

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/GJ/IND3/292526/2022
Compliance ID	642237178
Compliance Number(For Tracking)	EC/M/COMPLIANCE/642237178/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	27-11-2025
RO/SRO Name	Dr G Trinadh Kumar
RO/SRO Email	agmu174.ifs@nic.in
State	GUJARAT
RO/SRO Office Address	Integrated Regional Offices, Gandhi Nagar

Note:- SMS and E-Mail has been sent to Dr G Trinadh Kumar, GUJARAT with Notification to Project Proponent.

To,

Shri Trinadh Kumar Goripati, IFS (Addl. Charge)
Inspector General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office, Gandhinagar,
"Karmayogi Bhawan", Block-3, F-2 Wing, 5th Floor, Near CH-3 Circle,
Sector-10A, Gandhinagar – 382 010
E-mail : iro.gandhingr-mefcc@gov.in

Subject: Six monthly compliance report (April to September, 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: 112012788, Compliance No.: EC/M/COMPLAINCE/112012788/2025
Submission Date: 22/05/2025 for the reporting period October, 2024 to March, 2025.

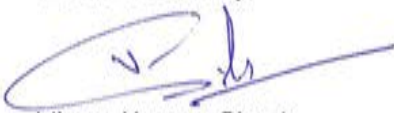
Respected Sir,

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 with construction activities are ongoing at the site. We are hereby submitting a soft copy of the six-monthly EC compliance report for the period April to September, 2025.

We hope you will find the above in order.

Thanking you,
Yours faithfully,



Vinay Kumar Singh
CSO & BU Environment Head



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

Mundra Petrochem Limited
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CIN: U23209GJ2021PLC122112

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MUNDRA PETROCHEM LIMITED

Six Monthly EC Compliance Report

April – September, 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 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 PVC project is currently in the final design, detailed engineering, and procurement stage with construction activities are ongoing at the site. The latest progress status of site construction activities is attached as **Annexure - I**.

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 November 21st, 2025. 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 – II. 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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. The adequate area is already allocated for developing & maintaining greenbelt as per the prevailing statutory/regulatory requirements. 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 – III 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 PVC project is currently in the final design, detailed engineering, and procurement stages. with, 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 i.e CSO & BU Environment Head 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, construction activities are ongoing at the site. The project site has implemented several environmental protection measures and safeguards in line with the EMP, fulfilling relevant regulatory requirements and using the best available technologies. These measures include water sprinkling on roads to reduce dust, enforcing speed limits to control airborne particulate matter, and transporting materials either in bulkers or covered with tarpaulin sheets. 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	Noted and shall be complied with the requirements. Remarks- Water needed for construction is currently supplied by the Seawater

	recycling of the water. Project has obtained willingness letter for 220 MLD water supply 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	Desalination Plant, and this source will continue to be used throughout the operations phase. There is no groundwater extraction taking place, nor are there any plans for it in the future. 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 - IV. 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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	Noted and shall be complied with the requirements. Remarks: The PVC project is currently in the final design, detailed engineering, and procurement stage with construction activities are ongoing at the site. The best

	report shall be submitted to the IRO, MoEF&CC in this regard.	available technologies are being adopted as part of process design aiming for carbon emission reductions. 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 – III . 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 PVC project is currently in the final design, detailed engineering, and procurement stage with 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 – V .
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stages. with, 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 - IV .
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 - IV .
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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. Furthermore, once operations commence, routine occupational health monitoring of employees will be implemented, with all records maintained in accordance with established protocols
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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	Noted and shall be complied with.

	manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Remarks - The PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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;	Noted and shall be complied with the requirements. Remarks- The PVC project is currently in the final design, detailed engineering, and

	(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.	procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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. During the reporting period, total CER expenditure on various community welfare and eco-development initiatives amounted to INR 232.713 lakhs. Cumulative CER spending up to the end of the reporting period stands at approximately INR 1533.713 lakhs, reflecting in line with progress of the project. The details of CER activities with expenditures are summarized in CER report enclosed as Annexure – VI.
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	Agreed with requirement. An application under Para 7 (ii) (c) of the EIA notification vide reference

	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.	SW/265935/2025 dated 19/11/2025 has been submitted at PARIVESH portal for change in plant configuration during execution of the project as outcome of detailed engineering and process design, without change in production capacity and no increase in pollution load (NIPL) in line with the MoEF&CC notification vide reference S.O. 980(E) 2nd March 2021. A certificate of "no increase in the pollution load (NIPL)" for the proposed changes is obtained from the reputed State-Owned Public-Sector agency i.e. M/s Gujarat Industrial and Technical Consultancy Organization Ltd. (GITCO), also a recognized Schedule-I Environmental Auditor by the GPCB. The Acknowledgement copy from the PARIVESH Portal in respect of No change in production capacity and No increase in pollution load for the project proposal NIPL for Coal to Poly - vinyl Chloride (PVC) complex under the provisions of para 7(ii) c of EIA Notification and its subsequent amendment S.O.980-(E), dated 2nd March 2021 is attached as Annexure – VII.
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 – IV.
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, construction activities are ongoing at the site. A range of eco-development initiatives, as well as community welfare programs, are being carried out in stages to improve the socio-economic status of the region. These efforts fall under Corporate Environmental Responsibility (CER) and involve collaboration with local villages and authorities. 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 initiated CER activities across all villages within the project area. During the reporting period, total CER expenditure on various community welfare and eco-development initiatives amounted to INR 232.713 lakhs. Cumulative CER spending up to the end of the reporting period stands at

		approximately INR 1533.713 lakhs, reflecting in line with progress of the project. The details of CER activities with expenditures are summarized in CER report enclosed as Annexure – VI .
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, construction activities are ongoing at the site. Adequate funds for EMP / environment management / pollution control measures as part of CAPEX & OPEX have been kept for implementing and complying the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the state Government.
(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 – VIII . 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 PVC project is currently in the final design, detailed engineering, and procurement stages. with, 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-IX.
(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 – X.
(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 PVC project is currently in the final design, detailed engineering, and procurement stage with, 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 1 st 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.

Annexures

Annexure No.	Name
I	Progress Status (Photographs) of Site construction activities.
II	Status of PIL no 36/2022
III	Tree Plantation Activities.
IV	Environment Monitoring Report.
V	Activities as per approved "Wildlife Conservation Plan".
VI	CER Activities.
VII	Ack. Copy for NIPL Application.
VIII	Letter for Submission of EC copy to Concern Local Authorities.
IX	e-mail copy of submission of Environment Statement – Form – V.
X	Letter for submission of News paper and EC copy to concern authorities.

