

Reference: Nayara CPP/32631/ENV/EC Compliance of 780 MW/2026/1417

15th May 2026

To,
The Deputy Director General of Forest (Central)
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Gandhinagar - 382010,

Subject: Environmental Clearance (EC) compliance report of M/s Nayara Energy Limited, Captive Power Plant 780 MW at Khambhalia, District - Devbhumi Dwarka, Gujarat, for period from 1st October 2025 to 31st March 2026.

Reference: 1) Environmental Clearance No.J-110011/320/2006-IA-II (I) dated September 16, 2008.

Dear Sir,

With reference to the Environmental Clearance (EC) dated 16.09.2008, issued by Ministry of Environment, Forests & Climate Change, Government of India, kindly find enclosed Six monthly EC compliance status report for the period 1st October 2025 to 31st March 2026 in compliance of the General Condition No. B (VIII) of the EC letter, along with relevant annexures for your kind perusal and record please.

Thanking you,

Yours truly,

For, Nayara Energy Ltd. (CPP)



Authorized Signatory

Enclosure: EC Compliance Report with Annexures

Copy to:

1. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhinagar-382 010
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi – 110 032
3. Regional Officer, Gujarat Pollution Control Board, Rameshwar Nagar, Jamnagar – 361 008

EC COMPLIANCE REPORT AS ON 31st March 2025

Ref: MOEF clearance No. J-110011/320/2006-IA-II (I) dated September 16, 2008

Compliance Report for 780 MW (Installed 77 MW + 220 MW) for period 1st October 2025 to 31st March 2026

Sr.No.	CONDITIONS	Compliance Status					
		780 MW (Installed 77 MW + 220 MW)					
	Specific Conditions	Compliance Status					
I	The gaseous emissions (SO₂, NO_x,) from various power plant units shall conform to the standards prescribed by the concerned State Pollution Control Board. All the measures detailed in the Environment Management Plan (EMP) and response to the public hearing shall be taken to control the stack emissions from the proposed power plant for ensuring that the ambient air quality around the power plant complex maintained with in prescribed limits under the EPA, 1986.	The gaseous emissions like SO ₂ , NO _x , etc. monitoring is carried out by third party.					
		Boiler 1	Fuel	PM (mg/ Nm3)	SO₂ (mg/ Nm3)	NO_x (mg/ Nm3)	CO (mg/ Nm3)
		Oct'25	FG	3	41	43	5
		Nov'25	FO	9	889	79	6
		CC&A Limit	FG	10	50	350	150
		CC&A Limit	FO	100	1700	450	200
		Boiler 2	Fuel	PM (mg/ Nm3)	SO₂ (mg/ Nm3)	NO_x (mg/ Nm3)	CO (mg/ Nm3)
		Nov'25	FO	4	902	204	6
		Jan'26	FO	6	792	201	10
		Feb'26	FO	13	762	203	17
		Mar'26	FO	12	368	158	13
		CC&A Limit	FO	100	1700	450	200
		Boiler 3	Fuel	PM (mg/ Nm3)	SO₂ (mg/ Nm3)	NO_x (mg/ Nm3)	CO (mg/ Nm3)
		Nov'25	FO	6	796	93	7
		Dec'25	FO	5	853	139	18
		CC&A Limit	FO	100	1700	450	200
		Ambient air quality monitoring is carried out at six locations inside the refinery complex by third party NABL accredited and EPA registered laboratory weekly twice and summary of the ambient air monitoring data- average is provided in Annexure - 1 .					
		Other measures implemented as per the EMP are:					
		- Low NO _x burners to minimize NO _x emissions.					
		- Low sulphur fuel is being used in power plants.					
		- Stack height of 100 m & 65 m is provided for 77 MW & 220 MW Power Plant respectively.					
		- Ambient air quality with respect to PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , and CO, Benzene, Benzo pyrene is regularly monitored, and records are maintained.					

