Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/GJ/IND3/292526/2022
Compliance ID	112012788
Compliance Number(For Tracking)	EC/M/COMPLIANCE/112012788/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	22-05-2025
RO/SRO Name	Shrawan Kumar Verma
RO/SRO Email	kr099.ifs@nic.in
State	GUJARAT
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar
Note:- SMS and E-Mail has been sent to Shrawan Kumar Verma, GUJARAT with Notification to Project Proponent.	

adani

Ref: MPL/ENV/MoEF&CC/2025 –May/09 **Date: 22nd May, 2025**

To,

Shri Subrat Mohapatra, IFS (I/C)
Deputy Director General of Forests (C)
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Gandhinagar,
"Karmayogi Bhawan", Block-3, F-2 Wing, 5th Floor, Near CH-3 Circle,
Sector-10A, Gandhinagar – 382010
E-mail : iro.gandhingr-mefcc@gov.in

Subject: Six monthly compliance report (October, 2024 to March, 2025) of Environment Clearance (EC) for the project activities "Caustic Soda–1310 KTPA and Acetylene–860 KTPA plants near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat" by M/s Mundra Petrochem Limited.

Reference: 1). EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021- IA-II(I) dated 31/08/2022.
2). F.No.IA-J-11011/149/2021 – IA – II(I) Dated 28/11/2022.
3). Compliance ID: 99410895, Compliance No.: EC/M/COMPLAINCE/99410895/2024 Submission Date: 20/11/2024 for the reporting period Apr – Sept–2024.

Respected Sir,

With reference to above subject, MoEF&CC vide above refer letter dated 31/08/2022 has granted environment clearance for the project activities "Caustic Soda–1310 KTPA and Acetylene–860 KTPA near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Limited". Followed by, MoEF&CC vide above refer letter dated 28/11/2022 has transferred the Environment Clearance on the name of M/s Mundra Petrochem Limited from M/s Adani Enterprises Limited.

The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. We are hereby submitting a soft copy of the six-monthly EC compliance report for the period October, 2024 to March, 2025.

We hope you will find the above in order.

Thanking you,
Yours faithfully,

Mundra Petrochem Limited

Vinay Kumar Singh
CSO & BU Environment Head

Copy to : 1. Reginal Directorates, CPCB, Vadodara : arvindjha.cpcb@gov.in
2. Member Secretory, GPCB : ms-gpcb@gujarat.gov.in
3. Regional Office, GPCB (Kutch East): ro-gpcb-kute@gujarat.gov.in

Mundra Petrochem Limited
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: U23209GJ2021PLC122112

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
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Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382421

MUNDRA PETROCHEM LIMITED

Six Monthly EC Compliance Report

October, 2024 – March, 2025

ENVIRONMENTAL CLEARANCE

FOR

The project activities "Caustic Soda–1310 KTPA and Acetylene–860 KTPA at Mundra, Kutch Gujarat

EC IDENTIFICATION NO. EC22A013GJ127411 DATED 31/08/2022

Mundra Petrochem Limited
Adani Corporate House, Shantigram, Near Vaishnodevi Circle, S G Highway, Ahmedabad-382421, Gujarat

Mundra Petrochem Limited

Introduction:

Mundra Petrochem Limited, wholly owned stepdown subsidiary of Adani Enterprises Limited (AEL) intends to setup a PVC Project at Mundra, Kachchh, Gujarat. The overall PVC Production capacity of the proposed project is 2000 KTPA (Kilo Tons Per Annum). PVC grades such as Suspension PVC (Resin), Chlorinated PVC (C-PVC), Mass PVC (bulk) and Emulsion PVC (paste) would be produced at the proposed PVC Project.

For the implementation of this project, various units are proposed to be established, including a Semi-Coke Plant, Calcium Carbide Plant, Acetylene Plant, Caustic Soda (Chlor-Alkali process) Plant, VCM Plant, PVC Plant, Ethylene Glycol Plant, and Clinker & Cement Plant.

PVC produced from the facility will serve the domestic market, thereby reducing reliance on imports. The products and by-products from the plant will be marketed domestically or internationally based on prevailing market conditions.

Ministry of Environment Forest and Climate Change has granted Environment Clearance for proposed project "Poly-Vinyl Chloride (PVC) comprising of IND-I projects i.e. Semi Coke– 2030 KTPA, Cement–6 MTPA; Clinker–4 MTPA, IND-II projects i.e. VCM– 2002 KTPA, PVC– 2000 KTPA, Ethylene Glycol– 400 KTPA and IND-III projects i.e. Acetylene–860 KTPA & Caustic Soda–1310 KTPA) and Calcium Carbide–2900 KTPA (Not Specified in EIA Notification)) in land notified as Industrial area of APSEZ, Ta-Mundra, Dist-Kachchh, Gujarat." vide –

Industry – I activity: EC identification no. EC22A009GJ154137 and file no. IA-J-11011/423/2021-IA-II(IND-I) dated 26/09/2022.

Industry – II activity: EC Identification No. - EC22A020GJ133762, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022.

Industry – III activity: EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022.

As part of the company's long-term business strategy, the proposed project activities have been transferred from M/s Adani Enterprises Limited (AEL) to M/s Mundra Petrochem Limited (MPL). MPL, a wholly owned subsidiary of AEL, was incorporated under the provisions of the Company Act, 2013

to undertake various business activities related to Semi-Coke, Calcium Carbide, Cement & Clinker, VCM, PVC, Ethylene Glycol, Chlor-alkali, acetylene plants, and associated products in a phased manner. Further above granted Environment Clearances have been transferred in the name of M/s Mundra Petrochem Limited (MPL) by Ministry of Environment Forest and Climate Change (MOEFCC) vide their letter no.

1. **Industry – I activity: - File no. IA-J-11011/423/2021-IA-II(IND-I) Dated 23/12/2022.**
2. **Industry – II activity: - File no. J-11011/149/2021-IA-II(I) Dated 27/12/2022.**
3. **Industry – III activity: - File no. IA-J-11011/149/2021-IA-II(I) Dated 28/11/2022.**

Further, the Consent to Establish (CTE) is granted by the Gujarat Pollution Control Board (GPCB)

The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. The latest progress status of site construction activities is attached as **Enclosure – A**.

Point wise Compliance of Environmental Clearance for Industrial activity-III- **Proposed Caustic Soda – 1310 KTPA and Acetylene–860 KTPA** vide EC Identification No: EC22A013GJ127411 File No: IA-J-11011/149/2021-IA-II(I) Date: 31/08/2022 & subsequent EC Transfer vide File no. IA-J-11011/149/2021-IA-II(I) Dated 28/11/2022.

S. No	Conditions	Status
A	**Specific Conditions**	
(i)	The Environmental Clearance (EC) is subject to the outcome of the PIL No. 36 of 2022 pending before the Hon'ble High Court of Gujarat.	Noted & agreed with requirement. PIL No. 36 of 2022 was last scheduled for hearing on February 7th, 2023. Currently, the matter remains pending for listing/hearing. A copy of the latest status as per the Hon'ble High Court of Gujarat is attached as **Annexure – I.** In the first hearing held on 26th April 2022, the Hon'ble court waived notice against AEL due to compliance with all the provisions of the EIA Notification and applicable office memorandums of MoEF&CC.
(ii)	The PP shall develop Greenbelt over an area at least 107.14 ha by planting 2,67,600 number of trees in 5 years from the grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft. In addition to this as committed by the PP, Industry shall deploy a uniform greenbelt of equal width all- round the plant boundary, it will reduce the width of the green belt by 15 to 25 meters on seaward side of the project and will increase the width of the greenbelt on landward side of the project maintaining the total 33% of the greenbelt. The budget earmarked for the plantation shall be ₹ 75 crore and shall be kept in separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year	Noted and shall be complied with the requirements. Remark: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. A greenbelt of adequate width will be established in phases, primarily along the plant perimeter, in the direction of prevailing winds, and alongside roads. The selection of plant species will be carried out in consultation with the State Forest Department. It is planned that 33% of the area will be developed and maintained as a greenbelt. Tree plantation activities in nearby community villages, including roadside plantations, are being carried out in consultation with the local forest department. A copy of the implementation report is enclosed as **Annexure – II** with photographs of the plantation activity.

(iii)	A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. As committed PP shall engage CSO, Head Environment, lead Environment at corporate level, EC/CTO wise site environment engineer and Laboratory analytical staff as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	The proposed PVC project is currently in the final design, detailed engineering, and procurement stages. Simultaneously, construction activities are ongoing at the site. A separate Environmental Management Cell, staffed with qualified individuals specializing in Environmental Science and Engineering, has been established. The head of the EMC reports directly to the CEO according to the company's hierarchy. Furthermore, full-fledged environment management cell cum laboratory will also be developed at site for day-to-day environment management including carrying out the environmental monitoring activities as per the operational phase environment management plan. Audited statement for the same will be submitted to Regional office of MoEF&CC before 1st July of every for the activities carried out during previous year once the activities started at the site.
(iv)	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. The budget propose under EMP is ₹ 2874.59 Crore (Capital cost) and ₹ 1494.55 Crore (Recurring cost) shall be kept in separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	Noted and shall be complied with. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Environmental protection measures & safeguards in line with the applicable regulatory requirements and best available technologies are being considered in the detailed project engineering design. Audited statement for the same will be submitted to Regional office of MoEF&CC before 1st July of every year once the operational activities commence at the site.
(v)	The total water requirement (including the existing) will be 2,22,875 KLD that includes desalinated sea water 1,60,053 KLD which will be met from APSEZL Desalination plant and rest will be met form the internal recycling of the water. Project has obtained willingness letter for 220 MLD water supply	Noted and shall be complied with the requirements. Remarks- The water required for construction and operational activities is currently being, and shall continue to be, sourced from the Seawater Desalination

	from APSEZL. The PP should ensure that water utilization should not be above the permissible limit and only after obtaining valid agreement from the Concerned Authority. The PP should submit the details of water abstraction and utilization to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year. In addition to this the PP shall submit the target for reduction of GW utilization to Regional Office of MoEF&CC within a period of one year	Plant.. Further, this project is based on "Zero Liquid (Effluent) Discharge" concept. So, there will be no untreated water discharge outside the premises. Moreover, possibilities are being explored for optimizing and reducing the water consumption in detailed engineering based on technical feasibility. Also, water conservation initiative will further be explored during operational stage to reduce the OPEX for De-saline water. Details of water received from the Desalination plant and utilization will be furnished to the Regional office of MoEF&CC before 1st July of every year for the activities carried out during the previous year once the operational activities commence at site. No ground water abstraction & utilization is proposed in the project.
(vi)	As committed by PP, the tertiary treatment for STP will be operated only when end use of the treated water is required to make-up the water system for toilet flushing and sanitation in the plant	Noted & shall be complied with. Remark: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Modular STPs have been installed for the construction phase and Environment Monitoring report of the same is enclosed as **Annexure - III**. Engineering design of the STPs is in progress for treatment of domestic effluent during operational phase.
(vii)	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	Noted and shall be complied with. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, banned chemicals/raw materials will not be manufactured or used for manufacturing activities.
(viii)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted and shall be complied with the requirements. Remarks: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. The best available technology currently being explored,

		considered, or undergoing detailed engineering is focused on developing carbon sink and carbon sequestration resources for capturing emitted carbon. Additionally, community plantation activities are being conducted in nearby villages with the goal of developing carbon sequestration resources. For more information on these plantation activities, please refer to **Annexure – II**. Furthermore, the implementation report on various carbon abatement initiatives being considered in project design and engineering shall be submitted to the IRO, MoEF&CC following the successful commissioning of the project.
(ix)	The species-specific conservation plan of Schedule-I species shall be implemented within time limit and as per the approval of the Chief Wildlife Warden of the State Government	Noted and being complied with the requirements. Remark: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Further, activities for the wildlife conservation plan have been completed. The review and maintenance of the plan are being conducted in consultation with the Forest Department, Kachchh, Bhuj. Details of activities performed according to the approved site-specific wildlife conservation/management plan are attached as **Annexure – IV**.
(x)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	Noted and shall be complied with the requirements. Remarks - The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, all necessary precautions will be taken to avoid accidents. Further, onsite / offsite emergency plan / mock drill and mitigation measures as prescribed under the concerned rules and guidelines will be planned and implemented.

(xi)	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.	Noted and shall be complied with the requirements. Remarks: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, Adequate measures will be adopted to control the volatile organic compounds (VOCs) / Fugitive emissions and regular monitoring will be done in this regard once the activities commence at site.
(xii)	The project proponent shall explore possibilities for recycling and reusing of treated water in the unit to reduce the freshwater demand and waste disposal.	Noted and shall be complied with the requirements. Remarks: The proposed PVC project is currently in the final design, detailed engineering, and procurement stages. Simultaneously, construction activities are ongoing at the site. The proposed project focuses on the "Zero Liquid Discharge" (ZLD) concept, where treated water will be reused for gardening / plantation, dust suppression, cooling water make-up, and other industrial activities to conserve freshwater resources. Additionally, treated water from the sewage treatment plant (STP) will be utilized for horticulture and greenbelt development. Further, Environment Monitoring report of the same is enclosed as **Annexure - III.**
(xiii)	As already committed by the project proponent, the Effluent (54,254 KLD) will be treated through ETPs, and Zero Liquid Discharge (ZLD) shall be ensured	Noted and shall be complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. The proposed project focuses on the "Zero Liquid Discharge" (ZLD) concept, where treated water will be reused for gardening / plantation, dust suppression, cooling water make-up, and other industrial activities to conserve freshwater resources. Additionally, treated water from the sewage treatment plant (STP) will be utilized for horticulture and greenbelt development. Further, the Environment Monitoring report of the same is enclosed as **Annexure - III.**

(xiv)	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 servers. 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	Noted and shall be complied with the requirements. Remark: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Necessary OCEMS/CEMS will be installed for applicable parameters as prescribed in CPCB guidelines. These systems will be connected to SPCB and CPCB servers to enable real-time data transfer 24/7 during the operation phase. Further, as this project is on "Zero Liquide Discharge" Concept, real time monitoring system will be installed at the ETP outlet as per CPCB Guideline.
(xv)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	Noted and shall be complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, Storage of toxic and hazardous raw materials will be carried out as per the statutory norms. Quantity and days of storage will be submitted to the Regional Office of Ministry and SPCB along with the compliance report once activities started at site.
(xvi)	The occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Noted and shall be complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Regular health check-up is being done and fitness reports of workers / employees during construction phase are maintained. Additionally, upon starting operations, regular occupational health surveillance of workers will be conducted, and records will be kept accordingly. Further, it will be ensured that all workers & employees are equipped with necessary Personal protection equipment's (PPEs) during construction as well as operational activities.

(xvii)	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	Noted and being complied with. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Necessary trainings are being conducted for all employees & contractor manpower on safety and health aspects. Also, specific training on safety & health aspects for handling of chemicals will be provided during operational phase Further, Recommendations for mitigation measures as per various risk assessment studies are being considered in project design, engineering & construction for site implementation.
(xviii)	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.	Noted and shall be complied with. Remarks - The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, Adequate Firefighting system / control measures for possible fire hazards during manufacturing process in material handling will be done as per the norms.
(xix)	The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Noted and shall be complied with the requirements. Remarks - The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site.

(xx)	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.	Noted and shall be complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, rooftop rainwater harvesting system will be designed and the storm water from the roof top will be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water will be used for horticulture / landscaping or various industrial processes in the unit during operation phase based on suitability. Further, storm water drainage system will be constructed in a way that no process effluent and/or any wastewater shall allow to mix with storm water.
(xxi)	The PP 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 cleaning to reduce wastewater generation.	Noted and shall be complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. However, the Environmental Management Plan during construction phase with incorporating of waste minimization practices has already been prepared and construction activities are being carried out accordingly. Further, best available practices including suggested measures will be adopted for waste minimization during operational phases.
(xxii)	The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit	Noted and being complied with the requirements. Remarks –The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Best available technologies and EPCM are being considered in the project design for further implementation.

		MPL has proactively commenced Corporate Environmental Responsibility (CER) activities in all villages surrounding the project area, aligned with the project's progress, addressing the commitments and recommendations outlined in the EIA/EMP report, commitments made during the Public Hearing, and those presented during presentation. The total CER expenditure incurred on various community welfare and eco-development activities during the reporting period amounts to INR 470.85 Lakhs, with a cumulative CER expenditure of approximately INR 1301 Lakhs by the end of the reporting period. The details of CER activities with expenditures are summarized in CER report enclosed as **Annexure – V**.
B	**General Condition**	
(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 and shall be complied with.
(ii)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Noted and shall be complied with.
(iii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment	Noted and being complied with. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage.

		Simultaneously, construction activities are ongoing at the site. Energy efficiency measures are being integrated into the project design and engineering. High-quality LED lighting equipment will be installed in offices and residential areas for energy conservation and environment betterment.
(iv)	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).	Noted and being complied with. Remark: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Additionally, ambient noise quality monitoring (ANQM) is being conducted at designated locations within the project site and surrounding villages by an independent NABL accredited laboratory. The results of the ANQM adhere to the standards specified under the E(P)A Rules, 1986. The Environment Monitoring report is attached as **Annexure – III**.
(v)	The company shall undertake all relevant measures for improving the socio- economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment	Noted and being complied with the requirements. Remarks –The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. To enhance the socio-economic conditions of the study area, various eco-developmental measures, including community welfare activities, are being implemented in a phased approach under Corporate Environmental Responsibility (CER) with the involvement of local villages and administration. To understand the current social status and needs of the local community, a "Baseline & Need Assessment Study" was conducted by a third-party professional agency, involving various stakeholders such as local villagers and administration. The recommendations

		from this study have been incorporated into the CER plan for phased implementation. MPL has started CER activities in all villages around the project area. The total CER expenditure for various community welfare and eco-development activities during the reporting period is INR 470.85 Lakhs, with cumulative CER expenditure up to the end of the reporting period approximately INR 1301 Lakhs, in accordance with project progress. The details of CER activities with expenditures are summarized in CER report enclosed as **Annexure – V**.
(vi)	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	Noted and being complied with the requirements. Remarks- The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. Additionally, the capital cost and annual recurring cost for environmental protection measures will be allocated. Expenditures related to these measures will be separately tracked and reported as part of EC compliance. This information will be made available on the company's website as part of EC compliance reporting.
(vii)	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.	Complied with. The copies of the Environmental Clearance letter vide our following letter nos. have been submitted to concerned panchayats (all 15 villages) & The Taluka Development Officer (Rural Local Body), The District Development Officer, District Industries Center and the local NGO / trust from whom suggestions / representations received during public hearing and reference Ack. copy of submission is enclosed as **Annexure – VI.** 1. AEL/MPL/ENV/EC/2022-September/02 Dated 02/09/2022. 2. AEL/MPL/ENV/EC/2022-September/04 Dated 02/09/2022.

		3. AEL/MPL/ENV/EC/2022-September/06/01 to 15 Dated 02/09/2022.
(viii)	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated 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.	As per MoEF&CC Office Memorandum dated 14th June, 2022, Six monthly compliance report of stipulated environment clearance conditions including results of monitored data being uploaded on PARIVESH Portal & company's website i.e https://www.adanienterprises.com. Further, Soft copy of the same being sent to Zonal offices of CPCB and SPCB.
(ix)	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 Integrated Regional Office of MoEF&CC by e-mail.	The proposed PVC project is currently in the final design, detailed engineering, and procurement stages. Simultaneously, construction activities are ongoing at the site. Environmental Statement for the year 2024-25 have been submitted to Gujarat Pollution Control Board and IRO, Gandhinagar through vide our letter no. MPL/ENV/GPCB – Form – V/2025 – May/02 dated 12/05/2025 i.e within stipulated time period and same is also available on Company's Website i.e https://www.adanienterprises.com. Copy of the submission is enclosed as **Annexure-VII**.
(x)	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	The advertisement "stating the project has been accorded environmental clearance by MoEF&CC and also displayed on company website" - have been published on following newspapers on 5th September, 2022. (i.e within 7 days of grant of Environmental Clearance). 1. Kutch Mitra (Gujarati Language) 2.Gujarat Samachar (Gujarati Language) 3.The Times of India (English Language). copy of EC letter and News Papers are also submitted to Regional Office, MoEF&CC, Gandhinagar through vide our letter no. AEL/MPL/ENV/EC/2022 – September/07 dated 06/09/2022. Copy of the same is enclosed as **Annexure – VIII**.
(xi)	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.	Noted and complied. The requisite information are being submitted to the authority as part of six monthly EC compliance report.

		Remarks: The proposed PVC project is currently in the final design, detailed engineering, and procurement stage. Simultaneously, construction activities are ongoing at the site. The date of financial closure is 25th April 2024 when MPL signed the financing documents with the lead banks. The commencement of land development including earth work preparation, piling for foundation/construction activities have been initiated after award of consent of establishment (CTE) from the state pollution control board i.e. 13th Dec. 2022 after obtaining necessary environmental clearance from the MoEF&CC. As per schedule, the production/commercial operation of all the proposed units is expected by 1st October 2027.
(xii)	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 and agreed with the requirement.

Enclosure

Enclosure No.	Name
A	Progress status (Photographs) of site construction activities.

Annexures

Annexure No.	Name
I	Status of PIL 36/2022
II	Tree plantation report
III	Environment Monitoring Report
IV	Activities as per Wildlife Conservation Plan
V	CER Activities
VI	Letter for Submission of EC to Local Authorities, NGOs.
VII	Submission of Environment Statement Form – V.
VIII	Letter for submission of News paper and EC to concern authorities.

Enclosure – A

Construction activities for the PVC Project at Vill: Vandh & Tunda, Ta: Mundra Dist: Kutch.

Os&Us Area - PVC Cooling Tower

Os&Us Area - Boiler Package

Os&Us Area - VCM Sphere

PVC Plant - Equipment Erection

Overview of PVC Plant

VCM Gas Holder – Tankage Erection Work – PVC Plant

VCM Plant - Reactor Area

VCM Plant - Modular Assembly Yard

VCM Sphere – RCC Sub Structure Work

VCM Plant - AG Piping Erection

Acetylene Plant - Acetylene Silo

Acetylene Plant - Acetylene Silo

Acetylene Plant - Acetylene Gas Holder

Chlor-Alkali Plant - Primary Brine Tank

Chlor-Alkali Plant - HCL Synthesis Tank

Chlor-Alkali Plant - Chiller Unit

Chlor-Alkali Plant

CaC2 Plant - Semi Coke Dryer

CaC2 Plant - Gas Boosting Station

Calcium Carbide Furnace Workshop

Annexure – I

Status of PIL No. 36/2022

This PIL NO. 36/2022 was filed by the petitioner (the Kheti Vikas Seva Trust) against Union of India (along with 6 respondents where AEL is one of the party) in Hon'ble Gujarat High Court with a prayer to stay the public hearing for the interlinked project of M/s Adani Enterprises Ltd. (Now transferred to Mundra Petrochem Limited) scheduled for 30th April 2022. In the first hearing on the matter held on 26th April 2022, the Hon'ble court waived notice against AEL and did not order any stay to conduct the public hearing on the scheduled date.

The public hearing was successfully completed by the Gujarat Pollution Control Board (GPCB) on 30th April 2022 with respect to all the provisions of EIA Notification and applicable office memorandums of MoEF&CC. Subsequently, the project was appraised by MoEF&CC and accorded Environmental Clearance (EC) for the above referred PVC project (interlinked project).

The PIL matter was last posted for hearing on 7th February 2023. Presently the matter is still pending for hearing. A copy of the latest update (as on 20th May, 2025) is attached herewith as **Annexure-IA**.

Moreover, all processes related to EIA studies & public hearing for grant of Environment clearance complied with all the provisions of EIA Notification and applicable office memorandums of MoEF&CC.

Annexure - IA

Email My Case Status

WRIT PETITION (PIL) WRIT PETITION (PIL) No. 36 of 2022

Status : PENDING **(Filing(Stamp) Number : WPPIL/12417/2022)** **CNR No : GJHC240244952022**

Last Listing Date: 07/02/2023

Coram
- HONOURABLE THE CHIEF JUSTICE MRS. JUSTICE SUNITA AGARWAL and HONOURABLE MR. JUSTICE PRANAV TRIVEDI

S.NO.	Petitioner Name	Advocate On Record
1	KHETI VIKAS SEVA TRUST THROUGH PRESIDENT NARAN BHARU SEDA GADHVI	MR SIRAJ R GORI(2298) for: Applicant(s) → 1

S.NO.	Respondent Name	Advocate On Record
1	UNION OF INDIA	MR ANKIT SHAH(6371) for :Opponent(s) → 1
2	STATE OF GUJARAT	GOVERNMENT PLEADER(1) for :Opponent(s) → 2,5
3	CENTRAL POLLUTION CONTROL BOARD	NOTICE NOT RECD BACK(3) for :Opponent(s) → 3,6
4	GUJARAT POLLUTION CONTROL BOARD	CHINTAN H DAVE(7193) for :Opponent(s) → 4
5	DISTRICT COLLECTOR	SINGHI & CO(2725) for :Opponent(s) → 7
6	REGIONAL OFFICER (GUJARAT)	
7	ADANI ENTERPRISES LTD.	

Presented On : 18/04/2022 **Registered On** : 21/04/2022
Bench Category : DIVISION **District** : KACHCHH
Case Originated From : -
Purpose of Listing : 192-NOTICE & ADJOURNED MATTERS

Classification
- 876-DB - PIL - PIL - ANY OTHER / MISCELLANEOUS MATTERS

Act
- CONSTITUTION OF INDIA

Office Objections

NO DATA FOR OFFICE OBJECTIONS

Court Proceedings

S. No.	Notified Date	CourtCode	Board Sr. No.	Stage	Action	Coram
1	26/04/2022	1	24	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
2	20/06/2022	1	59	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
3	05/07/2022	1	45	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
4	25/07/2022	1	47	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
5	25/08/2022	1	84	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
6	15/09/2022	1	65	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
7	13/10/2022	1	59	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	○ HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR ○ HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI

S. No.	Notified Date	CourtCode	Board Sr. No.	Stage	Action	Coram
8	24/11/2022	1	52	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	• HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR • HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI
9	22/12/2022	1	20	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	• HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR • HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI

Available Orders

S. No.	Case Details	Judge Name	Order Date	CAV	Judgement	Questions	Transferred	Download
1	WPPIL/36/2022	• HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR • HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI	26/04/2022	N	ORDER	-	Y	Download
2	WPPIL/36/2022	• HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR • HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI	22/12/2022	N	ORDER	-	Y	Download

Connected Matters

NO DATA FOR CONNECTED MATTERS

Application / Appeal Matters

NO DATA FOR APPLICATION / APPEAL MATTERS

IA Details

Office Details

S. No.	Filing Date	Document Name	Advocate Name	Court Fee on Document	Document Details
1	21/04/2022	MEMO OF PETITION/APPEAL/SUIT	MR SIRAJ R GORI(2298) for PETITIONER(s) →	100	-KHETI VIKAS SEVA TRUST THROUGH PRESIDENT NARAN BHARU SEDA GADHVI
2	21/04/2022	VAKALATNAMA	MR SIRAJ R GORI(2298) for PETITIONER(s) →	5	-KHETI VIKAS SEVA TRUST THROUGH PRESIDENT NARAN BHARU SEDA GADHVI
3	09/06/2022	VAKALATNAMA	SINGHI & CO(2725) for RESPONDENT(s) →	5	-ADANI ENTERPRISES LTD.
4	20/06/2022	APPEARANCE NOTE	MR. PARTH H BHATT(6381) for RESPONDENT(s) →	0	-UNION OF INDIA
5	04/07/2022	VAKALATNAMA	CHINTAN H DAVE(7193) for RESPONDENT(s) →	0	-GUJARAT POLLUTION CONTROL BOARD
6	31/07/2023	APPEARANCE NOTE	MR ANKIT SHAH(6371) for RESPONDENT(s) →	0	-UNION OF INDIA

Certified Copy

NO DATA FOR CERTIFIED COPY

Lower Court Detail

NO DATA FOR LOWERCOURT DETAIL

FIR Details

NO DATA FOR FIR DETAILS

Translated Orders/Judgments

NO DATA

Annexure – II

Tree Plantation Activities

Trees are decisive to the strength of our planet and well-being of its inhabitants. Tree plantation has been carried out, as the process of planting trees in a community area played a crucial role in contesting climate change by captivating carbon dioxide and releasing oxygen (purifying air), facilitated through habitat and food for wide range of wildlife, supporting biodiversity and maintaining ecological balance. This practice has gained significant consideration, as some grapples with the adverse effects of deforestation, urbanization and environmental degradation.

Tree plantation have been done with more than 10000+ trees (Native Species) at Nani Khakhar. The same plantation is being maintained by the expert.

Tree Plantation done at Borana with 14000+ native species. Further, tree plantation having 300 numbers of native species have been done at Road side from Tunda to Bhadia which are being maintain by M/s Sadbhavna Manavseva Trust and experts.

Total 24,300+ trees have been planted at nearby villages to combat climate change and enhance biodiversity. Further, 88536+ numbers of cumulative trees have been planted at nearby villages for the period up to March, 2025.

Miyawaki tree plantation & Drip irrigation methods were used.

M/s Manvseva Charitable Trust and M/s Yash Green are the Expert to maintain the trees to get survival rate more than 98%.

Survival rate of trees are 98% +

9+ acre land were used for tree plantation

CO_2 Sequestration

2124.864+ tCO_2e will Seq.

500+ farmers were assisted in cultivating fruit – bearing trees.

Increasing their income and promoting sustainable agriculture.

Biodiversity Boost – Birds are resting & roosting at tree plantation area.

Icrease the organic fertility for the soil.

Increase the CO2 Sequestration, so as, clean air.