Annexure – I

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



PVC Unit



Os&Us Area – Non Metallic Tank Erection



Os&Us Area – PVC Bagging Warehouse



PVC Plant – Stripping Column



VCM Plant



VCM Plant Train - 2



Acetylene Plant



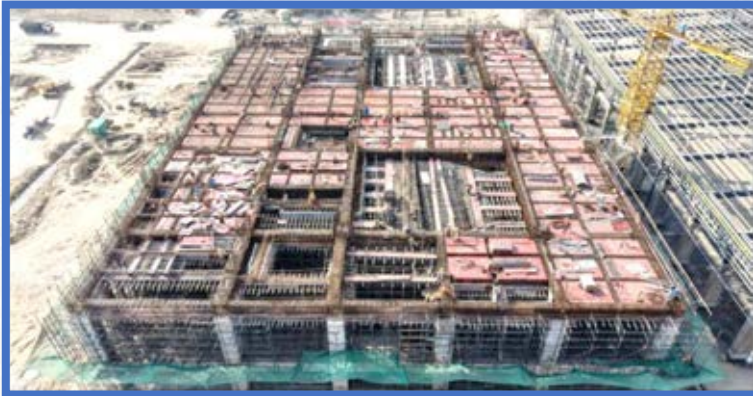
Acetylene Plant Gas Holder



CaC2 Plant Furnace#6 Workshop



CaC2 Plant - Semi Coke Dryer



CaC2 Plant Furnace #5 Workshop



Chlor Alkali Plant - Rectifier Substation



Chlor – Alkali Plant – HCl Desorption Train #2



Chlor – Alkali Plant – Waste Gas Treatment

Annexure – II

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 21st November, 2025. Presently the matter is still pending for hearing. A copy of the latest update (as on 25th Nov, 2025) is attached herewith as **Annexure-IIA**.

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 - IIA

Email My Case Status

WRIT PETITION (PIL) WRIT PETITION (PIL) No. 36 of 2022			CNR No : GJHC240244952022		
Status : PENDING			(Filing(Stamp) Number : WPPII/12417/2022)		
Next Listing Date: 16/01/2026					
Coram HONOURABLE THE CHIEF JUSTICE MRS. JUSTICE SUNITA AGARWAL and HONOURABLE MR.JUSTICE D.N.RAY					
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		
Bench Category			: DIVISION		
Case Originated From			: -		
Purpose of Listing			: 192-NOTICE & ADJOURNED MATTERS		
Classification			876-DB - PIL - PIL - ANY OTHER / MISCELLANEOUS MATTERS		
Act			CONSTITUTION OF INDIA		
			Registered On		
			District		
			: 21/04/2022		
			: KACHCHH		

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		
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		
10	12/09/2025	1	49	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	- HONOURABLE THE CHIEF JUSTICE MRS. JUSTICE SUNITA AGARWAL - HONOURABLE MR.JUSTICE D.N.RAY		
11	21/11/2025	1	38	192-NOTICE & ADJOURNED MATTERS	1-NEXT DATE	- HONOURABLE THE CHIEF JUSTICE MRS. JUSTICE SUNITA AGARWAL - HONOURABLE MR.JUSTICE D.N.RAY		
Available Orders								
S. No.	Case Details	Judge Name	Order Date	CAV	Judgement	Questions	Transferred	Download
1	WPPII/36/2022	- HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR - HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI	26/04/2022	N	ORDER	-	Y	Download
2	WPPII/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			

S. No.	Filing Date	Document Name	Advocate Name	Court Fee on Document	Document Details
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 FOR TRANSLATION DETAILS					

Annexure – III

Tree Plantation Activities

Tree plantation plays a pivotal role in enhancing community well – being and addressing global environmental challenges. As urbanization accelerates and climate change becomes increasingly urgent, the act of planting trees offers both immediate and long – term advantages. Further, tree plantation is essential not only for fostering healthier, more resilient communities but also for combating climate change through carbon sequestration. By participating in carbon sequestration, communities can turn environmental action into economic opportunity, creating a cycle of sustainability that benefits people and the planet.

These tree plantations will accelerate:

- a) Environmental Improvement and balancing life cycles.
- b) Improving air quality through absorbing carbon dioxide, filtering air pollutants and producing oxygen.
- c) Enhancing Public Health and economic advantages.
- d) Controlling soil erosion, maintaining water cycles and providing habitats for wildlife.
- e) Reduced surface heat, lower temperature and offer shades through which minimizing heat related illness.





Tree Plantation have been done with 2500+, 5000+ and 5000+ numbers of native species at villages Deshalpar, Nani Khakhar and Zarpara respectively by expert i.e M/s Yash Green with 2 year maintenance time period.



Total 12500+ trees have been planted (April – September, 2025) at nearby villages to combat climate change and enhance biodiversity. Further, 101036+ numbers of cumulative trees have been planted at nearby villages for the period up to September, 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% +



103+ acre (cumulative) land were used for tree plantation

16.5 for the reporting period and

CO₂ Sequestration

2424.864+ tCO₂e will Seq. (Cumulative)

Tree Plantation Details

Sr. No.	Details of Expert Agency	Scientific Name	Quantity	Survival Rate
1	M/s Yash Green (Planting + 2year Maintenance) Village - Deshalpar (No. of Trees 2500)	Cordia gharaf (Forsk.) E.&A.	75	98 – 100 %
2		Pithecellobium dulce (Roxb.) Benth.	180	
3		Moringa oleifera Lam.	75	
4		Derris indica (Lam.) Bennet	50	
5		Azadirachta indica A. Juss.	200	
6		Morus alba L.	40	
7		Tecomella undulata (Sw.) Seem.	40	
8		Commiphora wightii (Arn.) Bhandari	100	
9		Dalbergia sissoo Roxb.	40	
10		Zizyphus mauritiana Lam.	40	
11		Albizia lebbeck (L.) Bth.	25	
12		Terminalia arjuna (Roxb.) W. & A.	50	
13		Grewia tiliaefolia Vahl var. tiliaefolia	50	
14		Aegle marmelos (L.) Corr.	87	
15		Cassia fistula L.	100	
16		Cordia dichotoma Forst.	80	
17		Holoptelia integrifolia	50	
18		Murraya koenigii (L.) Spr.	10	
19		Psidium guajava L.	83	
20		Syzygium cumini	150	
21		Tamarindus indica L.	125	
22		Butea monosperma (Lam.) Taub.	50	
23		Manilkara zapota (L.) van Royen	75	
24		Mimusops elengi L.	50	
25		Plumeria rubra L.	10	
26		Ficus benghalensis L.	180	
27		Ficus religiosa L.	180	
28		Gmelina arborea L.	20	
29		Bauhinia racemosa Lam.	10	
30		Ficus racemosa	40	
31		Peltoform	60	
32		Phoenix Sylvestris & Phoenix dactylifera	25	
33		Coconut/ Cocos Nucifera	15	
34		Delonix Regia	50	
35		Mangifera Indica	35	
36		Millingtonia Hortensis	25	
37		Cassia Siamea	25	

