

Reference: Nayara/ENV/EC Compliance Report/ADP-1/2024/1319
18th November, 2024

To,
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Gandhinagar, A wing- 407 & 409,
Aranya Bhawan, Near CH-3 Circle, Sector-10A,
Gandhi Nagar-382010

Subject: Submission of Six-monthly compliance report on Environment Clearance for Asset Development Project-1 by M/s Nayara Energy Limited at Vadinar, Devbhumi Dwarka, Gujarat as on 1st October 2024.

Reference: Environment Clearance accorded to M/s Nayara Energy Limited vide F. No: J-11011/320/2006-IA-II (I) dated 5th November, 2020.

Dear Sir,

This has reference to the Environmental Clearance (EC) issued by Ministry of Environment, Forests & Climate Change, Government of India vide above referred letter. With reference to above, kindly find attached herewith six-monthly EC compliance status report for the period of Apr'24 to Sep'24 for your kind perusal and record please.

Thanking you,

Yours truly,

For, Nayara Energy Limited



Authorized Signatory

Enclosures: Asset Development Project-1 EC compliance report.

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. Regional Officer, Gujarat Pollution Control Board, Jamnagar.

EC CONDITIONS COMPLIANCE STATUS OF NAYARA ENERGY LIMITED, VADINAR, GUJARAT

Environment Clearance for Asset Development Project-1

(Ref.: File No. J-11011/320/2006-IA-II (I) dated, 05th November 2020)

Status as on 1st October 2024

Period: April'2024 to September'2024

Sr. No.	Specific Conditions	Current Status
I	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.	We assure to 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 will be implemented.
II	The treated effluent of 108.4 MLD (Desalination/RO Reject) & 36.5 MLD shall be sent for deep-sea discharge through diffuser recommended by NIO.	Confirmed Post implementation of ADP-1, 108.4 MLD (Desalination/RO Reject) & 36.5 MLD Cooling tower blow down will be sent for deep-sea discharge through existing diffuser designed by NIO.
III	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18 th March, 2008 and G.S.R. 595(E) dated 21 st August, 2009 as amended from time to time, shall be followed.	The design of existing refinery units incorporates process features and equipment in such a manner to comply with the conditions given for Oil & Gas Industries in GSR 186 (E) dated 18 th March, 2008 and G.S.R. 595(E) dated 21 st August, 2009 as amended from time to time. Relevant notifications for ADP-1 project will also be followed.
IV	Volatile organic compounds (VOCS)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stack height, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.	Volatile Organic compounds (VOCs) will be treated with modern technology to comply with GPCB/CPCB regulations.
V	Total freshwater requirement for the proposed project shall not exceed 17.3 MLD to be met from Sea water.	Total freshwater requirement for the proposed project will not exceed the specified limit and will

EC CONDITIONS COMPLIANCE STATUS OF NAYARA ENERGY LIMITED, VADINAR, GUJARAT

	Necessary permission in this regard shall be obtained from the concerned regulatory authority.	be met with sea water. The existing sea water intake facility will be sufficient for ADP-1 project.
VI	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	<p>We will comply with the condition.</p> <p>In Nayara ADP-1 facility all the water from polypropylene unit will be first collected in a Pre-Treatment Effluent pit for removal of Polypropylene resin and Oil. This pre-treated effluent will be then sent to the existing Refinery Effluent Treatment unit for further treatment. For PRU plant also it will be sent to existing Refinery Effluent Treatment unit for further treatment Hence, there is no direct or indirect mixing of Process Effluent / any wastewater with Storm water.</p> <p>Storm Water: For the PP unit a storm water channel network has been constructed and all the storm water will pass through Retention Pond (Guard Pond).</p>
VII	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	<p>Confirmed.</p> <p>In Nayara ADP-1 project, Hazardous chemicals will be stored in drums and carboys.</p>
VIII	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	We assure you to comply with the condition. The Hazardous waste will be disposed as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016
IX	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ash from boiler shall be sold to brick manufacturers/cement industry.	The condition is not applicable, as the EC has been granted to the Refinery and Petrochemical project.
X	<p>The company shall undertake waste minimization measures as below:</p> <p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>c. Use of automated filling to minimize spillage.</p>	<p>a- Confirmed, facility is designed accordingly.</p> <p>b- Confirmed.</p> <p>c- Latest Technology / methods will be used, wherever applicable</p> <p>d- Not Applicable</p>