Sr.No.	CONDITIONS	Compliance Status														
		<u>780 MW (Installed 77 MW + 220 MW)</u>														
II	The gas generated from the 60 MMTPA unit refinery process units and natural gas shall be used as fuel for the power project. In case of non-availability of gas, Liquid Fuel (LF), Light Cycle Oil (LCO), Clarified Slurry Oil (CSO) and High-Speed Diesel (HSD) shall also be used.	We are using Fuel gas and low Sulphur Fuel oil from the refinery for 77 MW and Natural Gas and Naphtha for 220 MW.														
III	Adequate stack heights to meet the emission standards shall be provided with continuous online monitoring system installed. The instruments used for ambient air quality monitoring shall be calibrated regularly. The monitoring protocol shall ensure continuous monitoring of all the parameters.	The stack height of 100 m for 77 MW power plant and 65m for 220 MW power plant is provided. Continuous online monitoring system has been installed for parameters PM, SO₂, NO_x, CO. Ambient air quality monitoring equipment are calibrated regularly.														
IV	The total SO ₂ emissions shall not exceed 10.49 tones / day.	Total Monthly SO₂ emissions are as under. <table><tr><th>Month</th><th>SO2 T/Day</th></tr><tr><td>Oct'25</td><td>0.09</td></tr><tr><td>Nov'25</td><td>5.96</td></tr><tr><td>Dec'25</td><td>1.58</td></tr><tr><td>Jan'26</td><td>1.47</td></tr><tr><td>Feb'26</td><td>1.41</td></tr><tr><td>Mar'26</td><td>0.68</td></tr></table>	Month	SO2 T/Day	Oct'25	0.09	Nov'25	5.96	Dec'25	1.58	Jan'26	1.47	Feb'26	1.41	Mar'26	0.68
Month	SO2 T/Day															
Oct'25	0.09															
Nov'25	5.96															
Dec'25	1.58															
Jan'26	1.47															
Feb'26	1.41															
Mar'26	0.68															
V	Low No _x burners shall be provided for control of NO _x emissions.	Low NO _x burners have been provided in all boilers of the plants.														

Sr.No.	CONDITIONS	Compliance Status																
		780 MW (Installed 77 MW + 220 MW)																
VI	Closed Cycle Cooling system with cycles of concentration of at least 1.3 shall be provided. The sea water shall be used for cooling purpose.	Sea water is used for cooling purpose. NAYARA ENERGY LTD. (CPP) is maintaining COC as per the given condition. Monthly average, maximum & minimum COC is tabulated below.																
		<table><tr><th>Month</th><th>Average COC</th></tr><tr><td>Oct'25</td><td>5.3</td></tr><tr><td>Nov'25</td><td>6.0</td></tr><tr><td>Dec'25</td><td>7.7</td></tr><tr><td>Jan'26</td><td>5.5</td></tr><tr><td>Feb'26</td><td>5.5</td></tr><tr><td>Mar'26</td><td>5.0</td></tr><tr><td>Average</td><td>4.71</td></tr></table>	Month	Average COC	Oct'25	5.3	Nov'25	6.0	Dec'25	7.7	Jan'26	5.5	Feb'26	5.5	Mar'26	5.0	Average	4.71
		Month	Average COC															
		Oct'25	5.3															
		Nov'25	6.0															
		Dec'25	7.7															
		Jan'26	5.5															
		Feb'26	5.5															
		Mar'26	5.0															
		Average	4.71															
VII	The effluent generation shall not exceed 140 m³/hr. The effluent after treatment shall be recycled for process or other internal use. The combined cooling tower blow down shall be discharged into the sea through a well-designed diffuser at a location identified by National Institute of Oceanography. The return quantity of sea water is 3900 m3/hr.	Monthly boiler blowdown generation is as below.																
		<table><tr><th>Month</th><th>Boiler blowdown in m³/hr</th></tr><tr><td>Oct'25</td><td>0.22</td></tr><tr><td>Nov'25</td><td>0.25</td></tr><tr><td>Dec'25</td><td>0.32</td></tr><tr><td>Jan'26</td><td>0.23</td></tr><tr><td>Feb'26</td><td>0.23</td></tr><tr><td>Mar'26</td><td>0.21</td></tr><tr><td>Average</td><td>0.23</td></tr></table>	Month	Boiler blowdown in m³/hr	Oct'25	0.22	Nov'25	0.25	Dec'25	0.32	Jan'26	0.23	Feb'26	0.23	Mar'26	0.21	Average	0.23
		Month	Boiler blowdown in m³/hr															
		Oct'25	0.22															
		Nov'25	0.25															
		Dec'25	0.32															
		Jan'26	0.23															
		Feb'26	0.23															
		Mar'26	0.21															
Average	0.23																	
Boiler blow down generated is used for cooling tower make up from the power plant.																		
Cooling Tower blow down is being discharged through the existing sea water return pipeline of M/s Nayara Energy Ltd. (Formerly known as Essar Oil Ltd.) at the location identified by NIO (National Institute of Oceanography).																		
VIII	Adequate safety measures shall be provided to limit the impact within the limits of the plant, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Complied with.																
		All the required safety measures are in place.																