Sr. No.	Details of Expert Agency	Scientific Name	Quantity	Survival Rate
1	M/s Yash Green (Planting + 2year Maintenance) Zarpara (No. of Trees: 5000)	Cordia gharaf (Forsk.) E.&A.	150	98 – 100%
2		Pithecellobium dulce (Roxb.) Benth.	150	
3		Moringa oleifera Lam.	75	
4		Derris indica (Lam.) Bennet	100	
5		Azadirachta indica A. Juss.	500	
6		Morus alba L.	150	
7		Tecomella undulata (Sw.) Seem.	50	
8		Commiphora wightii (Arn.) Bhandari	100	
9		Dalbergia sissoo Roxb.	50	
10		Zizyphus mauritiana Lam.	50	
11		Albizia lebbeck (L.) Bth.	50	
12		Terminalia arjuna (Roxb.) W. & A.	75	
13		Grewia tiliaefolia Vahl var. tiliaefolia	50	
14		Aegle marmelos (L.) Corr.	150	
15		Cassia fistula L.	100	
16		Cordia dichotoma Forst.	130	
17		Holoptelia integrifolia	50	
18		Murraya koenigii (L.) Spr.	20	
19		Psidium guajava L.	150	
20		Syzygium cumini	175	
21		Tamarindus indica L.	175	
22		Butea monosperma (Lam.) Taub.	100	
23		Manilkara zapota (L.) van Royen	150	
24		Mimusops elengi L.	100	
25		Plumeria rubra L.	75	
26		Ficus benghalensis L.	400	
27		Ficus religiosa L.	400	
28		Gmelina arborea L.	50	
29		Bauhinia racemosa Lam.	25	
30		Ficus racemosa	400	
31		Peltoform	250	
32		Phoenix Sylvestris & Phoenix dactylifera	100	
33		Coconut/ Cocos Nucifera	50	
34		Delonix Regia	75	
35		Mangifera Indica	75	
36		Millingtonia Hortensis	50	
37		Cassia Siamea	150	
38		Adhatoda zeylanica Medic	50	

Sr. No.	Details of Expert Agency	Scientific Name	Quantity	Survival Rate
1	M/s Yash Green (Planting + 2year Maintenance) Village : Nani Khakhar (No. of Trees - 5000)	Cordia gharaf (Forsk.) E.&A.	100	98 -100%
2		Pithecellobium dulce (Roxb.) Benth.	150	
3		Moringa oleifera Lam.	75	
4		Derris indica (Lam.) Bennet	125	
5		Azadirachta indica A. Juss.	500	
6		Morus alba L.	200	
7		Tecomella undulata (Sw.) Seem.	50	
8		Commiphora wightii (Arn.) Bhandari	150	
9		Dalbergia sissoo Roxb.	25	
10		Zizyphus mauritiana Lam.	50	
11		Albizia lebbeck (L.) Bth.	37	
12		Terminalia arjuna (Roxb.) W. & A.	50	
13		Grewia tiliaefolia Vahl var. tiliaefolia	38	
14		Aegle marmelos (L.) Corr.	150	
15		Cassia fistula L.	100	
16		Cordia dichotoma Forst.	75	
17		Holoptelia integrifolia	37	
18		Murraya koenigii (L.) Spr.	38	
19		Psidium guajava L.	125	
20		Syzygium cumini	150	
21		Tamarindus indica L.	200	
22		Butea monosperma (Lam.) Taub.	125	
23		Manilkara zapota (L.) van Royen	125	
24		Mimusops elengi L.	75	
25		Plumeria rubra L.	75	
26		Ficus benghalensis L.	500	
27		Ficus religiosa L.	500	
28		Gmelina arborea L.	50	
29		Bauhinia racemosa Lam.	50	
30		Ficus racemosa	400	
31		Peltoform	100	
32		Phoenix Sylvestris & Phoenix dactylifera	75	
33		Coconut/ Cocos Nucifera	75	
34		Delonix Regia	125	
35		Mangifera Indica	75	
36		Millingtonia Hortensis	50	
37		Cassia Siamea	150	
38		Adhatoda zeylanica Medic	25	
Total			12500	

M/S. MUNDRA PETROCHEM LIMITED (MPL)

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

Month: April to Sept 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

This report is released for the use of Mundra Petrochem Limited (MPL), Regulators and relevant stakeholders solely as part of the subject project's Environmental Compliance Process. Information provided, unless attributed to referenced third parties, is copyrighted, and shall not be used for any other purpose without the written consent from Mundra Petrochem Limited (MPL).

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	October 2025
Prepared & Managed By	MS. Pooja Gandhi		Approved by		Mr. Jaivik Tandel		
Released By	Unistar Environment and Research Labs Pvt. Ltd.						

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ABBREVIATIONS AND ACRONYMS

MPL	:	Mundra Petrochem 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 ₂ H ₂	:	Acetylene
CaC ₂	:	Calcium Carbide
C ₂ H ₃ Cl	:	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

The Adani Group is a diversified organisation in India comprising 11 publicly traded companies. It has created a world class transport and utility infrastructure portfolio that has a pan-India presence. 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 four IG rated businesses, it is the only Infrastructure Investment Grade issuer in 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 -Coal 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 increasing its ESG footprint by realigning 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/24/2345-DTB-2012	Envirotech/ APM 460-BL	19/12/2024	18/12/2025
2.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/30/132-DTL-2012	Envirotech/ APM 550-MINI	18/12/2024	17/12/2025
3.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/25/1744-DTA-2013	Envirotech/ APM 460-BL	18/12/2024	17/12/2025
4.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/41/137-DTD-2013	Envirotech/ APM 550-MINI	19/12/2024	18/12/2025
5.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/26/1745-DTA-2013	Envirotech/ APM 460-BL	19/12/2024	18/12/2025
6.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/42/125-DTD-2013	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

Sr. No.	Parameter	Technique	Technical protocol	Permissible Limit (As per NAAQS)
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

Sr. No.	Parameter	Technical protocol	IS 10500 Standard Limits for drinking water	
			Desirable limit	Per. Limit in the Abs. of Alt. Source
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
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 23 rd 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

