

Reference: Nayara CPP/ENV/32631/EC Compliance of 483 MW/2024/1322

19th November 2024

To,
The Deputy Director General of Forest (Central)
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: Environmental Clearance (EC) compliance report of M/s Nayara Energy Limited, Captive Power Plant 483 MW at Khambhalia, District - Devbhumi Dwarka, Gujarat, for period from 1st April 2024 to 30th September 2024.

Reference: 1) Clearance No. J-13012/130/2008-IA.II (T) dated 21st September 2011, renewed on 7th August 2018 & amended on 07th May 2020.

Dear Sir,

This has reference to the Environmental Clearance (EC) issued by Ministry of Environment, Forests & Climate Change, Government of India vide letter referred above. As per General Condition No. XVII of the Environmental Clearance, we hereby submit our six monthly compliance status report for the period 1st April 2024 to 30th September 2024 along with relevant Annexures for your kind perusal and record please.

Thanking you,

Yours truly,

For, Nayara Energy Ltd. (CPP)

for 
Authorized Signatory

Enclosure: EC Compliance Report 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. Regional Officer, Gujarat Pollution Control Board, Jamnagar

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Bandra Kurla Complex, Bandra East, Mumbai 400051, India

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EC COMPLIANCE REPORT AS ON 30th September 2024

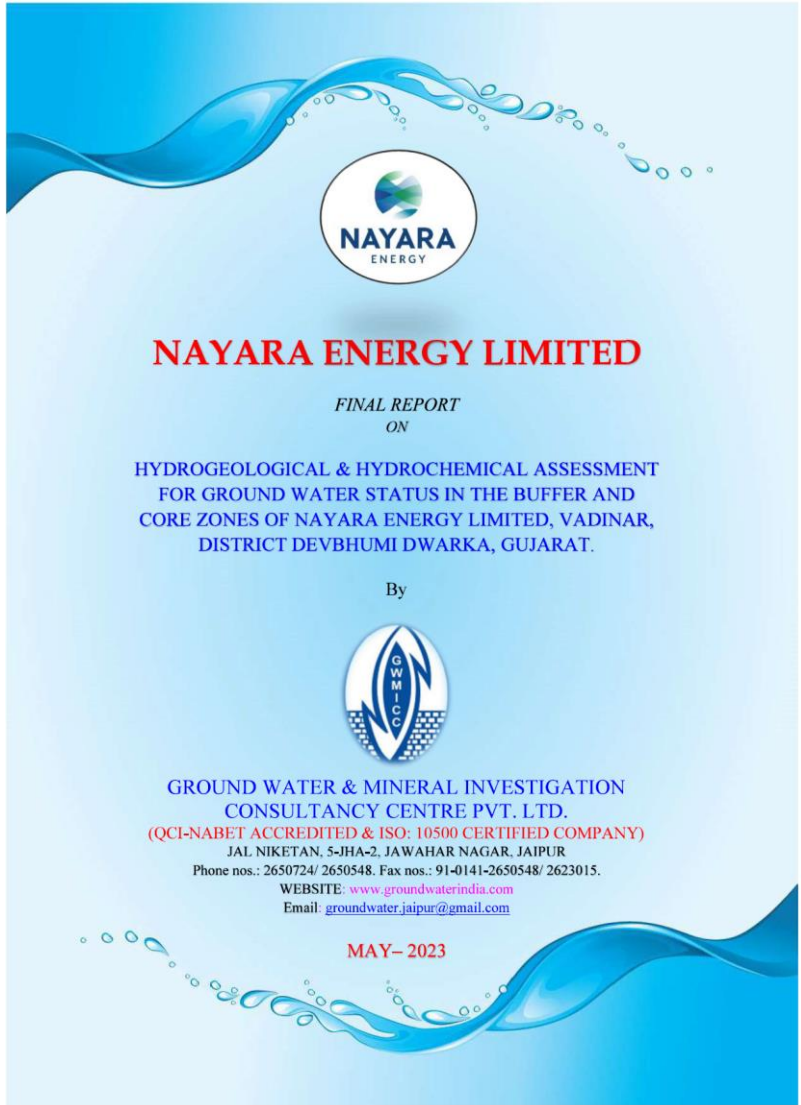
Ref: MOEF clearance No. J-13012/130/2008-IA.II (T) dated 21st September 2011, renewed on 7th August 2018 & amended on 07th May 2020

Compliance Report for 483 MW Environment Clearance, period from 1st April 2024 to 30th September 2024

Sr. No.	SPECIFIC CONDITIONS	compliance status
I.	Approval/clearance from the National Board of Wildlife shall be obtained. Further, grant of environmental clearance does not necessarily imply that wildlife clearance shall be granted to the project and the proposal shall be considered by the National Board of Wildlife on merits. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of clearance from the wildlife angle shall be entirely at the cost and the risk of the company and MoEF in this regard shall not be responsible in any matter.	<p>As per the letter received. from the office of Chief Conservator of Forest, Marine National Park, Jamnagar, NAYARA ENERGY LTD. (CPP) submitted application to obtain Wildlife clearance. As per the letter, since the Nayara Energy Ltd. (CPP) is located 8 kms away from Marine National Park (MNP), Marine National Sanctuary (MNS) area, hence, the project does not fall inside the Eco Sensitive Zone (ESZ).</p> <p>The copy of the letter with its translation are attached here as <u>Annexure – 1.</u></p>
II.	Environmental clearance is subject to final order of Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ petition (civil) no. 460 of 2004, as may be applicable to this project.	<p>As per the letter received from the office of Chief Conservator of Forest, Marine National Park, Jamnagar, NAYARA ENERGY LTD. (CPP) submitted application to obtain Wildlife clearance. As per the letter, since the Nayara Energy Ltd. (CPP) is located 8 kms away from Marine National Park (MNP), Marine National Sanctuary (MNS) area, hence, the project does not fall inside the Eco Sensitive Zone (ESZ).</p> <p>The copy of letter with its translation are attached here as <u>Annexure – 1.</u></p>