EC CONDITIONS COMPLIANCE STATUS OF NAYARA ENERGY LIMITED, VADINAR, GUJARAT

	<p>d. Use of Close Feed system into batch reactors.</p> <p>e. Venting equipment through vapor recovery system.</p> <p>f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>e- Process system is in place in the selected plant technology.</p> <p>f- Confirmed.</p>
XI	<p>The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along roadsides etc. The project proponent shall ensure 33% greenbelt area vis-à-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>	<p>At Refinery, the requirement of 33 % of the greenbelt developed has been complied with. For ADP-1, the plantation will be carried out along the boundary of ADP-1 Project as appropriate.</p>
XII	<p>As proposed 0.25% of the total project cost shall be allocated towards Corporate Environmental Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.</p>	<p>As proposed, 0.25% of the total project cost has been allocated towards Corporate Environmental Responsibility (CER).</p> <p>For construction of big water harvesting structures, baseline study has been completed and draft report received.</p> <p>For Development of Multispecialty sports complex, letter of intent for contributing Rs.2 crores for establishing indoor sports facility at Khambhaliya has been submitted to Principal Secretary, Sports, Youth & Cultural Activities Department, Govt. of Gujarat. The letter has been acknowledged by Sports Authority of Gujarat on 12.03.2024 and the payment is in process.</p> <p>We will take up construction of big water harvesting structures based on the baseline study and discussion with AD team for necessary process of implementation.</p> <p>To set up Process Safety and Risk Management Excellence Center (Centre of Excellence (CoE)) in the Indian Institute of Technology (IIT), payment of Rs. 10.62 Crores to IIT, Delhi has been made.</p>
XII	<p>For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p>	<p>Confirmed.</p> <p>In Nayara ADP-1 Project, All the DG exhaust system are designed to meet the GPCB/CPCB norms.</p> <p>Stack height is considered as per formula stated in the CPCB guidelines.</p>

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		Acoustic enclosure is considered for the DG set to limit the noise.
XIV	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.	Confirmed. In Nayara ADP-1 Project all the arrangements of protection of possible fire hazards during manufacturing process in material handling shall be care as per the OISD-116, NFPA-13, and IS-15105 and Licensor guidelines as applicable.
XV	Continuous online (24x7) monitoring system for stack emissions 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. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	The effluent generated from the proposed project will be sent to existing ETP through closed pipelines. Online Continuous effluent monitoring system & flow meter has already been installed in existing ETP. These online analyzers have been connected with GPCB/CPCB.
XVI	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being done on a regular basis and records are being maintained as per the Factories Act. We will continue the same practices for the proposed project also.
XVII	Process safety and risk assessment studies shall be further carried out using advanced, models, and the mitigating measures shall be undertaken/implemented accordingly.	Confirmed. Following Process Safety Studies have been carried out during the Nayara ADP-1 Project Execution <ol style="list-style-type: none"> 1.Hazard Identification study (HAZID) 2.Quantitative Risk Assessment (QRA) 3.Hazard and Operability STUDY (HAZOP) 4.Fire and Explosion Risk Assessment (FERA) 5.Simultaneous Operations (SIMOP) 6.Noise Level Monitoring study 7.Vent Dispersion Analysis study 8. Project Health Safety Environment Review (PHSER). The studies are performed in advance software, with Industry standard procedures and the recommendations are implemented in the design and at present

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		accordingly.
XVIII	The PP should improve the efficiency of ETP Plant and the water discharge should be as per prescribed CPCB Norms. They should also install 24x7 hours monitoring system (of the discharge) and the same should be connected to the server of SCPB/CPCB.	Effluent generated from the proposed project will be treated in existing refinery ETP and treated water will be recycled. Online continuous effluent monitoring system & flow meter has been already installed in existing ETP. These online analyzers have been already connected with GPCB/CPCB.
Sr. No.	General Conditions	Current Status
I	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted: We assure you to comply with the provision of EIA Notification, 2006 and amendments made thereunder. 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.
II	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be complied with. All energy sources for lighting in the proposed project will be LED based only.
III	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Will be complied with. A Noise level monitoring study is performed for all the sources of noise generation which shall confirm to standards prescribed under the Environment (Protection) Act, 1986. ISO-9613-1, ISO-9613-2.
IV	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	The company is continually thriving for making positive impacts on the surrounding community. Following CER activities as community welfare measures in the project area is under progress: <ul style="list-style-type: none"> • Developing watersheds in 15 villages nearby the refinery • Developing a multispecialty sports complex. • Entrepreneurship training, and providing start-up funds