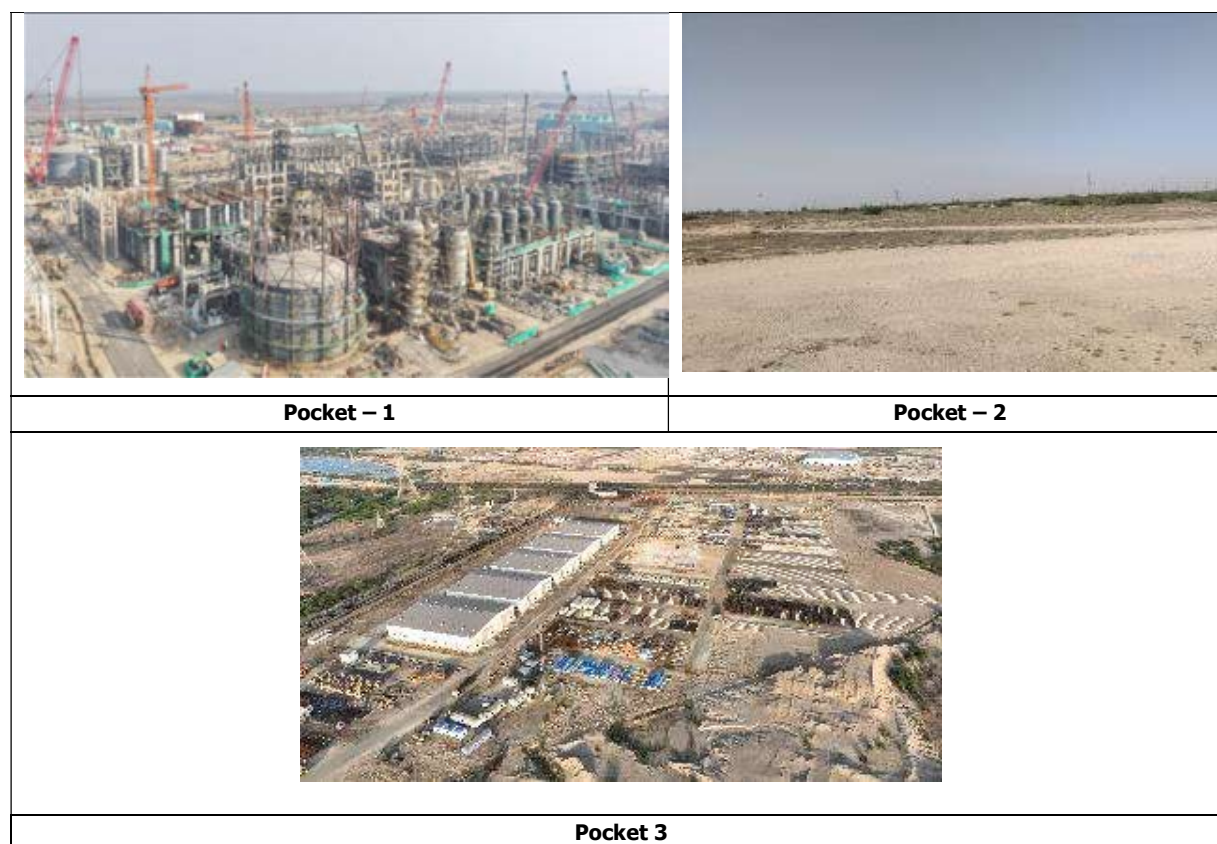
2.3 Location (map showing general location, Monitoring location and project boundary) with coordinates & Monitoring details.

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)



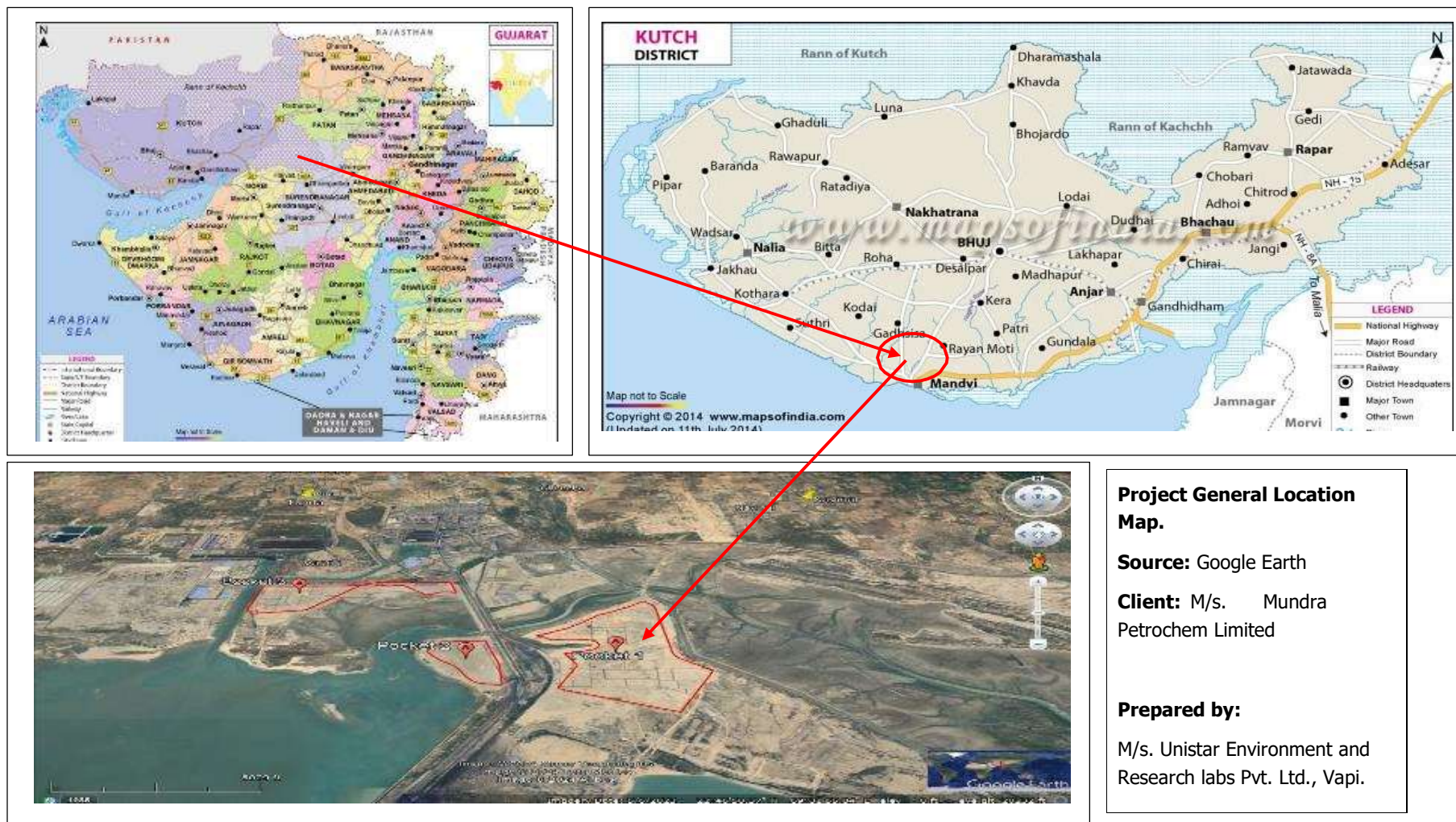
Photograph 2-2: Photographs of monitoring

	
Project Site (Pocket – 1)	Project Site (Pocket – 2)
	