<p>III.</p>	<p>A comprehensive conservation plan for protection and preservation of the Marine National Park prepared and vetted by the Competent Authority shall be implemented first in consultation before construction work for the plant is initiated.</p>	<p>As per the below documentary proof, NAYARA ENERGY LTD. (CPP) is located 8 km away from the MNP, MNS & ESZ. Hence the condition is not applicable to NAYARA ENERGY LTD. (CPP).</p> <p>Letter from Chief Conservator of Forest & Director of Marine National Park, Jamnagar, mentioning the distance of 8 km from MNP/MNS & ESZ is enclosed herewith as Annexure – 1.</p>																																								
<p>IV.</p>	<p>Conservation plan of Mangroves as stipulated while clearance of the construction of Jetty shall be first implemented before starting construction activity.</p>	<p>Coal for NAYARA ENERGY LTD. (CPP) is routed via Bedi port of Gujarat Maritime Board & Salaya port of M/s EBTSL.</p> <p>NAYARA ENERGY LTD. (CPP) is not having any captive Jetty for receipt of coal, hence the specified condition is not applicable.</p>																																								
<p>V.</p>	<p>Vision document specifying prospective plan for the site shall be formulated and submitted to the ministry within six months.</p>	<p>Complied with.</p> <p>The vision document has been provided to the Ministry along with the letter no. NAYARA ENERGY LTD. (CPP)/ENV/EC Compliance/2013 / 386 dated 27.06.2013.</p>																																								
<p>VI.</p>	<p>Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time, fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary.</p>	<p>Sulphur and ash contents in the coal is not exceeding 0.5% & 34% respectively at any given time.</p> <p>In below table ash content & sulphur content of coal shipment listed.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Coal Shipment</th> <th>Ash Content (%)</th> <th>Sulphur Content (%)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MV Andama</td> <td>3.49</td> <td>0.08</td> </tr> <tr> <td>2</td> <td>MV Tradership</td> <td>4.70</td> <td>0.10</td> </tr> <tr> <td>3</td> <td>MV Shibhumi</td> <td>4.50</td> <td>0.08</td> </tr> <tr> <td>4</td> <td>MV Densa Shark</td> <td>5.14</td> <td>0.08</td> </tr> <tr> <td>5</td> <td>MV Partagas</td> <td>5.15</td> <td>0.07</td> </tr> <tr> <td>6</td> <td>MV Pampano</td> <td>3.30</td> <td>0.07</td> </tr> <tr> <td>7</td> <td>MV Robusto</td> <td>4.08</td> <td>0.13</td> </tr> <tr> <td>8</td> <td>MV Cohiba I</td> <td>4.85</td> <td>0.14</td> </tr> <tr> <td></td> <td>Average</td> <td>4.41</td> <td>0.09</td> </tr> </tbody> </table>	Sr. No.	Coal Shipment	Ash Content (%)	Sulphur Content (%)	1	MV Andama	3.49	0.08	2	MV Tradership	4.70	0.10	3	MV Shibhumi	4.50	0.08	4	MV Densa Shark	5.14	0.08	5	MV Partagas	5.15	0.07	6	MV Pampano	3.30	0.07	7	MV Robusto	4.08	0.13	8	MV Cohiba I	4.85	0.14		Average	4.41	0.09
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<p>VII.</p>	<p>A stack of 220 m height shall be provided with continuous online monitoring equipment for SO_x, NO_x and Particulate Matter (PM_{2.5} & PM₁₀). Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall also be monitored on periodic basis.</p>	<p>A stack of 220 m height is provided with continuous online monitoring equipment.</p> <p>The results of monitoring reports for the parameters mentioned are provided below in tabular format with comparison to permissible limits prescribed in CC&A issued by GPCB.</p> <table border="1"> <thead> <tr> <th><u>Boiler 4</u></th> <th>Particulate Matter (PM)</th> <th>Sulphur Dioxide (SO₂)</th> <th>Oxides of Nitrogen (NO_x)</th> <th>Mercury (Mg)</th> </tr> </thead> <tbody> <tr> <td>Apr'24</td> <td>18</td> <td>110</td> <td>78</td> <td>BDL</td> </tr> <tr> <td>May'24</td> <td>20</td> <td>106</td> <td>89</td> <td>BDL</td> </tr> <tr> <td>Jun'24</td> <td>25</td> <td>118</td> <td>64</td> <td>BDL</td> </tr> <tr> <td>Jul'24</td> <td>12</td> <td>115</td> <td>84</td> <td>BDL</td> </tr> <tr> <td>Aug'24</td> <td>10</td> <td>103</td> <td>75</td> <td>BDL</td> </tr> <tr> <td>Sep'24</td> <td>11</td> <td>109</td> <td>67</td> <td>BDL</td> </tr> <tr> <td>CC&A Limit</td> <td>50 mg/Nm³</td> <td>600 mg/Nm³</td> <td>300 mg/Nm³</td> <td>0.03 mg/Nm³</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th><u>Boiler 5</u></th> <th>Particulate Matter (PM)</th> <th>Sulphur Dioxide (SO₂)</th> <th>Oxides of Nitrogen (NO_x)</th> <th>Mercury (Mg)</th> </tr> </thead> <tbody> <tr> <td>Apr'24</td> <td>22</td> <td>43</td> <td>71</td> <td>BDL</td> </tr> <tr> <td>May'24</td> <td>23</td> <td>53</td> <td>52</td> <td>BDL</td> </tr> <tr> <td>Jun'24</td> <td>21</td> <td>55</td> <td>71</td> <td>BDL</td> </tr> <tr> <td>Jul'24</td> <td>20</td> <td>53</td> <td>95</td> <td>BDL</td> </tr> <tr> <td>Aug'24</td> <td>18</td> <td>38</td> <td>102</td> <td>BDL</td> </tr> <tr> <td>Sep'24</td> <td>22</td> <td>34</td> <td>75</td> <td>BDL</td> </tr> <tr> <td>CC&A Limit</td> <td>50 mg/Nm³</td> <td>600 mg/Nm³</td> <td>300 mg/Nm³</td> <td>0.03 mg/Nm³</td> </tr> </tbody> </table> <p>All results are within prescribed limits.</p>	<u>Boiler 4</u>	Particulate Matter (PM)	Sulphur Dioxide (SO ₂)	Oxides of Nitrogen (NO _x)	Mercury (Mg)	Apr'24	18	110	78	BDL	May'24	20	106	89	BDL	Jun'24	25	118	64	BDL	Jul'24	12	115	84	BDL	Aug'24	10	103	75	BDL	Sep'24	11	109	67	BDL	CC&A Limit	50 mg/Nm³	600 mg/Nm³	300 mg/Nm³	0.03 mg/Nm³	<u>Boiler 5</u>	Particulate Matter (PM)	Sulphur Dioxide (SO ₂)	Oxides of Nitrogen (NO _x)	Mercury (Mg)	Apr'24	22	43	71	BDL	May'24	23	53	52	BDL	Jun'24	21	55	71	BDL	Jul'24	20	53	95	BDL	Aug'24	18	38	102	BDL	Sep'24	22	34	75	BDL	CC&A Limit	50 mg/Nm³	600 mg/Nm³	300 mg/Nm³	0.03 mg/Nm³
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<p>VIII.</p>	<p>No ground water shall be extracted for use in operation of the power plant even in lean season.</p>	<p>Complied with.</p> <p>No ground water is extracted for use in operation of the power plant.</p>																																																																																