Tree Plantation Details

Sr. No.	Details of Expert Agency	Name of Species	Number of Species	Survival rate
1	M/s Manavseva	Ficus Virens	8	98-100%
2	Charitable Trust	Millettia Pinnata	20	
3	(Planting + 2 year	Arborvitae	15	
4	maintenance)	Azadirachta indica	49	
5	Tunda to Bhadiya	Ficus religiosa	41	
6	Village Road	Ficus benghalensis	34	
7		Arachis pintoi	20	
8		Samanea saman	11	
9		Tamarindus indica (Khati Ambali)	27	
10		Tamarindus Indica. (Mithi Ambali)	22	
11		Terminalia arjuna	23	
12		Syzygium Cumini	20	
13		Syzygium cumini (Jamun – Big Fruit)	10	
14	M/s Yash Green	Syzygiium samarangense	1715	98-100%
15	(Planting + 2 year	Prunas amygdalus	183	
16	maintenance)	pithecellobium dulce	2000	
17	Village: Borana	Senna Siamea	995	
18	(14000 Trees)	Cascabela thevetia	200	
19	&	Cassia fistula	1635	
20	Nani Khakhar	Cusuarina Equisetifolia	715	
21	(10000 Trees).	Moringa olieifera	765	
22		Azadirachta indica	1835	
23		Delonix regia	400	
24		Tamarinda	1574	
25		Date palm / Phoenix Dactylifera	650	
26		Croton (plants)	50	
27		Carissa carandas	180	
28		Ceiba pentandra	1304	
29		Albizia labbeck	420	
30		Morus (plant)	600	
31		Cedrus deodara	152	
32		Ficus religiosa	962	
33		Pentaclethra macroloba	125	
34		vechellia nilotica	515	
35		Gurva	535	
36		Samanea saman	95	
37		Seilver (disambiguation)	80	
38		Coconut tree(cocos nucifera)	174	
39		Banyan	6	
40		Ficus racemosa	57	
41		Woshingtonia robusta	2	
42		Betula Pendula	1120	
43		Bauhinia	500	
44		Tecoma stans	397	

45		Prosopis cinararia	330	
46		Banmboo	55	
47		Exora Coccinea	70	
48		Hibiscus	10	
49		Jasminum sambac	10	
50		Euphorbia ingens	20	
51	M/s Yash Green	Bodhi Tree	100	
52	(Planting + 2 year	Aegle marmelos	5	
53	maintenance)	Mimusops elengi	5	
54	Village: Borana	Manilkara zapota	5	
55	(14000 Trees)	Lemon	9	98-100%
56	&	Cymbopogon	5	
57	Nani Khakhar	Curry tree	5	
58	(10000 Trees).	Thespesia populnea	13	
59		Bougainvillea	50	
60		Syzygium Cumini	668	
61		Terminalia Catappa	255	
62		Bauhinia Racemosa	240	
63		Pongamia Pinnata	670	
64		Peltophorum	300	
65		Psidium Guajava	500	
66		Manilkara Hexandra	200	
67		Ficus Benghalensis	214	
68		Pongamia Pinnata	100	
69		Tamarindus Indica	220	
		Total	**24300**	

M/S. MUNDRA PETROCHEMICAL LIMITED (MPL)

Six Monthly Environmental Monitoring Report
Mundra Petrochemicals Limited (MPL) Located at near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat

Month: October 2024 to March 2025

Submitted By

UniStar Environment & Research Labs Pvt. Ltd.
White House, Near GIDC Office, Char Rasta, Vapi, Gujarat, India – 396195

M/S. MUNDRA PETROCHEM LIMITED (MPL)

Six Monthly Environment Monitoring Report for Green PVC Project near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat

QUALITY CONTROL							
Name of Publication	Six Monthly Environmental Monitoring Report for Green PVC Project near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat						
SO No.	Service Order	**Issue No.**	1	**Revision No.**	01	**Released**	March 2025
Prepared & Managed By	MS. Pooja Gandhi		**Approved by**		Mr. Jaivik Tandel		
Released By	Unistar Environment and Research Labs Pvt. Ltd.						

TABLE OF CONTENTS

LIST OF ANNEXURES

ABBREVIATIONS AND ACRONYMS

MPL	:	Mundra Petrochemicals Limited
APL	:	Adani Power Limited.
APSEZL	:	Adani Ports & Special Economic Zone Limited
UERL	:	UniStar Environment and Research Labs Private Limited
CPCB	:	Central Pollution Control Board
EIA	:	Environment Impact Assessment
EMP	:	Environmental Management Plan
ETP	:	Effluent Treatment Plant
KLD	:	Kilo Liter Day
MOEFCC	:	Ministry of Environment, Forest & Climate Change
C_2H_2	:	Acetylene
CaC_2	:	Calcium Carbide
C_2H_3Cl	:	Vinyl chloride
GoI	:	Government of India
GPCB	:	Gujarat Pollution Control Board
PVC	:	Polyvinyl chloride
VCM	:	Vinyl Chloride Monomer

1 EXECUTIVE SUMMARY

1.1 Introduction

1.1.1 About ADANI Group

Adani Group is India's fastest growing corporate catering to a billion aspirations. Adani Group is a diversified organization comprising of 7 publicly traded companies in India. Adani Group has headquartered in Ahmedabad, in the state of Gujarat, India. Over the years, Adani Group has positioned itself to be the market leader in its transport logistics and energy utility portfolio businesses focusing on large scale infrastructure development in India with O & M practices benchmarked to global standards, with key businesses across Resources - mining & trading, Logistics – shipping, rail and airport terminals, Energy – Gas (LNG, City Gas), Thermal power generation, Renewables (Solar & Wind) and transmission energy infrastructure, Agro commodities, Ancillary industries and Real estate etc. Adani Group is the largest private power producer in India.

Adani owes its success and leadership position to its core philosophy of 'Nation Building' driven by ***'Growth with Goodness'*** - a guiding principle for sustainable growth. Adani is committed to improve its ESG footprint by re-aligning its businesses with emphasis on climate protection and increasing community outreach through its CSR programme based on the principles of sustainability, diversity and shared values.

Adani group is now executing green PVC project (Green PVC) at near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat

1.1.2 About UniStar Environment and Research Labs Private Limited (UERL)

UniStar Environment and Research Labs Private Limited is a company which provide efficient and economical services in the areas of environmental pollution control/monitoring and chemical analysis & research activities to various industries and institutions. UniStar provides technical consultancy backed by well-established sophisticated analytical laboratories, to comply with Statutory requirements and directives of the Pollution Control Board/ Committees under various Environment Pollution Control Acts. and Rules. We also carry out post Environmental Clearance monitoring and assist our valued customers in preparation of Half-yearly Environmental Clearance Compliance report.

- Ministry of Environment, Forest and Climate Change (MOEFCC), GOI recognized the Laboratory under the Environment Protection Act-1986 which is valid up to – 18/10/2027.
- ISO/IEC 17025 Accredited Laboratory by National Accreditation Board for Testing and Calibration Laboratories (NABL) which is valid up to – 22/09/2026.
- Recognized Environmental Auditor Laboratory by Gujarat Pollution Control Board, Gandhinagar, Gujarat, India which is valid up to 31/12/2025.

  Copy of relevant certificates are attached as Annexure I.

1.2 Brief Description of Project

The proposed Green PVC Project is having various major units such as, Semi-coke Plant, Calcium Carbide Plant, Acetylene Plant, VCM Plant, PVC Plant, Caustic Soda Plant, Ethylene Glycol Plant & Cement Plant. The associated infrastructure facilities such as boiler, final/intermediate product storages etc, utilities, pipelines, ancillary facilities for interconnecting /transferring of materials between pockets, loading/unloading, roads, drainages, pipe racks, trenches, cable trays, non-plant buildings, laboratories, fabrication yards, batching Plant, dispatch section, general stores/ warehouse, fire & safety department, maintenance workshop, occupational health centre etc. will also be established.

2 ENVIRONMENTAL MONITORING

2.1 General Philosophy & Scope of Work

The environmental monitoring encompassed various disciplines and environmental attributes, including air quality, water quality, noise levels, and soil conditions. As per the given scope of work for environmental monitoring by MPL, we have prepared Environmental Monitoring Plan as per below.

Sr. No	Discipline	Location	Parameter	Frequency
1.	Ambient Air Quality Monitoring	Seven Locations	As per NAAQMS, 2009	Monthly
2.	Ambient Noise Monitoring	Seven Locations	Day Time & Nighttime - Noise Levels in Leq dB(A)	Monthly
3.	Treated Sewage water	One Location	pH, Bio-Chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Faecal Coliform (FC) (Most Probable Number per 100 millilitre, MPN/100ml, Nitrogen-Total, Phosphorus-Total	Monthly
4.	Ground water	Eight Location	pH, Temperature, Turbidity, conductivity, Total Dissolved Solids, Bio-Chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Salinity, Ammonical Nitrogen, Total Alkalinity, Total Hardness, Calcium, Magnesium, Chloride, Sulphate, Nitrate, Fluoride, Phenolic Compound, Sodium, Potassium, Calcium Hardness, Magnesium Hardness, Lead, Iron, Cadmium, Manganese, Copper, Arsenic, Chromium, Mercury, Nickel, Zinc, Total Nitrogen, Cyanide, Total Phosphorous, Sodium Absorption Ratio (SAR)	Pre & Post Monsoon
5.	Surface Water	Four Location	pH, Colour, Conductivity, Total Dissolved Solids, Bio-Chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Dissolved Oxygen, Total Hardness, Calcium Hardness, Magnesium Hardness, Chloride, Sulphate, Nitrate, Fluoride, Phenolic Compound, Ammonical Nitrogen, Lead, Iron, Cadmium, Manganese, Copper, Arsenic, Chromium, Boron, Mercury, Zinc, Cyanide, Sodium Absorption Ratio (SAR)	Pre & Post Monsoon
6.	Surface Water (Marine)	Three Location	pH, Colour, Odour, turbidity, Total Suspended Solids, Total Dissolved Solids, Bio-Chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Dissolved Oxygen, Oil & Grease, Lead, Iron, Cadmium, Manganese,	Pre & Post Monsoon

2.2 Sampling & Analysis

The selection of methods for sampling, preservation, and analysis holds significant importance in environmental monitoring. To ensure the highest quality in environmental sampling and analysis, the Central Pollution Control Board (CPCB) has established guidelines for these processes. Adhering to these guidelines, specific methods for sampling and analysis of environmental samples have been chosen and implemented. Instrument used in sampling are calibrated from NABL accredited Laboratory. Details are as follows:

Sr. No	Name of Instrument Used	ID No./Sr. No	Make/Model	Calibration Date	Cal. Valid up to
1.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/47/ 1816-DTJ-2013	Envirotech/ APM 460-BL	17/12/2024	16/12/2025
2.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/22/ 44-DTC-2012	Envirotech/ APM 550-MINI	17/12/2024	16/12/2025
3.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/34/ 1768-DTB-2013	Envirotech/ APM 460-BL	19/12/2024	18/12/2025
4.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/21/ 20-DTC-2012	Envirotech/ APM 550-MINI	20/12/2024	19/12/2025
5.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/027/ 1751-DTA-2013	Envirotech/ APM 460-BL	20/12/2024	19/12/2025
6.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/050/ 129-DTL-2012	Envirotech/ APM 550-MINI	20/12/2024	19/12/2025
7.	Sound Level Meter	UERL/AIR/SLM/09A	Envirotech - SLM 100 /24 DTE 2008	16/12/2024	15/12/2025
8.	Sound Level Meter	UERL/AIR/SLM/09B	Envirotech - SLM 100 /310 DTK 2015	16/12/2024	15/12/2025
9.	Sound Level Meter	UERL/AIR/SLM/09C	Extech / SDL 600	16/12/2024	15/12/2025

***Calibration certificates are attached in Annexure II**

2.2.1 Ambient Air Quality Sampling and Analytical Techniques

The techniques used for ambient air quality monitoring and its permissible limit are given in following table.

Sr. No.	Parameter	Technique	Technical protocol	Permissible Limit (As per NAAQS)
1.	Particulate Matter as PM10	Respirable Dust Sampler (Gravimetric method)	IS - 5182, Part - 23	100
2.	Particulate Matter as PM2.5	fine particular Sampler (Gravimetric method)	IS - 5182, Part - 24	60
3.	Sulphur Dioxide as SO2	Modified West and Gaeke	IS - 5182, Part - 2	80
4.	Nitrogen Dioxide as NO2	Jacob &Hochheiser	IS - 5182, Part - 6	80
5.	Carbon Monoxide as CO	Gas Analyser (CO)	IS - 5182, Part - 10	4.0
6.	Ozone as O3	UV Spectrophotometer	IS - 5182, Part - 9	180
7.	Ammonia as NH3	Titrimetric Method	IS - 5182, Part - 25	400
8.	Lead as Pb	AAS Method	IS - 5182, Part - 22	1.0
9.	Nickel as Ni	AAS Method	IS - 5182, Part - 26	20
10.	Arsenic as As	AAS Method	IS - 5182, Part - 22	6.0
11.	Benzene as C6H6	GC Method	IS - 5182, Part - 11	5.0
12.	Benzo (a) Pyrene (BaP)	GC Method	IS - 5182, Part - 12	1.0

2.2.2 Ambient Noise Level Sampling Techniques

The techniques used for ambient air quality monitoring and its permissible limit are given in following table.

Sr. No.	Parameter	Technique	Technical protocol	Permissible Limit (As per CPCB)
1.	Ambient Noise Level Monitoring at Industrial Area	Noise Meter (Leq)	IS : 9989 : 1981	Day Time – 75 dB Night Time – 70 dB
2	Ambient Noise Level Monitoring at Residential Area	Noise Meter (Leq)	IS : 9989 : 1981	Day Time – 55 dB Night Time – 45 dB

2.2.3 Ground Water Sampling & Analysis Techniques

Sr. No.	Parameter	Technical protocol	IS 10500 Standard Limits for drinking water	
			Desirable limit	Per. Limit in the Abs. of Alt. Source
1	pH	IS 3025(Part 11):2022	6.5-8.5	NR
2	Temp	IS 3025(Part 9):1984	NS	NS
3	Turbidity	IS 3025(Part 10):1984	1	5
4	TDS	IS 3025(Part 14):1984	500	2000
5	Electrical Conductivity	IS 3025(Part 16):2024	NS	NS
6	COD	IS 3025(Part 58): 2006	NS	NS
7	BOD	IS 3025(Part 44): 1993	NS	NS
8	Phenol	IS 3025(Part 43): 2020	0.001	0.002
9	Chlorides	IS 3025(Part 32): 1988	250	1000
10	Sulphate	IS 3025(Part 24): 2022	200	400
11	Total Hardness	IS 3025(Part 21): 2009	200	600
12	Ca++ Hardness	APHA 23rd Ed,2017,3500 Ca. B	NS	NS
13	Mg++ Hardness	APHA 23rd Ed,2017,3500 Mg. B	NS	NS
14	Total Alkalinity	IS 3025(Part 23): 1986	200	600
15	Nitrate	APHA 23rd Ed,2017,4500 NO3-B	45	NR
16	Fluoride	IS 3025(Part 60): 2008	1	1.5
17	Sodium	APHA 23rd Ed,2017,3500 Na. B	NS	NS
18	Potassium	APHA 23rd Ed,2017,3500 Mg. B	NS	NS
19	Calcium	APHA 23rd Ed,2017,3500 Ca. B	75	200
20	Magnesium	APHA 23rd Ed,2017,3500 Mg. B	30	100
21	Salinity	APHA 23rd Ed,2017,2520-B, 2-60	NS	NS
22	Total Nitrogen	APHA 23rd Ed,2017,4500 NH3 - B	0.5	NR
23	Total Phosphorous	APHA 23rd Ed,2017,4500-P, D	NS	NS
24	Dissolved Oxygen	APHA 23rd Ed,2017,4500-O, B	NS	NS
25	Ammonical Nitrogen	IS 3025(Part 34) (ISE Method):1988	NS	NS
26	SAR	By Calculation	NS	NS
	Heavy Metals			
27	Arsenic (as As)	APHA 23rd Ed,2017,3114-C	0.01	0.05
28	Cadmium (as Cd)	IS 3025(Part 41): 1992	0.003	NR
29	Chromium (as Cr)	APHA 23rd Ed,2017,3111-B	0.05	NR
30	Copper (as Cu)	APHA 23rd Ed,2017,3111-B	0.05	1.5
31	Cyanide (as CN)	IS 3025(Part 27): 1986	0.05	NR
32	Iron (as Fe)	IS 3025(Part 53): 2003	0.3	NR
33	Lead (as Pb)	IS 3025(Part 47): 1994	0.01	NR
34	Mercury (as Hg)	APHA 23rd Ed,2017,3112-B	0.001	NR

Sr. No.	Parameter	Technical protocol	IS 10500 Standard Limits for drinking water	
			Desirable limit	Per. Limit in the Abs. of Alt. Source
35	Manganese (as Mn)	APHA 23rd Ed,2017,3500 Mn. B	0.1	0.3
36	Nickel (as Ni)	IS 3025(Part 54): 1994	0.02	NR
37	Zinc (as Zn)	IS 3025(Part 49): 1994	5	15
38	Total Coliform	IS 1622:1981	Shall not be detectable	
39	Faecal Coliforms	IS 1622:1981	Shall not be detectable	

2.2.4 Surface Water Sampling & Analysis Techniques

Sr. No.	Parameter	Technical protocol	Classification for Inland Surface Water (CPCB)
			Class E
1	pH	IS 3025(Part 11):2022	6.5 to 8.5
2	Dissolved Oxygen	APHA 23rd Ed,2017,4500-O, B	NA
3	TDS	IS 3025(Part 14):1984	2100
4	Electrical Conductivity	IS 3025(Part 16):2024	2250
5	BOD	IS 3025(Part 44): 1993	NA
6	Colour	IS 3025(Part 4):2021	-
7	Total Hardness	IS 3025(Part 21): 2009	NA
8	Ca++ Hardness	APHA 23rd Ed,2017,3500 Ca. B	NA
9	Mg++ Hardness	APHA 23rd Ed,2017,3500 Mg. B	NA
10	Chlorides	IS 3025(Part 32): 1988	600
11	Sulphate	IS 3025(Part 24): 2022	1000
12	Nitrate	APHA 23rd Ed,2017,4500 NO3-B	NA
13	Fluoride	IS 3025(Part 60): 2008	-
14	Phenol	IS 3025(Part 43): 2020	NA
15	Ammonical Nitrogen	IS 3025(Part 34) (ISE Method):1988	NA
16	SAR	By Calculation	26
17	Copper (as Cu)	APHA 23rd Ed,2017,3111-B	NA
18	Iron (as Fe)	IS 3025(Part 53): 2003	NA
19	Manganese (as Mn)	APHA 23rd Ed,2017,3500 Mn. B	NA
20	Mercury	APHA 23rd Ed,2017,3112-B	NA
21	Cadmium (as Cd)	IS 3025(Part 41): 1992	NA
22	Arsenic (as As)	APHA 23rd Ed,2017,3114-C	NA
23	Cyanide	IS 3025(Part 27): 1986	NA
24	Lead (as Pb)	IS 3025(Part 47): 1994	NA
25	Zinc	IS 3025(Part 49): 1994	NA
26	Chromium (as Cr)	APHA 23rd Ed,2017,3111-B	NA
27	Boron	IS 3025(Part 49): 1994	2
28	Total Coliform	IS 1622:1981	-
29	COD	IS 3025(Part 57): RA 2021	-

2.2.5 Surface Water (Marine) Sampling & Analysis Techniques

Sr. No.	Parameter	Technical protocol	Classification for Coastal marine water (CPCB)
			SW-I
1	pH	IS 3025(Part 11):2022	6.5 to 8.5
2	Dissolved Oxygen	APHA 23rd Ed,2017,4500-O, B	5
3	Colour & Odour	IS 3025(Part 4):2021 & IS 3025(Part 5):1983	No Colour No Odour
4	Floating Matters	-	None
5	Total Suspended Solid	APHA 23rd Ed,2017,2540-D	None from Sewage or Industrial waste Origin
6	Turbidity	IS 3025(Part 10):1984	-
7	BOD	IS 3025(Part 44): 1993	-
8	Oil & Grease	IS 3025(Part 39): 1991	0.1
9	Mercury as Hg	APHA 23rd Ed,2017,3112-B	0.01
10	Lead (as Pb)	IS 3025(Part 47): 1994	0.01
11	Cadmium (as Cd)	IS 3025(Part 41): 1992	0.01
12	Iron (as Fe)	IS 3025(Part 53): 2003	-
13	Manganese (as Mn)	APHA 23rd Ed,2017,3500 Mn. B	-
14	Total Coliform	IS 1622:1981	-
15	Sludge Deposits, Solid refuse floating Solids, Oil Grease and Scum	-	-
16	COD	IS 3025(Part 57): RA 2021	-

2.2.6 Treated Water Sampling & Analysis Techniques

The techniques used for waste water Sampling and analysis its permissible limit is given in following table.

Sr. No.	Parameter	Technical protocol	Permissible Limit (As per MOEFCC notification no. GSR 1265(E) dt. 13 Oct. 2017)
1.	Treated Effluent from STP		
	pH	IS 3025(Part 11):2022	6.5 to 9.0
	BOD	APHA 23rd Ed,2017,5210-B	<30
	COD	IS 3025(Part 58): 2006	-
	TSS	APHA 23rd Ed.,2017, 2540 – D	<50
	Nitrogen Total	APHA 23rd Ed,2017,4500-B, C	--
	Phosphorous Total	APHA 23rd Ed,2017,4500-P, D	--
	Faecal Coliform	IS 1622:1981	<1000

2.3 Location (map showing general location, Monitoring location and project boundary) with coordinates & Monitoring details.

The general location of the project is shown in ***Map 2-1*** shows the study area of 10 Km radius around the project site on Google Earth downloaded image.

The sampling location used for monitoring purpose is taken after due consideration with baseline monitoring location, availability of power & weather condition etc. Also In order to evaluate the quality of sewage water, samples were acquired from the sewage water treatment plant for comprehensive analysis. These analyses encompassed physico-chemical, general-chemical, and microbiological parameters.

Sr. No.	Sampling Type	Sampling Location	Type of Area	Coordinates
1.	Ambient Air & Noise	Project Site (Pocket – 1)	Industrial Area	22.785943° N, 69.566645° E
2.	Ambient Air & Noise	Project Site (Pocket – 2)	Industrial Area	22.78221° N, 69.559541° E
3.	Ambient Air & Noise	Project Site (Pocket – 3)	Industrial Area	22.802171° N, 69.552084° E
4.	Ambient Air & Noise	Near Fabrication & Batching Plant	Industrial Area	22.807563° N, 69.704170° E
5	Ambient Air & Noise	Village - Navinal	Rural Area	22.829246° N, 69.598332° E
6.	Ambient Air & Noise	Village - Zarpara	Rural Area	22.837942° N, 69.646225° E
7.	Ambient Air & Noise	Village - Vandh	Rural Area	22.809106° N, 69.53562° E
8.	Trade Effluent – STP Outlet	Project Site (Pocket – 1)	Industrial Area	22.784881° N, 69.566798°E

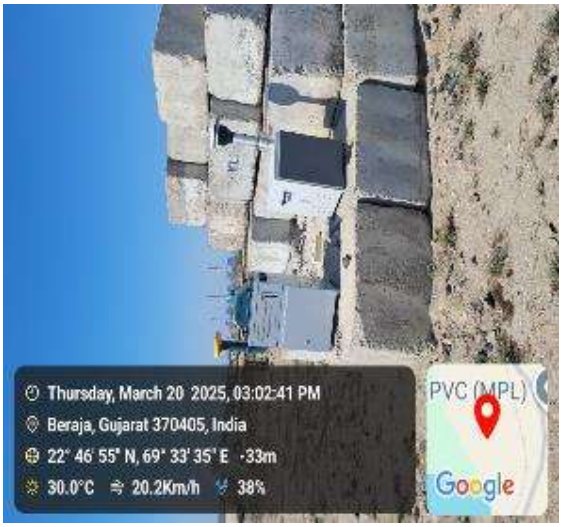
Photograph 2-1: Proposed Project Site (Current Status of Land)

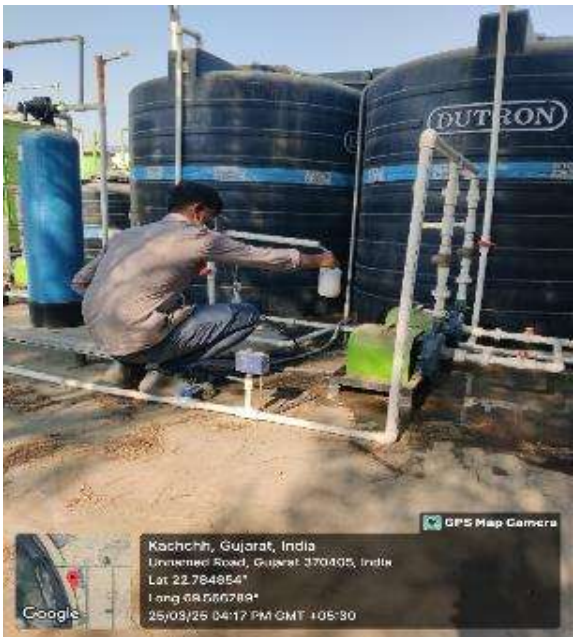
Pocket – 1

Pocket – 2

Pocket 3

Photograph 2-2: Photographs of monitoring

	
Project Site (Pocket – 1)	**Project Site (Pocket – 2)**
	
Project Site (Pocket – 3)	**Near Fabrication & Batching Plant**

	
Village Navinal	**Village Vandh**
	
Village-Zarpara	**Project Site (Pocket – 1)** **STP Sample Collection**

Surface Water - Navinal Village

Surface Water - Zarpara Village

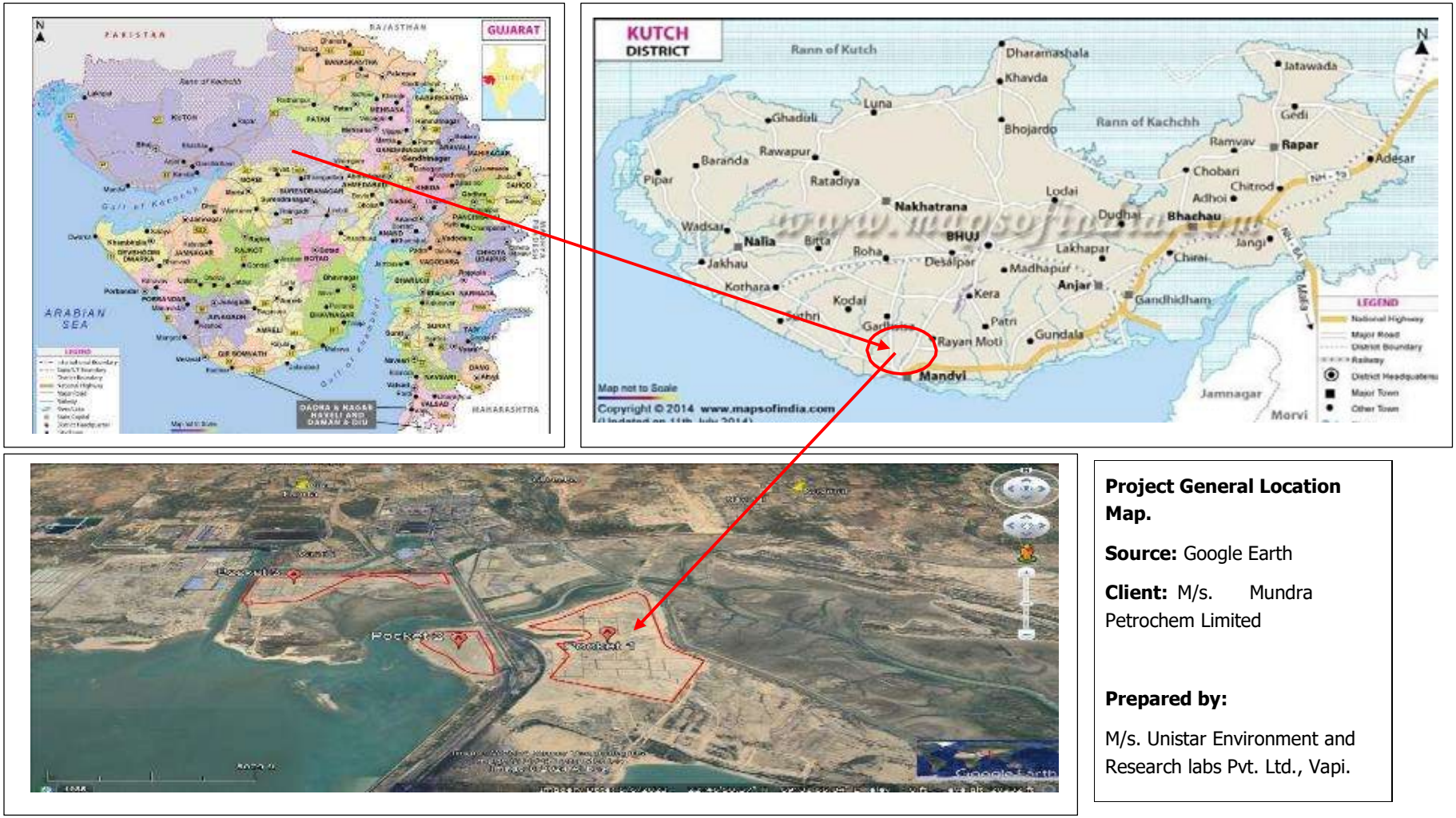
Ground Water- Navinal Village

Marine Water – Kotadi Creek

Project Site (Pocket – 1)

Project Site (Pocket – 3)

Map 2-1: Images Project General Location Map



Project General Location Map.

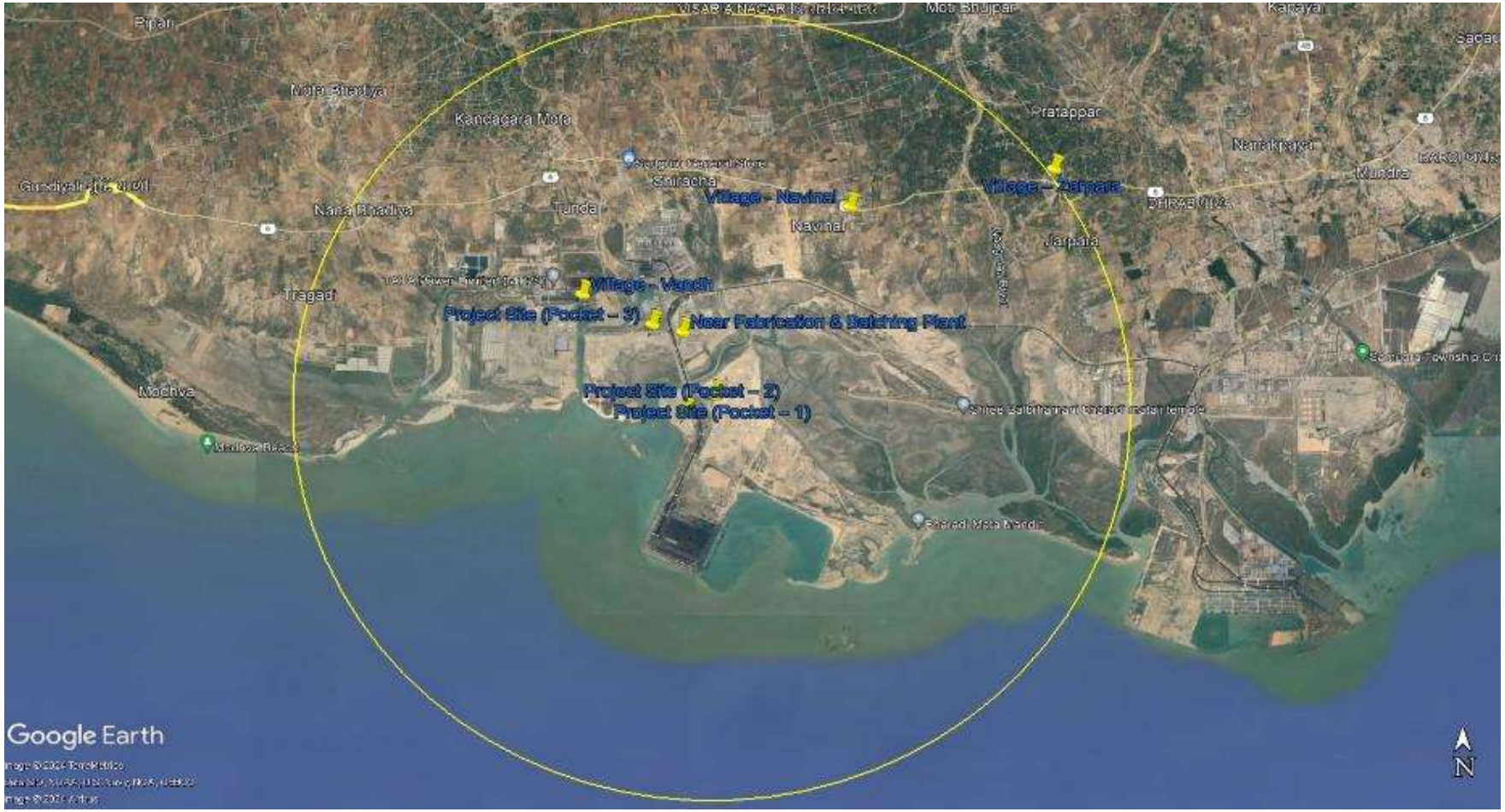
Source: Google Earth

Client: M/s. Mundra Petrochem Limited

Prepared by:

M/s. Unistar Environment and Research labs Pvt. Ltd., Vapi.