Project Site (Pocket – 3)	Near Fabrication & Batching Plant
	
Village Navinal	Village Vandh

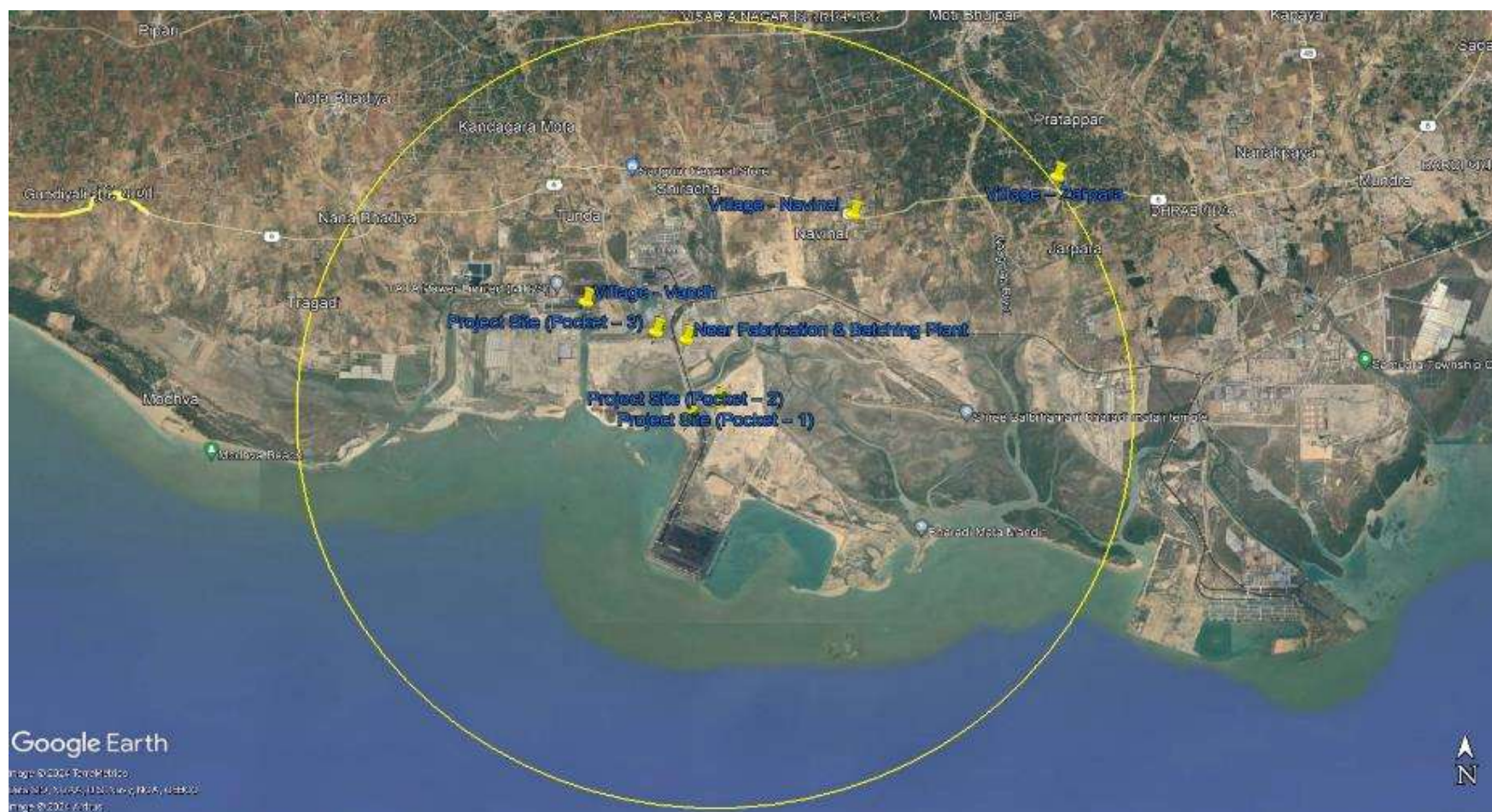
 Jarpara, Gujarat, India Rjw-9mk, Jarpara, Gujarat 370405, India Lat 22.637892° Long 69.646203° 16/06/2025 10:21 AM GMT +05:30	 Saturday, September 27, 2025, 12:07:38 Kachubh, Unnamed Road, Gujarat, India, 370405 22° 47' 8" N, 69° 24' 0" E -32m 32.4°C ~ 5.8Km/h ~ 8%
Village-Zarpara	Project Site (Pocket – 1) - STP
 Friday, September 26, 2025, 09:12:54 Unnamed Road, India 22° 48' 1" N, 69° 53' 32" E -34m 38.6°C ~ 8.6km/h ~ 42%	 Friday, June 06, 2025, 15:05:09 RJPW-6K2, Jarpara, Zarpara, Gujarat 370405, India 22° 50' 8" N, 69° 28' 53" E -23m
Near Fabrication & Batching Plant	Village-Zarpara
 Friday, June 06, 2025, 10:54:07 Unnamed Road, Gujarat 370405, India 22° 48' 16" N, 69° 32' 14" E -39m 30.9°C ~ 21.2Km/h ~ 61%	 Friday, June 06, 2025, 10:34:05 Unnamed Road, Gujarat 370405, India 22° 47' 27" N, 69° 35' 41" E -47m 31.6°C ~ 22.9Km/h ~ 67%
Marine Water – APL Intake	Marine Water – Kotadi Creek

**Surface Water- Village****Surface Water - Siracha Village****Surface Water – Nagmati River****Ground Water – Nana Bhadiya****Ground Water – Siracha****Ground Water – Deshalpur**

Map 2-1: Images Project General Location Map



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.

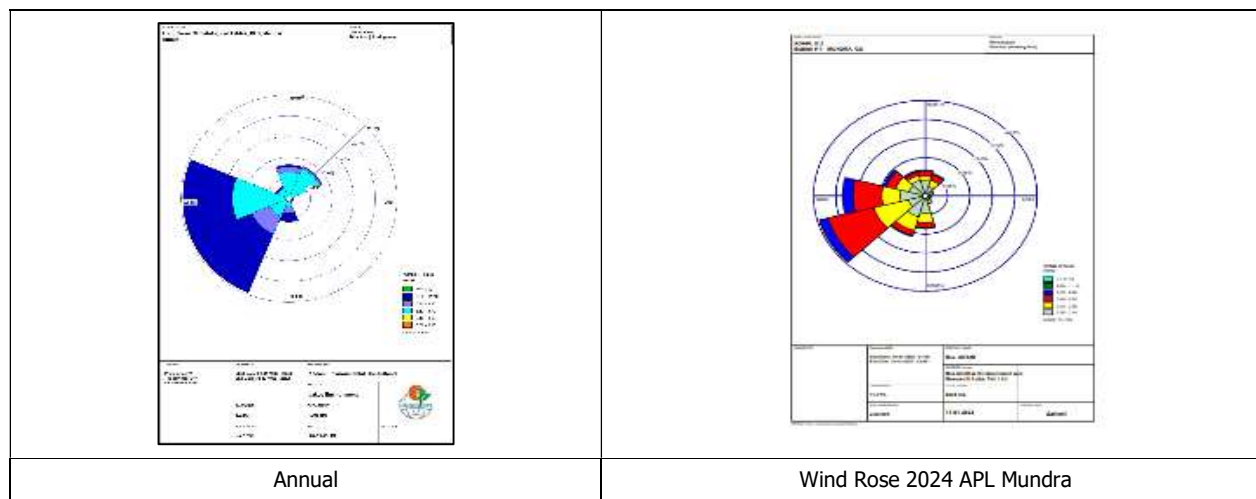
Average meteorological condition recorded at metrological station is as given in below table.