<p>IX.</p>	<p>Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.</p>	<p>No water bodies have been disturbed due to activities associated with the setting up / operation of the power plant as there is no extraction of ground water as well as no discharge of any water on ground which may impact drainage system in the area.</p> <p>NAYARA ENERGY LTD. (CPP) hired M/s Ground Water & Mineral Investigation Consultancy Centre (P) Ltd., Jaipur for Hydrogeology study. The cover page of the report is as below.</p>  <p>The cover page features a blue and white design with water wave graphics. At the top center is the NAYARA ENERGY logo. Below it, the text reads: NAYARA ENERGY LIMITED, <i>FINAL REPORT ON</i>, HYDROGEOLOGICAL & HYDROCHEMICAL ASSESSMENT FOR GROUND WATER STATUS IN THE BUFFER AND CORE ZONES OF NAYARA ENERGY LIMITED, VADINAR, DISTRICT DEVBHUMI DWARKA, GUJARAT. The report is attributed to GROUND WATER & MINERAL INVESTIGATION CONSULTANCY CENTRE PVT. LTD., which is noted as a QCI-NABET ACCREDITED & ISO: 10500 CERTIFIED COMPANY. Contact information includes the address JAL NIKETAN, 5-JHA-2, JAWAHAR NAGAR, JAIPUR, phone numbers 2650724/2650548, fax 91-0141-2650548/2623015, website www.groundwaterindia.com, and email groundwater.jaipur@gmail.com. The date MAY-2023 is printed at the bottom.</p>
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<p>X.</p>	<p>COC of 1.5 shall be adopted.</p>	<p>Monthly average, COC is tabulated as below. COC is on higher side due to use of Sweet water make up to cooling tower.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Average COC</th> </tr> </thead> <tbody> <tr> <td>Apr'24</td> <td>5.65</td> </tr> <tr> <td>May'24</td> <td>4.31</td> </tr> <tr> <td>Jun'24</td> <td>4.85</td> </tr> <tr> <td>Jul'24</td> <td>5.59</td> </tr> <tr> <td>Aug'24</td> <td>5.25</td> </tr> <tr> <td>Sep'24</td> <td>4.4</td> </tr> <tr> <td>Average</td> <td>5.00</td> </tr> </tbody> </table>	Month	Average COC	Apr'24	5.65	May'24	4.31	Jun'24	4.85	Jul'24	5.59	Aug'24	5.25	Sep'24	4.4	Average	5.00
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<p>XI.</p>	<p>Guard pond shall be developed and cooling water drawdown shall be disposed at ambient temperature after adequate retention at the guard pond.</p>	<p>Due to sweet water intake in cooling tower, blowdown is recycled and not discharged into the sea, hence it is not applicable.</p>																
<p>XII.</p>	<p>Local employable youth shall be trained in skills relevant to the project for eventual employment in the project itself. The action taken report and details thereof to this effect shall be submitted to the Regional Office of the Ministry and the State Govt. Dept. concerned from time to time.</p>	<p>Nayara Energy Limited ensures 85% local employment as per the Employment Policy (Government of Gujarat) dated 31.12.1995.</p>																
<p>XIII.</p>	<p>Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.</p>	<p>Additional soil required has been taken from the area within the sites in such a way that natural drainage system of the area is protected.</p>																

<p>XIV.</p>	<p>Provision for installation of FGD shall be provided for future use.</p>	<p>Provision for installation of FGD has been provided for future use. The copy of the plot plan drawing mentioning location of proposed FGD has been submitted earlier along with EC compliance report vide our letter reference No.: NAYARA ENERGY LTD. (CPP)/ENV/EC Compliance/32631/667, dated 25th April, 2017.</p>
<p>XV.</p>	<p>High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that Particulate Emission from the proposed plant and cement grinding unit (as applicable) does not exceed 50 mg/Nm³.</p>	<p>High efficiency ESPs have been installed to ensure that the particulate matter emission from the plant does not exceed 50 mg/Nm³.</p>
<p>XVI.</p>	<p>Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.</p>	<p>Dust suppression system has been installed inside closed shed.</p> <p>Dust extraction system with Bag filter units are mounted on the top of ash silos and coal bunkers to filter exhaust air before leaving it to the atmosphere.</p> <p>Dust suppression & extraction system schematic diagrams with drawings have been submitted with the EC compliance report vide letter reference no.: NAYARA ENERGY LTD. (CPP)/ENV/EC Compliance/32631/667, dated 25th April, 2017.</p>

<p>XVII.</p>	<p>Utilization of 100% Fly Ash generated shall be made from 4th year of operation of the plant. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.</p>	<p>NAYARA ENERGY LTD. (CPP) is utilizing low ash coal & daily average generation of fly ash is 202 MT for FY 2024-25. There are 2 silos having total capacity of 1400 MT to store the fly ash, the capacity is adequate to store fly ash for 6 to 7 days. From silos the fly ash is directly loaded in the fly ash bulkers of cement manufacturers on daily basis.</p> <p>We have submitted a compliance letter vide letter no. Nayara CPP/ENV/Fly Ash/2024/32631/1268, dated 12th April 2024 to GPCB & MoEF&CC regarding disposal of fly ash. Please find enclosed ash disposal reports as <u>Annexure – 2.</u></p>
<p>XVIII.</p>	<p>Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.</p>	<p>NAYARA ENERGY LTD. (CPP) is utilizing low ash coal & daily average generation of fly ash is 202 MT for FY 2024-25. There are 2 silos having total capacity of 1400 MT to store the fly ash, the capacity is adequate to store fly ash for 6 to 7 days. From silos the fly ash is directly loaded in the fly ash bulkers of cement manufacturers on daily basis.</p> <p>Ash pond has been built to meet emergency requirement & no effluent is emanating from ash pond.</p> <p>Ground water quality monitoring in surrounding village is carried out six monthly and the copy of monitoring report is attached herewith as <u>Annexure – 3.</u></p> <p>No ash is being disposed off in low lying area.</p>
<p>XIX.</p>	<p>Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.</p>	<p>Ash pond has been lined with HDPE. Further Brick lining has also been provided as additional safety measures.</p>

XX.	Old abandoned ash dyke (if any) shall be appropriately capped and rehabilitated so that no possible emission of fly ash takes place.	No old abandoned ash dyke is available on the site.
XXI.	Grazing land of adequate area (and not less than the same area earlier acquired while land for the refinery was acquired) shall be developed and action plan shall be submitted to the Ministry within six months.	The Captive Power Plant site is located within the existing M/s Nayara Energy Limited (Formerly known as Essar Oil Ltd.) Land is already purchased by M/s Nayara Energy Ltd.
XXII.	Green Belt consisting of three tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not less than 2500 per ha with survival rate not less than 75 %.	M/s NAYARA ENERGY LTD. (Captive Power Plant) is located within the refinery of M/s Nayara Energy Limited (Formerly known as Essar Oil Ltd.) premises. 410 Ha greenbelt area is developed within premises.
XXIII.	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Nayara Energy Ltd. is committed to maintain the highest standards of CSR in its business activities and aims to make a difference to the communities around. Free potable water is being supplied in the nearby villages. Details of funding for potable drinking water supply to nearby villages is attached herewith as <u>Annexure – 4.</u>