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V	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	The company has earmarked sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change. The funds so earmarked for environment management / pollution control measures will not be diverted for any other purpose.
VI	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad /Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	A copy of the environment clearance letter has been submitted to the District Collector office Jamnagar & Devbhumi Dwarka. Office copy of the same is attached herewith as Annexure-1 .
VII	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF&CC, the respective Zonal Office of CPCB and SPCB, A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied with. Six monthly reports on the status of the compliance of the stipulated EC conditions is being submitted regularly in soft copy to respective Regional Office of MOEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance report is also displayed on the company website.
VIII	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MOEF&CC by e-mail.	We assure to comply with the condition.
IX	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality	Complied with. The advertisement within seven days from the date of issue of the clearance letter has been published in two local newspapers and has been forwarded to the concerned Regional Office of the Ministry/GPCB. Copy of the same attached as Annexure-2

EC CONDITIONS COMPLIANCE STATUS OF NAYARA ENERGY LIMITED, VADINAR, GUJARAT

	concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
X	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Date of Financial closure – 25 August, 2021 Date of Start of the Project – 19 February, 2021
XI	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.



Reference No. Nayara Energy/ENV/GPCB/2020/990
11th November, 2020

To,
The Collector,
District Collector Office, Devbhumi Dwarka,
District Seva Sadan, 1st Floor,
Lalpur Bypass Road, Dharampur,
Khambhalia, Gujarat - 361305

Subject : Environmental clearance issued for Asset Development Project-1 (ADP-1) by M/s Nayara Energy Limited, Vadinar, Devbhumi Dwarka, Gujarat.

Reference : Letter no. F. No. J-11011/320/2006-IA II (I), dated: 05.11.2020.

Dear Sir,

We are pleased to inform you that, M/s Nayara Energy Limited has been accorded Environmental Clearance for Asset Development Project-1 (ADP-1) for the expansion of refinery through modernization at Vadinar, Devbhumi Dwarka, Gujarat vide letter referred above.

Please find enclosed herewith copy of the Environmental Clearance letter for the compliance of General Conditions No. 13.1 (VI) as below:

Environmental Clearance General Condition 13.1 (VI)	Nayara Energy Compliance
"A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representation, if any, were received while processing the proposal."	A copy of the Environment Clearance letter is enclosed as Annexure-1 .

Thanking You,
For Nayara Energy Ltd.

P. R. Dixit
Head HSEF

આવેદન પર/રજુઆત
મળેલ છે.
તા. 12 / 11 / 2020

કલાર્ક
રજીસ્ટ્રી શાખા
કલેક્ટર કચેરી, દેવભૂમિ દ્વાર
ખંભાળિયા

Enclosures: Annexure-1 (Environmental Clearance issued by MoEF&CC for Asset Development Project-1 by Nayara Energy Limited)

Registered Office:
Khambhalia, Post Box No.24, Dist. Devbhumi Dwarka, Gujarat 361 305, India
T +91 2833 661444 | F +91 2833 662929

CIN: U11100GJ1989PLC032116
www.nayaraenergy.com

Nayara Energy Limited (Formerly Essar Oil Limited)
5th Floor, Jet Airways Godrej BKC, Plot No. C-68, G Block,
Bandra Kurla Complex, Bandra East, Mumbai 400051, India

T +91 22 66 121800 | F +91 22 6708 2177
E refinery@nayaraenergy.com

0/c



Reference No. Nayara Energy/ENV/GPCB/2020/991
11th November, 2020

To,
The Collector,
District Collector Office, Jamnagar,
District Seva Sadan, Near Police Line,
Jamnagar, Gujarat - 361008

Subject : Environmental clearance issued for Asset Development Project-1 (ADP-1) by M/s Nayara Energy Limited, Vadinar, Devbhumi Dwarka, Gujarat.
Reference : Letter no. F. No. J-11011/320/2006-IA II (I), dated: 05.11.2020.