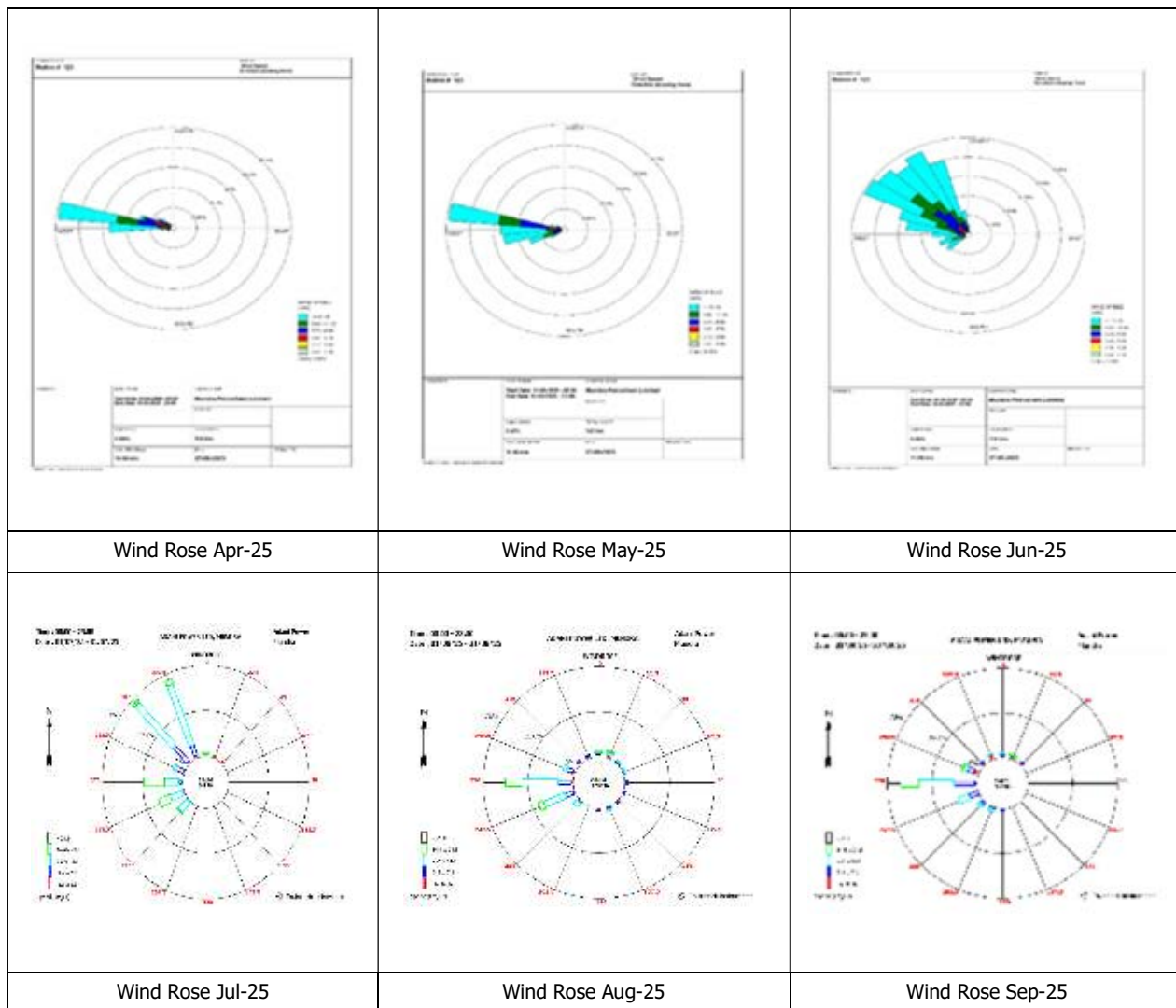
Table 3-1: Average meteorological condition

Weather Monitoring Data							
Month	Scale	Temp. (°C)	RH (%)	BP (mmHg)	Wind Direction	Wind speed (Km/ Hr.)	Total Rainfall (mm)
April 2025 to September 2025	Max.	44.5	98.1	765.9	360.0	42.3	682
	Min.	23.0	8.0	744.0	0.0	0.0	
	Average/ Total	30.9	73.9	751.6	272.9	10.4	

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.