Map 2-1: Project site and Study Area of 10 Km radius on Google Earth Downloaded



3 CLIMATIC CONDITON

3.1 Climatic data from secondary sources

For the Green PVC project secondary data for weather conditions in the region is available for the period of October 2024 to March 2025. This table gives useful information about a region's weather condition. Meteorological data was analysed/reviewed for important parameters like Temperature, Humidity, BP, Wind speed, Wind direction, Solar radiation and Rainfall.

Average meteorological condition recorded at metrological station is as given in below table.

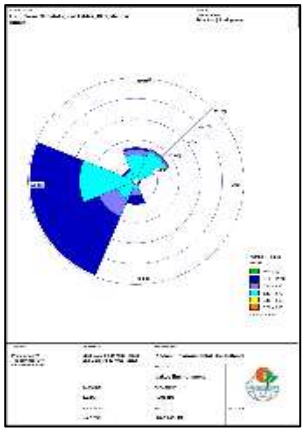
Table 3-1: Average meteorological condition

Weather Monitoring Data							
Month	**Scale**	**Temp. (°C)**	**RH (%)**	**BP (mmHg)**	**Wind Direction**	**Wind speed (Km/ Hr.)**	**Total Rainfall (mm)**
October 2024 to March 2025	Max.	42.4	98.3	764.1	360.0	39.1	7.5
	Min.	9.0	4.0	745.9	0.0	0.0	
	Average/ Total	25.3	53.2	758.2	166.1	5.8	

Total Rainfall for Year 2024 at the end of December 2025 is 1639 MM.

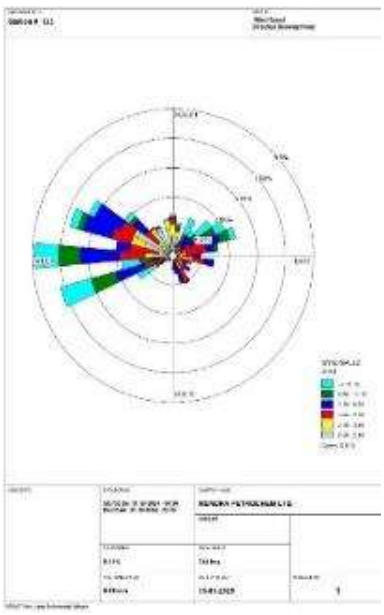
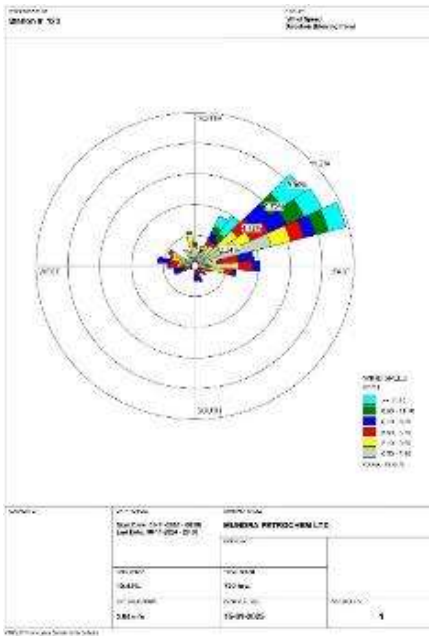
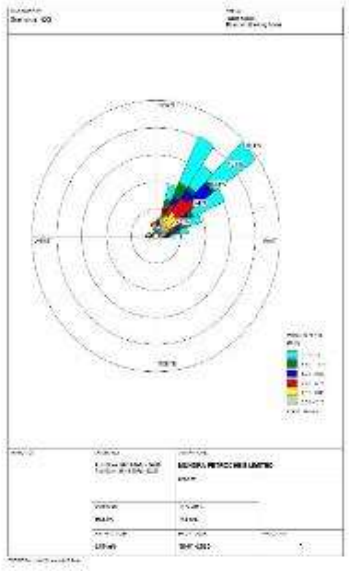
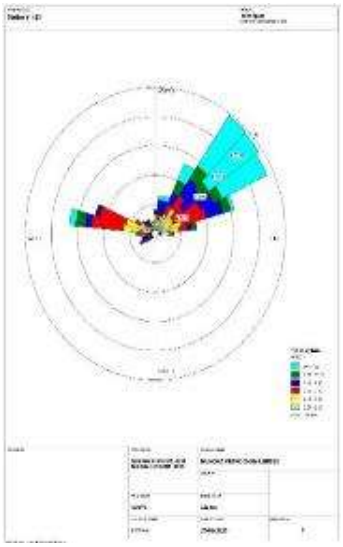
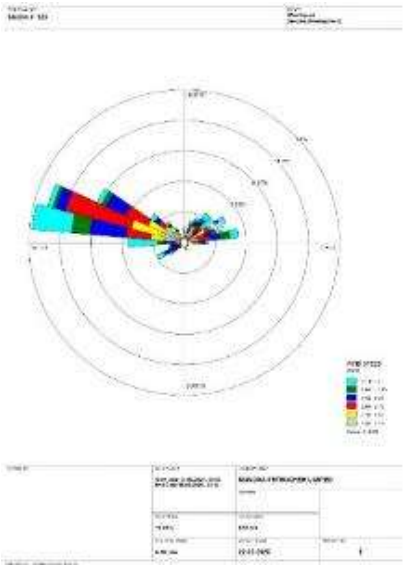
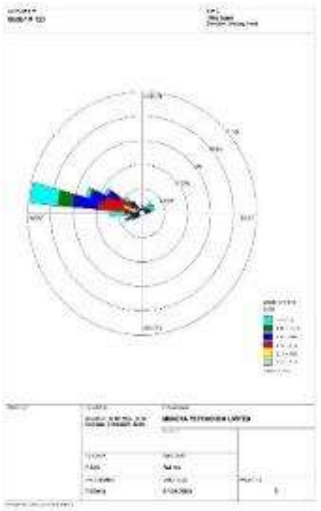
Based on wind patterns data, monthly wind-rose diagrams are presented in below Figure along with historical windrose of area.

Figure 3-1: Season wise wind-rose diagrams.



Annual

Wind Rose 2024 APL Mundra

		
Wind Rose Oct-24	Wind Rose Nov-24	Wind Rose Dec-24
		
Wind Rose Jan-25	Wind Rose Feb-25	Wind Rose March-25

4 ANALYSIS & INTERPRETATION

4.1 Ambient Air

Sr. No.	Month	Parameter with Results											
		PM10	PM2.5	SO2	NO2	CO	O3	NH3	Pb	Ni	As	Benzene	Benzo (a) Pyrene
		µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	µg/m3	µg/m3	ng/m3	ng/m3	µg/m3	ng/m3
		Permissible Limit As per NAAQS – 2009 Notification.											
		100	60	80	80	2	400	100	1	6	20	5	1
Location : Project Site (Near to Pocket -1)													
1	Oct-24	59.9	23.6	17.6	20.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	65.7	25.1	18.6	21.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	73.6	30.1	23.4	26.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	70.2	28.7	21.5	24.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	72.4	30.9	24.4	27.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	68.3	26.6	23.4	26.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/24/10/A-052 dt. 30/10/2024, URA/24/11/A-056 dt. 30/11/2024, URA/24/12/A-060 dt.04/01/2025 URA/25/01/A-062 dt. 31/01/2025, URA/25/02/A-069 dt. 05/03/2025, URA/25/03/A-059 dt. 27/03/2025													
Location: Project Site (Near to Pocket -2)													
1	Oct-24	57.5	20.9	19.8	22.1	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	61.3	23.8	20.5	24.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	51.5	21.8	26.9	30.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	55.8	25.4	27.4	31.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	60.2	29.5	28.7	32.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	57.4	25.6	26.7	29.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/24/10/A-055 dt. 30/10/2024, URA/24/11/A-070 dt. 30/11/2024, URA/24/12/A-066 dt.04/01/2025, URA/25/01/A-064 31/01/2025, URA/25/02/A-070 dt. 05/03/2025, URA/25/03/A-060 dt. 27/03/2025													
Location: Project Site (Near to Pocket -3)													
1	Oct-24	61.3	23.4	19.9	23.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	65.8	25.5	20.6	24.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	69.4	28.7	25.6	29.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	70.2	30.9	23.1	26.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	73.5	33.1	25.8	28.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	70.5	30.1	24.6	27.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. URA/24/10/A-047 dt. 30/10/2024, URA/24/11/A-061 dt. 30/11/2024, URA/24/12/A-065 dt.04/01/2025 URA/25/01/A-067 dt. 31/01/2025, URA/25/02/A-071 dt. 05/03/2025, URA/25/03/A-066 dt. 27/03/2025													

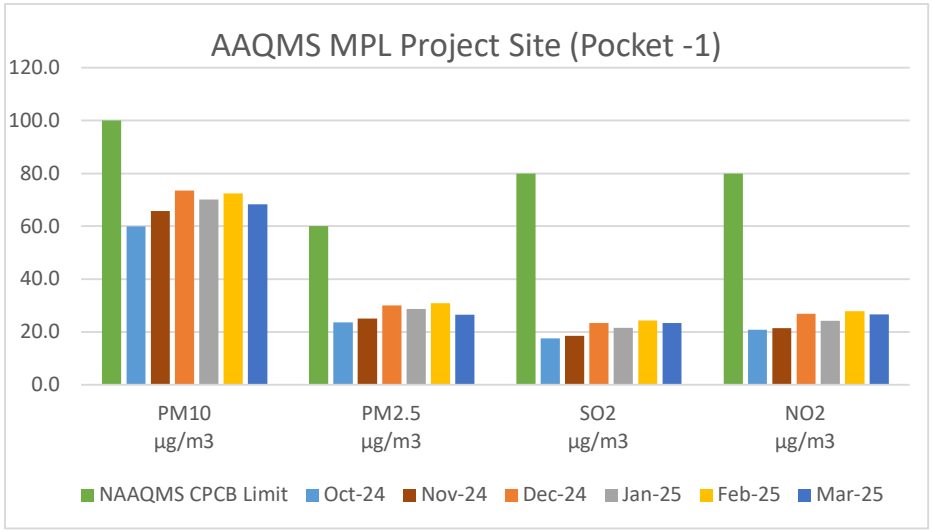
Location: Near Fabrication and Batching Plant													
1	Oct-24	60.8	21.3	18.4	22.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	62.5	24.4	17.3	20.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	68.3	27.5	24.3	27.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	66.6	29.8	20.8	24.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	68.9	31.2	22.6	25.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	65.3	29.9	21.1	25.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No.- URA/24/10/A-048 dt. 30/10/2024, URA/24/11/A-057 dt. 30/11/2024, URA/24/12/A-061 dt.04/01/2025 URA/25/01/A-066 dt. 31/01/2025, URA/25/02/A-076 dt. 05/03/2025, URA/25/03/A-061 dt. 27/03/2025													
Location : Village Navinal													
1	Oct-24	45.5	16.5	12.3	15.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	50.3	19.6	11.5	14.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	61.7	28.6	16.6	20.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	63.7	30.1	18.2	21.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	65.8	32.4	19.4	22.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	61.2	29.7	17.3	20.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/24/10/A-040 dt. 30/10/2024, URA/24/11/A-031 dt. 30/11/2024, URA/24/12/A-059 dt.04/01/2025 URA/25/01/A-041 dt. 31/01/2025, URA/25/02/A-067 dt. 05/03/2025, URA/25/03/A-067 dt. 27/03/2025													
Location : Village Zarpara													
1	Oct-24	42.3	18.5	11.3	14.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	45.8	17.2	10.4	13.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	54.5	23.5	17.5	22.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	57.8	26.3	19.8	23.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	59.9	28.6	20.3	24.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	57.6	26.1	19.7	22.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/24/10/A-050 dt. 30/10/2024, URA/24/11/A-051 dt. 30/11/2024, URA/24/12/A-064 dt.04/01/2025 URA/25/01/A-042 dt. 31/01/2025, URA/25/02/A-066 dt. 05/03/2025, URA/25/03/A-065 dt. 27/03/2025													
Location : Village Vandh													
1	Oct-24	46.1	17.3	10.9	14.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	Nov-24	51.2	18.6	9.8	12.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Dec-24	66.8	27.8	15.7	21.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jan-25	68.9	30.5	17.6	20.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Feb-25	66.2	31.4	18.5	21.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Mar-25	63.4	28.7	20.8	23.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1

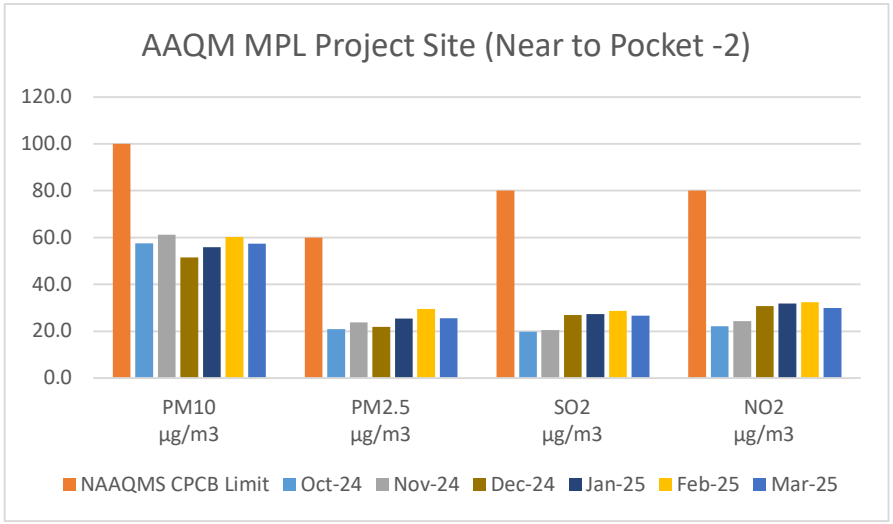
Report Ref. No.- URA/24/10/A-070 dt. 30/10/2024, URA/24/11/A-075 dt. 30/11/2024, URA/24/12/A-035 dt.04/01/2025 URA/25/01/A-040 dt. 31/01/2025, URA/25/02/A-072 dt. 05/03/2025, URA/25/03/A-058 dt. 27/03/2025

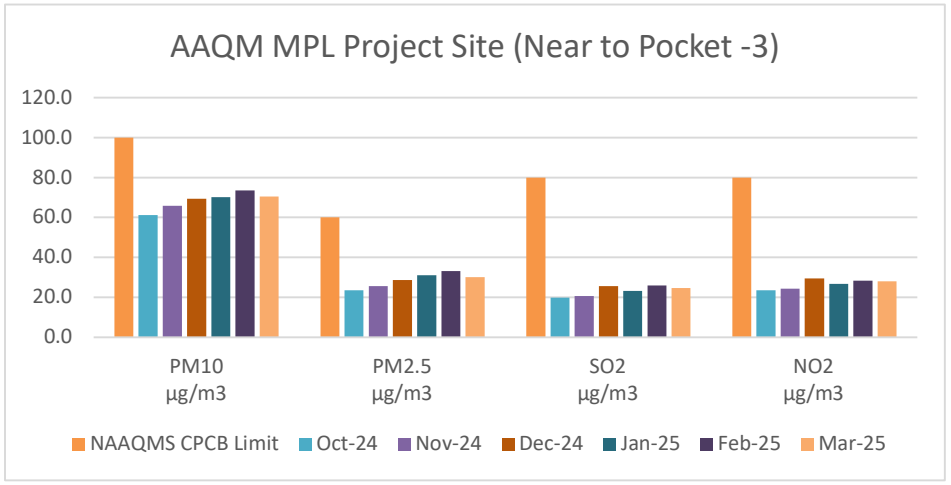
Observations

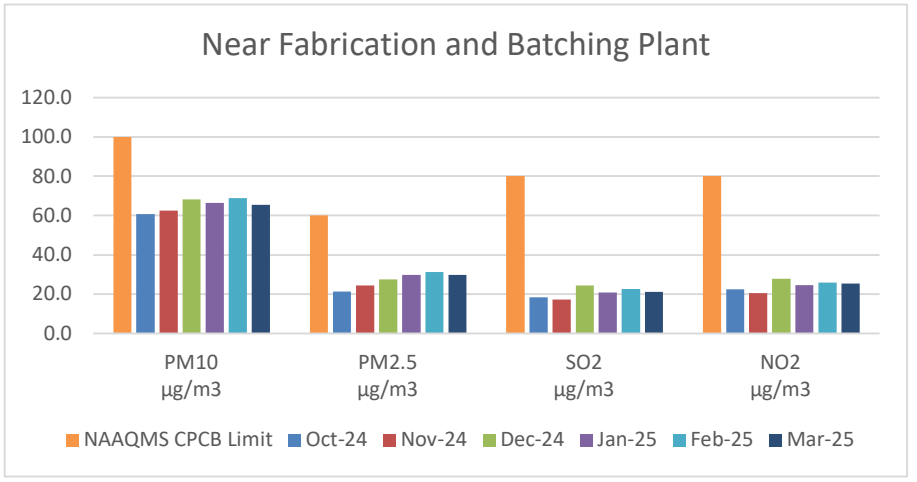
- The concentration of PM10 ranged from 73.6 µg/m3 at the Project Site (Pocket -1) to 42.3 µg/m3 in the Village of Zarpara, with an average concentration of 61.6 µg/m3.
- The concentration of PM2.5 ranged from 33.1 µg/m3 at the Project Site - Pocket 3 to 16.5 µg/m3 in the Village of Navinal, with an average concentration of 26.2 µg/m3.
- The concentration of SO2 ranged from 28.7 µg/m3 at the Project Site - Pocket 2 to 9.8 µg/m3 in the Village of Vandh, with an average concentration of 19.8 µg/m3.
- The concentration of NO2 ranged from 32.3 µg/m3 at the Project Site - Pocket 2 to 12.8 µg/m3 in the Village of Vandh, with an average concentration of 23.3 µg/m3.
- The concentrations of CO were below <0.01 mg/m3, & NH3 were below <5.0 µg/m3, O3 were below <5.0 µg/m3 at all the locations.
- The concentrations of Lead (Pb) were below <0.5 µg/m3, Arsenic (As) were below <1.0 ng/m3 & Nickel (Ni) were all below <1.0 ng/m3 at all the locations.
- The concentrations of Benzene were below <1.0 µg/m3 & BaP were all below <0.1 ng/m3 at all the locations.

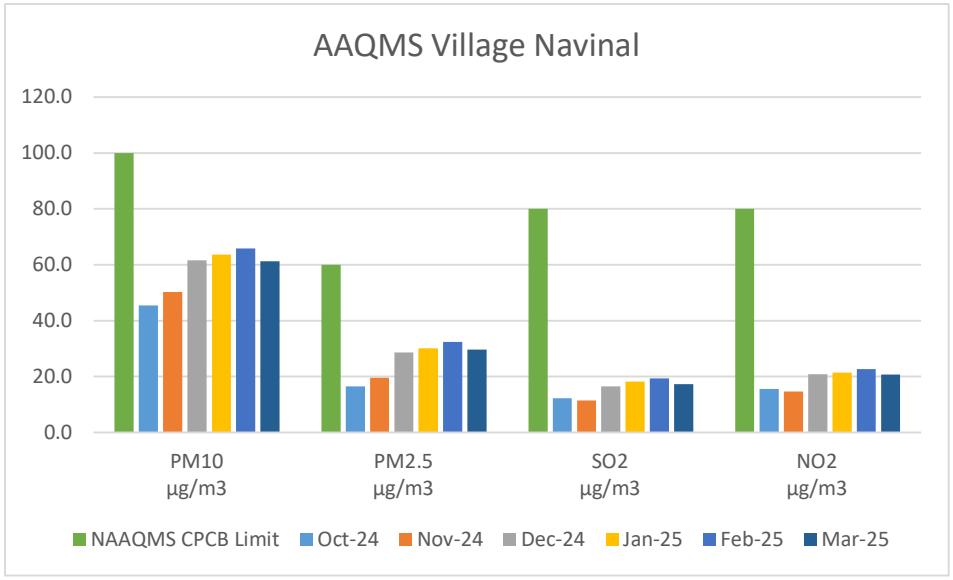
The concentrations of all monitored air quality parameters were found to be within the permissible limits as defined by the National Ambient Air Quality (NAAQ) Standards set by the Ministry of Environment, Forest and Climate Change (MoEF&CC).

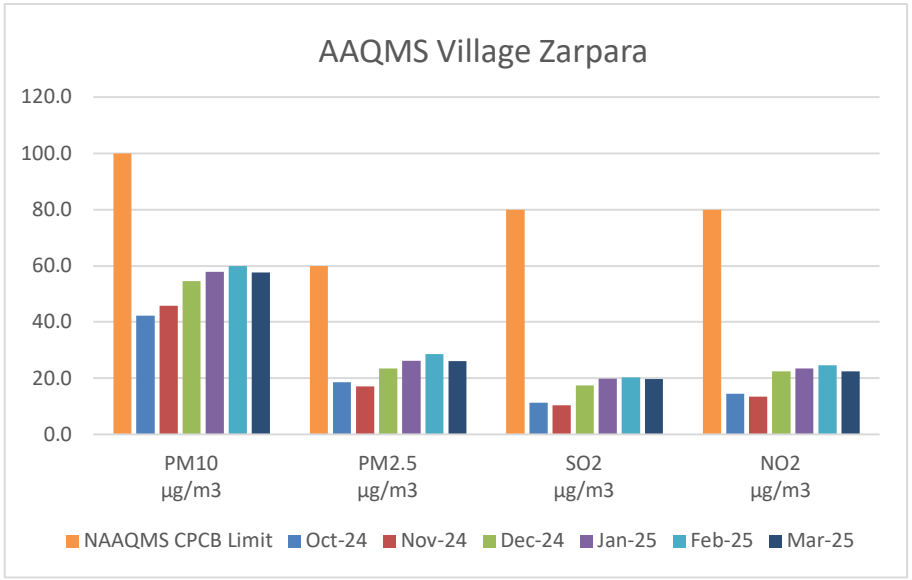

AAQMS MPL Project Site (Pocket -1)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25

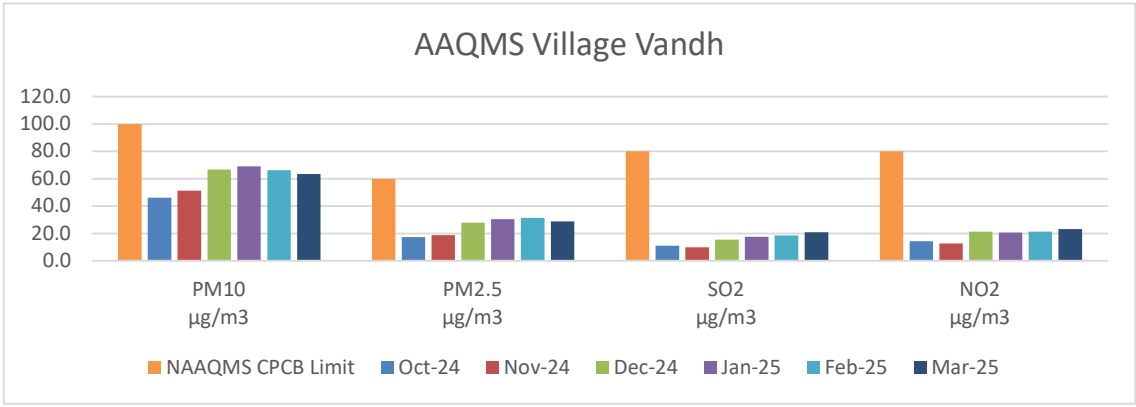

AAQM MPL Project Site (Near to Pocket -2)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25


AAQM MPL Project Site (Near to Pocket -3)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25


Near Fabrication and Batching Plant
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25


AAQMS Village Navinal
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25


AAQMS Village Zarpara
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25


AAQMS Village Vandh
120.0
100.0
80.0
60.0
40.0
20.0
0.0
PM10 µg/m3
PM2.5 µg/m3
SO2 µg/m3
NO2 µg/m3
NAAQMS CPCB Limit
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25

4.2 Ambient Noise

The ambient noise levels measured and analysed for equivalent noise levels viz. Leq (24hrly), Leq day, Leq night at all the noise monitoring locations.

Ambient Noise Level in Leq														
Sr. No	Location	Day Time Noise Level in Leq							Night Time Noise Level in Leq					
		CPCB Limits	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	CPCB Limits	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	PS (Pkt – 1)	75	57.2	55.5	57.4	58.9	59.5	59.4	70	45.9	46.1	47.1	48.6	49.8	48.3
2	PS (Pkt – 2)	75	56.9	56.2	58.9	59.4	60.1	58.2	70	46.0	45.1	46.0	47.6	48.7	47.3
3	PS (Pkt – 3)	75	59.3	57.7	59.1	59.1	60.3	59.6	70	46.2	47.2	47.7	49.4	51.8	49.5
4	Nr. Fab. & Batch. Plant	75	60.4	59.2	59.5	59.7	61.3	59.1	70	47.8	46.9	48.7	51.2	49.8	47.0
5	Vill - Navinal	55	47.3	45.4	45.8	47.4	47.8	45.1	45	39.7	37.3	37.1	40.2	39.7	37.3
6	Vill - Zarpara	55	49	49.1	49.5	52	52	52.7	45	37.6	34.6	36.6	40.8	43.2	41.0
7	Vill - Vandh	55	46	44.7	46.4	48.4	48.4	49.4	45	38.8	35.8	36.8	38.6	40.0	38.7

Report Ref. No.-

URA/24/10/AN-018 dt.30/10/24, URA/24/10/AN-020 dt. 30/10/24, URA/24/10/AN-017 dt. 30/10/24 , URA/24/10/AN-018 dt 30/10/24, URA/24/10/AN-012 dt 30/10/24. URA/24/10/AN-019 dt. 30/10/24 URA/24/10/AN-029 dt. 30/10/24

URA/24/11/AN-020 dt.30/11/24, URA/24/11/AN-022 dt.30/11/24, URA/24/11/AN-021 dt.30/11/24, URA/24/11/AN-018 dt.30/11/24, URA/24/11/AN-007 dt.30/11/24, URA/24/11/AN-018 dt.30/11/24, URA/24/11/AN-036 dt.30/11/24

URA/24/12/AN-037 dt. 04/01/25, URA/24/12/AN-041 dt. 04/01/25, URA/24/12/AN-040 dt. 04/01/25, URA/24/12/AN-038 dt. 04/01/25, URA/24/12/AN-036 dt. 04/01/25, URA/24/12/AN-039 dt. 04/01/25, URA/24/12/AN-020 dt. 04/01/25

URA/25/01/AN-031 dt.31/01/25, URA/25/01/AN-032 dt. 31/01/25, URA/25/01/AN-034 dt. 31/01/25 , URA/25/01/AN-033 dt 31/01/25, URA/25/01/AN-027 dt 31/01/25. URA/25/01/AN-028 dt. 31/01/25, URA/25/01/AN-026 dt. 31/01/25

URA/25/02/AN-038 dt.05/03/25, URA/25/02/AN-039 dt. 05/03/25, URA/25/02/AN-040 dt. 05/03/25, URA/25/02/AN-044 dt 05/03/25, URA/25/02/AN-037 dt 05/03/25. URA/25/02/AN-036 dt. 05/03/25, URA/25/02/AN-041 dt. 05/03/25

URA/25/03/AN-029 dt.27/03/25, URA/25/03/AN-030 dt. 27/03/25, URA/25/03/AN-033 dt. 27/03/25 , URA/25/03/AN-031 dt 27/03/25, URA/25/03/AN-034 dt 27/03/25. URA/25/03/AN-032 dt. 27/03/2025 URA/25/03/AN-028 dt. 27/03/2025

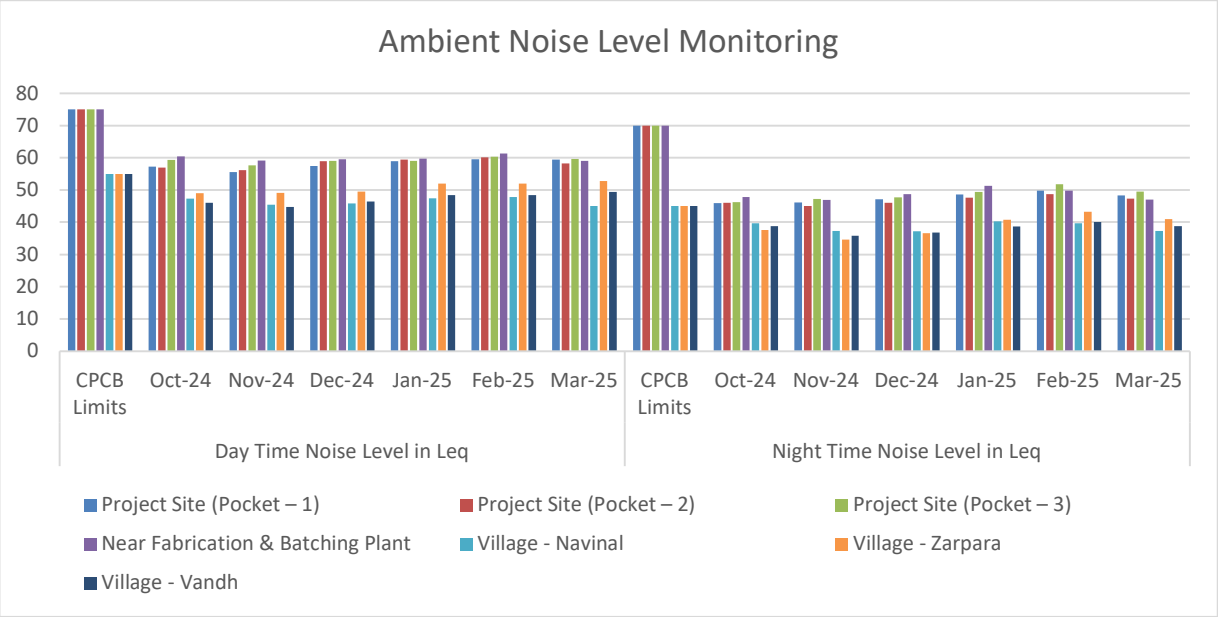
Observations

Industrial Zone

The Average Leq (equivalent continuous sound level) during the day for the industrial zone ranged from 61.3 dB(A) at Near Fabrication & Batching Plant to 55.5 dB(A) at Project site (Pocket-1). Similarly, the Leq during the night ranged from 51.8 dB(A) at Project site (Pocket-1) to 45.1 dB(A) at Project site (Pocket-2). Importantly, all these values remained within the CPCB (Central Pollution Control Board) limits specified for the industrial zone, both during daytime and night time.