Dear Sir,

We are pleased to inform you that, M/s Nayara Energy Limited has been accorded Environmental Clearance for Asset Development Project-1 (ADP-1) for the expansion of refinery through modernization at Vadinar, Devbhumi Dwarka, Gujarat vide letter referred above.

Please find enclosed herewith copy of the Environmental Clearance letter for the compliance of General Conditions No. 13.1 (VI) as below:

Environmental Clearance General Condition 13.1 (VI)	Nayara Energy Compliance
"A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representation, if any, were received while processing the proposal."	A copy of the Environment Clearance letter is enclosed as Annexure-1 .

Thanking You,
For **Nayara Energy Ltd.**

P. R. Dixit
Head HSEF

22/11/20
સાચી સેવા, જામનગર

સાચી સેવા, જામનગર

Enclosures: **Annexure-1** (Environmental Clearance issued by MoEF&CC for Asset Development Project-1 by Nayara Energy Limited)

Registered Office:
Khambhalia, Post Box No.24, Dist. Devbhumi Dwarka, Gujarat 361 305, India
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Bandra Kurla Complex, Bandra East, Mumbai 400051, India

T +91 22 66 121800 | F +91 22 6708 2177
E refinery@nayaraenergy.com



Reference No. Nayara Energy/ENV/GPCB/2020/992

11th November, 2020

To,

Ministry of Environment, Forests and Climate Change,

Regional Office, Kendriya Paryavaran Bhavan,

E-5, Area Colony, Ravi Shankar Nagar, Link Road No. 3

BHOPAL – 462016

Subject : Regarding advertisement of Environmental Clearance in Newspapers.

Reference : Environmental clearance issued for Asset Development Project-1 (ADP-1) by M/s Nayara Energy Limited vide letter no. F. No. J-11011/320/2006-IA II (I), dated: 05.11.2020.

Dear Sir,

We are pleased to inform you that, M/s Nayara Energy Limited has been accorded Environmental Clearance for Asset Development Project-1 (ADP-1) for the expansion of refinery through modernization at Vadinar, Devbhumi Dwarka, Gujarat. The copy of Environmental Clearance is attached herewith as **Annexure-1** for your kind reference.

As per the General Condition no. IX of Environmental Clearance, which states as under:

“The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.”

Complying with above mentioned condition, we have published advertisement stating grant of Environment Clearance to our Asset Development Project-1 in two local newspapers (Gujarat Samachar & Times of India) dated 11.11.2020, which are widely circulated in region. Copy of Newspaper advertisement cutting is attached *herewith as Annexure-2*.

Registered Office:

Khambhalia, Post Box No.24, Dist. Devbhumi Dwarka, Gujarat 361 305, India
T +91 2833 661444 | F +91 2833 662929

CIN: U11100GJ1989PLC032116
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Bandra Kurla Complex, Bandra East, Mumbai 400051, India

T +91 22 66 121800 | F +91 22 6708 2177
E refinery@nayaraenergy.com



Request your good self to kindly acknowledge the advertisement published in widely circulated newspapers in this region and consider the General Condition as complied with.

Thanking You,

For Nayara Energy Ltd.

A handwritten signature in blue ink, appearing to read "P. R. Dixit", is written over a horizontal line.

P. R. Dixit

Head HSEF

Enclosures:

- 1) Annexure-1 (Environmental Clearance issued by MoEF&CC for Asset Development Project-1 by Nayara Energy Limited)
- 2) Annexure-2 (Advertisement on Grant of Environment clearance in two widely circulated local newspapers.)