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
IX	Regular mock drills for the On-site emergency management plan shall be carried out as per the Manufacture, storage and Import of Hazardous Chemicals Rules, 1989.	Regular mock drills for the On-site emergency management plan carried out as per the Manufacture, storage and Import of Hazardous Chemical Rules, 1989.
X	Regular monitoring of relevant parameters for the underground water in the surrounding areas will be undertaken and the results will be submitted to the relevant States pollution Control Boards.	Regular monitoring of ground water is being carried out in surrounding village, The copies of ground water monitoring reports carried out in last six months is attached here as <u>Annexure – 2.</u>
XI	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals rules, 1989 as amended in 2000 for handling of hazardous chemicals. Necessary approvals from Chief controller of explosives must be obtained before commissioning of the power project.	Provisions made in Manufacture, Storage and Import of Hazardous Chemicals rules, 1989 as amended in 2000 for handling of hazardous chemicals are strictly complied. PESO approval from Chief controller of explosives has been obtained.

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
XII	No solid waste will be generated. Used oil (40 KLPA) to be generated from the power project shall be disposed off as per CPCB guidelines.	If used oil generated, it will be sent to authorized registered recyclers only.
XIII	The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed power project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Captive Power Plant and Nayara Energy Limited (Formerly known as Essar Oil Ltd.) refinery are located within same premises, where there is common rainwater harvesting system as per catchment area identified. Rainwater collected from CPP area is routed through storm water channels to Rainwater Harvesting Pond situated in refinery for storage & recharge of ground water.
XIV	Green belt shall be raised in 33% of plant area in consultation with the DFO. Selection of plant species shall be as per the CPCB guidelines.	The CPP and Nayara Energy Limited (Formerly known as Essar Oil Ltd.) refinery are in same premises. The green belt of the CPP is covered under the M/s Nayara Energy Limited green belt.
XV	Occupational Health Surveillance of the workers shall be done on regular basis and records be maintained as per the Factories Act.	Annual medical checkup is being carried out and records are maintained as per the provision of the Factories Act, 1948.

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
XVI	All the recommendations made in the EIA / EMP and Risk Assessment Reports in respect of environmental management and risk mitigation measures relating to power plant shall be implemented.	Recommendations made in the EIA / EMP and Risk assessment are implemented to safeguard the environment.
XVII	The company shall undertake all relevant measures, as indicated during the public Hearing for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local village and administration.	Captive Power Plant of 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. Company has taken all relevant measures, as indicated during the public Hearing for improving the Socio-economic conditions of the surrounding area. Details of CSR activities is attached here with as <u>Annexure – 3</u>
	General Conditions	Compliance Status
I	The project authorities must strictly adhere to the stipulations made by the concerned State pollution Control Board (SPCB) and the State Government.	M/s. NAYARA ENERGY LTD. (CPP) is strictly adhering to the stipulations made by the Gujarat State Pollution Control Board (GPCB) and the Gujarat Government.