Residential Zone

The Average Leq (equivalent continuous sound level) during the day in the residential zone varied from 52.7 dB(A) in Village Zarpara to 44.7 dB(A) in the village Vandh. Meanwhile, the Leq during the night ranged from 43.2 dB(A) in Village Zarpara to 34.6 dB(A) in Village Zarpara. It's worth noting that the ambient noise levels in these villages are affected by the local environment, and all the Leq values are compliant with permissible limits across all the villages.


Ambient Noise Level Monitoring
80
70
60
50
40
30
20
10
0
CPCB Limits
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25
CPCB Limits
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25
Day Time Noise Level in Leq
Night Time Noise Level in Leq
Project Site (Pocket – 1)
Project Site (Pocket – 2)
Project Site (Pocket – 3)
Near Fabrication & Batching Plant
Village - Navinal
Village - Zarpara
Village - Vandh

4.3 Water Quality

4.3.1 Ground Water Quality

Ground water was collected as grab samples from seven location sent to laboratory for analysis for various parameters.

The water quality findings from the ground water samples are outlined in the following table:

Sr. No.	Parameter	Unit	IS 10500 Standard Limits for drinking water		GW 01 Nani Khakhar	GW 02 Moti Khakhar	GW 03 Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	GW 07- Nana Bhadiya	GW 08 Deshalpar
			Desirable limit	Permissible Limit in the Absence of Alternate Source								
1	pH	pH scale	6.5-8.5	NR	8.35	8.36	8.16	8.36	8.38	8.42	8.38	7.92
2	Temp	o C	NS	NS	29.4	29.2	29.5	29	29	29.4	29.5	29.5
3	Turbidity	NTU	1	5	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
4	TDS	mg/l	500	2000	580	1832	1756	1484	1348	1332	1240	1840
5	Electrical Conductivity	µmhos/ cm	NS	NS	880	2712	2640	2220	2020	1992	1900	2911
6	COD	mg/l	NS	NS	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
7	BOD	mg/l	NS	NS	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
8	Phenol	mg/l	0.001	0.002	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL: .001)	BDL (MDL: .001)	BDL (MDL: .001)	BDL (MDL: 0.001)
9	Chlorides	mg/l	250	1000	144.2	937.3	565.8	461.5	426.8	402	390	970.4
10	Sulphate	mg/l	200	400	32.4	76.8	90	106.6	82.2	26.3	56	36.5
11	Total Hardness	mg/l	200	600	168	330	144	200	180	160	90	376
12	Ca++ Hardness	mg/l	NS	NS	100	160	74	110	84	60	46	190
13	Mg++ Hardness	mg/l	NS	NS	68	170	70	90	96	100	44	186

Sr. No.	Parameter	Unit	IS 10500 Standard Limits for drinking water		GW 01 Nani Khakhar	GW 02 Moti Khakhar	GW 03 Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	GW 07- Nana Bhadiya	GW 08 Deshalpar
			Desirable limit	Permissible Limit in the Absence of Alternate Source								
14	Total Alkalinity	mg/l	200	600	142	425	440	330	278	440	430	280
15	Nitrate	mg/l	45	NR	0.8	2.8	2.4	0.8	1.2	7.1	2	8.6
16	Fluoride	mg/l	1	1.5	0.4	2	0.55	1.25	1.02	4.35	1.5	0.68
17	Sodium	mg/l	NS	NS	86	520	478	392	384	368	278	510
18	Potassium	mg/l	NS	NS	2.4	9	5.1	4.2	3.9	4.6	5.6	4.5
19	Calcium	mg/l	75	200	40.1	64.1	29.7	44.1	33.7	24	18.4	76.2
20	Magnesium	mg/l	30	100	16.5	41.3	17	21.9	23.3	24.3	10.7	45.2
21	Salinity	mg/l	NS	NS	0.42	1.87	1.02	0.85	0.77	0.73	1.09	1.42
22	Total Nitrogen	mg/l	0.5	NR	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
23	Total Phosphorous	mg/l	NS	NS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	ND
24	Dissolved Oxygen	mg/l	NS	NS	6.7	6.4	6.5	6.8	6.6	6.5	6.6	6.3
25	Ammonical Nitrogen	mg/l	NS	NS	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
26	SAR	-	NS	NS	2.9	12.4	13.2	12.1	11.4	12.7	12.7	11.4
Heavy Metals												
27	Arsenic (as As)	mg/l	0.01	0.05	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
28	Cadmium (as Cd)	mg/l	0.003	NR	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
29	Chromium (as Cr)	mg/l	0.05	NR	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)

Sr. No.	Parameter	Unit	IS 10500 Standard Limits for drinking water		GW 01 Nani Khakhar	GW 02 Moti Khakhar	GW 03 Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	GW 07- Nana Bhadiya	GW 08 Deshalpar
			Desirable limit	Permissible Limit in the Absence of Alternate Source								
30	Copper (as Cu)	mg/l	0.05	1.5	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
31	Cyanide (as CN)	mg/l	0.05	NR	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
32	Iron (as Fe)	mg/l	0.3	NR	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
33	Lead (as Pb)	mg/l	0.01	NR	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
34	Mercury (as Hg)	mg/l	0.001	NR	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
35	Manganese (as Mn)	mg/l	0.1	0.3	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
36	Nickel (as Ni)	mg/l	0.02	NR	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)
37	Zinc (as Zn)	mg/l	5	15	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
38	Total Coliform	MPN	Shall not be detectable		Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
39	Faecal Coliforms	MPN	Shall not be detectable		Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
Report Ref. No. URC/24/XX/XXX & URB/24/XX/XXX					11/0605 11/0606	11/0603 11/0604	11/0545 11/0546	11/0575 11/0576	11/0573 11/0574	11/0601 11/0602	11/0571 11/0572	11/0622 11/0622

Observations :

These analysed results were subsequently compared against the IS:10500 Standard Limits for drinking water & are found well within Limits.

4.3.2 Surface Water Quality

Surface water sample were collected as grab samples from four location. Same has been sent to laboratory for analysis for various parameters.

The water quality findings from the surface water samples are outlined in the following table:

Sr. No.	Parameter	Unit	Classification for Inland Surface Water (CPCB)	SW 4 Nagavanti Nadi	SW 5 Zarpara village pond	SW 6 Navinal village pond	SW 07- Siracha village pond
			Class E	Nov-24	Nov-24	Nov-24	Nov-24
1	pH	pH Scale	6.5 to 8.5	8.38	8.10	8.04	7.84
2	Dissolved Oxygen	mg/l	NA	6.2	6.4	6.6	6.2
3	TDS	mg/l	2100	306	292	304	240
4	Electrical Conductivity	µmohs/cm	2250	515	450	502	370
5	BOD	mg/l	NA	6.4	3	4	2.4
6	Colour	Pt.co	-	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL(MDL:5.0)	BDL (MDL: 5.0)
7	Total Hardness	mg/l	NA	58	120	76	70.4
8	Ca++ Hardness	mg/l	NA	28	20	50	36
9	Mg++ Hardness	mg/l	NA	30	17	26	34
10	Chlorides	mg/l	600	16	99.3	90.2	140.2
11	Sulphate	mg/l	1000	6.4	17.6	12	24
12	Nitrate	mg/l	NA	0.5	BDL(MDL:0.1)	0.6	BDL (MDL: 0.1)
13	Fluoride	mg/l	-	BDL (MDL: 0.2)	0.46	0.65	0.034
14	Phenol	mg/l	NA	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL (MDL: 0.001)
15	Ammonical Nitrogen	mg/l	NA	BDL(MDL:0.2)	BDL(MDL:0.2)	BDL(MDL:0.2)	BDL (MDL: 0.2)
16	SAR		26	1.2	2.34	1.5	2.1
17	Copper (as Cu)	mg/l	NA	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL (MDL: 0.05)
18	Iron (as Fe)	mg/l	NA	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL (MDL: 0.1)
19	Manganese (as Mn)	mg/l	NA	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL(MDL:0.1)	BDL (MDL: 0.1)
20	Mercury	mg/l	NA	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL (MDL: 0.001)
21	Cadmium (as Cd)	mg/l	NA	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL(MDL:0.003)	BDL (MDL: 0.003)
22	Arsenic (as As)	mg/l	NA	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL (MDL: 0.01)

Sr. No.	Parameter	Unit	Classification for Inland Surface Water (CPCB)	SW 4 Nagavanti Nadi	SW 5 Zarpara village pond	SW 6 Navinal village pond	SW 07- Siracha village pond
			Class E	Nov-24	Nov-24	Nov-24	Nov-24
23	Cyanide	mg/l	NA	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL (MDL: 0.05)
24	Lead (as Pb)	mg/l	NA	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL (MDL: 0.01)
25	Zinc	mg/l	NA	BDL (MDL: 0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL (MDL: 0.05)
26	Chromium (as Cr)	mg/l	NA	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL (MDL: 0.05)
27	Boron	mg/l	2	BDL(MDL:0.5)	BDL(MDL:0.5)	BDL(MDL:0.5)	BDL (MDL: 0.5)
28	Total Coliform	MPN/100ml	-	Absent	Absent	Absent	Absent
29	COD	mg/l	-	12.2	32.4	20.2	12.2
			Report Ref. No.	URC/24/11/0695 URB/24/11/0695	URC/24/11/0609 URB/24/11/0610	URC/24/11/0607 URB/24/11/0608	URC/24/11/0697 URB/24/11/0697

Observations :

These analysed results were subsequently compared against the **Classification for Inland Surface Water (CPCB)** Class E & are found well within Limits.

4.3.3 Surface Water (Marine) Quality

Surface water (Marine) was collected as grab samples from three location. Same has been sent to laboratory for analysis for various parameters.

The water quality findings from the surface water (marine) samples are outlined in the following table:

Sr. No.	Parameter	Unit	Classification for Coastal marine water (CPCB)	SW 1- Intake channel of APL	SW 2- Kotadi Creek water	SW 3- Baradi mata creek
			SW I	Nov-24	Nov-24	Nov-24
1	pH	pH scale	6.5 to 8.5	8.33	8.46	8.44
2	Dissolved Oxygen	mg/l	5	6.4	6.2	6.5
3	Colour & Odour	-	No Colour No Odour	10 & Agreeable	10 & Agreeable	10 & Agreeable
4	Floating Matters	-	None	--	--	--

Sr. No.	Parameter	Unit	Classification for Coastal marine water (CPCB)	SW 1- Intake channel of APL	SW 2- Kotadi Creek water	SW 3- Baradi mata creek
			SW I	Nov-24	Nov-24	Nov-24
5	Total Suspended Solid	mg/l	None from Sewage or Industrial waste Origin	24	26	16
6	Turbidity	mg/l	-	5	1	0.1
7	BOD	NTU	-	2.8	5.5	3.8
8	Oil & Grease	mg/l	0.1	BDL(MDL:2.0)	BDL(MDL:2.0)	BDL(MDL:2.0)
9	Mercury as Hg	mg/l	0.01	BDL(MDL:0.001)	BDL(MDL:0.001)	BDL(MDL:0.001)
10	Lead (as Pb)	mg/l	0.01	BDL(MDL:0.01)	BDL(MDL:0.01)	BDL(MDL:0.01)
11	Cadmium (as Cd)	mg/l	0.01	0.05	0.06	BDL (MDL : 0.003)
12	Iron (as Fe)	mg/l	-	0.38	0.23	BDL (MDL : 0.1)
13	Manganese (as Mn)	mg/l	-	BDL (MDL : 0.1)	BDL (MDL : 0.1)	BDL (MDL : 0.1)
14	Total Coliform	ml (MPN)	-			
15	Sludge Deposits, Solid refuse floating Solids, Oil Grease and Scum	-	-	--	--	--
16	COD	mg/l	-	16.2	32.1	32.9
			Report Ref. No.	URC/24/11/0695 URB/24/11/0695	URC/24/11/0609 URB/24/11/0610	URC/24/11/0607 URB/24/11/0608

Observations :

These analysed results were subsequently compared against the Classification for Coastal marine water (CPCB)Class SW I & are found well within Limits

4.3.4 Sewage Water Quality

Sewage water samples was collected as grab samples from STP outlet and sent to laboratory for analysis for various parameters.

The water quality findings from the sewage water sampling locations are outlined in the following table:

Sr. No.	Location	MOEFCC Limits	STP Outlet					
			Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH @25°C	6.5 – 9.0	7.31	7.14	7	7.17	6.58	7.14
2	Total Suspended Solid	<50	18	18	28	22	26	24
3	Chemical Oxygen Demand (COD)	-	25.3	38.1	49	44.1	42.1	38.6
4	Biochemical Oxygen Demand (BOD) (5 days at 20 0C)	<30	8	7	17	9	21	16
5	Total Nitrogen	-	5.2	3.8	5.3	3.1	3.8	3.4
6	Total Phosphorus	-	2.1	1.7	1.6	1.5	1.8	2.2
7	Faecal Coliform	<1000	23	26	27	28	26	27

Report Ref. No. : URC/24/10/0350 dt. 23/10/2024, URC/24/11/0580 dt. 27/11/2024, URC/24/12/0166 dt. 02/01/2025, URC/25/01/0364 dt. 04/02/2025, URC/25/02/0618 dt. 04/03/2025, URC/25/03/0536 dt. 02/04/2025

Observations :

These analysed results were subsequently compared against the standards set by the Central Pollution Control Board (CPCB) are found well within Limits.

4.4 Soil Quality

Soil was collected as grab samples from four location & sent to laboratory for analysis for various parameters.

The soil quality findings from the soil samples are outlined in the following table:

Sr. No.	Parameter	Unit	ST1a Pocket 1	ST1c Pocket 2	Pocket 3
1	Porosity	%	47.3	33.4	33.4
2	Water Holding Capacity	ml/100 gm	30	30	30
3	Permeability	Cm/Sec	0.142	0.151	0.151
4	Particle Size Distribution				
a	Sand	%	72.2	76.8	76.8
b	Clay	%	9.6	10.6	10.6
c	Silt	NTU	18.2	12.6	12.6
5	Texture	%	Sandy Loam	Sandy Loam	Sandy Loam
6	Cation Exchange Capacity	--	26.2	25.9	25.9
7	SAR	meq/100g	3.85	3.3	3.3
8	Electrical Conductivity	--	142.2	350	350

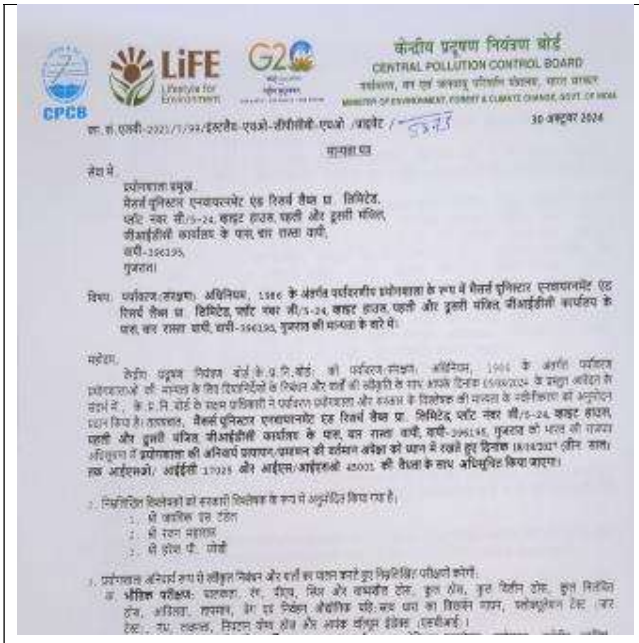
Sr. No.	Parameter	Unit	ST1a Pocket 1	ST1c Pocket 2	Pocket 3
9	Exchangeable Sodium	µs/cm	7.67	9.11	9.11
10	pH	%	9.3	7.9	7.9
11	Calcium	--	467.5	3056.9	3056.9
12	Magnesium	meq/100gm	141.7	99	99
13	Sodium	meq/100gm	370.3	419.6	419.6
14	Potassium	mg/kg	71.3	61.1	61.1
15	Total Organic Carbon	mg/kg	0.056	0.066	0.066
16	Available phosphorus	mg/kg	7.81	8.2	8.2
17	Available potassium	mg/kg	170.5	152.7	152.7
		Report Ref. No.	**URC/24/11/0691**	**URC/24/11/0692**	**URC/24/11/0693**

Observations :

These analysed results were subsequently compared against the standards set by the Central Pollution Control Board (CPCB) are found well within Limits.

ANNEXURE

Annexure 1: Laboratory Recognition by MOEFCC, NABL, GPCB Sch.II Auditor & NABET Certification



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD

30 अक्टूबर 2024

प्रमाण पत्र

सेवा में,

प्रयोगशाला प्रमुख,
मैसर्स यूनिस्टार एनवायरनमेंट एंड रिसर्च लैब प्रा. लिमिटेड,
प्लॉट नंबर सी/5-24, व्हाइट हाउस, पहली और दूसरी मंजिल,
जीआईडीसी कार्यालय के पास, चार रास्ता वापी,
वापी-396195,
गुजरात।

विषय: पर्यावरण (संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरणीय प्रयोगशाला के रूप में मैसर्स यूनिस्टार एनवायरनमेंट एंड रिसर्च लैब प्रा. लिमिटेड, प्लॉट नंबर सी/5-24, व्हाइट हाउस, पहली और दूसरी मंजिल, जीआईडीसी कार्यालय के पास, चार रास्ता वापी, वापी-396195, गुजरात की मान्यता के बारे में।

महोदय,

केंद्रीय प्रदूषण नियंत्रण बोर्ड के ए.पी.बोर्ड. को पर्यावरण (संरक्षण) अधिनियम, 1986 के अंतर्गत पर्यावरण प्रयोगशालाओं की मान्यता के लिए दिशानिर्देशों के निर्धारण और शर्तों की स्वीकृति के साथ आपके दिनांक 15/08/2024 के प्रस्ता आवेदन से संदर्भ में, के.प्र.नि.बोर्ड के सक्षम प्राधिकारी ने पर्यावरण प्रयोगशाला और रकअप के दिशानिर्देश की मान्यता के नवीनीकरण को अनुमोदित प्रदान किया है। तदनुसार, मैसर्स यूनिस्टार एनवायरनमेंट एंड रिसर्च लैब प्रा. लिमिटेड, प्लॉट नंबर सी/5-24, व्हाइट हाउस, पहली और दूसरी मंजिल, जीआईडीसी कार्यालय के पास, चार रास्ता वापी, वापी-396195, गुजरात को भारत की राजपत्र अधिसूचना में प्रयोगशाला की अनियमित प्रयासण/प्रावधान की वर्तमान अवैधता को ध्यान में रखते हुए दिनांक 18/12/2027 (तीन साल) तक आईएसओ/ आईईसी 17025 और आईएस/आईएसओ 45001 की वैधता के साथ अधिसूचित किया जाएगा।

1. निम्नलिखित विश्लेषकों को रकवारी विश्लेषक के रूप में अनुमोदित किया गया है।
   1. श्री जावेद इब्राहिम
   2. श्री रवन महाजन
   3. श्री हेमंत पी. सोनी

2. प्रयोगशाला अनियमित रूप से स्वीकृत नियमन और शर्तों का पालन करते हुए निम्नलिखित परीक्षणों करेगी:
   क. भौतिक परीक्षण: पारदर्शी, रंग, पीएच, निम्न और वर्णमाला टोन, कुल ठोस, कुल घुलित ठोस, कुल निलंबित ठोस, अविलेय, तापमान, ईसी एवं निर्देश जैविक ऑक्सीजन मांग, प्रयोगशाला टेस्ट (जार टेस्ट), रंग, स्वकलर, निस्तारण योग्य ठोस और आर्क सीमुल डेडेस (एसीजेई)।

Laboratory Recognition by MOEFCC

National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

UNISTAR ENVIRONMENT AND RESEARCH LABS PVT. LTD. (LABORATORY DIVISION)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

WHITE HOUSE, 1ST & 2ND FLOOR, PLOT NO. C/5/24, CHAR RASTA, VAPI, VALSAD, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-7753

Issue Date: 23/09/2022 Valid Until: 22/09/2024

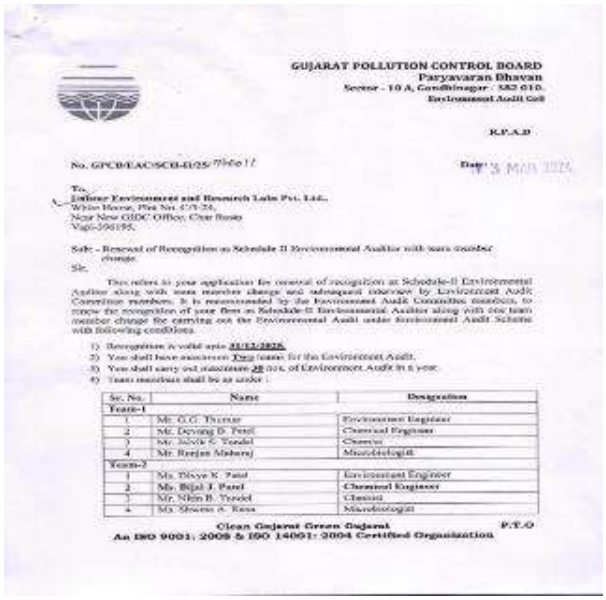
This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

Name of Legal Identity : UNISTAR ENVIRONMENT AND RESEARCH LABS PVT. LTD.

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

Laboratory Recognition by NABL



GUJARAT POLLUTION CONTROL BOARD
Paryavaran Bhavan
Sector - 10 A, Gandhinagar - 382 010.
Environment Audit Cell

R.P.A.D

No. GPCB/EAC/SCII-II/25/ Dated: 13 MAR 2024

To,
Unistar Environment and Research Labs Pvt. Ltd.,
White House, Plot No. C/5/24,
Near New GIDC Office, Char Rasta
Vapi-396195.

Sub: - Renewal of Recognition as Schedule II Environmental Auditor with team member change.

Sir,

This refers to your application for renewal of recognition as Schedule-II Environmental Auditor along with team member change and subsequent interview by Environment Audit Committee members. It is recommended by the Environment Audit Committee members, to renew the recognition of your firm as Schedule-II Environmental Auditor along with new team member change for carrying out the Environmental Audit under Environment Audit Scheme with following conditions.

1) Recognition is valid upto 31/12/2026.
2) You shall have minimum Two teams for the Environment Audit.
3) You shall carry out minimum 25 (six) of Environment Audit in a year.
4) Team members shall be as under :

Sr. No.	Name	Designation
Team-1		
1	Mr. G.C. Thumar	Environment Engineer
2	Mr. Devang B. Patel	Chemical Engineer
3	Mr. Jalvik C. Tandel	Chemist
4	Mr. Ranjan Mishra	Microbiologist
Team-2		
1	Ms. Divya K. Patel	Environment Engineer
2	Ms. Bijal J. Patel	Chemical Engineer
3	Mr. Nitin B. Tandel	Chemist
4	Mr. Shweta A. Rana	Microbiologist

Clean Gujarat Green Gujarat P.T.O
An ISO 9001: 2008 & ISO 14001: 2004 Certified Organization

Laboratory Recognition by GPCB

QUALITY COUNCIL OF INDIA

National Accreditation Board for Education and Training

Certificate of Accreditation

UniStar Environment and Research Labs Pvt. Ltd.

C-5/24, White House, Near GIDC Office, Char Rasta, Vapi Gujarat

The organization is accredited as Category-A under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3, for preparing EIA-EMP reports in the following Sectors -

S. No	Sector Description	Sector (as per) NABET	Sector (as per) MoEFCC	Cat.
1	Mining of minerals including opencast	1	1 (a) (i)	B
2	Metallurgical industries (ferrous & non-ferrous)	3	3 (a)	A
3	Manmade fibers manufacturing	19	5 (f)	A
4	Petrochemical based processing (processes other than cracking & reformation and not covered under the complexes)	20	5 (e)	A
5	Synthetic organic chemicals industry	21	5 (f)	A
6	Integrated paint industry	23	5 (h)	B
7	Building and construction projects	33	8 (a)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated April 28, 2023 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/18/2780 dated June 14, 2023. The accreditation needs to be renewed before the expiry date by UniStar Environment and Research Labs Pvt. Ltd., Vapi following due process of assessment.

Sr. Director, NABET
Dated: June 14, 2023

Certificate No.
NABET/EIA/2326/RA 0288

Valid up to
Feb 15, 2026

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

NABET Certification

Annexure 2: Calibration Certificates

UniStar
Environment and Research Labs Pvt. Ltd.

White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433866 / 2426610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024) | QCI-NABET Accredited EIA & GW Consultant Organization | GPCB Recognized Environmental Auditor (Schedule II) | ISO 9001 : 2015 Certified Company | ISO 45001 : 2018 Certified Company

Calibration Certificate

Instrument Name	:	Respirable Dust Sampler
Instrument ID No.	:	UERL/AIR/RDS/27
Instrument Sr. No. Supplier	:	1751-DTA-2013, 1142-DTA-2013
Calibration Certificate No.	:	UERL/CC/RDS-27/0802/24-25
Date of Calibration	:	02/08/2024
Next Calibration due Date	:	01/08/2025

Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Flow Meter	Top Loading Orifice Envirotech Calibration Laboratory Id No.: (UERL/MASTER/AIR/AA/MM/01)	ECL/UERLPL/2023-24/FLOW/2213 Date of Cali.: 06.08.2023
	ID. No. (UERL/AIR/RDS/FM/27)	Pressure Indicator Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/MECH /3353 Date of Cali.: 22.10.2022
2.	Time Totalizer	Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/ET/3351
	ID. No. (UERL/AIR/RDS/TT/27)	ID. No. (UERL/MASTER/AIR/TT/AA/01)	Date of Cali.: 22.10.2022
3.	Rotameter	Rotameter Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/FLOW/3355
	ID. No. (UERL/AIR/RDS/RM/27)	ID. No. (UERL/MASTER/AIR/RM/02)	Date of Cali.: 22.10.2022

- UNCERTAINTY MEASUREMENT: Flow Meter : ± 0.061 m³/min.
- UNCERTAINTY MEASUREMENT: Time Totalizer : ± 0.031 hour
- UNCERTAINTY MEASUREMENT: Rotameter : ± 0.160 LPM

The reported uncertainty is the expanded uncertainty in measurement at 95 % Confidence level with coverage fact or k = 2 which corresponds to coverage probability of approximately 95 % of normal distribution

Prepared By:

Senior chemist

Approved By:

Technical manager

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta,Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Calibration Certificate for RDS

UniStar Environment and Research Labs Pvt. Ltd.
White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195. Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

Calibration Certificate

Instrument Name	:	Respirable Dust Sampler
Instrument ID No.	:	UERL/AIR/RDS/34
Instrument Sr. No. Supplier	:	1768-DTB-2013, 1147-DTB-2013
Calibration Certificate No.	:	UERL/CC/RDS-34/0802/24-25
Date of Calibration	:	02/08/2024
Next Calibration due Date	:	01/08/2025

Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Flow Meter	Top Loading Orifice Envirotech Calibration Laboratory Id No.: (UERL/MASTER/AIR/AA/MM/01)	ECL/UERLPL/2023-24/FLOW/2213 Date of Cali.: 06.08.2023
	ID. No. (UERL/AIR/RDS/FM/34)	Pressure Indicator Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/MECH /3353 Date of Cali.: 22.10.2022
2.	Time Totalizer	Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/ET/3351
	ID. No. (UERL/AIR/RDS/TT/34)	ID. No. (UERL/MASTER/AIR/TT/AA/01)	Date of Cali.: 22.10.2022
3.	Rotameter	Rotameter Envirotech Calibration Laboratory	ECL/UERLPL/2022-23/FLOW/3355
	ID. No. (UERL/AIR/RDS/RM/34)	ID. No. (UERL/MASTER/AIR/RM/02)	Date of Cali.: 22.10.2022

- UNCERTAINTY MEASUREMENT: Flow Meter : ± 0.061 m³/min.
- UNCERTAINTY MEASUREMENT: Time Totalizer : ± 0.031 hour
- UNCERTAINTY MEASUREMENT: Rotameter : ± 0.160 LPM

The reported uncertainty is the expanded uncertainty in measurement at 95 % Confidence level with coverage fact or k = 2 which corresponds to coverage probability of approximately 95 % of normal distribution

Prepared By:

Senior chemist

Approved By:

Technical manager

Page 1 of 1

UERL/AIR/F-73/00

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta,Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Calibration Certificate for RDS

UniStar Environment and Research Labs Pvt. Ltd.
White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195, Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024) | QCI-NABET Accredited EIA & GW Consultant Organization | GPCB Recognized Environmental Auditor (Schedule-II) | ISO 9001 : 2015 Certified Company | ISO 45001 : 2018 Certified Company

Calibration Certificate

Instrument Name	:	Fine Particulate Sampler
Instrument ID No.	:	UERL/AIR/FPS/50
Instrument Sr. No. Supplier	:	APM – 550/129-DTL-2012
Calibration Certificate No.	:	UERL/CC/FPS-50/0803/24-25
Date of Calibration	:	03/08/2024
Next Calibration due Date	:	02/08/2025

Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Rotameter ID. No. (UERL/AIR/FPS/RM/50)	Envirotech Calibration Laboratory (New Delhi) ID No. (UERL/MASTER/AIR/RM/01)	ECL/UERLPL/2023-24/FLOW/2214 Date of Cali.: 06.08.2023
2.	Time Totalizer ID. No. (UERL/AIR/FPS/TT/50)	Envirotech Calibration Laboratory ID. No. (UERL/MASTER/AIR/TT/AA/01)	ECL/UERLPL/2022-23/ET/3351 Date of Cali.: 22.10.2022

- UNCERTAINTY MEASUREMENT: Rotameter : ± 0.475 LPM
- UNCERTAINTY MEASUREMENT: Time Totalizer : ± 0.031 hour

The reported uncertainty is the expanded uncertainty in measurement at 95 % Confidence level with coverage fact or k = 2 which corresponds to coverage probability of approximately 95 % of normal distribution.