4 ANALYSIS & INTERPRETATION

4.1 Ambient Air

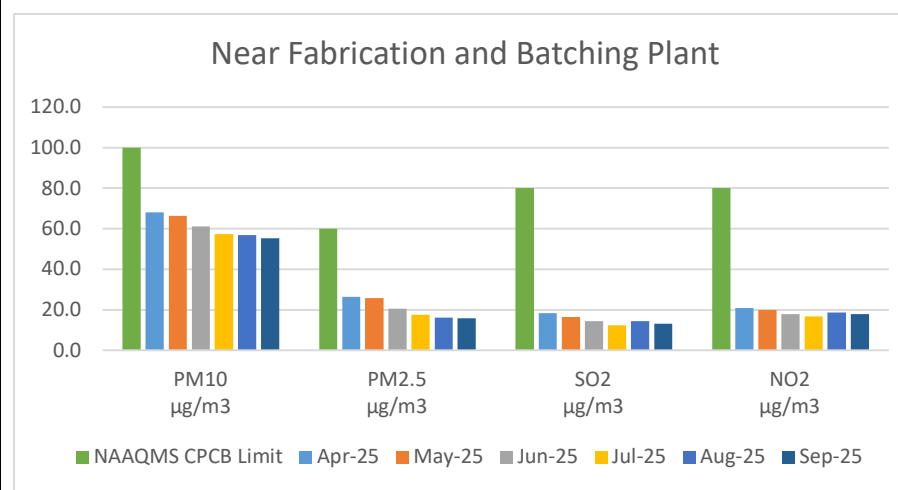
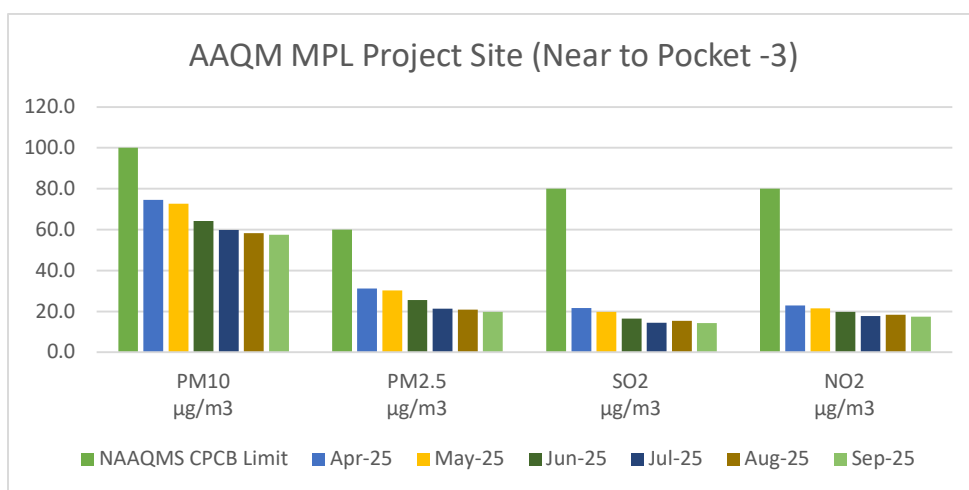
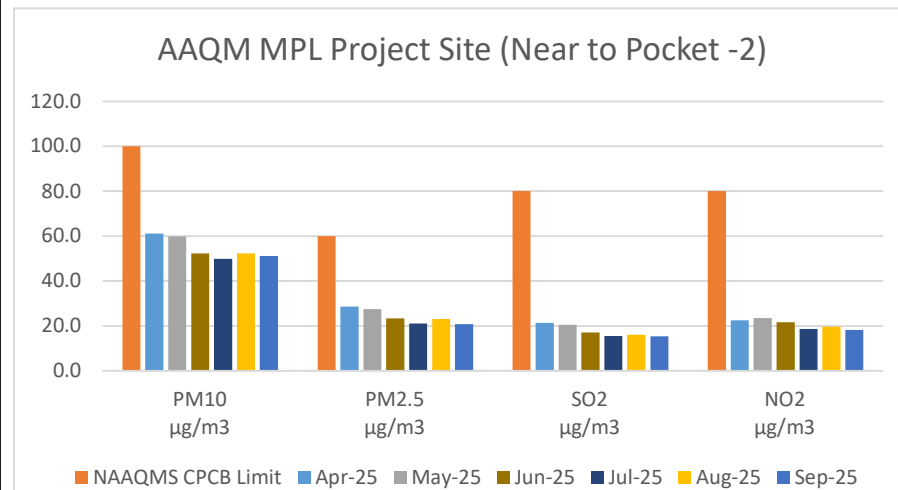
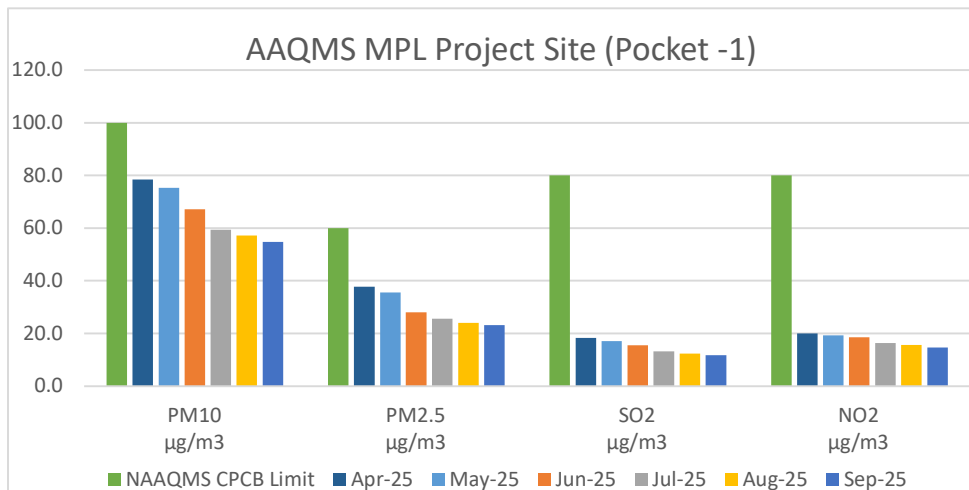
Sr. No.	Month	Parameter with Results											
		PM10	PM2.5	SO2	NO2	CO	O3	NH3	Pb	Ni	As	Benzene	Benzo (a) Pyrene
		µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	µg/m ³	ng/m ³
		Permissible Limit As per NAAQS – 2009 Notification.											
		100	60	80	80	2	400	100	1	6	20	5	1
Location : Project Site (Near to Pocket -1)													
1	Apr-25	78.5	37.8	18.3	20.1	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	75.3	35.6	17.1	19.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	67.2	28.1	15.5	18.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	59.3	25.7	13.2	16.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	57.2	24.1	12.4	15.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	54.8	23.1	11.7	14.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/25/04/A-065 dt. 05/05/2025, URA/25/05/A-066 dt. 06/06/2025, URA/25/06/A-058 dt. 03/07/2025, URA/25/07/A-094 dt. 04/08/2025, URA/25/08/A-079 dt. 03/09/2025, URA/25/09/A-066 dt. 04/10/2025													
Location: Project Site (Near to Pocket -2)													
1	Apr-25	61.2	28.7	21.4	22.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	59.8	27.6	20.6	23.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	52.3	23.4	17.2	21.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	49.9	21.1	15.5	18.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	52.3	23.1	16.2	19.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	51.1	20.9	15.4	18.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/25/04/A-066 dt. 05/05/2025, URA/25/05/A-080 dt. 06/06/2025, URA/25/06/A-059 dt. 03/07/2025, URA/25/07/A-104 dt. 04/08/2025, URA/25/08/A-096 dt. 03/09/2025, URA/25/09/A-071 dt. 04/10/2025													
Location: Project Site (Near to Pocket -3)													
1	Apr-25	74.5	31.2	21.7	22.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	72.6	30.2	19.8	21.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	64.3	25.6	16.5	19.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	59.8	21.3	14.5	17.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	58.2	20.9	15.4	18.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	57.5	19.8	14.2	17.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/25/04/A-075 dt. 05/05/2025, URA/25/05/A-068 dt. 06/06/2025, URA/25/06/A-061 dt. 03/07/2025, URA/25/07/A-103 dt. 04/08/2025, URA/25/08/A-089 dt. 03/09/2025, URA/25/09/A-067 dt. 04/10/2025													

Location: Near Fabrication and Batching Plant													
1	Apr-25	68.1	26.5	18.3	20.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	66.3	25.8	16.5	19.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	61.2	20.5	14.4	17.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	57.3	17.5	12.4	16.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	56.8	16.2	14.4	18.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	55.2	15.8	13.1	17.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No.- URA/25/04/A-076 dt. 05/05/2025, URA/25/05/A-069 dt. 06/06/2025, URA/25/06/A-077 dt. 03/07/2025, URA/25/07/A-102 dt. 04/08/2025, URA/25/08/A-090 dt. 03/09/2025, URA/25/09/A-057 dt. 04/10/2025													
Location : Village Navinal													
1	Apr-25	65.4	29.9	18.9	20.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	64.1	27.4	17.3	20.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	59.3	23.1	15.6	18.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	52.4	21.1	12.5	15.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	54.6	23.7	13.4	17.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	53.6	22.9	11.2	15.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/25/04/A-081 dt. 05/05/2025, URA/25/05/A-065 dt. 06/06/2025, URA/25/06/A-076 dt. 03/07/2025, URA/25/07/A-100 dt. 04/08/2025, URA/25/08/A-083 dt. 03/09/2025, URA/25/09/A-054 dt. 04/10/2025													
Location : Village Zarpara													
1	Apr-25	62.3	24.3	18.2	19.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	60.4	22.5	17.6	20.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	55.4	18.1	14.2	18.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	50.4	15.3	13.2	16.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	48.3	17.4	11.5	15.1	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	47.3	16.2	10.9	14.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/25/04/A-070 dt. 05/05/2025, URA/25/05/A-047 dt. 06/06/2025, URA/25/06/A-010 dt. 03/07/2025, URA/25/07/A-101 dt. 04/08/2025, URA/25/08/A-084 dt. 03/09/2025, URA/25/09/A-055 dt. 04/10/2025													
Location : Village Vandh													
1	Apr-25	67.2	25.6	18.8	19.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-25	65.4	24.3	15.4	18.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-25	57.5	21.2	13.1	16.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-25	54.2	19.5	12.3	17.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-25	50.6	17.5	13.2	16.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-25	49.7	17.6	12.6	15.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No.- URA/25/04/A-082 dt. 05/05/2025, URA/25/05/A-079 dt. 06/06/2025, URA/25/06/A-063 dt. 03/07/2025, URA/25/07/A-108 dt. 04/08/2025, URA/25/08/A-080 dt. 03/09/2025, URA/25/09/A-058 dt. 04/10/2025													