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
II	No further expansion or modifications in the power plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted.
III	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Noted & Complied with.
IV	Regular monitoring shall be carried out for relevant parameters for both surface and ground water.	To monitor the quality of ground water in surrounding villages, six monthly sampling & analysis is carried out. The copies of ground water monitoring reports carried out recently is attached here as <u>Annexure – 2.</u>

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
V	The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Ambient Noise Monitoring is being carried out monthly in the surrounding of plant area, report of the same is enclosed in <u>Annexure - 4</u> .
VI	Authorization from the State Pollution Control Board must be obtained for collection / treatment /storage /disposal of Hazardous wastes.	Consolidated Consent & Authorization No AWH- 138375 with letter no. GPCB/DWA/CCA-496(5)/ID-32631/829947 dated 18.11.2024 has been obtained from GPCB for storage and disposal of Hazardous waste.
VII	The project authorities will provide RS. 272.00 Crores to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Adequate funds for recurring expenditure shall also be provided. The funds so provided shall not be diverted for any other purposes.	The required amount to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government has been spent. Adequate funds for recurring expenditure has been provided.
VIII	The stipulated conditions will be monitored by the concerned Regional Office of this Ministry / Central pollution Control Board/State Pollution Control Board. A six monthly compliance report	Six monthly EC compliance report and the monitoring data are being submitted to the concerned Regional Office of Ministry of Environment Forest & Climate Change / Central pollution Control Board/ Gujarat Pollution Control Board regularly

Sr.No.	CONDITIONS	Compliance Status
		780 MW (Installed 77 MW + 220 MW)
	and the monitored data shall be submitted to them regularly. It will also be displayed on the website of the Company.	Last EC compliance report for the period Apr'25 to Sep'26 has been submitted to MoEF & CC office vide letter no: Nayara letter vide ref. no. Nayara CPP/32631/ENV/EC Compliance of 780 MW/2026/1394, dated. 20.11.2025.
IX	The date of financial Closure and final approval of the project by the concerned authorities and the date of commencing the land development work as well as the commissioning of the project will be informed to the Ministry and its regional Office.	Date of financial closure and commissioning of plant was communicated with the concern authorities.
X	Proper Housekeeping and adequate occupational health program shall be taken up. Regular Occupational Health Surveillance program for the relevant diseases shall be carried out and the records shall be maintained properly.	Proper Housekeeping and occupational health program has been taken up & carried out regularly. Records of Regular Occupational Health Surveillance program are maintained.
XI	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Environment Cell is in place since inception of the company and headed by qualified person.
6	Ministry may revoke or suspend the clearance, if implementation of the above conditions is not satisfactory.	Noted.

Sr.No.	CONDITIONS	Compliance Status
		<u>780 MW (Installed 77 MW + 220 MW)</u>
7	The Ministry reserves right to stipulate additional environmental conditions if found necessary. The company will implement these conditions in a time bound manner.	Noted.
8	Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	Noted.
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.	Noted.