Prepared By:

Senior chemist

Approved By:

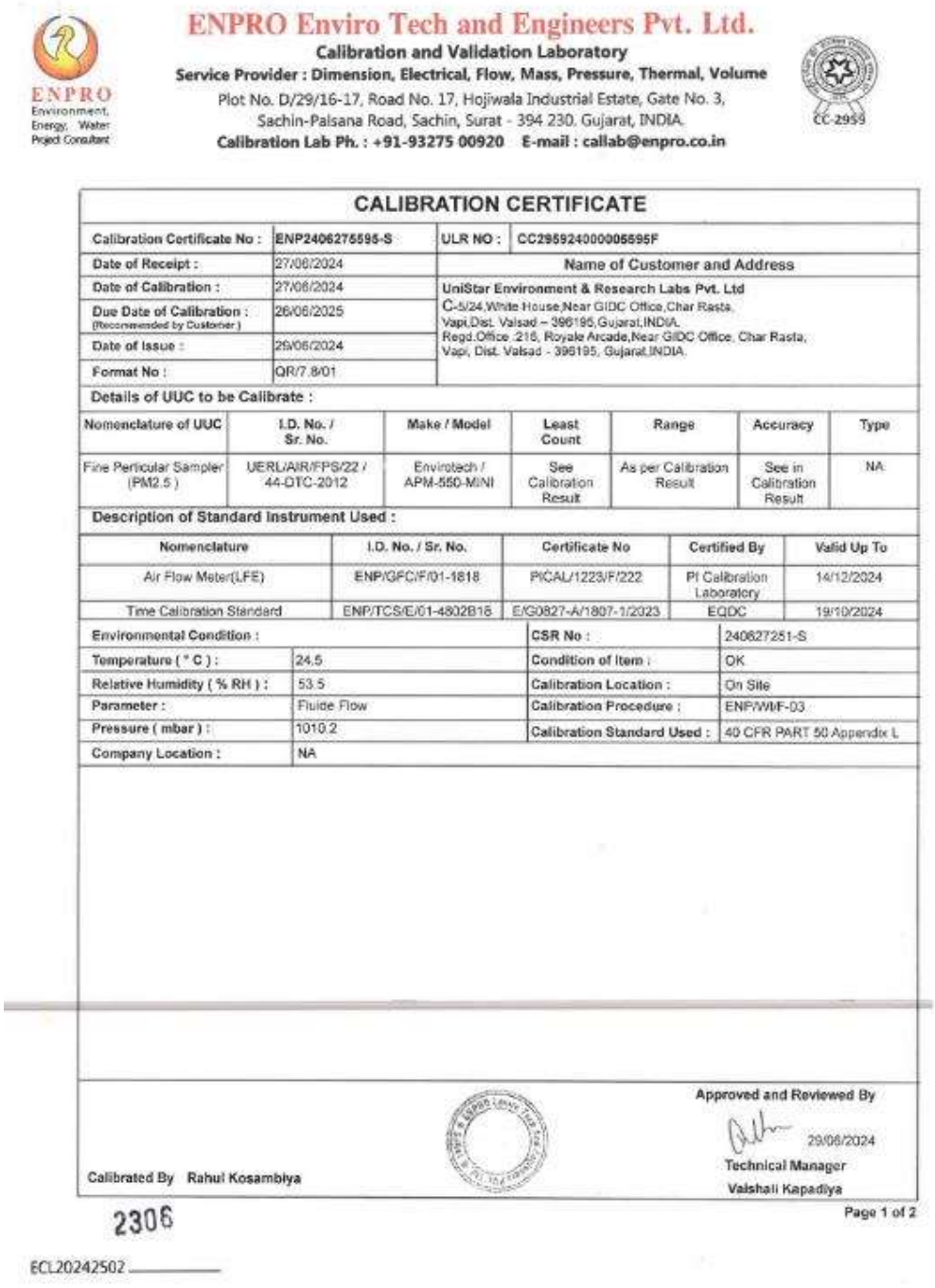
Technical manager

Page 1 of 1

UERL/AIR/F-75/00

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta,Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Calibration Certificate for PM 2.5



ENPRO Enviro Tech and Engineers Pvt. Ltd.
Calibration and Validation Laboratory
Service Provider : Dimension, Electrical, Flow, Mass, Pressure, Thermal, Volume
Plot No. D/29/16-17, Road No. 17, Hojiwala Industrial Estate, Gate No. 3,
Sachin-Palsana Road, Sachin, Surat - 394 230. Gujarat, INDIA.
Calibration Lab Ph. : +91-93275 00920 E-mail : callab@enpro.co.in

CC-2959

CALIBRATION CERTIFICATE

Calibration Certificate No :	ENP2406275595-S	ULR NO :	CC295924000005595F
Date of Receipt :	27/06/2024	Name of Customer and Address	
Date of Calibration :	27/06/2024	UniStar Environment & Research Labs Pvt. Ltd C-5/24,White House,Near GIDC Office,Char Rasta, Vapi,Dist. Valsad – 396195,Gujarat,INDIA. Regd.Office :216, Royale Arcade,Near GIDC Office, Char Rasta, Vapi, Dist. Valsad - 396195, Gujarat,INDIA.	
Due Date of Calibration : (Recommended by Customer)	26/06/2025		
Date of Issue :	29/06/2024		
Format No :	QR/7.8/01		

Details of UUC to be Calibrate :

Nomenclature of UUC	I.D. No. / Sr. No.	Make / Model	Least Count	Range	Accuracy	Type
Fine Particular Sampler (PM2.5)	UERL/AIR/FPS/22 / 44-DTC-2012	Envirotech / APM-550-MINI	See Calibration Result	As per Calibration Result	See in Calibration Result	NA

Description of Standard Instrument Used :

Nomenclature	I.D. No. / Sr. No.	Certificate No	Certified By	Valid Up To
Air Flow Meter(LFE)	ENP/GFC/F/01-1818	PICAL/1223/F/222	PI Calibration Laboratory	14/12/2024
Time Calibration Standard	ENP/TCS/E/01-4802B16	E/G0827-A/1807-1/2023	EQDC	19/10/2024

Environmental Condition :		CSR No :	240627251-S
Temperature (° C) :	24.5	Condition of Item :	OK
Relative Humidity (% RH) :	53.5	Calibration Location :	On Site
Parameter :	Fluide Flow	Calibration Procedure :	ENP/WI/F-03
Pressure (mbar) :	1010.2	Calibration Standard Used :	40 CFR PART 50 Appendix L
Company Location :	NA		

Approved and Reviewed By
29/06/2024
Technical Manager
Vaishali Kapadiya

Calibrated By Rahul Kosambiya

2306

Page 1 of 2

ECL20242502

Calibration Certificate for PM 2.5

Matrix Test & Cal LLP
CERTIFIED CALIBRATION & VALIDATION SERVICES
ilac-MRA
CC-2664

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF SOUND LEVEL METER	CERTIFICATE NO.: ML/MCH/0848/02/2024-25	
	Certificate Issue Date 08/07/2024	Page 1 of 1

1. Scope
1.1 Service Request Details — Calibration
1.1.1 Service Request No. — ML/0848/24-25
1.1.2 Service Request Finalized On — 04/07/2024
1.1.3 Unique Lab Report Number (ULR No.) — CC266424000061115F
1.1.4 Discipline / Group — Mechanical / Acoustics
1.1.5 Name & Address of Organization — UNISTAR ENVIRONMENT RESEARCH LABS PVT. LTD.
White House, 2nd Floor, Near G.I.D.C. Office, Char Rasta, Vapi, Gujarat, India, 396 195.

1.2 Item Details
1.2.1 Condition of the Item — Working
1.2.2

Nomenclature	SOUND LEVEL METER		
Make	Envirotech	Model No.	SLM 100
ID No.	UERL/AIR/SLM/098	Sr.No.	310-DTK-2015
Range	30 to 130 dB dB @1 kHz	Type	---
Least Count	0.1 dB @1 kHz	Accuracy / Accep. Crite.	NA
Department	---	Location	---

1.3 Item Received On — Dt. 05/07/2024
1.4 Details of Test Equipments Used

Instrument Name	Range	UID No.	Certificate No.	Make	Due Date
Sound Level Calibrator	94 dB & 114 dB	ML/MSLC/001	FCRI/NVL-C/0947/23/203	Lutron	23/08/2024

1.4.1 Operating Procedures Used: — ML/SOP/M/AC/001
1.4.2 Reference Standard: — IS : 9779:1981
1.5 Date of Calibration: — 06-July-2024
1.6 Recommended Due Date of Calibration: — 05-July-2025
1.7 OBSERVATIONS:
1.7.1 Laboratory Ambient: Temperature: 24.5 °C (25±3) Humidity: 56.3 %RH (50±20)
1.7.2 Parameter:Sound (dB @1 kHz)
1.7.3 CALIBRATION RESULTS

Sr. No.	Calibration Point	Set Value on Master (A)	Measured Value on IUC (B)	Error (B - A)	(±) Expanded Uncertainty
1	94	94	94.1	0.1	1.1 dB @1 kHz
2	114	114	114.4	0.4	1.1 dB @1 kHz

Note: The value mentioned above is the mean of 5 readings.

1.8 General Remarks:
- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for a normal distribution.
- Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.
- IUC* (Instrument Under Calibration)
- The Measurements are metrologically traceable to applicable national /International Standards.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the item calibrated.

Calibrated By: Hemant Patel, Calibration Engineer	AUTHORISED SIGNATORY
Ranjit Rohit / Hitesh Patel Technical Director / Quality Manager	

Matrix Test & Cal LLP * Vapi * 396195

**** End of Certificate ****

Doc. No. Format1, Amend 00 Dt. 01-01-2022

B-209 & B-210 2nd Floor, "B"Wing, M Cube,The Business Hub, Opp. Taluka Seva Sadan, Balitha. Vapi-396 195 Gujarat (India) Cell:098253 17475,Off: 097238 20970
Website : www.matrixlab.in, E-mail : info@matrixlab.co.in, matrixvapi@rediffmail.com

CERTIFICATE

Calibration Certificate for Sound Level Meter

Matrix Test & Cal LLP
CERTIFIED CALIBRATION & VALIDATION SERVICES

ilac-MRA

CC-2664

CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF SOUND LEVEL METER	CERTIFICATE NO.: ML/MCH/0848/01/2024-25	
	Certificate Issue Date 08/07/2024	Page 1 of 1

1. Scope

1.1	Service Request Details	Calibration
1.1.1	Service Request No.	ML/0848/24-25
1.1.2	Service Request Finalized On	04/07/2024
1.1.3	Unique Lab Report Number (ULR No.)	CC266424000061114F
1.1.4	Discipline / Group	Mechanical / Acoustics
1.1.5	Name & Address of Organization	UNISTAR ENVIRONMENT RESEARCH LABS PVT. LTD. White House, 2nd Floor, Near G.I.D.C. Office, Char Rasta, Vapi, Gujarat, India, 396 195.

1.2 Item Details

1.2.1	Condition of the Item	Working		
1.2.2	Nomenclature	SOUND LEVEL METER		
	Make	Envirotech	Model No.	SLM 100
	ID No.	UERL/AIR/SLM/09A	Sr.No.	24DTE2008
	Range	30 to 130 dB dB @1 kHz	Type	---
	Least Count	0.1 dB @1 kHz	Accuracy / Accep. Crite.	NA
	Department	---	Location	---
1.3	Item Received On	Dt. 05/07/2024		

1.4 Details of Test Equipments Used

Instrument Name	Range	UID No.	Certificate No.	Make	Due Date
Sound Level Calibrator	94 dB & 114 dB	ML/MSLC/001	FCRI/NVL-C/0947/23/203	Lutron	23/08/2024

1.4.1	Operating Procedures Used:	ML/SOP/M/AC/001
1.4.2	Reference Standard:	IS : 9779:1981
1.5	Date of Calibration:	06-July-2024
1.6	Recommended Due Date of Calibration:	05-July-2025
1.7	OBSERVATIONS:	
1.7.1	Laboratory Ambient: Temperature: 25.4 °C (25±3)	Humidity: 52.0 %RH (50±20)
1.7.2	Parameter:Sound (dB @1 kHz)	

1.7.3 CALIBRATION RESULTS

Sr. No.	Calibration Point	Set Value on Master (A)	Measured Value on IUC (B)	Error (B - A)	(±) Expanded Uncertainty
1	94	94	94.1	0.1	1.1 dB @1 kHz
2	114	114	114.5	0.5	1.1 dB @1 kHz

Note: The value mentioned above is the mean of 5 readings.

1.8 General Remarks:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for a normal distribution.
- Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.
- IUC* (Instrument Under Calibration)
- The Measurements are metrologically traceable to applicable national /International Standards.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the item calibrated.

Calibrated By: Hemant Patel, Calibration Engineer

AUTHORISED SIGNATORY

Ranjit Rohit / Hitesh Patel
Technical Director / Quality Manager

396195 MATRIX TEST & CAL LLP VAPI

End of Certificate

B-209 & B-210 2nd Floor, "B" Wing, M Cube, The Business Hub, Opp. Taluka Seva Sadan, Daman Road, Vapi-396 195 Gujarat (India) Cell:098253 17475,Off. 097238 20970
Website : www.matrixlab.in, E-mail : info@matrixlab.co.in, matrixvapi@rediffmail.com

CERTIFICATE

Calibration Certificate for Sound Level Meter

UniStar Environment & Research Labs Pvt. Ltd.

White House, Near GIDC Office, Char Rasta, Vapi,

Gujarat, India – 396195

Annexure – IV

Activities for Wildlife Conservation Plan

An awareness program on "Wildlife Conservation" was conducted in a nearby village. The program covered the need for wildlife conservation, its definition, importance, and methods. It also highlighted actions taken by Mundra Petrochem Limited in consultation with Adani Foundations for surrounding villages and coastal areas.

Status of Wild Life conservation plan.

Sr. No.	Activity	Villages / Area	Status	Remark
1	Plantation program for coservation of habitat	Nearby Villages	Fulfilled	88536+ trees have been planted at nearby villages.
2	Awareness programme for "Wild life" Conservation – Educational Program.	Tunda (1st Year)	Fulfilled *	Awareness programme have been conducted under Eco Club Programne.
		Vandh (2nd Year)	Fulfilled *	
		Navinal (3rd Year)	Fulfilled*	Awareness programme Have beenconducted under Eco Club Programne.
		Siracha (4th Year)	Fulfilled*	
		Kandagra (5th Year)	Fulfilled*	Awareness programme have been conducted under Eco Club Programne.
3	Artificial Concreate water pond of 1000 lit capacity to provide drinking water facility for wild animals.	2 villages in study area	Fulfilled	2 Nos. "Guzzler" – Drinking water facilities of more than 1000 liters capacity have been provided for wild life animals at the locations recommended by District Forest Department, Gov. of Gujarat.
4	Mangrove Plantation (1000 no. of plant per Ha.)	Near by project area.	Fulfilled	10000 numbers of mangrove plantation have been done in vicinity of plant premises.

* : 70 number of schools from neaby 16 villages and includes mundra and Mandavi towns have been covered under "ECO CLUB" which are formed for generating awareness on environmental best practices, wildlife conservation, Mangrove conservation, sustainability and Earth eco system.

Wildlife awareness programs have been conducted at schools of nearby villages under the Eco Club initiative. 70 schools from surrounding villages, including Mundra and Mandavi town areas, participated in these programs aimed at promoting environmental awareness on topics such as wildlife conservation, alternatives to single-use plastics, and mangrove conservation.

Over 6000 students participated in these programs, gaining an understanding of the importance of their local area and the dependence of life on barren land as well as coastal regions.

Students were also educated about the sanctuary and reserve forest areas located in the district and the measures taken to protect wildlife.

Mangroves are salt-tolerant trees and shrubs that thrive in coastal intertidal zones. These remarkable ecosystems are found in the coastal areas of Mundra and Mandavi talukas near the MPL premises. Mangrove forests are essential not only to the health of coastal environments but also to the communities that rely on them. This report highlights the significance of mangrove conservation.

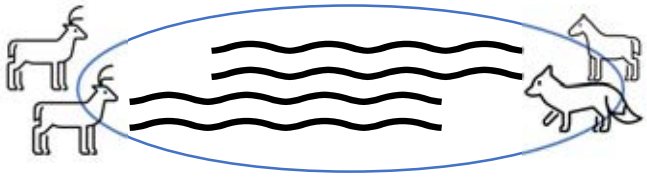
Mangrove plantation in an area of 7+ Ha have been carried out at nearby PVC Project area – Kotadi Creek with planting 72000+ numbers of mangrove species.



The theme – "Mangroves: Vital Guardian of Coastal Ecosystems" highlighted their role in protecting coastlines, supporting fisheries and sustaining local communities. Biodiversity expert from the company, Professors from the collages elaborated the importance of mangroves with how mangroves provide myriad of ecological, economic and social benefits. This awareness session also emphasized on how mangrove serve as critical habitats for a wide array of marine and terrestrial species, including fish, birds and invertebrates. The dense root systems of mangroves stabilize shorelines, preventing erosion and protecting coastal areas from the impacts of storms and rising sea levels.


Awareness sessions were conducted among the employees of MPL about the ecological and global importance of wildlife and biodiversity. Understand the significance and entire phenomenon of Kutch's unique ecosystems.

Furthermore, in accordance with the approved wildlife conservation plan, two "Guzzler" drinking water facilities for wild animals have been constructed in consultation with and under the supervision of the District Forest Department, Kutch, at the Reserve forest area, Navinal Dhuvo, near Bardimata Temple.



2 numbers of Guzzler have been constructed at Reserve forest area, Navinal Dhuvo, Near Baradi Mata Mandir, Navinal

Letter from Forest Department for Completion of "GUZZLER" – Drinking water facilities for animals.

પ્રતિ શ્રી,

મુન્દ્રા પેટ્રોકેમિકલ્સ લિમિટેડ (અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ),

વેસ્ટ પોર્ટ રોડ,
ગામ: વાંઢ / ટૂંડા
તાલુકા: મુન્દ્રા

વિષય: નવીનાળ ઢૂવા ખાતે "ગઝલર્સ" (કુલ સંખ્યા – ૨) - પાણી ના પોઇન્ટ નું નિર્માણ – બાબતે.

સંદર્ભ: પીસીસીએફ, ગુજરાત પત્ર નં. WLP/32/C/297-298/2022-23, તા: ૧૮.૦૬.૨૦૨૨.

પ્રતિ શ્રી,

સાદર ઉપરોક્ત વિષયના સંદર્ભમાં જણાવવાનું કે, ચીફ વાઇલ્ડ લાઇફ વોર્ડન, ગુજરાત દ્વારા મંજૂર કરાયેલ વાઇલ્ડ લાઇફ સંરક્ષણ યોજના ઓ માની એક કામગીરી જેવી કે, નવીનાળ ઢૂવા ખાતે આરક્ષિત જંગલ વિસ્તારમાં આવેલ બરડી માતા ના મંદિર નજીક "ગઝલરર્સ" (કુલ સંખ્યા – ૨) - વન્ય પ્રાણી માટે પાણી ની સુવિધા નું નિર્માણ અમારી જાણ અંદર સફળતાપૂર્વક પૂર્ણ થયું છે જે તે વિસ્તાર માં વસતા વન્ય જીવનના આરામ અને મૂળને પૂર્ણ કરશે.

તમારો આભાર,

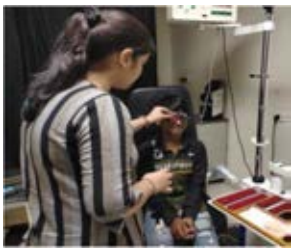
રેન્જ ફોરેસ્ટ ઓફિસર
મુંદ્રા નોર્મલ રેન્જ

Annexure - V

MUNDRA PETROCHEM LIMITED

Corporate Environmental Responsibility

October 2024–March 2025



Contents

1. EXECUTIVE SUMMERY

This report highlights the significant accomplishments of Mundra Petrochem Limited (MPL)'s Corporate Environmental Responsibility (CER) initiatives for the fiscal year 2024-25. MPL remains dedicated to effecting positive change within the communities adjacent to its project activities, with an emphasis on environmental sustainability, community empowerment, and promoting a healthier society.

Educational Initiatives.

Addressing the Sustainable Development Goal of providing quality education, MPL's education initiative focuses on developing infrastructure, providing necessary resources to students, and promoting girl child education through awareness campaigns. There are several gaps in the educational system in the region that need to be addressed, and through systematic planning and execution, MPL's team is enhancing the quality of education in the area.

As part of this initiative, over 750 students attended a Career Counseling Seminar. More than 82 students were provided with transportation for pick-up and drop-off to attend school. Additionally, over 350 students received educational kits, including those designed for ITI students. School furniture was supplied to schools in Modhava village, and eight teachers have been appointed under the "Utthan" Sahayak program to enhance the educational skills of students. Educational awareness programs have been conducted by field experts, emphasizing the importance of environmental sustainability in daily life.

Skill development programs for young individuals have also been implemented, including a self-defense training program at Zarpara Girls Primary School, which had over 85 participants. School infrastructure improvements include the provision of adequate toilet facilities for female students, furniture, paver blocks, and a Saline Water Reverse Osmosis (SWRO) unit to provide safe drinking water. Efforts also include strengthening sanitation and hygiene within school premises.

Community Health Initiatives.

MPL's primary assessment identified the local fishing community as one of the most vulnerable. The goal of this initiative is to support the fishing community, including by providing essential medical assistance and health education. The project aims to reach over 60,000 people in 16 villages through disease prevention awareness drives, family planning workshops, menstrual hygiene and nutrition workshops, and general health sessions.

Under this initiative, more than 1,100 patients were examined. Among them, 453 patients were diagnosed with eye flu and treated by an eye specialist, while 98 patients were examined by a gynecologist, 537 patients were treated by general doctors, and 11 patients were examined by a pediatrician.

Additionally, a menstrual health awareness session was organized for girls and women. Hospital infrastructure improvements, including modern equipment for burn and intensive care units (ICU), were provided at GK & GAIMS Hospital in Bhuj to support burn cases within a 200 km radius. Clean and safe drinking water was made available to villagers and students through the installation of SWRO units in the villages of Tunda and Zarpara.

Sustainable Livelihood and women Empowerment.

MPL has organized programs to empower women, foster sustainable livelihoods, and cultivate environmental awareness within the community.

In coastal communities, women play a vital role in the fishing industry. They have been educated on hygiene and best practices for the fishing business. Additionally, menstrual health awareness initiatives have engaged over 100 women. Financial empowerment programs have supported over 300 marginalized fisherfolk community women. To improve women's health and hygiene, more than 450 sanitary pads were distributed.

Sustainable infrastructure projects included check dam restoration, percolation well construction, river and stream cleaning, culvert construction, and rooftop rainwater harvesting systems. Renovation of the check dam benefitted over 160 farmers by storing more than 180,000 cubic meters of water. Additionally, 122 percolation wells have been constructed, along with river/stream cleaning and pond deepening efforts. Culvert construction has supported irrigation for 38 hectares of land, benefiting more than 105 farmers.

Furthermore, over 165 rainwater harvesting systems were installed in the nearby community areas, increasing clean and safe drinking water capacity by approximately 1,650,000 liters, which achieved water-positive status in over three villages.

Community tree plantations covered an area of 9 acres, resulting in the planting of over 24,300 trees in FY 2024-25. Additionally, more than 500 farmers received assistance in cultivating fruit-bearing trees. An Eco Club was established for the community, involving 70 schools and over 6,000 students in environmental and sustainability awareness initiatives. A mangrove conservation awareness session engaged around 100 students.

A significant awareness drive on alternatives to single-use plastic (SUP) was organized, with participation from over 6,000 students.

Community Rural Infrastructure Development.

The Community Rural Infrastructure Development program by MPL encompasses a wide range of initiatives aimed at enhancing the living standards in rural areas. It focuses on water conservation through measures such as check dam restoration, de-siltation, and bore well recharge structures.

Road repair work was carried out in nearby villages and fisherfolk community areas. Paver blocks were installed in common gathering areas. Clear water facilities with a capacity of 20,000 liters were provided for household animals. Rooftop rainwater harvesting systems were installed in nearby villages.

Additionally, four SWRO units, with capacities of 3,000 liters per hour, 50 liters per hour, and 150 liters per hour, were provided for clean water in Tunda and Zarpara villages, benefiting villagers and students. School furniture and other infrastructure were also constructed in nearby villages.

An overview of CER Expenditure by MPL for the year 2024 – 2025:-

Sr. No.	Sector	CER Expenditure 2024 - 2025 (INR)
1	Educational Initiatives.	7367709
2	Community Health Initiatives.	18875165
3	Sustainable Livelihood and women Empowerment.	2966715
4	Community Rural Infrastructure Development.	15413381
5	Monitoring & Reporting	2462342
	Total	**47085312**

i.e. Approximate INR 470.853 Lakhs

Total CER expenditure incurred in various community welfare & eco – development activities was approximate INR 1301 Lakhs cumulative till March, 2025 including expenditure occurred INR 470.853 Lakhs for the year 2024 – 2025.

2. ABOUT MUNDRA PETROCHEM LTD

Mundra Petrochem Limited (MPL), a step-down subsidiary of Adani Enterprises Limited, is an emerging company with a substantial vision. MPL aims to become a significant player in India's petrochemical sector. The company's primary focus is on developing a greenfield PVC complex strategically located within SEZ notified land of Adani Ports and Special Economic Zone (APSEZ) at Mundra, Gujarat.

MPL's mission extends beyond production; it is dedicated to pioneering sustainable practices within the industrial sector, in alignment with the Adani Group's commitment to national development. The state-of-the-art facility is currently under engineering design, incorporating advanced technologies to minimize environmental impact. This commitment is further demonstrated through MPL's focus on community development via various Corporate Environmental Responsibility (CER) initiatives.

With pre and full operations of proposed project anticipated to commence in Jun-2026 and Oct-27, respectively, MPL is expected to create significant economic opportunities for the region. By promoting sustainable practices and empowering local communities, MPL aspires to set a benchmark for responsible industrial development in India.

MPL's Corporate Environmental Responsibility (CER) program surpasses mere carbon reduction efforts. It embodies a holistic approach grounded in rigorous scientific methodologies. This comprehensive initiative addresses environmental concerns while enhancing ecological resilience and empowering local communities. The subsequent sections of this report will explore the impactful outcomes achieved through MPL's extensive CER program.

3. SECTOR IDENTIFICATION BASED ON THE "CER" MANDATE

Mundra Petrochem Limited (MPL)'s CER action plan has been approved by the MoEF&CC as part of Environmental Clearance (EC) for the PVC project activities. As per the action plan, the activities were divided into four major impact sectors: -

- **Educational Support.**
- **Community Health Initiatives.**
- **Sustainable Livelihood & Women Empowerment.**
- **Community Rural Infrastructure Support.**

This report outlines the interventions implemented by MPL as part of the CER initiative. It provides a concise overview of the project details, including input, output, outcome, and impact (where applicable). The programs or activities carried out by MPL were in strict adherence with the provisions of action plan approved by the MoEF&CC, addressing the concerns raised during the public hearing process of the project activity.

4. CER INITIATIVES & INTERLINKAGE WITH SDGs.

Mundra Petrochem Limited has established a benchmark in business practices that extend beyond regulatory requirements, with the goal of creating a better world. Consequently, we have invested in initiatives designed to generate the maximum positive impact in the shortest time frame with long-lasting effects. Mundra Petrochem Limited's operations are aligned with Sustainable Development Goals—social, economic, and environmental—underpinned by a robust governance framework.

- End hunger and ensure access to safe, nutritious and sufficiant food.
- End all form of malnutrition.
- Ensure sustainable food production system and implement resilient agricultural practice.
- Investment in rural infrastructure.

- Promoting natural farming for a healthy lifestyle and conducting health camps to address the health issues.

- Ensure that all girls and boys complete free equitable and quality primary and secondary education.
- Bulding and upgrading education facilities.
- Providing transportation and school stuffs to students to attend the hasslefree education system.

- End all form of discrimination agaist all women and girls.
- Ensure women's full and effective participation
- Creating an inclusive environment for women in the community through participation in the decision-making process and other activities.

- Restoring water bodies and encouraging water harvesting through participatory actions
- Protect and restore waterrelated ecosystems
- Support and strengthen the participation of local communities in improving water and sanitation management.

- Promoting use of biogas for clean and affordable energy solution

- Full and productive employment and decent work for all women and men Creating livelihood opportunities for women and youth through skilling programs

- Empower and promote the social, economic and Ensure equal opportunity & reduce inequalities of outcome.
- Adopted policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality.

- Providing holistic solutions through water management, sustainable agriculture, green energy, and resilience building through health and disaster management.

- Promoting green areas through plantation, preserving, and restoring mangrove ecosystems, and commencing IEC based awareness activities for building environmental stewardship.

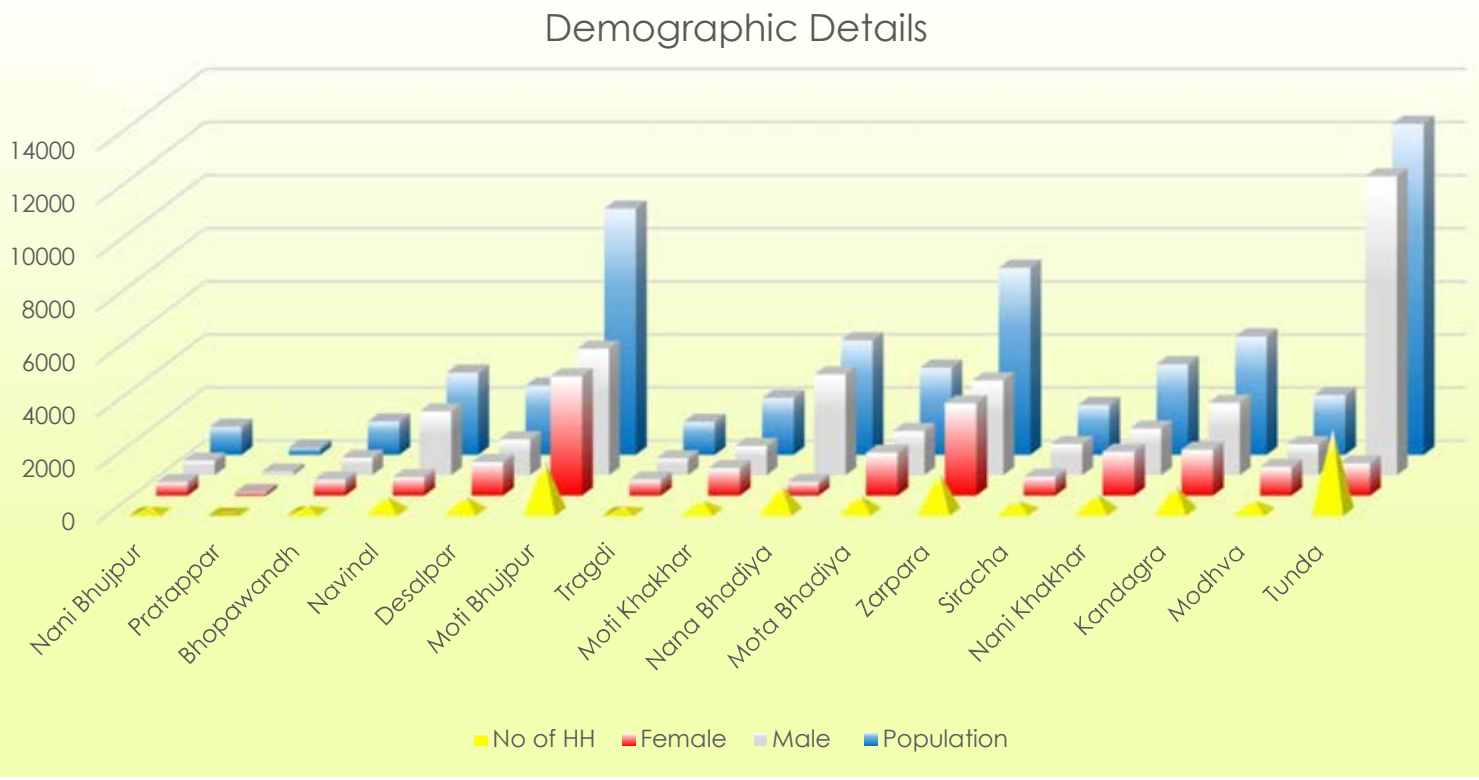
- Dedicated efforts are made to restore the mangrove ecosystem which supports many marine life forms.
- Sustainably manage and protect marine and coastal ecosystem.

