care - Support to Oncology Department	Kasturba Health Society / Mahatma Gandhi Institute of Medical Science	Health & Sanitation	7.50
35	Mid-day meal to students	Annamrita	Health & Sanitation	1.98
36	Support for sports, health	Savali Charitable Trust	Rural Development	0.39

	facility and livelihood			
37	Centre of Excellence for IIT/NEET coaching	Ex-Navodaya Foundation	Education & Skilling	0.00
Sr. No.	Activity Description /Project	Implementing agencies	ThematicArea wise	In Cr
38	Support to differently abled students	Army Wives Welfare Association (AWWA) / Asha Schools	Education & Skilling	0.00
39	STEM Learning in schools	Khan Academy	Education & Skilling	0.00
40	Enhancing Education Infrastructure	Deepak Foundation	Education & Skilling	0.23
41	Functional, social and economic rehabilitation of differently abled youth	Swami Vivekananda Youth Movement	Education & Skilling	0.39
42	Agroforestry program	Yuva Unstoppable	Rural Development	0.39
43	Road safety training program	TRAX Sports Society	Rural Development	0.00
44	Improving school infrastructure - construction of toilets, IT lab & solar	Ramkrishna Mission, Chengalpattu	Education & Skilling	0.48
45	Digital Literacy for visually impaired youth	Atmadeepam Society, Nagpur	Education & Skilling	0.04
	Administrative Expenses	5% of the CSR Budget		4.78
Total CSR Budget				53.7

Annexure - XI Noise Monitoring Results

Period: Oct'2025 to Mar'26

Frequency of monitoring: Monthly

Locations	Noise Level, dB(A) during Day Time 06:00 am to 10:00 pm			Noise Level, dB(A) during Night Time 10:00 pm to 06:00 am		
	Min	Max	Average	Min	Max	Average
Ambient Station at Port A Camp	47.2	49.0	47.9	45.4	47.2	46.1
Ambient Station at Labour Gate	47.2	50.2	48.7	45.2	48.8	46.7
Ambient Station at West side of Main Flare1	48.0	49.4	48.9	46.2	47.2	46.8
Nr. Batching Plant	47.0	48.0	47.4	44.8	45.6	45.3
Ambient Station at 93 Gate	47.0	48.4	47.5	44.8	46.6	45.6
Storm water drain outlet	47.0	51.0	48.9	45.4	49.0	47.2
Ambient Station at Refinery Main Gate	48.4	50.4	49.5	46.2	49.2	47.5
Petrol Pump (Near Delhi Darbar)	51.0	53.0	52.2	49.4	51.0	50.2
Ambient Station at Pet Coke Rail Loading Yard	47.0	48.0	47.4	45.0	46.2	45.6
Ambient Air Quality standards in terms of Noise for industrial area	75 dB (A)			70 dB (A)		