Annexure – 1

Ambient Air Quality Monitoring

Period: Oct'2025 to Mar'2026

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

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

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

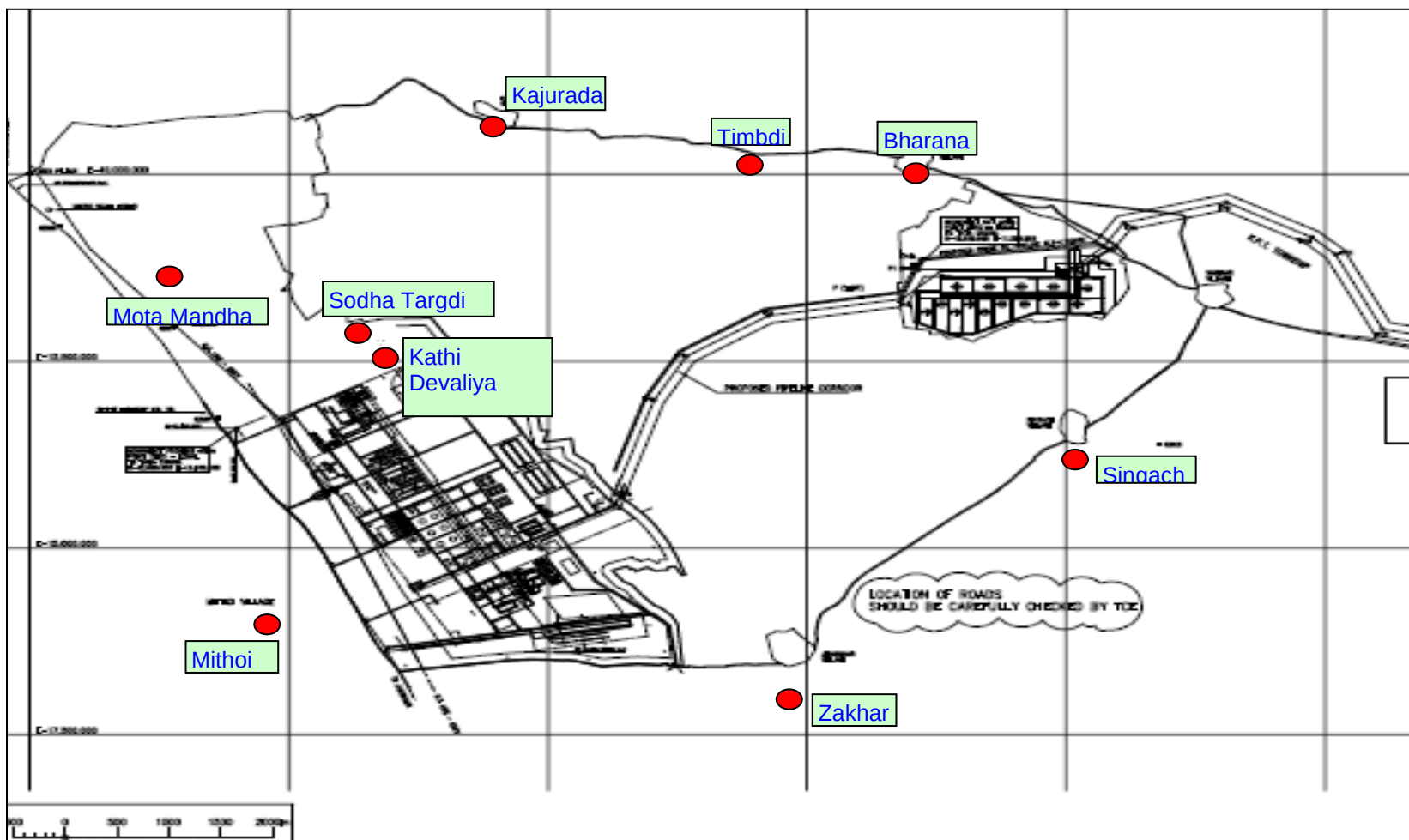


Monitoring Results of Ground Water Quality of Surrounding Villages

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

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

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



Location of Villages

Annexure - 3



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 Oct'25 to Mar'26 are as under:

Project	Beneficiaries & Remarks	Amount in Cr
Financial support for Fodder to 12 Gaushalas	5542 cattle	0.930
Drinking Water Supply through water tankers to 7 villages	23229 persons as per 2011 census	0.617
Community Ambulance Service Ambulance service in 5 villages : Jakhar, Singach, Bharana, Vadinar and Taraghadi	492 persons as per 2011 census	0.166
Payment of GWIL Narmada Drinking Water Bill	For Zakhar, Singach and Mithoi Villages	0.174
Financial Assistance to Student of Singach village in Pursuing B.Sc Nursing	-	0.017
Total in Cr		1.904

Annexure - XI Noise Monitoring Results

Period: Oct'2025 to Mar'26

Frequency of monitoring: Monthly

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