- Increased afforestation and reforestation.
- Reduce the degradation of natural habitats, halt the loss of biodiversity.
- Integrate ecosystem and biodiversity values.
- Conservation of the local ecosystem through restoration action and mobilizing communities to minimize plastic consumption.

5. ABOUT REGION

Mundra, historic port town in Gujarat's Kutch district, boasts a hot, arid climate with rich biodiversity despite limited rainfall. Located on the Gulf of Kutch at around 46 feet elevation, this census town reflects the cultural diversity of the district. The ecology is surprisingly vibrant with mangroves and birdlife, but water scarcity necessitates conservation efforts. Mundra's industrial growth ingredients by sustainable development practices.

Demographic details the 16 study villages of Mundra are as under[1]:

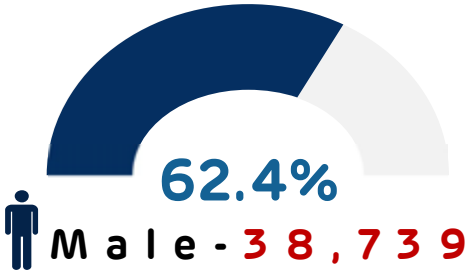


Sr. No.	Village Name	Population	Male	Female	No of HH
1	Nani Bhujpur	1056	551	505	210
2	Pratappar	268	136	132	48
3	Bhopawandh	1250	650	600	250
4	Navinal	3100	2406	694	602
5	Desalpar	2611	1350	1261	581
6	Moti Bhujpur	9278	4777	4501	1979
7	Tragdi	1238	636	602	216
8	Moti Khakhar	2139	1101	1038	436

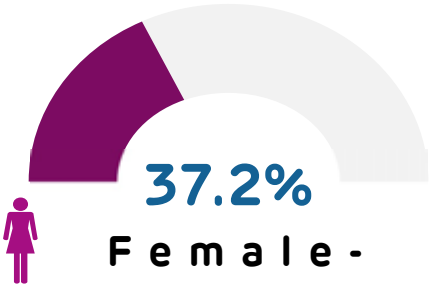
Sr. No.	Village Name	Population	Male	Female	No of HH
9	Nana Bhadiya	4318	3805	513	1011
10	Mota Bhadiya	3284	1669	1615	624
11	Zarpara	7052	3572	3480	1506
12	Siracha	1879	1171	708	429
13	Nani Khakhar	3412	1758	1654	691
14	Kandagra	4461	2729	1732	1015
15	Modhva	2250	1167	1083	450
16	Tunda	12471	11261	1210	3134

[1] The data is source from the Census, 2011

Total- 60,067



Male- 38,739



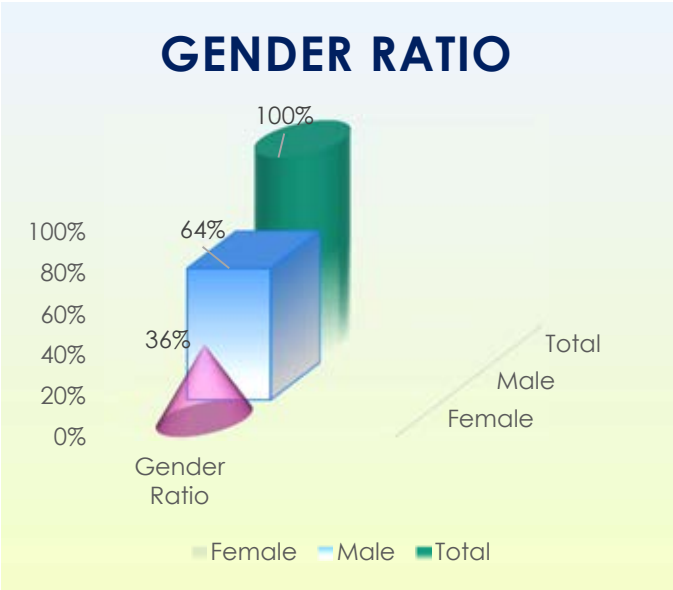
Female- 21,328

Household- 13,182

The chart presents the population data across different villages. Tunda, Moti Bhujpar has the highest population at 12,471 and 9278 respectively, significantly larger than most other villages. Zarpara and Kandagra also have relatively high populations. Several villages like Nani Khakhar and Desalpar have populations of around 3,000 to 4,000.

The chart highlights the variation in population size across rural areas, with some villages being quite populous while others have very small populations like Pratappar with just 268 residents. This data provides insights into the demographic distribution and density patterns in the region.

5.1 GENDER RATIO



In the collective populace of 16 villages, males significantly surpass females at a ratio of 9 to 1. Tunda village exhibits the most pronounced gender disparity, with males constituting 90% of its inhabitants. Across these villages, there are a total of 13,182 households, with Tunda boasting the highest count and Pratappar the lowest.

This disparity highlights a notable trend in gender distribution within rural communities, underscoring the need for further examination of socio – cultural dynamics and their implications on population demographics and societal structure.

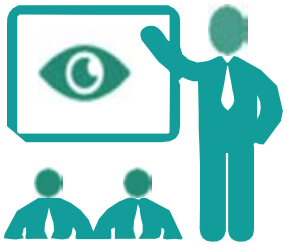
6. EDUCATION PROMOTIONAL INITIATIVE.

In this era of shaping future, the role of corporate responsibility in fostering sustainable development and empowering communities cannot be overstated. One such commendable endeavor is the "**Project Utthan**", Education Initiative undertaken by Adani Foundation (Under CSR), which stands as a testament to the organization's commitment towards creating a positive impact in society. The Utthan Initiative encompasses a multifaceted approach to enhance educational infrastructure, empower local institutions and foster community development. Through strategic interventions spanning infrastructure support, capacity building and community engagement, Adani Foundation (under CSR) has endeavored to address the educational needs of underserved communities and contribute to their holistic development. Mundra Petrochem Limited has supported various education promotion initiatives undertaken by Adani Foundation (under CSR / CER).

6.1 KEY INTERVENTIONS

Infrastructure Support to Local Institutions

MPL's commitment to improving educational infrastructure is exemplified by various initiatives, including the provision of essential resources such as office stationery, clean and Hygiene water availability, Additionally, constructing a sanitary facilities and renovating the primary school in underscore MPL's dedication to creating conducive learning environments for students.



Training & Capacity Building

Recognizing the pivotal role of educators in shaping young minds, MPL has invested in capacity building measures by hiring Utthan Sahayak and Shikshan Sahayak for government primary schools. Moreover, the distribution of education kits further empowers teachers and students with the necessary tools for effective learning and skill development.

Community Support

MPL's Education Initiative extends beyond the confines of school premises, reaching out to the broader community. By arranging transportation for underprivileged students, MPL ensures access to education for all, irrespective of socio-economic barriers. Furthermore, initiatives such as women awareness programs contribute towards fostering a more inclusive and empowered society.

6.2 RESULT AND OUTCOMES OF THE "UTTHAN" INITIATIVE.

This chapter details the significant achievements of the Education support initiative, highlighting improved educational access, enhanced learning outcomes and empowering students within the community.

Addressing the SDG of providing quality education, MPL's education institution in the form of developing infrastructure, providing necessary resources to students and encouraging girl child education through awareness. There are several gaps in the educational system in the region which need to be addressed and through systematic planning and execution, MPL's team is enhancing the quality of education in the region.

SOCIAL IMPACT

6.2.1 EDUCATIONAL KIT – SYLLABUS BOOKS SUPPORT

1168 Books for 276 students

ITI students were supported by providing syllabus Books to elaborate and strengthen the skill / knowledge for Plumbing, Wireman, Computer Operator and Programming Assistant (COPA) Electrician, Welder, Fitter and Mechanic Diesel. Books remain an indispensable resource for students as they serve as a foundational pillar, offering a structured and comprehensive approach to learning. Through this, students can unlock the opportunities for industrial employment or self-employment, so that area can be improved educationally and economically.

140+ students benefited with educational kits like, School bags, books, stationary items, Guidebooks, notebooks, etc.

Through these initiatives, students are able to interact daily school work and better at home as well.

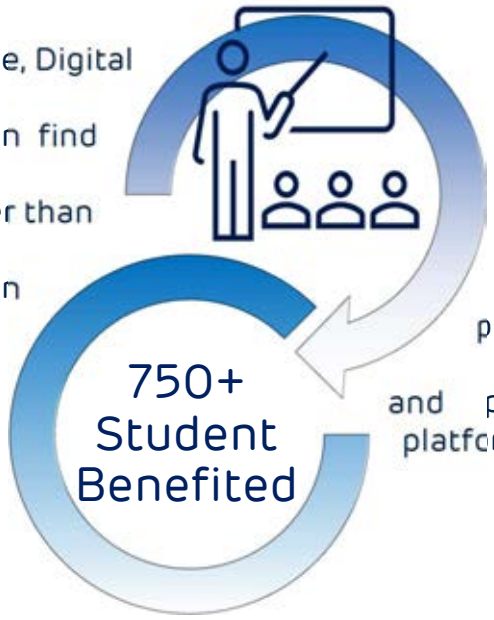
6.2.2 CAREER COUNSELING SEMINAR.

Mundra Petrochem Ltd., Adani Foundation and Kachchmitra have organized a mega career counseling seminar, at GKGH, Bhuj.

This seminar deeply focused on the different careers paths that students can chose after the 10th & 12th Standard. Students can understand his / her own ability to grow their career in skilled been developed within. So that, they can pick right path in so many career options.

This seminar has encompassed:

- Discussion on job profiles related to AI, Data science, Digital Marketing, and Technical trades.
- Shared government websites where students can find detailed information about job profiles in technical trades.
- Parents are advised to become pillars of trust rather than asserting ownership over their children.
- Unveiled a QR code, through this, students can virtually explore the "Yearly Career Guidance Book" published by the Education Department, Gujarat government.
- This seminar is not only benefited the students and parents of Kutch but also broadcasted live on digital platforms to reach students and parents across India.



6.2.3 HIGHER EDUCATIONAL OPPORTUNITIES FOR MARGINALIZED COMMUNITIES.



Reason for providing facilities:

- Not enough economical ground to support the expenses of high school.
- High Schools are very limited in fisherfolk villages, making it hard for families to afford transportation costs.
- The foundation of students is very poor due to negligence in primary education.
- Parents are uneducated and busy with daily labor, leaving no time to support their children education.

Impact of Providing facilities:

- To provide safe and reliable transportation for the children of the fisherfolk community.
- Vehicle transportation (two way) facilities are provided to more than 82 students - pick up & drop to attend the school.
- This initiative has significantly reduced transportation challenges and improved school attendance which contributes better educational outcomes. Drop out ratio have been reduced by 87%.
- Students from villages like Modhava, Tragadi Bandar & Zarpara Bandar are facilited.

6.2.4 "UTTHAN" SAHAYAK - TEACHERS

- Total 8 numbers of "Utthan" sahayak – teachers have been provided to fill the gape and enhance students' learning capacities, provided essential facilities to school and achieve better learning outcomes at the grassroots level.
- The Project focuses on transforming government primary schools into model institutions by implementing the following key initiatives.

Strengthening Government Primary Schools	Appointing an Utthan Sahayak	Providing Resources and Facilities	Introducing Vedic Math's & Abacus	Capacity Building for Government School Teachers	Special Focus on 'Priya' Vidyarthi's (Progressive Learners)	Training Students for Competitive Exams
Adopting and upgrading government primary schools to model schools.	Assigning a dedicated facilitator in each school to act as a catalyst for change.	Ensuring schools are equipped with necessary resources and infrastructure	Increasing students' logical and mathematical skills through Vedic Math's and Abacus training.	Conducting training programs to improve teachers' skills and teaching methods.	Providing additional support and tutoring for progressive learners.	Preparing students for various competitive examinations.

6.2.5 SKILL DEVELOPMENT PROGRAM

50+ Girls students participated.

Beauty Parlor is a field that involves ongoing learning and skills development due to its dynamic and evolving nature. By focusing on essential skills, participating in training programs, and adopting strategies for continuous improvement, participants can enhance their expertise and provide high-quality services to their clients, thereby increasing their economic value.

19 Girls

11 Boys

Total 30 numbers of young youth have attended Domestic Data Entry Operator (DDEO) - Skill development program.

6.2.6 AWARENESS THROUGH "BUILDING AS LEARNING AID (BALA)

Building as a Learning Aid (BaLA) offers a dynamic and multifaceted approach to the education. By incorporating wall painting activities into the curriculum, educators can enhance creativity, problem solving skills, and collaboration among students. As Mundra Petrochem Limited has relentlessly supporting to explore innovative teaching methods, building as a learning aid holds great promise for fostering a deeper and more engaging learning experience.

Under the Building as a Learning Aid (BaLA) initiatives, school walls and surfaces are transformed into learning aids, featuring educational concept like:

- Alphabets and numbers for foundational learning.
- Scientific diagrams to support STEM education.
- Maps and historical timelines for broader knowledge.
- The paintings are designed to be durable and require minimal upkeep, ensuring long -term benefits.

44 schools benefited

8590+ students interacted daily.

6.2.7 SELF DEFENSE TRAINING FOR GIRLS STUDENTS

To empower adolescent girls with self-defense skills and awareness to ensure their safety and boost confidence in challenging situations.

- ✓ 85+ Girls students participated
- ✓ Practical self-defense techniques and safety awareness were taught.
- ✓ Emphasis on recognizing good touch vs bad touch and knowing when to seek help.
- ✓ This empowers the girls by equipping them with skills and confidence to protect themselves and recognize unsafe situations.
- ✓ Promoting their overall safety and well-being.

6.2.8 SCHOOL INFRASTRUCTURE

MPL is deeply intended to create structure that has meaningful OR positive out come for the long lasting period. Further, this can improve the beauty of the educational institutions, so that students have positive impress to love the school environment. Considering this, MPL has constructed area with "Paver Blocks" at primary schools.

373 + students have access to clean water

Considering initiatives for clean water and sanitation for all, MPL has installed Saline Water Reverse Osmosis (SWRO) units having capacity of 50LPH at Primary school of Tunda Village and 150 LPH at Girls School of Zarpara village. More than 373 students are benefiting with this service.

Hygienic Sanitation Initiative is essential to address the lack of proper sanitation and hygiene facilities in schools as well as Girls hostel. This will encourages girls to promote better menstrual hygiene and aims to change regressive norms and practices related to menstruation.

100 + Girls students benefited

To create an engaging and nurturing environment for young children in Zarpara Primary School by constructing a dedicated Balvatika that support their mental and physical development through creative and educational activities.

To create an engaging and nurturing environment for young chlidren in Zarpara Primary School by constructing a dedicated Balvatika that supports their mental and physical develoment through creative and educational activities.

6.2.9 SPORT FACILITIES & EQUIPMENTS AT SCHOOLS

A critical component of this domain is the availability and use of appropriate sport equipment. For students, sport equipment is not merely about facilitating play but is integral to enhance health, developing skills, and improving academic performance. It is a fundamental aspect of promoting physical health, developing essential motor and cognitive skills, fostering social interactions, boosting confidence, and encouraging lifelong fitness habits.

Sport equipment for Archery have been provided to state level sport student to enhance the competitive sport activities at school level.

Ground mats are essential components in sports activities, providing both protection and a suitable playing surface. Further, ground mats provide the crucial role in sports by providing safety, performance and durability like Mates cushion falls and reduce the risk of injuries including it offers a stable, non – slip surface that enhance players' ability and speed and withstand the rigors of intense physical activity.

6.2.10 SCHOOL FURNITURE SUPPORT

- School furniture for students have been provided at Government School, village Modhava.

6.2.11 EDUCATIONAL AWARENESS PROGRAM

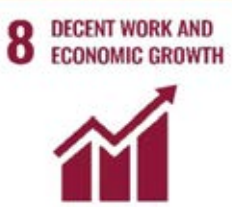


Environmental awareness program were conducted at more than 18 schools and about 2000 students were participated. In addition to this, villagers have also included in the awareness sessions and these sessions focused on sustainable practices and the importance of environmental conservation, particularly highlighting the need to reduce plastic usage and promote eco – friendly alternatives.


Education awareness sessions were conducted in fisherfolk Vasahat, Vadi vistar – Village Farm Residence areas of nearby villages to highlight the importance of education, particularly girl–child education.

To educate childrens on plastic free ecosystem, Eco-clubes were established for raise the climate change awarness. So, far 72 Utthan Sahayak have been trained who reaching over 6000+ studets through awarness seminar.

6.2.12 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

	The education support initiative enhances quality education and equal access, directly contributing overall goal of inclusive, equitable education for all. Ensure that all girls and boys complete free equitable and quality primary and secondary education. Building and upgrading education facilities. Providing transportation and school stuffs to students to attend the hassle-free education system.
	The education support initiative promotes gender equality by ensuring equal educational opportunities and empowering girls. End all form of discrimination against all girls through education.
	The education support initiative fosters economic growth by providing skills and knowledge. Full and productive employment and decent work for all women and men Creating livelihood opportunities for all and youth through skilling programs.
	The education support initiative reduces inequalities by providing equitable access to education.

7. COMMUNITY HEALTH INITIATIVES

MPL's primary assessment of the project revealed that the local fisherman community is one of the most vulnerable communities. The project aimed to empower fisherman community including villages like Navinal, Tragadi, Modhva, and Zarpara by providing vital medical assistant and health education. Through preventive disease awareness drives, family planning workshops, menstrual hygiene, nutrition workshops, and general health sessions, the project aim to reached over 60,000 peoples in 16 villages. This holistic approach led to a lasting impact: women gained knowledge to plan their families and stay healthy, while adolescents and women received support for menstrual hygiene and proper nutrition. Most importantly, the project fostered a sense of community by forming a Self-Help Group, ensuring this newfound knowledge continues to empower future generations.

7.1 KEY INTERVENTIONS

Medical Support

Medical support in the form of medicine, vaccine, testing and blood testing facilities are provided by Mundra Petrochem under CER to the local community members.

Menstrual Hygiene Workshops

The workshop aimed to address the gap in knowledge and access to proper menstrual hygiene management (MHM) resources faced by women and girls in the area. During the workshop Adolescent and women are supported for Menstrual hygiene awareness and capacity building trainings.

Health Awareness Workshop

Awareness sessions were organized by the MPL team with a special focus on the importance of vaccination, clean water, sanitation, and mental health.

Nutrition Workshop

Workshops focused on promoting healthy eating habits and tackling malnutrition in the project villages. Local residents participated in interactive sessions led by nutrition experts. Participants learned practical tips on food preparation, storage, and techniques to maximize nutrient intake.

7.2 RESULT AND OUTCOMES OF THE "COMMUNITY HEALTH" INITIATIVE.

This chapter outlines the significant achievements of the Community Health Initiatives being implemented by Munda Petrochem Limited under CER, detailing improvements in Health, outcomes, increased awareness and enhanced well – being within the community.

7.2.1 MEDICAL CAMP FOR COMMUNITY

A medical health checkup camp is an initiative designed to provide comprehensive medical examinations and screenings to a community. These camps are instrumental in promoting health awareness, early detection of diseases and facilitating timely medical intervention.

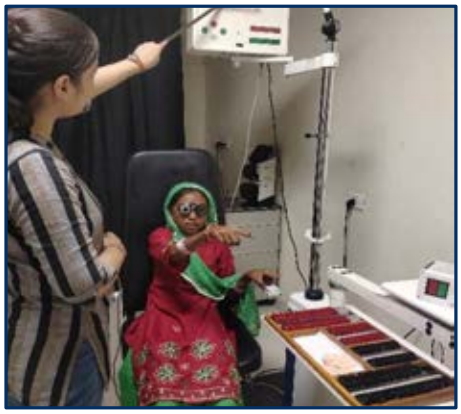
The objectives of a medical health checkup camp are:

Early Detection	Health Awarness	Accessibility	Community Health
•Identifying health issues at an early stage allows for more effective treatment and management	•Educating the community about common health problems, preventive measures and healthy lifestyle choices.	•Providing healthcare services to underserved or remote areas where medical facilities may be limited.	•Improving the overall health status of the community by addresing prevalent health concerns.

A comprehensive medical camp have been organized at nearby villages by Mundra Petrochem Limited. This camp have been organized with a dedicated teams of doctors, the camp catered to diverse health needs of the community. Each patient received personalized attention through check -ups and tailored prescriptions.

The team of doctors have Eye specialist, Gynecologist, General Doctors and Pediatricians.

This initiative underscored the critical importance of early detection and treatment of eye – related issues, ensuring the people specially children have a better chance at maintaining healthy vision as they grow.





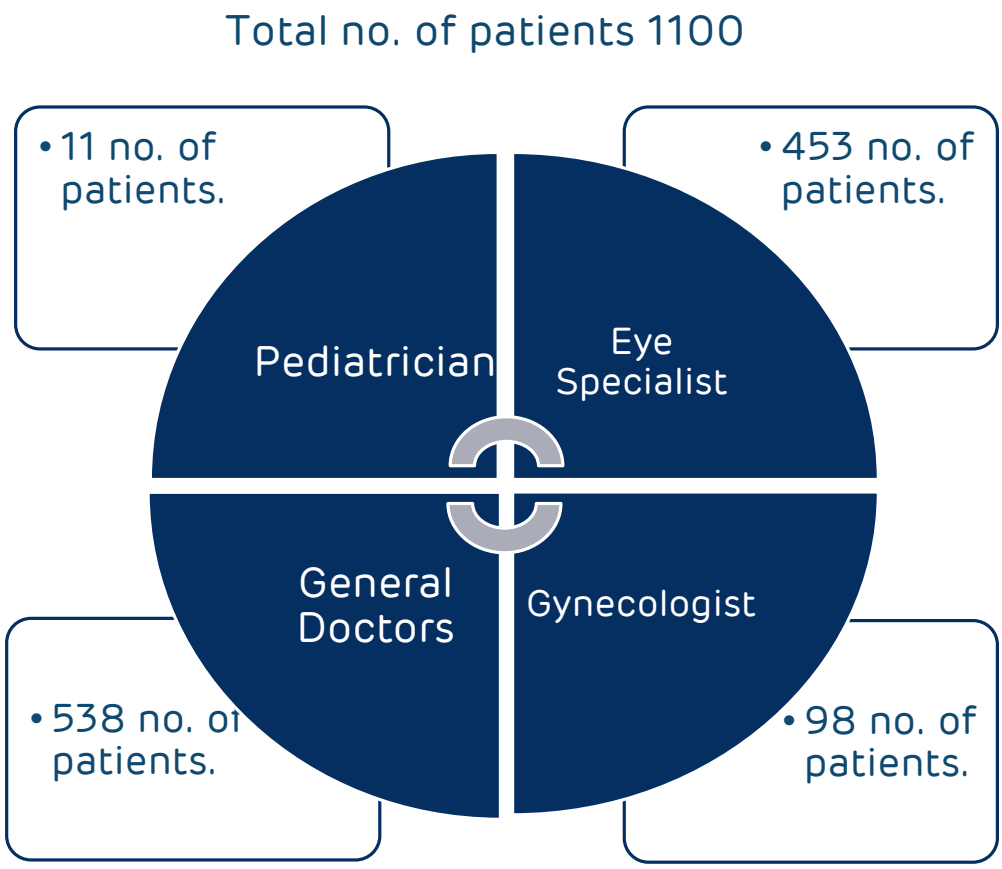
453+ Patients examine for Eye treatment.

To underscored the critical importance of early detection and treatment of eye-related issues, ensuring the children have a better chance at maintaining healthy vision as they grow.

The camp conducted in the schools and villages area. Eye check -up and health assessments have been carried out to identify common issues such as fungal infections, irritation and vision impairments often linked to coastal environmental conditions. All the patients received treatments like antifungal eye drops, lubricating drops, and oral medications. In addition to medical care, parents of students were educated on eye hygiene and preventive measures.

Regular follow-up check-ups were scheduled to monitor long term eye health and community awareness campaigns were launched to promote proper eye care. These efforts helped address immediate health concerns and instill sustainable practices, improving the overall health of the patients and the community.

Health camp participants:



Photographs of Health Camp at Nearby villages

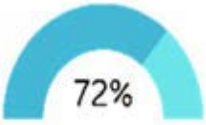
184 + Senior Citizens have attended General Health Camp which makes vital health services accessible and convenient.

Facilitated for multiple tests at one location such as:

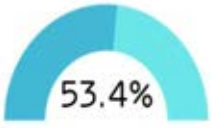
- ESR (Erythrocyte Sedimentation Rate)
- Serum Creatine.
- SGPT (Serum Glutamic Pyruvic Transaminase)
- Total Cholesterol.
- Random Blood Sugar.
- Complete Blood Test.

Further, this monsoon seasons, rainfall for region of the Mundra and Mandavi Taluka is higher then regular rainy season. Considering this scenario special health camp for rainy impacted area have been organized.

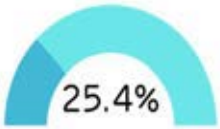
After heavy rain fall, 352+ villagers have been undergone for General Medical health check up. Following values observed:



Infected from Eye Flu



Suffering from Skin disease



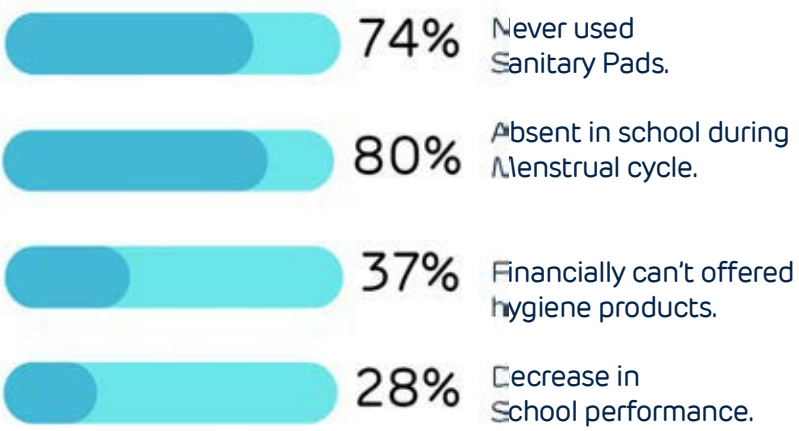
Distress with Gynec. diseases

7.2.2 MENSTRUAL HEALTH AWARNESS.

A comprehensive program on sanitary napkin distribution and menstruation hygiene was conducted at nearby villages with aiming to educate and empower them on menstrual health management. This initiative specifically targeted over 50 teenage girls and women from the villages.

Outcome of these awareness program:

Survey done in the event:



Outcome of the event

- Successfully educated all attendees on the importance of menstrual hygiene.
- Provided sanitary napkins.
- Assured them of reduced costs for future purchases.
- Encouraged them to prioritize health and hygiene over consuming additive items, fostering a positive shift in their habits.

7.2.3 HOSPITAL INFRASTRUCTURE

The Kutch region has a population of over 22 lakhs. To support this population, the Burn & Intensive Care Unit at GK & GAIMS General Hospital in Bhuj has been established with advanced facilities, modern technology, and specialized burn care. This unit aims to provide financial relief to patients and offer comprehensive care that addresses the physical, emotional, and psychological needs of burn patients.

The Burn & Intensive Care Units at GK & GAIMS, Bhuj has:

26 General Bed + 4 ICU Bed	Minor & Major Operational Theater Room	Dressing Room	Emergency Service 24 X 7

Impact of the Burn Care & Intensive Care Unit:

Directly benefits to 22 lakhs of people in kutch by providing timely and advanced burn care

Increase the survival rate of burn victims by offering immediate medical attention within the district

Reduces the risk of infections that can arise from long distance travel emergency situations.far

Alleviates the finacial strain on patients and their families by providing affordable and accessible healthcare locally.

STRENGTHENING COMMUNITY HEALTH CENTER

CHC having **1.5+ Lakhs** peoples uses medical facilities.

Infrastructure Improvement	Maternity Ward Hygiene upgradation.	Equipment & Technician support	Ambulance Services
• Comfortable resting areas for patient convenience. • Safe drinking water facility. • Aesthetic enhancement.	• Improved sanitation and hygiene conditions for safer maternal care	• Diagnostic room enhancement with essential medical equipment. • Technician assistance for accurate and timely medical analysis.	• Strengthened emergency response, covering remote areas.

7.2.4 COMMUNITY HEALTH – CLEAN WATER FACILITIES

Kutch Region is a water scarcity region and having saline coastal area for Mundra & Mandavi taluka, the availability for clean water is less for the live. The main objective of providing saline water reverse osmoses units at village Tunda is to serve clean water for the villagers as more than 10000 peoples are benefiting from the services. This purified water will enhance the quality of life and promote health in rural areas. This service is ensuring that students and people have continued access to clean & safe drinking water.

The installation of the RO plants has directly improved access to clean water, positively impacting the health and daily lives of the village community and school children.

7.3 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

3 GOOD HEALTH AND WELL-BEING	The healthcare initiative improved community well-being, aligning with the goal by enhancing access to essential health services and promoting healthy lives.
10 REDUCED INEQUALITIES	The healthcare initiative reduced inequalities by providing equitable access to medical services, aligning with overall goal of reducing disparities.

8. SUSTAINABILITY LIVELIHOOD AND WOMEN EMPOWERMENT

This chapter dives into the impact of MPL's comprehensive program on women empowerment and skilling. Further, how this program empowers women, fosters sustainable livelihoods and cultivates environmental awareness within the community. This chapter highlighted MPL's focus on building a better future and emphasizing the program's multifaceted approach.

8.1 KEY INTERVENTIONS

Women Empowerment

Women empowerment is a multifaceted concept that encompasses a range of activities at improving the economic, social and cultural status of women.

Skill Development

Skill development initiatives were caried out with the aim of building capacity for the local community members and help them become more employable through skill enhancement.

Sustainable Infrastructure

In an era marked by rapid urbanization and climate change, the pursuit of sustainable infrastructure has become imperative. Sustainable infrastructure refers to designing, constructing and maintaining systems that meet the needs of the present without compromising the ability of future generations to meet their own needs.

Climate Action

Community tree plantation and rural tree plantation activities have been carried out with aim to improve the green surface and carbon sequestration. Tree plantation is a vital activity that contributes significantly to the preservation of our environment. It involves planting trees in a planned to restore, conserve and enhance the natural landscape.