<p>XXIV.</p>	<p>An amount of Rs 16.0 Crores shall be earmarked as one time capital cost for CSR program. Subsequently a recurring expenditure of Rs 3.20 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one month along with road map for implementation.</p>	<p>M/s NAYARA ENERGY LTD. (CPP) is committed to maintain the highest standards of CSR in its business activities and aims to make a difference to the communities around.</p> <p>Amount of Total Rs. 1.32 Crores has been spent on CSR activities carried out during April 2024 to September 2024, sub-head wise break up is attached herewith as <u>Annexure – 4</u>.</p>
<p>XXV.</p>	<p>While identifying CSR program the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program. Company shall provide separate budget for community development activities and income generating programs. This will be in addition to vocational training for individuals imparted to take up self-employment and jobs.</p>	<p>Company involves in social activity right from its inception in the field of education, health and livelihood also is very much concern about the local need for quality of life. All these activities lead to a cause for betterment of the life. Company has prepared long term vision and intervention plan for 12 nos. selected villages near the company area. Based on long term association with the community foundation felt that health, education, livelihood and environment are the key area of intervention.</p>

<p>XXVI.</p>	<p>It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.</p>	<p>The annual social audit in terms of impact assessment of schemes/ projects identified is listed below.</p> <ol style="list-style-type: none"> 1. Impact assessment of Community Health Project was done by Chetna – 2013. 2. Impact assessment of Shishumangalam Project was done by Chetna – 2013. 3. Community assessment and feedback report for BIAF-ESSAR Gram Vikas by BIAF & AROHANA Eco social Developments Pvt Ltd. – 2015. 4. Think Through Consultancy (TTC) has evaluate the CSR program – for FY 2015-16. 5. Klynveld Peat Marwick Goerdeler (KPMG) has evaluate the CSR programs – for FY 2016-17. 6. Think Through Consultancy (TTC) has evaluate the CSR program –for FY 2017-18. 7. Deloitte has conducted an assessment of CSR program in 2018-19. 8. Think Through Consultancy (TTC) has evaluate the CSR program – for 2019. 9. Skill, need & Gap analysis by Centre for Environment Education – for 2019-20. 10. Impact Assessment Report of CSR programs by KPMG Assurance and Consulting Services LLP – for March 2023. 11. Developing model village plan and developing a 5 year strategic road map for carrying out CSR activities for villages neighbouring to our plant in the State of Gujarat - Devbhumi Dwarka and Jamnagar. Baseline Study/ Need Assessment by Renalysis Consultants Pvt. Ltd. Wardha - Maharashtra, Pali, Rajasthan – for 2023-24.
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Sr. No.	General Conditions:	Action Taken Report
I.	<p>The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed.</p>	<p>Boiler blow-down is being utilized for cooling tower make up. Sweet water is used for Cooling water application. Cooling Tower Blow Down is recycled within the refinery.</p>
II.	<p>A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation.</p>	<p>Sewage Treatment plant is provided, and all treated sewage is being used in green belt.</p>
III.	<p>A well designed rainwater harvesting shall be constructed. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of issue of clearance and details shall be furnished to the Regional Office of the Ministry.</p>	<p>As M/s NAYARA ENERGY LTD. (CPP) is located adjacent to refinery of M/s. Nayara Energy Limited (Formerly known as Essar Oil Ltd.) within same premises. Provision has been made for common rainwater harvesting system as per catchment area identified. As recharge wells & rainwater harvesting pond belong to M/s Nayara Energy Limited, considering this we have not submitted details to regional office.</p> <p>As per our existing practice, rainwater from NAYARA ENERGY LTD. (CPP) is routed through storm water channels to Rainwater Harvesting Pond situated in M/s Nayara Energy Limited for storage & recharging of ground water.</p>

<p>IV.</p>	<p>Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.</p>	<p>Adequate safety measures like Water Sprinklers, Fire Hydrant Network, Fire Extinguishers, Emergency Siren System, Lightning Arrestors, DSS - Dust Suppression System, Fire Booster pumps, F & G detector etc. have been provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season.</p>
<p>V.</p>	<p>Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.</p>	<p>Storage facilities for auxiliary liquid Fuel such as LDO, FO, and LSHS have been made. These storage tanks have been licensed by Petroleum & Explosives Safety Organization (PESO), Vadodara sub circle office.</p> <p>The sulphur content in the liquid fuel is less than 0.5%. Liquid fuel usage is very minimal during start-up of boiler only.</p> <p>Site specific Emergency Response Disaster Management Plan (ERDMP) is prepared, approved and implemented.</p>

<p>VI.</p>	<p>Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.</p>	<p>NAYARA ENERGY LTD. (CPP) is utilizing low ash coal & daily average generation of fly ash is 202 MT for FY 2024-25. There are 2 silos having total capacity of 1400 MT to store the fly ash, the capacity is adequate to store fly ash for 6 to 7 days. From silos the fly ash is directly loaded in the fly ash bulkers of cement manufacturers on daily basis.</p> <p>Ash pond has been also built to meet emergency requirement & no effluent is emanating from ash pond.</p> <p>There is no use of Ground water.</p> <p>Ground water quality monitoring in surrounding village is carried out six monthly and the copy of monitoring report is attached herewith as <u>Annexure – 3.</u></p>
<p>VII.</p>	<p>Monitoring surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.</p>	<p>No surface water sources available within the project site.</p> <p>Ground water extraction is not carried out.</p>
<p>VIII.</p>	<p>First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.</p>	<p>During project phase, First Aid and sanitation arrangements were provided to the drivers & contract workers.</p>

IX. Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Ambient Noise Monitoring is being carried out monthly in the surrounding of plant area, report of the same is in below table.					
			Noise Level, dB(A) during Day Time 06:00 am to 10:00 pm Min Max		Noise Level, dB(A) during Night Time 10:00 pm to 06:00 am Min Max	
	Port A Camp		46.6	49.0	44.8	47.6
	Labour Gate		49.0	50.0	47.0	49.0
	West side of Main Flare		48.0	50.0	45.8	49.4
	Nr. Batching Plant		48.4	50.6	47.0	48.8
	Ambient Station at 93 Gate		47.0	49.0	45.2	48.0
	Storm water drain outlet		49.0	52.0	47.6	50.2
	Ambient Station at Refinery Main Gate		48.0	50.4	46.6	47.8
	Petrol Pump (Near Delhi Darbar)		50.0	52.2	48.4	49.8
	Ambient Station at Pet Coke Rail Loading Yard		44.6	49.2	42.4	48.4
	Ambient Air Quality standards in terms of Noise for industrial area		75 dB(A)		70 dB(A)	
Engineering Control: 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.						