F.No. J-11011/320/2006- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

By Speed Post/Online

Indira Paryavaran Bhawan
 Jorbagh Road, New Delhi - 110003

Dated: 5th November, 2020

To

M/s Nayara Energy Limited,
 Khambhalia, PO Box.24
 District Devbhumi Dwarka
 Gujarat - 361 305

Email: priya.ayengar@nayaraenergy.com

Sub: Expansion of Refinery (Asset Development Project-1) through modernization by M/s Nayara Energy Limited located at Vadinar, Devbhumi Dwarka, Gujarat - Environmental Clearance regarding

Sir,

This has reference to your proposal No. IA/GJ/IND2/152329/2020 dated 20th July, 2020 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion of Refinery (Asset Development Project-1) through modernization by M/s Nayara Energy Limited located at Vadinar, Devbhumi Dwarka, Gujarat.

3. The details of products and capacity as under:

S. No.	Products	Production Capacity (KTPA)	
		Existing (20 MMTPA)	Post ADP1(20 MMTPA)
1.	LPG	938	1208
2.	Naphtha	4200	3540
3.	Gasoline		
4.	SKO/ATF	872	732
5.	Diesel/ HSD	9706	10245
6.	Furnace Oil/VGO	220	35
7.	Sulphur	318	319
8.	Petcoke	2247	2287
9.	Bitumen	377	-
10.	Polypropylene	-	450
11.	Fuel & Losses		
	a. Fuel	1009	1066
	b. Losses	111	117

4. Total land area of the project is 2,27,50,000 sqm. Out of which 4,00,000 sqm land will be utilized for the proposed project. Industry has already developed Greenbelt in an area of 34% i.e. 41,00,000 sqm out of total area of the project. The

EC for M/s Nayara Energy Limited

estimated project cost is Rs. 6,200 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs.10 Crore and the Recurring cost (operation and maintenance) will be about Rs.14 Lakh/annum. Total Employment will be 150 persons as direct & 7000 persons indirect after modernization.

5. Total water requirement of 221.3 MLD will be met from Sea Water which includes 204 MLD for existing and 17.3 MLD for proposed modernization project. Effluent of 27.1 MLD will be treated through effluent treatment plant and entire treated effluent will be utilized for service water, fire water make up, horticulture and as RO Feed. 108.4 MLD Desalination/RO Reject & 36.5 MLD sea water based cooling tower blow down will be sent for deep sea discharge through diffuser recommended by NIO.

6. Power requirement after modernization will be 199 MW including existing 160 MW and will be met from CPP (Captive Power Plant). Existing unit has 27 DG sets of (125 kVA to 2000 kVA) capacity used as stand by during power failure. Proposed ADP-1 will add 2 DG sets of capacity 1250 kVA and 1 DG set of capacity 1000 kVA. Stack (Height 30 m) will be provided as per CPCB norms to the proposed DG sets.

7. The project/activity is covered under category A of items 4(a) "Petroleum Refining Industry", 5(c) "Petro-chemical complexes" of the Schedule the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

8. The proposal has been submitted under para 7 (ii) of the EIA Notification, 2006 requesting exemption from ToR, public hearing and EIA report.

9. The proposal was considered by the EAC in its 22nd meeting held on 20th August, 2020 in the Ministry, wherein the project proponent and their consultant M/s. National Environmental Engineering Research Institute presented made a detailed presentation on the salient features of the project.

10. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with PFR report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the PFR report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

11. The Committee noted that the Form 1/PFR report is in compliance of the notification/guidelines/OMs issued by the Ministry for such projects, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The compliance of the existing EC conditions found to be satisfactory. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found

the proposal in order and have recommended for grant of Environmental Clearance as per para 7(ii) of the EIA Notification, 2006 exempting fresh public hearing.

12. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

13. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of Refinery (Asset Development Project-1) through modernization by M/s Nayara Energy Limited located at Vadinar, Devbhumi Dwarka, Gujarat**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

A. Specific Conditions:

- (i). 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.
- (ii). The treated effluent of 108.4 MLD (Desalination/RO Reject) & 36.5 MLD shall be sent for deep sea discharge through diffuser recommended by NIO.
- (iii). The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R.595(E) dated 21st August, 2009 as amended from time to time, shall be followed.
- (iv). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stack height, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.
- (v). Total fresh water requirement for the proposed project shall not exceed 17.3 MLD to be met from Sea water. Necessary permission in this regard shall be obtained from the concerned regulatory authority.
- (vi). Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- (vii). Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.
- (viii). Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (ix). Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water

regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ash from boiler shall be sold to brick manufacturers/cement industry.