SOCIAL & ENVIRONMENTAL IMPACT

8.2 WOMEN EMPOWERMENT

In coastal communities, women play a vital role in the fishing industry, yet they often face challenges in maintaining hygiene standards while handling fish and lack access to knowledge about fishing business opportunities. To address these issues and empower women from the fishermen community, MPL has conducted an awareness campaign for the fisherman community. The aim for this awareness program is hygiene practices and fishing business education.

Hygiene Awareness

- ✓ Wash hand before & after handling fish.
- ✓ Use gloves to minimize direct contact.
- ✓ Store fish properly to maintain freshness.
- ✓ Regularly sanitize equipment.

Fishing Business Education

- ✓ Market insights: Understand local demand and pricing.
- ✓ Financial management: Budgeting and pricing strategies.
- ✓ Networking: Connect with industrial peers and experts.

25+ fisher women participated under awareness session.

8.3 HEALTH AND NUTRITION CAMP FOR WOMAN

Agenda

- ✓ Health awareness sessions focused on children's nutrition.
- ✓ Conducted based on Integrated Child Development Services, a government program in India focused on the wellbeing of children under 6 years and their mother.
- ✓ Educated mother on the role of essential nutrients and the impact of nutritional deficiencies.
- ✓ Provided practical example on incorporating nutritious, home-cooked meals and reducing junk food.
- ✓ Facilitated an interactive session where mothers actively participated and raised queries.

Impact

- ✓ Increased awareness among mothers about healthy dietary practices for their children.
- ✓ Empowered mothers to make informed nutrition choices, promoting healthier eating habits.
- ✓ Supported the prevention of malnutrition and improved the overall health and wellbeing of children in the community.
- ✓ Contributed to building a healthier, more informed community focused on child nutrition.

Further, with vision to empower women through comprehensive education, health initiatives and financial independence, fostering community support and sustainable development, MPL has provided training on menstrual health and hygiene and proper nutrition to 5000+ women.

2 Self Help Groups over 50 women

In each group to foster skill development and collective growth.

Financial empowering over 300

marginalized fisherfolk community women.

MPL aim to improve menstrual health among women by promoting the use of sanitary pads, thereby enhancing hygiene, comfort and overall well – being during menstruation.

- To address specific challenges and needs related to menstrual hygiene in the local fisher community.
- Many women in the community currently use cloth due to traditional practices and lack of awareness.
- It is an informative sessions with over 50 women, on the benefits of sanitary pads. They offer better hygiene, reduce the risk of infections and provide greater comfort and protection during menstruation. Sanitary pads also provided to encourage the transition from the cloth.

450+ Sanitary pad distributed

8.4 SWAVLAMBAN INITIATIVE

48+ beneficiaries

Innovative Mobility Solutions Program – "Fitting of Aids / Appliances items for Differently abled persons to make them Physically and Economically Fit" conducted for the nearby villagers.

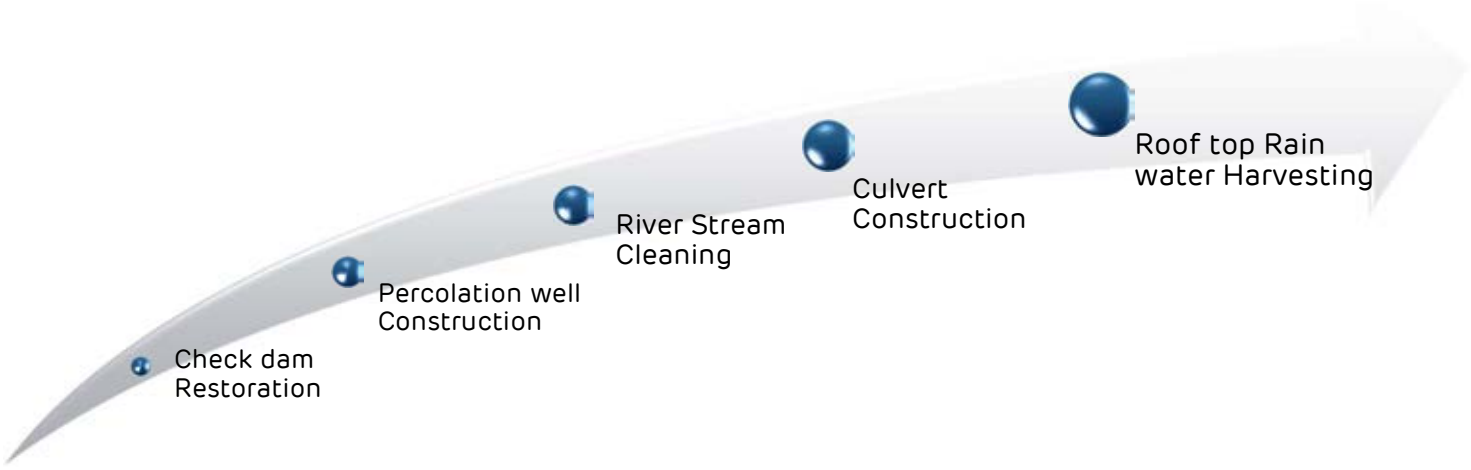
In this interpret, supporting and promoting self-reliance and welfare for differently abled individuals through the provision of aids and appliances. These devices enhance physical capabilities and economic opportunities by addressing the specific needs of each person, allowing them to lead more independent and productive lives.

This support includes items such as wooden cabins, battery-operated tricycles for those with mobility impairments, electrician kits, hand carts, harmoniums, hearing aids, livestock care kits, plumbing kits, printers, sewing machines, tricycles, tyre puncture repair kits, and wheelchairs.

8.5 SUSTAINABLE INFRASTRUCTURE

MPL's vision is to make 16 villages' water positive under MPL-CER activities through better percolation of water into the ground increasing water table and water quality.

The action plan is:



Check Dam Restorations:

- 60+ farmers benefited for agricultural purposes.
- ,80,000+ cubic meter water stored.
- Enough water resources for nearby villagers.

Percolation well construction:

122+ percolation well been constructed.

Water table level increases.

Salinity of ground water Decreases

Rever / Stream Cleaning & Pond Deepening:

cleaning of River / stream and pond deepening have been carried out.

Free flow of water up to the dam or Pond have been ensured.

21+ percolation well have been cleaned.

Water Storage Capacity increased.

Construction of Box Culvert for free flow of water into the Pond.

Benefited 38 hectors of land

105 + farmers benefited.

6800+ Cubic Meter water storage capacity increases.

Roof Top Rainwater Harvesting:

165 + RRWH constructed.

Increase clear drinking water capacity by 16,50,000 Liter.

3+ villages are water positive and till date cumulative there are 6+ villages are water positive.

8.6 CLIMATE ACTION

The climate crisis is one of the most pressing challenges of this period. To preserve biodiversity, sustainably utilize ecosystems, maintain essential ecological process and local communities through innovative climate action.

8.6.1 TREE PLANTATION

MPL has carried out tree plantation, as the process of planting trees in a targeted area and considering same is a critical environmental activity that supports biodiversity, combats climate change and promotes the overall health of the ecosystem. This practice has gained significant global attention, as the world grapples with the adverse effects of deforestation, urbanization and environmental degradation.

Tree plantation have been done with more than 10000+ trees (Native Species) at Nani Khakhar. The same plantation is being maintained by the expert.

Tree Plantation done at Borana with 14000+ native species. Further, tree plantation having 300 numbers of native species have been done at Road side from Tunda to Bhadia which are being maintain by M/s Sadbhavna Manavseva Trust and experts.

Total 24,300+ trees have been planted at nearby villages to combat climate change and enhance biodiversity. Further, 88536+ numbers of cumulative trees have been planted at nearby villages for the period up to March, 2025.

Miyawaki tree plantation & Drip irrigation methods were used.

M/s Manvseva Charitable Trust and M/s Yash Green are the Expert to maintain the trees to get survival rate more than 98%.

Survival rate of trees are 98% +

9+ acre land were used for tree plantation

CO_2 Sequestration

2124.864+ tCO_2e will Seq.

500+ farmers were assisted in cultivating fruit – bearing trees.

Increasing their income and promoting sustainable agriculture.

Biodiversity Boost – Birds are resting & roosting at tree plantation area.

Icrease the organic fertility for the soil.

Increase the CO2 Sequestration, so as, clean air.

8.6.2 ECO – CLUB: AN INITIATIVE TOWARDS GREEN FUTURE

MPL is dedicated to promoting a sustainable and eco-friendly future. Thus, MPL is creating Eco-clubs in schools that educate students about environmental conservation, promote plastic – free living and inspire sustainable practices for climate action.

70 Schools

6000+ Students

Impact of the work:

- Establish Eco-Clubs in 70 schools, engaging more than 6,000 students in environmental activities.
- Conducting awareness session at schools by expert lecturers, focusing on plastic pollution and its impact on the environment.
- Introduced plastic recycling initiative, turning waste into useful products like recycled plastic pots and benches.
- Educate students about Reduce, Reuse and Recycle principles.
- Educate students about Mangrove conservation and its important to the coastal area.
- Eco days like Environment Day, Earth Day, Mangrove Day, etc. have been celebrated at the different schools.

Eco Bricks schools exemplify how innovation and community collaboration can effectively tackle two critical global challenges: plastic waste and education. By converting waste into an asset, these institutions not only offer essential educational facilities but also foster a sense of environmental stewardship among students. To encourage motivation, students' work has been recognized by MPL through the awarding of certificates and educational prizes at the primary schools in the nearby villages.

8.6.3 MANGROVE CONSERVATION AND AWARNESS

Mangrove are salt tolerant trees and shrubs that thrive in coastal intertidal zones. These remarkable ecosystems are found in Mundra and Mandavi taluka' coastal area at the vicinity of the MPL premises. Mangrove forests are vital not only to the health of coastal environments but also to the communities that depend on them. This part is report represents into the importance of mangrove conservation.

Mangrove nursery have been developed for 10,000 numbers of mangrove species.

100+ students from school & colleges have been participated in Mangrove Day Celebration.

The theme – "Mangroves: Vital Guardian of Coastal Ecosystems" highlighted their role in protecting coastlines, supporting fisheries and sustaining local communities. Bio Diversity expert from the company, Professors from the collages elaborated the importance of mangroves and how they provide myriad of ecological, economical and social benefits. This awareness session also focus on how mangrove serve as critical habitats for a wide array of marine and terrestrial species, including fish, birds and invertebrates. The dense root systems of mangroves stabilize shorelines, preventing erosion and protecting coastal area from the impacts of storms and rising sea levels.

8.6.4 AWARNESS ON "ALTERNATIVE OF SINGLE USE PLASTIC"

Rejecting single use plastics means embracing sustainable alternatives that are kinder to our planet. To create awareness about the harmful effects of single use plastic, MPL has conducted awareness sessions at schools of nearby villages.

680+ students participated.

- Students learn the alternative of single use plastic.
- Students enhance their innovated knowledge for reusable items as they are excellent substitutes such as cloths bags, metal straws, Glass bottles and bamboo cutlery.

Further, to promote Reuse, Recover & Recycling, MPL has initiated use of plastic to make plastic pots and benches.

100 numbers of each Pots and Bench made from recycled plastic waste.

Manufacturing Bench from the recycled plastic have following Eco-benefits:

 192 Carbon emissions reduced (KgCO2e)	 Circular Eco system complete	 18144 KL Fresh water Conserved
 2400 Natural resources conserved (kg)	 960 Waste plastic recycled (kg)	 1440 waste silica recycled (kg)
 12 number of people gaining direct livelihood	 480 hr of Job created.	 25 number of people gainnig indirect livelihood

8.7 AWARENESS DRIVE ON CONSERVE WATER, PROTECT EARTH.

To raise awareness about water conservation and encourage students to adopt sustainable practices for optimal water usage, ensuring the preservation of water resources for future generations.

- ✓ 6000+ students educated in 70 schools.
- ✓ Important of water conservation, motivated to reduce water usage and teach them about various water bodies and their role in maintaining ecological balance.
- ✓ Drawing competition, skits, speech and extempore.
- ✓ These activities were designed to engage students creatively while imparting knowledge about the critical issue of water conservation.
- ✓ The campaign encouraged them to think critically about their water usage and adopt responsible habits.

EARTH DAY CELEBRATION

- ✓ Recognized the exemplary efforts of 4 pioneering farmers who have embraced chemical – free farming methods.
- ✓ Tribute to two village leaders for tireless advocacy and grassroots initiatives have propelled organic waste management effort to a new high.
- ✓ Encourage to reduce plastic usage, champion sustainable practices, nurture a symbiotic relationship with our planet.

8.8 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS.

	MPLs initiative focused on livelihood generation and providing additional support to farmers works towards eliminating poverty.
	Enhance income generation opportunities provided to the local community and sustainable job creation will enable the local to fulfill basic needs like food and nutrition.
	Dedicated efforts through Workshop and promoting women farmers have created more equitable society.
	Major interventions were focused on building employability in the local community and creating a sustainable source of income.
	A non – discriminatory approach in beneficiary identification has reduced inequality.
	By integrating IEC based interventions and Eco club drive on awareness and community building will work towards building sustainable society.
	A significant effort has been put in promoting natural farming and conservation of local ecosystem through plantation and mangrove conservation.

9. COMMUNITY RURAL INFRASTRUCTURE DEVELOPMENT

community Rural infrastructure Development program by MPL encompasses a wide array of initiatives aimed at enhancing rural areas. It focuses on water conservation through measures like check dam restoration, de-siltation and bore well recharge structures. Infrastructure support includes sports facilities; renovation of educational and trailing centers and repair works in schools and infrastructure for fishing community across various villages. Additionally, the program addresses essential amenities like water tank (Awada) for domestic animal.

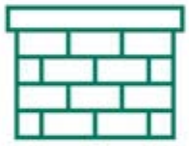
9.1 KEY INTERVENTION

Road Repairing / construction work

Road construction work is a cornerstone of modern civilization. It drives economic growth, enhances connectivity, promotes social integration and supports environmental sustainability.

Common Gathering Infrastructure

In the heart of any thriving community, common gathering infrastructure serves as the backbone that fosters interaction, collaboration and a sense of belonging. These infrastructures are essential for the social fabric, ensuring that people have spaces to meet, share and grow together.



Sustainable Infrastructure

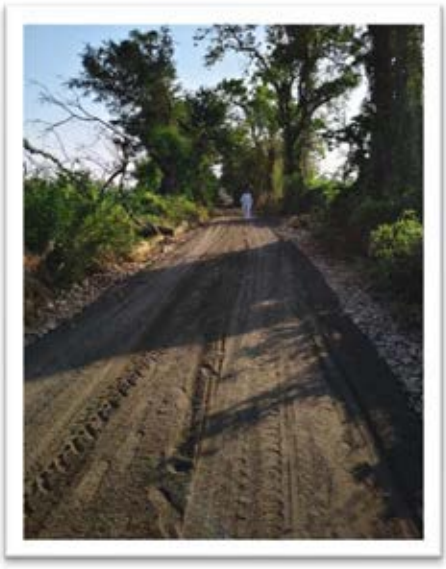
By adopting the development of sustainable infrastructure in rural areas, we can address the challenges of climate change, resources depletion and urbanization while promoting a more equitable and resilient future.

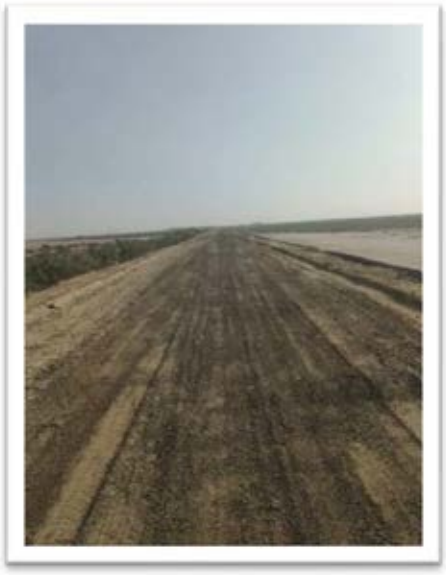
Educational Infrastructure

Developing educational infrastructure in villages is essential for fostering individual and community development. Despite the challenges, a combination of government support, community involvement, public – private partnership and innovative solutions can create sustainable educational opportunities for rural populations.

9.2 ROAD REPAIRING / CONSTRUCTION ACTIVITIES.

As roads are the key factor for development through transporting, shifting, movement of materials and other activities, MPL is giving the priority to provide good road for circulating economy as well as smooth functioning of rural development, specially in fisherfolk community.





- Renovation work for approach road at kutdi Bandar for fisherman Vasahat Village Tragadi & Modhava.
- Pavers walkway for Deshalpar Van at village Deshalpar.
- Pipe culvert repairing work for fisherman vasahat at Juna Bandar, Mundra.
- Renovation of Damage Bund and area filling with sand for fisherman vasahat at Juna Bandar, Mundra.
- Renovation of approach road for vadi vistar area i.e Nana Bhadiya, Mota Bhadiya, Lalyara and chach vadi vistar at Zarapara.
- Renovation of approach road for vadi vistar and Fisherman vasahat area at Zarpara.
- Road cleaning work at Mota Kandagra, Bidada, Tragadi, Modhava.

9.3 COMMON GATHERING INFRASTRUCTURE

Common gathering infrastructure is key point to vibrant the societies and moving towards the consecutive fruitful activities. MPL has constructed paver blocks at common gathering places like Jyoteshwar in Pratappar village, Vachhada dada in Zarpara village, Hanuman Temple in Bhujpar. etc.



9.4 CONSTRUCTION OF SHEDS

Sheds have proven to be valuable assets, enriching local spaces and enhancing the quality of life for participants. By providing opportunities for social interaction, skill development and other engagement, sheds contribute to the well-being of individuals and the overall health of the community. Sheds have been constructed at village Desalpar & Mota Bhadiya.



9.5 CLEAR WATER FACILITIES FOR HOUSE ANIMAL

Clean Water facilities provided at Modhava villages having capacity of 10,000 Litr each (2 Tanks) so that house animal can have easy access of clean water.

9.6 SUSTAINABLE INFRASTRUCTURE

As water is an essential part of live and to fulfill this requirement, MPL has constructed Roof top rainwater harvesting systems, repairing of check dams, cleaning of river / streams and percolation wells at nearby 16 villages from the plant premises.

165+ Rooftop Rainwater Harvesting system constructed.

16,50,000+ Liter clean water available at house step.

265+ farmers benefited for agricultural purposes through check dam repairing / construction and box culvert.

1,80,500+ cubic meter water stored.

122+ percolation well been constructed.

Water table level increases.

Salinity of ground water Decreases

Saline water Reverse Osmosis Plant installed at village Tunda with capacity of 3000 Ltr/hr. for villagers to have clean drinking water.

10000+ villagers are beneficiated.

Saline water Reverse Osmosis Plant installed at primary school, Tunda and Zarpara with capacity of 50 Ltr/hr. & 150 Ltr/hr for students to have clean drinking water.

373+ Students are benefited.

9.7 EDUCATIONAL INFRASTRUCTURE

As educational infrastructure is a fundamental component of a thriving education system, MPL has constructed school amenities and facilitated with furniture at school. Further, considering a robust educational infrastructure is crucial for providing quality education, promoting equality and fostering the holistic development of student, MPL has installed the Paver block and constructed pink toilet facilities for the girls at school premises.

Furniture provided at Modhava School.

- 60 no. benches
- 12no. Chairs
- 6 no. table

- Enhancing privacy and safety.
- Promoting gender neutrality.
- Preventing UTI
- Improved school Attendance.
- Empower Adolescent Girls.

500+ Girls students benefited.

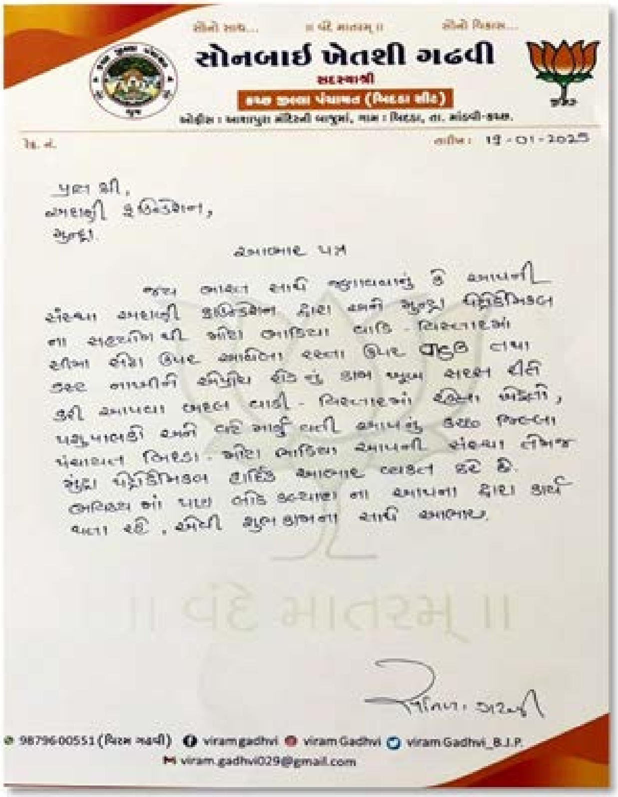
9.8 SANITARY FACILITIES

Creating sanitary facilities that are accessible to disabled persons is a critical aspect of inclusive design. By adhering to unique design principles and implementing the best practices, it can be ensured that these facilities provide dignity, safety and independence to all users.

9.9 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

	Increased water availability and quality will boost agricultural production.
	Dedicated efforts for enhancing rainwater storage will improve clean and safe drinking water option for household.
	Improved recharge and harvesting options will make local communities reliant against water stress.
	The water conservation initiative significantly increased storage capacity, enhancing climate resilience and promoting sustainable water management.

10. STAKEHOLDERS' APPRECIATION / FEEDBACK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કચ્છ જીલ્લા પંચાયત (બિદડા સીટ)
તારીખ: 19-01-2025
આભાર પત્ર
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viram.gadhvi029@gmail.com


શિક્ષણનો અધિકાર
કસ્તુરબા ગાંધી બાલિકા વિદ્યાલય,દેશલપર(કંઠી),મુંદરા-કચ્છ.
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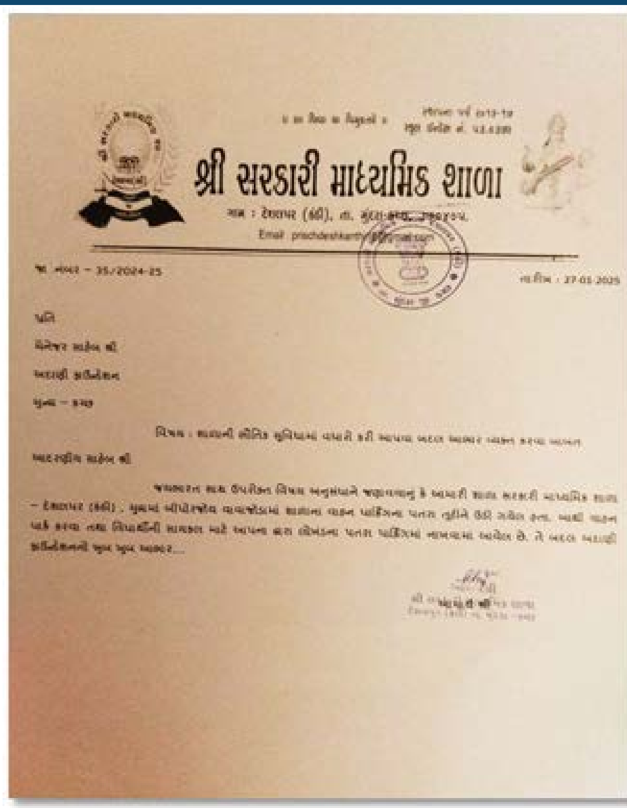
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જા. નંબર – 35/2024-25
તારીખ : 27-01-2025
પ્રતિ
મેનેજર સાહેબ શ્રી
અદાણી ફાઉન્ડેશન
મુન્દ્રા – કચ્છ

11. NEWS HIGHLIGHTS

કચ્છમિત્ર ભુજ - મંગળવાર, તા. ૨૫-૦૨-૨

અદાણી સંચાલિત જી.કે. જનરલ હોસ્પિટલમાં આધુનિક પ્લાસ્ટિક સર્જરી અને બર્ન્સ કેર યુનિટનું લોકાર્પણ કરતા અદાણી ફાઉન્ડેશનના ડાયરેક્ટર વી.એસ. ગઢવી, હેલ્થકેરના ડો. પંકજ દોશી વગેરે, ઈન્સેટમાં વિભાગ જોવા મળે છે.

કચ્છને પ્લાસ્ટિક સર્જરી-બર્ન્સ કેર યુનિટ અર્પણ

જી.કે. જનરલ હોસ્પિટલ-ભુજમાં પહેલી માર્ચથી સુવિધા કાર્યરત થશે

ભુજ, તા. ૨૪ : અદાણી ફાઉન્ડેશ પ્રેરિત કચ્છ કોપર અને કચ્છ પેટ્રોકેમ.ના સહયોગથી જી.કે. જનરલ હોસ્પિટલમાં કચ્છમાં એકમાત્ર અતિ આધુનિક સુવિધાથી સજ્જ પ્લાસ્ટિક સર્જરી અને બર્ન્સ કેર યુનિટ (દાઝી ગયેલા દર્દી માટે સઘન સુવિધાયુક્ત વોર્ડ) જનતાને અર્પણ કરાયું હતું, જે પહેલી માર્ચથી વિધિવત કાર્યરત બનશે, તેવું જણાવાયું હતું.

જી. કે. જનરલ હોસ્પિટલના ગ્રાઉન્ડ ફ્લોરમાં બનાવેલા એકમને ખુલ્લું મૂકતા અદાણી ફાઉન્ડેશનના ડાયરેક્ટર વી. એસ. ગઢવીએ કચ્છમાં આરોગ્ય ક્ષેત્રે ઊભી થયેલી આ સુવિધાને આશીર્વાદ સમાન ગણાવી હતી તેમજ દાઝી જવાના ગંભીર બનાવોમાં કચ્છ બહાર જવાના ધક્કાથી દર્દીઓને રાહત મળશે તેનો સંતોષ વ્યક્ત કર્યો હતો.

અદાણી હેલ્થકેર સુપના હેડ ડો. પંકજ દોશીએ ઉદ્ઘાટન પ્રસંગે સંદેશો આપતાં જણાવ્યું હતું કે, કચ્છ માટે આ યુનિટ સીમાચિહ્નરૂપ બની આરોગ્ય સુવિધામાં વધારો કરશે. મુંદરા અદાણી પોર્ટના એક્ઝિક્યુટિવ ડાયરેક્ટર રક્ષિત શાહે પણ મુલાકાત લીધી હતી. હોસ્પિટલના પ્લાસ્ટિક સર્જન ડો. મહાલક્ષ્મી પિલ્લાઈએ માહિતી આપી હતી.

ગેઈમ્સના મેડિકલ ડાયરેક્ટર ડો. બાલાજી પિલ્લાઈએ જણાવ્યું હતું કે, આ બર્ન્સ યુનિટમાં ત્રણ ઓપરેશન થિયેટર છે, જે પૈકી બે મોડ્યુલર પ્રકારના છે, જેમાં બર્ન્સ, પ્લાસ્ટિક અને રિકન્સ્ટ્રક્શન સર્જરી કરાશે, જ્યારે ત્રીજું માઈનોર છે, જ્યાં ડ્રેસિંગ હાથ ધરાશે. બર્ન્સ વોર્ડમાં છ અલગ-અલગ રૂમ છે તેમજ નર્સિંગ સ્ટેશન, કાઉન્સેલિંગ રૂમની સુવિધા ઉપલબ્ધ છે.

જી. કે.ના ચીફ મેડિકલ સુપ્રિ. ડો. નરેન્દ્ર હીરાણીએ જણાવ્યું હતું કે, પ્લાસ્ટિક સર્જરીના જટિલ અને પોલિટ્રોમા ઓપરેશન પણ હાથ ધરાશે.

આ પ્રસંગે ઉદ્યોગપતિ દીપેશ શ્રોફ, પ્રીતિબેન શ્રોફ, ચૈતન્ય શ્રોફ, અદાણી ફાઉન્ડેશનના સી.એસ.આર. હેડ પંક્તિબેન શાહ, કિશોર ચાવડા, મુંદરા પેટ્રોકેમ.ના એચ.આર. હેડ પરીન પંચાલ, જી.કે.ના તબીબો ઉપસ્થિત રહ્યા હતા.

અદાણી ફાઉન્ડેશન દ્વારા શાળાઓની પ્લાસ્ટિક મુક્ત પહેલ બની આદર્શ

એક હજાર કિલો પ્રતિ માસ પ્લાસ્ટિકનું રિસાયકલિંગ : અદાણી ફાઉન્ડેશનના ૭૫ થી વધુ ઉત્થાન સહાયક શિક્ષકોએ સમજાવ્યા સિંગલ યુઝ પ્લાસ્ટિકના જોખમો

અબતક

અદાણી ફાઉન્ડેશન દ્વારા પ્લાસ્ટીક મુક્ત શાળા અભિયાનમાં દર મહિને એક ટન પ્લાસ્ટીકનું કરાય છે 'રીસાયકલીંગ'

શાળાઓના ૬૦૦૦ વિદ્યાર્થીઓની પ્લાસ્ટીક મુક્તિ અભિયાનમાં અવિરત સેવા

(અનુ. આઠમાં પાને)

અદાણી ફાઉ. દ્વારા શાળાઓની પ્લાસ્ટિક મુક્ત પહેલ બની આદર્શ : ૧૦૦૦ કિલો પ્રતિ માસ પ્લાસ્ટિકનું રિસાયકલિંગ

... કચેરીના વિકાસ માટે બજેટમાં જોગવાઈ કરાઈ

અદાણી ગ્રૂપ દ્વારા 'પ્લેનેટ જોઈએ કે પ્લાસ્ટિક' થીમ હેઠળ વિશ્વ પૃથ્વી દિવસની ઉજવણી

જળસંચય, વૃક્ષારોપણ અને ગાય આધારિત ખેતી પૃથ્વીનું જતન કરશે

(પ્રતિનિધિ દ્વારા)

ભુજ 02-05-2024

આગામી સમયને અનુલક્ષીને નર્મદાના નીર પણ સાવચેતી પૂર્વક વાપરવા હાકલ

અદાણી ફાઉન્ડેશન દ્વારા છ તાલુકામાં જળસંગ્રહ અભિયાનનો આરંભ

અદાણી ફાઉન્ડેશનની કચ્છના ૨૧ ગામોમાં વરસાદી પાણીના સંગ્રહ માટેની કામગીરી પુરજોશમાં

કચ્છમાં ચેકડેમ તળાવ નવસર્જન કુદરતી જળસ્રોતને પુનઃજીવીત કરી વરસાદના પાણીના એક ટીપાને એળે નહીં જવા દેવાય

પ્લાસ્ટિક છોડો ; પ્રાકૃતિક ખેતી અપનાવો

અદાણી ગ્રૂપ દ્વારા 'પ્લેનેટ જોઈએ કે પ્લાસ્ટિક' થીમ હેઠળ વિશ્વ પૃથ્વી દિવસ ઉજવાયો

અદાણી ફાઉન્ડેશન અને મુંદ્રા પેટ્રોકેમિકલ લી - મુન્દ્રા દ્વારા વિશ્વ મેનગ્રૂવ્સ દિવસની ઊજવણી કરવામાં આવી

અદાણી ફાઉન્ડેશન અને મુંદ્રા પેટ્રોકેમિકલ લી - મુન્દ્રા દ્વારા વિશ્વ મેનગ્રૂવ્સ દિવસની ઊજવણી

વાત્સલ્યમ્ સમાચાર

રમેશ મહેશ્વરી - મુન્દ્રા કચ્છ

અદાણી ફાઉ.મુંદ્રાની ભૂમિને લીલીછમ બનાવવા કૃતસંકલ્પ
નવા ૧૨,૦૦૦ વૃક્ષોનું વાવેતર, વૃક્ષમિત્રોને રૂા.૧૦,૦૦૦ નો ચેક અર્પણ

મુંદરા,તા.૧૯

અદાણી ફાઉન્ડેશનપર્યાવરણ જતનના સહિતના સમાજોપયોગી કાર્યોમાં સતત અગ્રેસર છે. મુંદરા નજીકના પીપરી અને નાની ખાખર ગામે 'અદાણી વન'નું ખાતમુહર્ત કરવામાં આવ્યું હતું. જેમાં વૃક્ષારોપણ થકી પર્યાવરણ સંરક્ષણ ક્ષેત્રે અભુતપૂર્વ યોગદાન આપતા ૧૨૦૦૦ વૃક્ષોનું વાવેતર કરી 'અદાણીવન' ઉભુ કરવામાં આવશે. ધારાસભ્ય

અનિરૂદ્ધભાઈ દવેનાવરદહસ્તે ખાતમુહૂર્ત બાદવૃક્ષમિત્રોને ?.૧૦,૦૦૦ના ચેક અર્પણ કરવામાં આવ્યા હતા.