		<p>Periodic Medical Check-up for employees is carried out in house with audiometry test who are exposed to high noise and records are maintained.</p> <p>PPE's are provided to ensure for eardrum protection of the employees, workers as well as visitors.</p> <p>For contractual staff also medical check-up includes audiometry test and periodic test compliance and records are ensured (as medical checks are mandatory and linked with gate pass generation and renewal)</p>
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IX. Regular monitoring of ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Ambient air quality monitoring is carried out by MoEF & NABL approved third party laboratory at 06 nos. of different locations inside company premises weekly twice basis and summary of the ambient air monitoring data is given in below table.								
	Location	Para-meters	PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO mg/m ³	C ₆ H ₆ µg/m ³	C ₂₀ H ₁₂ ng/m ³
	Labour Gate	Min	51	12	10	16	BDL	BDL	BDL
		Max	88	28	19	24	BDL	BDL	BDL
		Avg.	68	20	15	19	BDL	BDL	BDL
	Refinery Main Gate	Min	50	12	11	14	BDL	BDL	BDL
		Max	88	32	22	26	BDL	BDL	BDL
		Avg.	68	20	16	19	BDL	BDL	BDL
	93 Gate	Min	50	14	10	15	BDL	BDL	BDL
		Max	86	32	22	26	BDL	BDL	BDL
		Avg.	68	21	16	20	BDL	BDL	BDL
	West Side of Main Flare	Min	50	14	10	14	BDL	BDL	BDL
		Max	88	32	20	25	BDL	BDL	BDL
		Avg.	67	21	15	19	BDL	BDL	BDL
	COT	Min	51	12	10	13	BDL	BDL	BDL
		Max	84	33	19	24	BDL	BDL	BDL
		Avg.	67	20	15	18	BDL	BDL	BDL
	Coal Stock Yard	Min	51	12	12	13	BDL	BDL	BDL
		Max	88	34	20	23	BDL	BDL	BDL
		Avg.	69	22	15	18	BDL	BDL	BDL
Environmental monitoring reports are submitted to GPCB on monthly basis.									

<p>X.</p>	<p>Provision shall be made for the housing of construction labour (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>The project construction activities have been completed.</p> <p>During project phase, workers were accommodated in well-planned Labour Colony with all the basic amenities were developed at site.</p>
<p>XI.</p>	<p>The project proponent shall advertise in at least two newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forest at http://envfor.nic.in</p>	<p>Advertisement published in three local newspapers widely circulated in the region around the project on 27.09.2011 informing that the project has been accorded environment clearance.</p>

<p>XII.</p>	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal corporation, urban local body and the local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Environment Clearance copy was submitted to Gram Panchayat, local NGO & Gujarat Pollution control Board, Jamnagar and also put on our website.</p>
<p>XIII.</p>	<p>An environmental cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the cell directly report to the head of the organization.</p>	<p>Environment Cell has been formed since inception of the plant and headed by qualified person.</p>

<p>XV.</p>	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>EC compliance report for the period Apr'24 to Sep'24 period has been submitted to MoEF & CC office vide letter no: Nayara CPP/ENV/32631/EC Compliance 483 MW/2024/1276 dated. 21.05.2024</p> <p>EC compliance report along with monitoring data is uploaded on company website and updated on half yearly basis.</p> <p>Continuous stack emission and Continuous ambient air quality data is being displayed at main gate.</p>
<p>XVI.</p>	<p>The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 the Ministry by e-mail.</p>	<p>Environment Statement Form-V for each financial year is being submitted to Gujarat Pollution Control Board and same has been uploaded on company website.</p> <p>Form V of FY2023-24 has been sent along with letter no. NAYARA CPP/ENV/32631/Env Statement/2024/1307 dated 20.09.2024.</p> <p>The Environment Statement has been submitted to ministry via e-mail.</p>

<p>XVII.</p>	<p>The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board.</p> <p>The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.</p>	<p>EC compliance report along with monitoring data is uploaded on company website and updated on half yearly basis.</p> <p>Copy of the reports had been submitted to Central pollution control board and state pollution control board.</p> <p>EC compliance report for the period Apr'24 to Sep'24 period has been submitted to MoEF & CC office vide letter no: Nayara CPP/ENV/32631/EC Compliance 483 MW/2024/1276 dated. 21.05.2024</p> <p>Likewise, every 6 monthly EC compliance report submitted to Authority since EC granted by MoEF &CC.</p>
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<p>XVIII.</p>	<p>Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels including NOx (from stack & ambient air) shall be displayed at the main gate of the power plant.</p>	<p>Noted.</p> <p>Updated status of compliance of implementation of EC Conditions including results of monitored data is being displayed on our company website.</p> <p>EC compliance report for the period Apr'24 to Sep'24 period has been submitted to MoEF & CC office vide letter no: Nayara CPP/ENV/32631/EC Compliance 483 MW/2024/1276 dated. 21.05.2024. Likewise, every 6-month EC compliance report submitted to Authority since EC granted by MoEF &CC.</p> <p>Continuous Ambient air quality data and real time Stack emission data is being displayed at Main Gate.</p>
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XIX.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Cost is earmarked for Environment Mitigation Measures at Project stage itself. Details of the funds earmarked for the environment protection measures are listed in below table.			
		Sr. No	Name of Equipment	Approximate Installation Cost Rs. (In Crore)	Approximate Operation Maintenance Cost in Rs. (In Crore)
		1	Electrostatic Precipitator	120	0.47
		2	Low NOx Burner	52.8	0.05
		3	Dust Extraction System	1.8	-
		4	Dry Fog Dust Suppression System	2	-
		5	Ash Handling System	8	0.22
		6	Stack	60	-
		7	Pollution Monitoring & Surveillance System	1	0.01
		8	Regenerative Air Pre-Heater	2	0.003
		9	Others like bag filters, conveyor belt	2.5	-
		10	Ash pond	0.6	-
Total		250			
XX.	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.	Date of financial closure and commissioning of plant was 31 st December 2012, has been submitted along with letter no. NAYARA ENERGY LTD. (CPP)/ENV/EC compliance/ 2013/408, dated 31.10.2013.			
XXI.	Full cooperation shall be extended to the scientists/ officers from the ministry/ Regional Office of the ministry at Bhopal / CPCB/ GPCB, who would be monitoring the compliance of environmental status.	Full cooperation is provided to the scientists/ officers from the ministry/ Regional Office of the ministry at Bhopal / CPCB/ GPCB, who would be monitoring the compliance of environmental status.			

5.	The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. The Ministry may also impose additional environmental conditions or modify the existing ones, if necessary.	Noted.
6.	The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.	Noted.
7.	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.	Noted.
8.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted.

	<p>9. The above stipulations would be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008 and its amendments.</p>	<p>Regular updates related to Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and its amendments are being referred continuously and implemented the same in plant wherever applicable.</p>
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Sr. No.	Additional Conditions	
i	Revised emission standards as per the Ministry's notification dated 07.12.2015 and subsequent amendments notified from time to time shall be complied. In case, plant is ready for commissioning and not meeting revised emission norms, operation shall be stopped unless there is an extension given through a specific direction by MOEFCC/ CPCB or amendment in notification is issued.	Revised emission standards as per the Ministry's notification dated 07.12.2015 and subsequent amendments notified from time to time have been incorporated in our CC&A conditions by GPCB and the compliance status of the same is provided against specific condition no. VII.
ii	In case STP are located within 50 km from the project site then the treated water shall be used in the plant.	Noted.
lii	Local indigenous species shall be planted as a part of greenbelt development plan in consultation with local social forestry department.	M/s NAYARA ENERGY LTD. (CPP) is located within the M/s Nayara Energy Limited (Formerly known as Essar Oil Ltd.) premises. The green belt of the NAYARA ENERGY LTD. (CPP) is covered under the M/s Nayara Energy Limited green belt & M/s Nayara Energy Limited has developed green belt in 410 Ha area.