- (x). The company shall undertake waste minimization measures as below: -
 - a) Metering and control of quantities of active ingredients to minimize waste.
 - b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c) Use of automated filling to minimize spillage.
 - d) Use of Close Feed system into batch reactors.
 - e) Venting equipment through vapour recovery system.
 - f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xi). The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. The project proponent shall ensure 33% greenbelt area vis-à-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xii). As proposed 0.25% of the total project cost shall be allocated towards Corporate Environment Responsibility (CER). As proposed, the CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed in CER shall be spent during execution of the project and shall not be linked with the CSR.
- (xiii). For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (xiv). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (xv). Continuous online (24x7) monitoring system for stack emissions 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. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.
- (xvi). Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xvii). Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.
- (xviii). The PP should improve the efficiency of ETP Plant and the water discharge should be as per prescribed CPCB Norms. They should also install 24x7 hours monitoring system (of the discharge) and the same should be connected to the server of SCPB/CPCB.

13.1. General conditions:

- (i). No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii). The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii). The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv). The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v). The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (vi). A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (vii). The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (viii). The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

- (ix). The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- (x). The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xi). This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
17. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.
18. This issues with the approval of the competent authority.

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05/11/2020

(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(डॉ. आर. बी. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10

3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The District Collector, District Devbhumi Dwarka (Gujarat)
6. Guard File/Monitoring File/Website/Record File

(Dr. R. B. Lal)
Scientist 'E'/Additional Director
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ADP-1 Environment Clearance Advertisement:

PUBLICATION NAME : TIMES OF INDIA (English Daily)
CITY : Ahmedabad edition
DATE : 11-11-2020 (Wednesday)
PAGE NO. : 08

TITLE: *Public Notice for the Environment Clearance granted by MoEF&CC on 05.11.2020 to the Asset Development Project-1 by Nayara Energy Limited.*

Public Notice

This is to bring to the Public Notice that Government of India, Ministry of Environment, Forest and Climate Change has accorded Environment Clearance to the 'Asset Development Project-1 (ADP-1)' by M/s Nayara Energy Limited with specific and general conditions on date 05.11.2020, under the provisions of EIA Notification, 2006 and amendments/circulars issued thereon.

Copies of Environmental Clearance letter are available with the Gujarat Pollution Control Board and may also be seen at website of the Ministry of Environment, Forest & Climate Change at <https://parivesh.nic.in/>.

- Head Projects, Nayara Energy Limited

ADP-1 Environment Clearance Advertisement:

PUBLICATION NAME : Gujarat Samachar (Gujarati Daily)
CITY : Rajkot edition
DATE : 11-11-2020 (Wednesday)
PAGE NO. : 09

TITLE: *Public Notice for the Environment Clearance granted by MoEF&CC on 05.11.2020 to the Asset Development Project-1 by Nayara Energy Limited.*

::: જાહેર નોટીસ :::

આથી જાહેર જનતાના ધ્યાને લાવવામાં આવે છે કે, ભારત સરકાર, પર્યાવરણ, વન અને આબોહવા પરિવર્તન મંત્રાલયે ઈ.આઈ.એ. સુચન, ૨૦૦૬ અને તેમાં જારી સુધારા/પરિપત્રોની જોગવાઈઓ હેઠળ મેસર્સ નયારા એનર્જી લિમિટેડ દ્વારા 'એસેટ ડેવલપમેન્ટ પ્રોજેક્ટ-૧ (એડીપી-૧)'ને વિશિષ્ટ અને સામાન્ય શરતો સાથે તા.૫-૧૧-૨૦૨૦ના રોજ પર્યાવરણીય મંજૂરી આપી દીધી છે.

પર્યાવરણીય મંજૂરી પત્રોની નકલો ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ પાસે ઉપલબ્ધ છે અને પર્યાવરણ, વન અને આબોહવા પરિવર્તન મંત્રાલયની વેબસાઈટ <https://parivesh.nic.in/> પર પણ જોઈ શકાય છે.

હેડ પ્રોજેક્ટસ, નયારા એનર્જી લીમિટેડ