મુંદરા ની આસપાસના વિસ્તારમાં હરિયાળી ફેલાવી લીલોછમ બનાવવા અદાણી ફાઉન્ડેશને બીડું ઝડપ્યું છે. 'અદાણી વન'ના ખાતમુહર્ત સાથેતેમાં ડ્રીપ ઈરીગેશનની વ્યવસ્થા પણ કરવામાં આવી છે. ત્રણ વર્ષમાં શુષ્ક વિસ્તારમાં વૃક્ષોની માવજત કરીહરિયાળી પાથરવા એડીચોટીનું જોર લગાવવામાં આવશે. આ ભગીરથ કાર્યમાંસહભાગી બની તેને સફળ બનાવવા સરપંચ સહિત સર્વ ગામ લોકોએ ભારે ઉત્સાહ દાખવ્યો હતો.

કાર્યક્રમના મુખ્ય અતિથી અને ધારાસભ્ય અનિરુદ્ધભાઈ દવેએ અદાણી ફાઉન્ડેશનની સફળ કામગીરીને બિરદાવી સૌને શુભેચ્છાઓ પાઠવી હતી. ઉલ્લેખનીય છે કે, મુંદ્રા પેટ્રોકેમ લીમીટેડના સહયોગથી નાની ખાખર ખાતે ૧૦,૦૦૦ વૃક્ષો રોપવામાં આવ્યા હતા. આ પ્રવૃતિ ''એક વૃક્ષ માઁ કે નામ'' અંતર્ગત કરવામાં આવી હતી.

મુંદરામાં ચેર વાવેતર જાગૃતિ માટે કાર્યક્રમો

અદાણી ફાઉન્ડેશનના પ્રયાસોથી જળાશયો છલોછલ, જનતા ખુશખુશાલ
અદાણી પરિવાર સાથે ભળી ગામલોકોએ જળાશયોમાં નવા નીરને વધાવ્યા

મારું પહેલું અને અંતિમ દા

અદાણી ફાઉન્ડેશનના પ્રયાસોથી જળાશયો છલોછલ, લોકોમાં ખુશી
તળાવો ઉંડા કરવાથી ૧૫૦ એકર જમીનને પિયતનો લાભ તેમજ રોકડિયા પાકો લેતા ખેડૂતોની
300 એકર જમીન અને ત્રણ હજારથી વધુ પશુઓને પીવા માટે પાણી મળશે

અમદાવાદ, તા. ૪

અદાણી ફાઉન્ડેશન જળ સંરક્ષણ, જળ સંવર્ધન અને જળ વ્યવસ્થાપન ક્ષેત્રે પ્રશંસનીય કામગીરી કરી રહ્યું છે. ચાલુ વર્ષે મેઘરાજાની અનરાધાર મહેરથી કચ્છના જળાશયો છલકાઈ રહ્યા છે. જળસંગ્રહ માટેના ઉત્તમ અવસરને જોઈ અદાણી ફાઉન્ડેશને પહેલેથી જ વ્યાપક કામગીરી આરંભી છે. મુંદ્રા, માંડવી, અબડાસા, લખપત, રાપર, અંજાર અને ભૂજ તાલુકાના ૭૦થી વધુ ગામોમાં જળ સંરક્ષણની કામગીરી કરવામાં આવી છે. જેમાં બોરવેલ રિચાર્જ, ભૂગર્ભ ટાંકામાં જળસંગ્રહ અને નવા કુવા બનાવવાના કામો સામેલ છે.

કચ્છમાં સારો વરસાદ થતાં તળાવો અને જળાશયોની સાથે લોકોએ આનંદ પણ ઉછાળા મારી રહ્યો છે. માંડવી તાલુકાના બીદડા તેમજ મુંદ્રાતાલુકાના મોટી ખાખર ગામે જળસંરક્ષણ ક્ષેત્રે અદાણી ફાઉન્ડેશનની ઉમદા કામગીરીને વધાવવા અદાણી પરિવારને નવાજવામાં આવ્યું હતું. જેમાં એપીએસઈઝેડના એક્ઝિક્યુટીવ ડાયરેક્ટર રક્ષિતભાઈ શાહ, સીઈઓ સુજલ શાહ તથા અદાણી ફાઉન્ડેશનના સીએસઆર હેડ પંક્તિબેન શાહ સહિત સમગ્ર ટીમને સરપંચો તેમજ ગ્રામજનોની હાજરીમાં તળાવોમાં નવા નીરને વધાવવામાં આવ્યા હતા.

અબડાસા તાલુકામાં આ વર્ષે પાંચ ગામોમાં તળાવો ઊંડા ઉતારવા, જાળ સફાઈ, ઓગન રીપેરીંગ તથા આવ સુધારણાની કામગીરી વરસાદ પહેલા જ પૂર્ણ કરવામાં આવી છે.

હોથીયાય ગામમાં અદાણી સિમેન્ટ સાંઘીપુરમના પ્લાન્ટ હેડ વિવેક મિશ્રા, સિક્યુરીટી હેડ કર્નાયન સહિત સરપંચ હાજી ઈસ્માઈલભાઈ સહિત આગેવાનોના હસ્તે જળાશયોમાં નવા નીરને વધાવવામાં આવ્યા હતા.

તળાવો ઉંડા કરવાની કામગીરીથી ૧૫૦એકર જમીનને પિયતનો લાભ મળશે. જ્યારે રોકડિયા પાકો લેતા ખેડૂતોની ૩૦૦ એકર જેટલી જમીન અને ત્રણ હજારથી વધુ પશુઓને પીવા માટે પાણી મળશે.

'જલ હૈ તો કલ હૈ' અંતર્ગત વરસાદી જળને દરિયામાં વહી જતું અટકાવી અદાણી ફાઉન્ડેશન દ્વારા લોકભાગીદારીથી સ્તુત્ય પ્રયાસો હાથ ધરવામાં આવી રહ્યા છે.

અબતક

સાંજ દૈનિક

મુન્દ્રાની ભૂમિને લીલીછમ બનાવવાનો અદાણી ફાઉન્ડેશનનો નિર્ધાર
પીપરી–નાની ખાખર ગામે 'અદાણીવનનું' ખાતમુહુર્ત કરાયું
નવા ૧૨,૦૦૦ વૃક્ષોનું વાવેતરઃ વૃક્ષમિત્રોને ચેક અર્પણ

અબતક,રાજકોટ

અદાણી ફાઉન્ડેશન પર્યાવરણ જતનના સહિતના સમાજોપયોગી કાર્યોમાં સતત અગ્રેસર છે. મુંદરા નજીકના પીપરી અને નાની ખાખર ગામે 'અદાણી વન'નું ખાતમુહૂર્ત કરવામાં આવ્યું હતું. જેમાં વૃક્ષારોપણ થકી પર્યાવરણ સંરક્ષણ ક્ષેત્રે અભૂતપૂર્વ યોગદાન આપતા ૧૨૦૦૦ વૃક્ષોનું વાવેતર કરી 'અદાણી વન' ઉભુ કરવામાં આવશે. ધારાસભ્ય અનિરુદ્ધભાઈ દવેના વરદ હસ્તે ખાતમુહૂર્ત બાદ વૃક્ષમિત્રોને રૂ.૧૦,૦૦૦ ના ચેક અર્પણ કરવામાં આવ્યા હતા.

મુંદરા ની આસપાસના વિસ્તારમાં હરિયાળી ફેલાવી લીલોછમ બનાવવા અદાણી ફાઉન્ડેશને બીડું ઝડપ્યું છે. 'અદાણી વન' ના ખાતમુહૂર્ત સાથે તેમાં ડ્રીપ ઈરીગેશનની વ્યવસ્થા પણ કરવામાં આવી છે. ત્રણ વર્ષમાં શુષ્ક વિસ્તારમાં વૃક્ષોની માવજત કરી હરિયાળી પાથરવા એડીચોટીનું જોર લગાવવામાં આવશે. આ ભગીરથ કાર્યમાં સહભાગી બની તેને સફળ બનાવવા સરપંચ સહિત સર્વે ગામ લોકોએ ભારે ઉત્સાહ દાખવ્યો હતો.

કાર્યક્રમના મુખ્ય અતિથી અને ધારાસભ્ય અનિરુદ્ધભાઈ દવેએ અદાણી ફાઉન્ડેશનની સફળ કામગીરીને બિરદાવી સૌને શુભેચ્છાઓ પાઠવી હતી. ઉલ્લેખનીય છે કે, મુંદ્રા પેટ્રોકેમ લીમીટેડના સહયોગથી નાની ખાખર ખાતે ૧૦,૦૦૦ વૃક્ષો રોપવામાં આવ્યા હતા. આ પ્રવૃતિ એક વૃક્ષ માઁ કે નામ અંતર્ગત કરવામાં આવી હતી.

અદાણી ફાઉન્ડેશનને વૃક્ષારોપણની અદ્ભુત કામગીરી બદલ ગુજરાત સરકાર દ્વારા વનપંડિત પુરસ્કારથી નવાજવામાં આવ્યું હતું. જેમાં સંસ્થાને રૂ.૫૦,૦૦૦ રૂપિયા સહિત પારિતોષિક એનાયત કરવામાં આવ્યા હતા. અદાણી ફાઉન્ડેશને વૃક્ષોના ઉછેર અને જતનમાં મહત્વપૂર્ણ ભૂમિકા ભજવનાર પાંચ વૃક્ષમિત્રોને પુરસ્કારરૂપે તે રકમ એનાયત કરી હતી.

Annexure - VI

adani

Ref: AEL/MPL/ENV/EC/2022 – September/02 Date: 02/09/2022

To,
Ms. Praveena D.K. (IAS),
Collector & DM,
Collector Office, Jilla Seva Sadan,
Bhuj – Kachchh, 370 001

Subject: Environment Clearance (EC) for proposed Project "**Caustic Soda–1310 KTPA and Acetylene–860 KTPA plants near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat** by M/s Adani Enterprises Ltd.

Reference: EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022

Respected Ma'am,

With reference to above subject, this is to inform that Ministry of Environment Forest and Climate Change has granted Environment Clearance for proposed project "**Industry-III activity i.e. Caustic Soda–1310 KTPA and Acetylene–860 KTPA**" (as a part of Proposed Coal to Poly-Vinyl Chloride (PVC) Project of M/s Adani Enterprises Ltd. (AEL) in land notified as Industrial area of APSEZ, Ta-Mundra, Dist-Kachchh, Gujarat, comprising of IND-I projects i.e. Semi Coke–2030 KTPA, Cement–6 MTPA; Clinker–4 MTPA, IND-II projects i.e. VCM– 2002 KTPA, PVC–2000 KTPA, Ethylene Glycol–400 KTPA and IND-III projects i.e. Acetylene–860 KTPA & Caustic Soda–1310 KTPA) and Calcium Carbide–2900 KTPA (Not Specified in EIA Notification)) by M/s Adani Enterprises Ltd." vide EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022.

As required under general condition No. **B – (vii)** of EC, we are submitting herewith copy of Environment Clearance for the said project for your reference, please.

Thanking You,
Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd,

Praveen Anant (Environment - Head)

Encl: As Above

Adani Enterprises Ltd
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: L51100GJ1993PLC019067

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
info@adani.com
www.adani.com

Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382421

adani

Copy to:

1). **The District Development Officer,**
Jilla Pachayat, Opposite Surmandir Multiplex,
Bhuj – Kachchh, 370 001

2). **The Taluka Development Officer,**
Taluka Panchayat, Mundra
Ta: Mundra Dist: Kachchh, 370 421

3). **The General Manager,**
District Industries Center, Near New Green Hospital, Bhuj – Kachchh, 370 001

4). **The Regional Officer,**
Gujarat Pollution Control Board (Kachchh East),
Room no.215,216 & 217, 2nd Floor, Administration Office Building, Deendayal Port Trust,
Sector – 08, Gandhidham – Kachchh, 370 201

Adani Enterprises Ltd
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: L51100GJ1993PLC019067

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
info@adani.com
www.adani.com

Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382421

adani

Ref: AEL/MPL/ENV/EC/2022 – September/04 Date: 02/09/2022

To,
The Sarpanch, Shri / Talati Cum Mantri, Shri
Gram Panchayat,
Village: _____
Ta: _____, Dist: Kachchh (List Attached)

Subject: Environment Clearance (EC) for proposed Project "**Caustic Soda–1310 KTPA and Acetylene–860 KTPA plants near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat** by M/s Adani Enterprises Ltd.

Reference: EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022

Respected Ma'am,

With reference to above subject, this is to inform that Ministry of Environment Forest and Climate Change has granted Environment Clearance for proposed project "**Industry-III activity i.e. Caustic Soda–1310 KTPA and Acetylene–860 KTPA**" (as a part of Proposed Coal to Poly-Vinyl Chloride (PVC) Project of M/s Adani Enterprises Ltd. (AEL) in land notified as Industrial area of APSEZ, Ta-Mundra, Dist-Kachchh, Gujarat, comprising of IND-I projects i.e. Semi Coke–2030 KTPA, Cement–6 MTPA; Clinker–4 MTPA, IND-II projects i.e. VCM– 2002 KTPA, PVC–2000 KTPA, Ethylene Glycol– 400 KTPA and IND-III projects i.e. Acetylene–860 KTPA & Caustic Soda–1310 KTPA) and Calcium Carbide–2900 KTPA (Not Specified in Any EIA Notification)) by M/s Adani Enterprises Ltd." vide EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022.

As required under general condition No. **B – (vii)** of EC, we are submitting herewith copy of Environment Clearance for the said project for your reference, please.

Thanking You.
Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd,

Praveen

Praveen Anant (Environment - Head)

Encl: As Above

Copy to:

1). **The Taluka Development Officer,**
Taluka Panchayat, Mundra
Ta: Mundra Dist: Kachchh, 370 421

2).
Room no.215,216 & 217, 2nd Floor, Administration
Office Building, Deendayal Port Trust,
Sector – 08, Gandhidham – Kachchh, 370 201

Page1 of 2

Adani Enterprises Ltd
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: L51100GJ1993PLC019067

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
info@adani.com
www.adani.com

Ref: AEL/MPL/ENV/EC/2022 –September/06/01 Date: 02/09/2022

To,
Shri Naran Gadhavi,
President - Kheti Vikas Seva Trust,
Village: Zarpara, Taluka: Mundra,
Dist-Kutch- 370 405

Subject: Environment Clearance (EC) (for Industrial activities pertain to Industry – 2 & 3) of proposed Project "**Coal to Poly-Vinyl Chloride (PVC) Project in land notified as Industrial area of APSEZ near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Ltd"**. – reg.

Reference: 1. EC Identification No. - EC22A020GJ133762, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022
2. EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022

Respected Sir,

With reference to above subject, this is to inform that Ministry of Environment, Forest and Climate Change has granted Environmental Clearance for following Industrial activities pertain to Industry – 2 & 3 of proposed Project "**Coal to Poly-Vinyl Chloride (PVC) Project in land notified as Industrial area of APSEZ near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Ltd"**.

Sr. no.	Type of Activities	Name of Activities	Details of Environmental Clearance	Enclosed as
1	Industry – 2	VCM– 2002 KTPA, PVC–2000 KTPA, Ethylene Glycol– 400 KTPA	EC Identification No. - EC22A020GJ133762, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022	Annexure – I
2	Industry – 3	Acetylene–860 KTPA & Caustic Soda–1310 KTPA)	EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022	Annexure – II

Accordingly, in compliance of general condition no. B(VI) & B(VII) of above refer letter sr. no. 1 & 2 respectively, we are enclosing herewith copies of Environmental Clearances for your reference, please.

Thanking You.
Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd.

Praveen Anant (Environment - Head)

Encl: As Above

Adani Enterprises Ltd
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: L51100GJ1993PLC019067

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
info@adani.com
www.adani.com

Annexure - VII

Vinay Kumar Singh

From: Vinay Kumar Singh
Sent: Monday, May 12, 2025 4:30 PM
To: uh-gpcb-kute@gujarat.gov.in
Cc: ms-gpcb; ro-gpcb-kute@gujarat.gov.in; IRO Gandhinagar
Subject: Environment Statement (Form – V) for the FY 2024-25 for the Project "Poly-vinyl Chloride (PVC)" near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Mundra Petrochem Limited – Reg.
Attachments: 02. Form V PVC Project 2024-25.pdf

Ref: MPL/ENV/GPCB – Form – V/2025 –May/02 **Date:12/05/2025**

To, **PCB ID:86184**

The Unit Head, (Kutch District)
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10A,
Gandhinagar – 382 010
E-mail : uh-gpcb-kute@gujarat.gov.in

Subject: Environment Statement (Form – V) for the FY 2024-25 for the Project "Poly-vinyl Chloride (PVC)" near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Mundra Petrochem Limited – Reg.

Reference : 1) CTE no. 59301 granted by GPCB vide letter no. GPCB/ (PCB ID: 86184)/ 16246 dated 13/12/2022.
2) Amended CTE letter no. PC/CCA-KUTCH-2104/GPCB ID 86184/738939 Dated 12/04/2023.
3) MPL/ENV/GPCB – Form – V/2024 – May/02 Dated 18/05/2024.

Respected Sir,

With reference to the Consent to Establish issued by GPCB vide above refer letter dated 13/12/2022, amended vide letter dated 12/04/2023 for the project "Poly-vinyl Chloride (PVC)" near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Mundra Petrochem Limited.

The PVC project is currently in the final design, detailed engineering, and procurement stages, with construction activities also underway at the site. Enclosed is the soft copy of the Environment Statement (Form – V) for the fiscal year 2024–25 for your reference and records.

We hope you will find the above in order.

Thanking you,

Vinay Kumar Singh
CSO & BU Environment Head

Encl: As Above

Copy to : 1. Member Secretory, GPCB : ms-gpcb@gujarat.gov.in
2. Regional Office, GPCB (Kutch East): ro-gpcb-kute@gujarat.gov.in
3. Integrated Regional Office, MoEF&CC, Gandhinagar: iro.gandhingr-mefcc@gov.in

Annexure - VIII

adani

Ref: AEL/MPL/ENV/EC/2022 – September/07 Date: 06/09/2022

To,
Shri Shrawan Kumar Verma, IFS (Addl. Charge)
Deputy Director General of Forests (C)
Integrated Regional Office, Gandhi Nagar,
Ministry of Environment, Forest and Climate Change,
A-Wing–407 & 409, Aranya Bhawan, Near CH-3 Circle,
Sector-10A, Gandhinagar – 382010

एकीकृत क्षेत्रीय कार्यालय, गाँधीनगर
Integrated Regional Office, Gandhinagar
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
Ministry of Environment, Forest & Climate Change,
Govt. of India / भारत सरकार
कक्ष क्र. 407 व 409 ए विंग अरण्य भवन
Room No.407 & 409, A wing Aranya Bhavan
गाँधीनगर (गुजरात) / Gandhinagar(Gujarat)
09/09/22

Subject: Environment Clearance for Project "**Caustic Soda–1310 KTPA and Acetylene–860 KTPA plants near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat** by M/s Adani Enterprises Ltd.

Reference: EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022

Dear Sir,

With reference to above subject, this is to inform that the Ministry of Environment Forest and Climate Change has granted Environment Clearance for "Industry-III activity i.e. Caustic Soda–1310 KTPA and Acetylene–860 KTPA" (as a part of Proposed Coal to Poly-Vinyl Chloride (PVC) Project of M/s Adani Enterprises Ltd. (AEL) in land notified as Industrial area of APSEZ, Ta Mundra, Dist-Kachchh, Gujarat, comprising of IND-I projects i.e. Semi Coke–2030 KTPA, Cement–6 MTPA; Clinker–4 MTPA, IND-II projects i.e. VCM– 2002 KTPA, PVC–2000 KTPA, Ethylene Glycol– 400 KTPA and IND-III projects i.e. Acetylene–860 KTPA & Caustic Soda–1310 KTPA) and Calcium Carbide–2900 KTPA (Not Specified in EIA Notification)) by M/s Adani Enterprises Ltd." vide EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022. Copy enclosed as **Annexure – A**.

Accordingly, in compliance of EC condition No. B(x), we are submitting herewith copies of following News papers (**Annexure – B**) stating "*the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB (GPCB) and may also be seen at Website of the Ministry at https://parivesh.nic.in/ as well as on Company website at https://adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx* " for your reference, please.

Adani Enterprises Ltd
"Adani Corporate House",
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad 382 421
Gujarat, India
CIN: L51100GJ1993PLC019067

Tel. + 91 79 2656 5555
Fax + 91 79 2555 5500
info@adani.com
www.adani.com

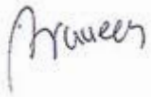
Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382421

adani

Sr. no.	Name of News Paper	Language	Date of Publication
1	Kutch Mitra	Gujarati	05/09/2022
2	Gujarat Samachar	Gujarati	05/09/2022
3	The Times of India	English	05/09/2022

Thanking You.
Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd,



Praveen Anant (Environment - Head)

Encl: As Above

Copy to:

1). **The Member Secretory,**
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector – 10 A,
Gandhinagar 382 010

2). **The Regional Officer,**
Gujarat Pollution Control Board
(Kuchchh East),
Room no.215,216 & 217, Second floor,
Administration Office Building,
Deendayal Port Trust, Sector - 08,
Gandhidham – Kuchchh, 370 201

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અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ

શાંતિગ્રામ, એસ. જી. હાઈવે, અમદાવાદ - ૩૮૨૪૨૧. (ગુજરાત)

જાહેર નોટિસ

મેં. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ, APSEZ ઔદ્યોગિક જમીન, વાંઢ & ટૂંડા ગામ નજીક, તા: મુન્દ્રા, જી: કચ્છ, ગુજરાત ખાતે પ્રસ્તાવિત **"ઇન્ડસ્ટ્રી - ૩ એક્ટિવિટી - કોસ્ટિક સોડા - ૧૩૧૦ કે.ટી.પી.એ. અને એસિટિલિન - ૮૬૦ કે.ટી.પી.એ."** (જે સૂચિત કોલ ટુ પોલી - વિનાયલ (પી.વી.સી.) પ્રોજેક્ટ ના ભાગ રૂપે મેં. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ દ્વારા પ્રસ્તાવિત, APSEZ ઔદ્યોગિક જમીન, વાંઢ & ટૂંડા ગામ નજીક, તા: મુન્દ્રા, જી: કચ્છ, ગુજરાત, જેમાં ઇન્ડસ્ટ્રી - ૧ પ્રોજેક્ટ - સેમી કોક -૨૦૩૦ કે.ટી.પી.એ.; સિમેન્ટ - ૬ એમ.ટી.પી.એમ; ક્લિનકર - ૪ એમ.ટી.પી.એમ; ઇન્ડસ્ટ્રી - ૨ પ્રોજેક્ટ - વી.સી.એમ - ૨૦૦૨ કે.ટી.પી.એ., પી.વી.સી. - ૨૦૦૦ કે.ટી.પી.એ., ઈથીલીન ગ્લાયકોલ - ૪૦૦ કે.ટી.પી.એ, અને ઇન્ડસ્ટ્રી-૩ પ્રોજેક્ટ - એસિટિલિન - ૮૬૦ કે.ટી.પી.એ. અને કોસ્ટિક સોડા - ૧૩૧૦ કે.ટી.પી.એ અને કેલ્શિયમ કાર્બાઇડ - ૨૯૦૦ કે.ટી.પી.એ. (EIA નોટિફિકેશન માં દર્શાવેલ નથી) ના ભાગ રૂપે સમાવેશ થાય છે.)" માટે ની પર્યાવરણીય મંજૂરી મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ, નવી દિલ્લી ના પત્ર ક્રમાંક : **EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022** ના રોજ પ્રાપ્ત થયેલ છે. સદરહુ માન્યતા અંગેનો પત્ર ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ ની ઓફિસ માં તેમજ મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ ની વેબ સાઈટ https://parivesh.nic.in પરથી પણ જોઈ શકાશે. તદ્ ઉપરાંત એન્વિરોન્મેન્ટ ક્લીયરન્સ ની કોપી કંપનનીની વેબસાઇટ https://www.adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx પર પણ જોઈ શકાશે.

sd-

પ્રોદ્યુત માજી (પ્રોજેક્ટ હેડ)

મેં. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ

News Paper: Gujarat Samachar, Page no:9, Date:05/09/2022, Language: Gujarati

અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ

શાંતિગ્રામ, એસ. જી. હાઇવે, અમદાવાદ - ૩૮૨૪૨૧. (ગુજરાત)

જાહેર નોટિસ

મે. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ, APSEZ ઔદ્યોગિક જમીન, વાંઢ ઠ ટૂંડા ગામ નજીક, તા: મુન્દ્રા, જી: કચ્છ, ગુજરાત ખાતે પ્રસ્તાવિત **"ઇન્ડસ્ટ્રી - ૩ એક્ટિવિટી - કોસ્ટિક સોડા - ૧૩૧૦ કે.ટી.પી.એ. અને એસિટિલિન - ૮૬૦ કે.ટી.પી.એ."** (જે સૂચિત કોલ ટુ પોલી - વિનાયલ (પી.વી.સી.) પ્રોજેક્ટ ના ભાગ રૂપે મે. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ દ્વારા પ્રસ્તાવિત, APSEZ ઔદ્યોગિક જમીન, વાંઢ ઠ ટૂંડા ગામ નજીક, તા: મુન્દ્રા, જી: કચ્છ, ગુજરાત, જેમાં ઇન્ડસ્ટ્રી - ૧ પ્રોજેક્ટ - સેમી કોક - ૨૦૩૦ કે.ટી.પી.એ.; સિમેન્ટ - ૬ એમ.ટી.પી.એમ; ક્લિનકર - ૪ એમ.ટી.પી.એમ; ઇન્ડસ્ટ્રી - ૨ પ્રોજેક્ટ - વી.સી.એમ - ૨૦૦૨ કે.ટી.પી.એ., પી.વી.સી. - ૨૦૦૦ કે.ટી.પી.એ., ઈથીલીન ગ્લાયકોલ - ૪૦૦ કે.ટી.પી.એ, અને ઇન્ડસ્ટ્રી-૩ પ્રોજેક્ટ - એસિટિલિન - ૮૬૦ કે.ટી.પી.એ. અને કોસ્ટિક સોડા - ૧૩૧૦ કે.ટી.પી.એ અને કેલ્શિયમ કાર્બાઇડ - ૨૯૦૦ કે.ટી.પી.એ. (EIA નોટિફિકેશન માં દર્શાવેલ નથી) ના ભાગ રૂપે સમાવેશ થાય છે.)" માટે ની પર્યાવરણીય મંજૂરી મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ, નવી દિલ્લી ના પત્ર ક્રમાંક : **EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022** ના રોજ પ્રાપ્ત થયેલ છે. સદરહુ માન્યતા અંગેનો પત્ર ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ ની ઓફિસ માં તેમજ મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ, ફોરેસ્ટ અને ક્લાઇમેટ ચેન્જ ની વેબ સાઇટ https://parivesh.nic.in પરથી પણ જોઇ શકાશે. તદ્ ઉપરાંત એન્વિરોન્મેન્ટ ક્લીયરન્સ ની કોપી કંપનનીની વેબસાઇટ https://www.adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx પર પણ જોઇ શકાશે.

sd-

પ્રોદ્યુત માજી (પ્રોજેક્ટ હેડ)

મે. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ

News Paper: Kutchmitra, Page no:5, Date:05/09/2022,
Language: Gujarati

Adani Enterprises Limited

Shantigram, S.G. Highway, Ahmedabad-382421. (Gujarat)

PUBLIC NOTICE

M/s Adani Enterprises Limited, APSEZ Industrial Land, Near Villages Vandh & Tunda, Taluka Mundra, District - Kachchh, Gujarat has been accorded Environmental Clearance (EC) for project **"Industry-III activity i.e. Caustic Soda-1310 KTPA and Acetylene-860 KTPA** (as a part of Proposed Coal to Poly - Vinyl Chloride (PVC) Project of AEL in land notified as Industrial area of APSEZ, Ta - Mundra, Dist - Kachchh, Gujarat, comprising of IND - I projects i.e. Semi Coke - 2030 KTPA, Cement - 6 MTPA; Clinker - 4 MTPA, IND-II projects i.e. VCM - 2002 KTPA, PVC-2000 KTPA, Ethylene Glycol - 400 KTPA and IND - III projects i.e. Acetylene - 860 KTPA & Caustic Soda - 1310 KTPA) and Calcium Carbide - 2900 KTPA (Not Specified in EIA Notification)) by M/s Adani Enterprises Ltd." by Ministry of Environment, Forest and Climate Change, Government of India vide **EC Identification No. - EC22A013GJ127411, File No. - IA-J-11011/149/2021-IA-II(I) dated 31/08/2022**. The said clearance letter is available at website of the Ministry of Environment, Forest and Climate Change at https://parivesh.nic.in and also available at office of the Gujarat Pollution Control Board (GPCB). Copy of EC is also kept at website of the company at https://www.adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx

sd-
Pradyut Maji (Project Head)
M/s Adani Enterprises Limited

News Paper: The Times of India, Page no:11, Date:05/09/2022, Language: English