ક્રમાંક :- ક/જમન/૨૪/ટે-૭/

/ સને ૨૦૧૬-૧૭

મુખ્ય વન સંરક્ષકશ્રીની કચેરી,
મરીન નેશનલ પાર્ક,
વન સંકુલ,
નાગનાથ ગેઈટ પાસે,
જામનગર-૩૬૧ ૦૦૧
તા. ૧૦૨/૨૦૧૭

પ્રતિ,
એસસાર વાડીનાર પાવર કંપની લી.,
પો.બો. નં. ૨૪,
ખંભાળીયા, જી. જામનગર

૨૨

વિષય :- Regarding Application or VPCL for clearance from
National Board or Wildlife

સંદર્ભ :- આપનાં પત્રાંક :- VPCL/Env/Application to NWLB/32631/650/
Dt 27/1/2017

મહાશય,

જય ભારત સાથે ઉપરોક્ત વિષયે જણાવવાનું કે, મરીન નેશનલ પાર્ક, જામનગર હેઠળના આપના ધ્વારા અત્રેને એસસાર પાવર કંપની લી. ૪૮૩ મેગાવોટ કો-જનરેશન મલ્ટી ફ્યુલ પાવર પ્લાન સ્થપવા માટેની દરખાસ્ત કરેલ

વધુમાં જણાવવાનું કે, અત્રેના કાર્યક્ષેત્ર હેઠળનાં જંગલ / મરીન નેશનલ પાર્ક અને મરીન અભ્યારણ્ય વિસ્તારમાંથી આવતો નથી. તેમજ દરીયાકાંઠા થી જમીન સાઈટ ઉપર ઈકો સેન્સેટીવ ઝોન અગાઉ જાહેર ના થયેલ હોય જેથી ૧૦કી.મી. લાગુ પડતો હતો પરંતુ આપનો પ્રોજેક્ટ સાઈટ મરીન નેશનલ પાર્ક અને મરીન અભ્યારણ્ય વિસ્તારથી ૮કી.મી. દુર આવતો હોવાથી સરકારશ્રીના પ્રવર્તમાન કાયદા મુજબની જોગવાઈ મુજબ વાઈલ્ડ લાઈફ કલીયરન્સ અંગેની જરૂરી દરખાસ્ત આ કચેરીને મોકલવામાં આવેલ હતી.

પરંતુ મરીન નેશનલ પાર્ક / સેન્કચ્યુરી વિસ્તારને જમીન તરફની એક કિ.મી. ની ત્રિજયામાં ઈકો સેન્સેટીવ ઝોન સરકારશ્રી તરફથી તારીખ:-૨૨/૦૮/૨૦૧૭ થી જાહેર કરવામાં આવેલ છે. જેથી આપનો પ્રોજેક્ટ મરીન નેશનલ પાર્ક અને મરીન અભ્યારણ્ય વિસ્તારથી ૮કી.મી. દુર આવેલ હોય જેથી ઈકો સેન્સેટીવ ઝોનમાં સમાવેશ થતો નથી. જે જાણ થવા વિનંતી.

આપનો વિશ્વાસ,



મુખ્ય વન સંરક્ષક
મરીન નેશનલ પાર્ક
જામનગર

નકલ સાદર રવાના:- અગ્ર મુખ્ય વન સંરક્ષકશ્રી વન્યપ્રાણી ગુ.રા.ગાંધીનગર તરફ જાણ સારું

Translation of letter received from Chief Conservator of Forest Office, Jamnagar

No.: K/JMN/24/Te-7/689-90/Year 2016-17

Office of Chief Conservator of Forest
Marin National Park,
Forest Department,
Near Nagnath Gate,
Jamnagar – 361 001
Date:- 22/02/2017

To,
Manager,
Essar Vadinar Power Company Ltd.
Po. Box No. 24
Khambhaliya,
Dist:- Jamnagar

Subject: - Regarding application of VPCL for clearance from National Board of Wildlife

Reference:- Your letter – VPCL/ENV/Application to NWLB/32631/650 dated 27.01.2017

Sir,

With reference to above subject matter, we would like to inform you that, you had made an application for Installation of Power Plant with capacity of 483 Megawatt, Co-generation Multi fuel as Essar Power Company Limited under Marine National Park, Jamnagar.

Furthermore, we would like to inform you that above project area does not cover under the Forest / Marine National Park and Marine National Sanctuary Area. Eco sensitive Zone was not declared previously for Coast to Land site, thus 10Km radius was applicable to your project site as it is at distance of 8 km from Marine National Park and Marine National Sanctuary, so as per Government's previous notification of Wildlife Clearance related application was sent by you to this department.

However, Government has declared the area of 1 KM radius landward site from Marine National Park / Sanctuary as Eco Sensitive Zone on date 22.08.2013. We would like to inform you that your project which is 8 km away from Marine National Park and Marine National Sanctuary thus it is not covered under Eco Sensitive Zone.

Yours Faithfully
Chief Conservator of Forest
Marin National Park
Jamnagar.

For your information only: A copy of the above letter has been dispatched to Principal Chief Conservator of Forest, Gandhinagar.

Reference No: Nayara CPP/ENV/Fly Ash/2024/32631/1268
12th April, 2024

To,
The Member Secretary
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10 A,
Gandhinagar-382010

Subject: Annual Compliance Report of Fly Ash Disposal for FY 2023-24

Reference: XGN ID 32631

Dear Sir,

We would like to submit Annual Compliance Report of Fly Ash Disposal for FY 2023-24 as required under sub paragraph (2) (i) of para E of the notification S.O. 5481(E) dated 31st December 2021. The Annual Compliance Report is enclosed as **Annexure – 1**.

Thanking you,

Yours sincerely,

For, **Nayara Energy Ltd. (CPP)**,



Authorised Signatory

Enclosure: **Annexure: I** - Annual Compliance Report of Fly Ash Disposal FY 2023-24

Copy To:

- 1) Regional Officer, GPCB, Sardar Patel Bhavan, Rameshwar Nagar, Jamnagar – 361 008
- 2) 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
- 3) The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi – 110 032


Ash Compliance Report (for the period 1st April-31st March) to be submitted

Sr. no.	Details	Compliance
1	Name of Power Plant	Nayara Energy Ltd. (CPP)
2	Name of the company	Nayara Energy Ltd. (CPP)
3	District	Devbhumi Dwarka
4	State	Gujarat
5	Postal address for communication:	Nayara Energy Ltd. Khambhalia, Post Box No. 24, Dist. Devbhumi Dwarka, Gujarat – 361305, India +91 2833 661444
6	E-mail:	Jay.Pandya@nayaraenergy.com
7	Power Plant installed capacity (MW):	303 MW
8	Plant Load Factor (PLF):-	73.45%
9	No. of units generated (MWh):	10,49,039
10	Total area under power plant (ha): (including area under ash ponds)	M/s NAYARA ENERGY LTD. (CPP) approx. 40 ha is located within the refinery of M/s Nayara Energy Limited premises.
11	Quantity of coal consumption during reporting period (Metric Tons per Annum):	19,47,185.17
12	Average ash content in percentage (per cent):	4.22 %
13	Quantity of current ash generation during reporting period (Metric Tons per Annum): Fly ash (Metric Tons per Annum): Bottom ash (Metric Tons per Annum):	85,626 81,945 3,681
14	Capacity of dry fly ash storage silo(s) (Metric Tons) :	Total 02 nos. of silos & total capacity is 1400 MT
15	Details of utilisation of current ash generated during reporting period (a) Total quantity of current ash utilised (MTPA) during reporting period: (b) Quantity of fly ash utilised (MTPA): (i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels) (ii) Cement manufacturing: (iii) Ready mix concrete: (iv) Ash and Geo-polymer based construction material: (v) Manufacturing of sintered or cold bonded ash aggregate:	(a) 85,928 (b) 81,945 (i) 253 (ii) 70661 (iii) 11031 (iv) 0 (v) 0

	<p>(vi) Construction of roads, road and fly over embankment:</p> <p>(vii) Construction of dams:</p> <p>(viii) Filling up of low lying area:</p> <p>(ix) Filling of mine voids:</p> <p>(x) Use in overburden dumps:</p> <p>(xi) Agriculture:</p> <p>(xii) Construction of shoreline protection structures in coastal districts;</p> <p>(xiii) Export of ash to other countries:</p> <p>(xiv) Others (please specify):</p> <p>(c) Quantity of bottom ash utilised (MTPA):</p> <p>(i) Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</p> <p>(ii) Cement manufacturing:</p> <p>(iii) Ready mix concrete:</p> <p>(iv) Ash and Geo-polymer based construction material:</p> <p>(v) Manufacturing of sintered or cold bonded ash aggregate:</p> <p>(vi) Construction of roads, road and flyover embankment:</p> <p>(vii) Construction of dams:</p> <p>(viii) Filling up of low lying area:</p> <p>(ix) Filling of mine voids:</p> <p>(x) Use in overburden dumps:</p> <p>(xi) Agriculture:</p> <p>(xii) Construction of shoreline protection structures in coastal districts:</p> <p>(xiii) Export of ash to other countries:</p> <p>(xiv) Others (please specify):</p> <p>Total quantity of current ash unutilised (MTPA) during reporting period:</p>	<p>(vi) 0</p> <p>(vii) 0</p> <p>(viii) 0</p> <p>(ix) 0</p> <p>(x) 0</p> <p>(xi) 0</p> <p>(xii) 0</p> <p>(xiii) 0</p> <p>(xiv) 0</p> <p>(C) 3,983</p> <p>(i) 3,983</p> <p>(ii) 0</p> <p>(iii) 0</p> <p>(iv) 0</p> <p>(v) 0</p> <p>(vi) 0</p> <p>(vii) 0</p> <p>(viii) 0</p> <p>(ix) 0</p> <p>(x) 0</p> <p>(xi) 0</p> <p>(xii) 0</p> <p>(xiii) 0</p> <p>(xiv) 0</p> <p>196</p>
16	Percentage utilisation of current ash generated during reporting period (per cent):	There is 100% utilization of ash generated, any ash which is balance will get disposed in FY 2024-25.
17	<p>Details of disposal of ash in ash ponds</p> <p>(a) Total quantity of ash disposed in ash pond(s) (Metric Tons) as on 31st March (excluding reporting period):</p> <p>(b) Quantity of ash disposed in ash pond(s) during reporting period (Metric Tons):</p>	<p>(a) 0</p> <p>(b) 196 MT</p>

	<p>(c) Total quantity of water consumption for slurry discharge into ash ponds during reporting period (m3):</p> <p>(d) Total number of ash ponds:</p> <p>(i) Active:</p> <p>(ii) Exhausted (yet to be reclaimed):</p> <p>(iii) Reclaimed:</p> <p>(e) total area under ash ponds (ha):</p>	<p>(c) 0</p> <p>(d) 1</p> <p>(i) 1</p> <p>(ii) 0</p> <p>(iii) 0</p> <p>(e) 0.63 ha</p>
18	<p>Individual ash pond details</p> <p><i>Ash pond-1,2, etc (please provide below mentioned details separately, if number of ash ponds is more than one)</i></p> <p>(a) Status: Under construction or Active or Exhausted or Reclaimed</p> <p>(b) Date of start of ash disposal in ash pond (DD/MM/YYYY or MMYYYY):</p> <p>(c) Date of stoppage of ash disposal in ash pond after completing its capacity (DD/MM/YYYY or MM/YYYY): (Not applicable for active ash ponds)</p> <p>(d) area (hectares):</p> <p>(e) dyke height (m):</p> <p>(f) volume (m3):</p> <p>(g) quantity of ash disposed as on 31st March (Metric Tons):</p> <p>(h) available volume in percentage (per cent) and quantity of ash can be further disposed (Metric Tons):</p> <p>(i) expected life of ash pond (number of years and months):</p> <p>(j) co-ordinates (Lat and Long): (please specify minimum 4 co-ordinates)</p> <p>(k) type of lining carried in ash pond: HDPE lining or LDPE lining or clay lining or No lining</p>	<p>(a) Active – Only one ash pond at site.</p> <p>(b) 01/04/2017</p> <p>(c) Not Applicable, as 100% ash utilization is practiced.</p> <p>(d) 0.63 ha</p> <p>(e) 5.5 M</p> <p>(f) 24794 M³</p> <p>(g) 0 MT</p> <p>(h) 100%, ~22315 MT assuming ash density 1.016 T/ Cu.m. As 100% ash utilization is practiced</p> <p>(i) Not applicable as 100% ash disposal achieved.</p> <p>(j) Lat 22°19'48.12"N Long 69°44'3.45"E Lat 22°19'49.23"N Long 69°44'5.14"E Lat 22°19'46.41"N Long 69°44'7.08"E Lat 22°19'45.28"N Long 69°44'5.49"E</p> <p>(k) HDPE</p>

	<p>(l) mode of disposal: Dry disposal or wet slurry (in case of wet slurry please specify whether HCSD or MCSD or LCSD)</p> <p>(m) Ratio of ash: water in slurry mix (1:___):</p> <p>(n) Ash water recycling system (AWRS) installed and functioning: Yes or No</p> <p>(o) Quantity of wastewater from ash pond discharged into land or water body (m3):</p> <p>(p) Last date when the dyke stability study was conducted and name of the organisation who conducted the study:</p> <p>(q) Last date when the audit was conducted and name of the organisation who conducted the audit:</p>	<p>(l) Proposed wet disposal using truck whenever required.</p> <p>(m) 1:0.25 (Ash : Water)</p> <p>(n) Not Applicable</p> <p>(o) Not Applicable</p> <p>(p) One ash pond at site, which is active. Dyke stability study will be conducted as per the Notification.</p> <p>(q) Dyke stability study will be conducted in FY 2024-25.</p>
<p>19</p>	<p>Quantity of legacy ash utilised (MTPA):</p> <p>i. Fly ash based products (bricks or blocks or tiles or fibre cement sheets or pipes or boards or panels):</p> <p>ii. Cement manufacturing:</p> <p>iii. Ready mix concrete:</p> <p>iv. Ash and Geo-polymer based construction material:</p> <p>v. Manufacturing of sintered or cold bonded ash aggregate:</p> <p>vi. Construction of roads, road and flyover embankment:</p> <p>vii. Construction of dams:</p> <p>viii. Filling up of low lying area:</p> <p>ix. Filling of mine voids:</p> <p>x. Use in overburden dumps:</p> <p>xi. Agriculture:</p> <p>xii. Construction of shoreline protection structures in coastal districts;</p> <p>xiii. Export of ash to other countries:</p> <p>xiv. Others (please specify):</p>	<p>Nil. No legacy ash available for disposal.</p>

20	Summary			
	Details	Quantity generated (MTP)	Quantity utilised (MTP) and (per cent)	Balance quantity (MTP)
	Current ash during reporting period	85,626	85,928	196 (Closing stock)
	Legacy ash	0	0	0
	Total	85,626	85,928	196 (Closing stock)
21	Any other information: Soft copy of the annual compliance report, and shape files of power plant and ash ponds may be e-mailed to:- moefccoalash@gov.in		--	
22	Signature of Authorised Signatory			

Annexure – 3
Monitoring Results of Ground Water Quality of Surrounding Village



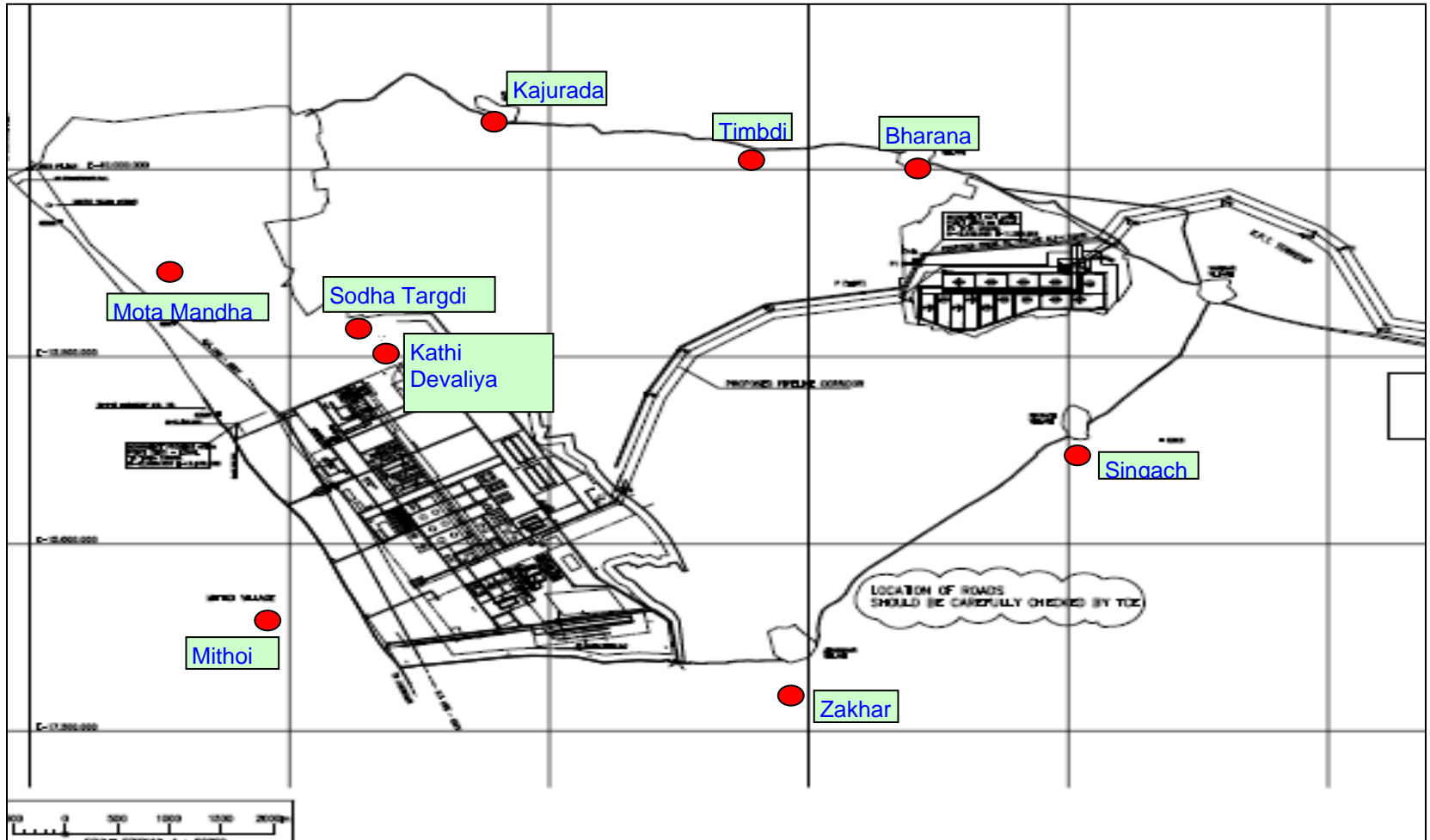
Monitoring Results of Ground Water Quality of Surrounding Villages

Parameters analyzed

Parameters	Unit	Vadinar	Timbdi	Bharana	Mithoi	Kathi Devaliya	Zakhar	Singach	Kajurada	Sodha Taragadi
pH	---	8.02	7.21	7.97	7.91	7.27	7.63	7.65	7.23	7.87
TDS	ppm	660	1450	321	656	3580	995	1380	4810	505
Chloride	ppm	140	423	78	169	1230	306	385	2280	101
Sulphate	ppm	94	154	49	75	232	72	118	280	65
T-Hardness	ppm	288	912	175	404	2050	710	916	2570	350
Ca-Hardness	ppm	173	590	84	234	1160	413	556	1250	189
Mg-Hardness	ppm	115	322	91	170	890	297	360	1320	161
O & G	ppm	<4	<4	<4	<4	<4	<4	<4	<4	<4

*** Well water samples collected and analyzed in May, 2024**

Annexure – 3
Monitoring Results of Ground Water Quality of Surrounding Village



Location of Villages

Annexure - 4



CSR Activities by M/s NAYARA ENERGY LTD. (CPP).

M/s NAYARA ENERGY LTD. (CPP) is committed to maintaining the highest standards of CSR in its business activities and aims to make a difference to the communities around. M/s NAYARA ENERGY LTD. (CPP) 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 Apr'24 to Sep'24 are as under:

Project	Beneficiaries & Remarks	Amount in Cr
Financial support for Fodder to 12 Gaushalas	5542 cattle	0.49
Drinking Water Supply through water tankers to 7 villages	23229 persons	0.75
Rural Development Projects (Small Grants / Infrastructure Development)	-	0.09
Total in Cr		1.32