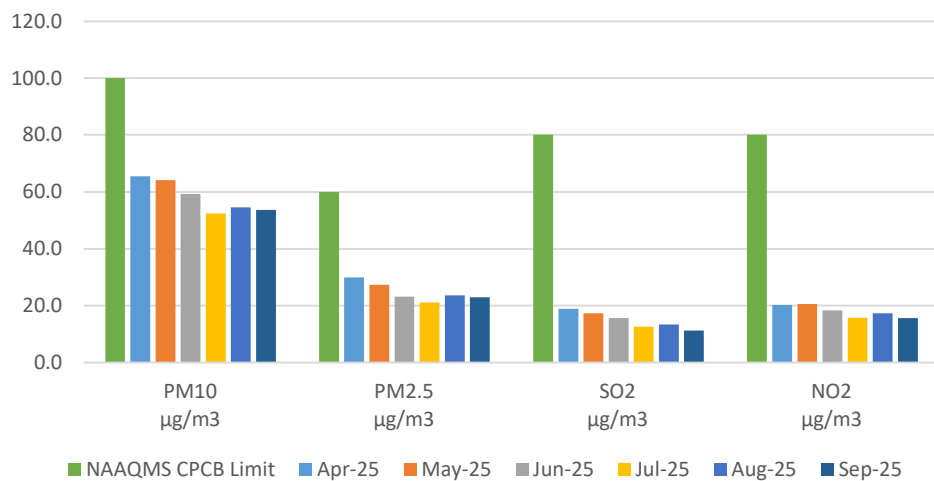
Observations

- The concentration of PM10 ranged from 78.5 µg/m³ at the Project Site - Pocket 1 to 47.3 µg/m³ in the Village of Zarpara, with an average concentration of 59.3 µg/m³.
- The concentration of PM2.5 ranged from 37.8 µg/m³ at the Project Site - Pocket -1 to 15.3 µg/m³ in the Village of Zarpara, with an average concentration of 23.3 µg/m³.
- The concentration of SO₂ ranged from 21.7 µg/m³ at the Project Site - Pocket 3 to 10.9 µg/m³ in the Village of Zarpara, with an average concentration of 15.4 µg/m³.
- The concentration of NO₂ ranged from 23.6 µg/m³ at the Project Site - Pocket 2 to 14.2 µg/m³ in the Village of Zarpara, with an average concentration of 18.5 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.

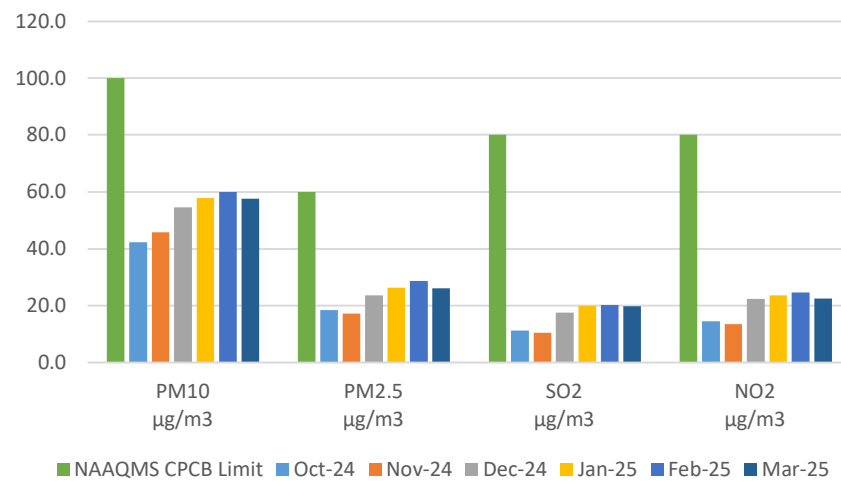
The concentrations of all monitored air quality parameters were found to be within the permissible limits as defined by the National Ambient Air Quality (NAAQ) Standards set by the Ministry of Environment, Forest and Climate Change (MoEF&CC).



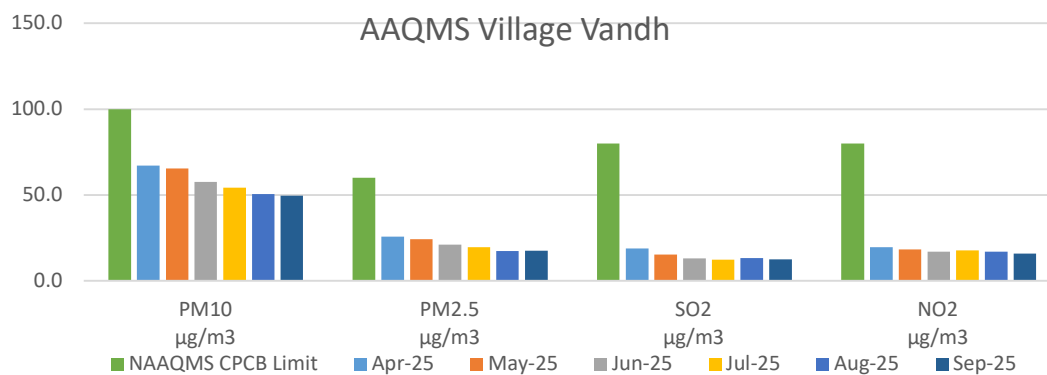
AAQMS Village Navinal



AAQMS Village Zarpara



AAQMS Village Vandh



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	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	CPCB Limits	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	PS (Pkt – 1)	75	58.2	57.2	56.5	57.8	59	60.4	70	46.8	45.8	46	46.8	46.3	48
2	PS (Pkt – 2)	75	57.5	56.4	54.6	56.1	56.8	56.9	70	45.7	44.8	43.4	45.2	48.1	49.9
3	PS (Pkt – 3)	75	57	54.9	53.4	54.4	54	55.3	70	47.3	46.5	45.4	47.4	46.2	47.6
4	Nr. Fab. & Batch. Plant	75	58.3	56.3	55.5	57.1	60	60	70	46.0	43.5	41.9	43.8	44.6	47.8
5	Vill - Navinal	55	43.9	42.7	42	44.1	49.6	54.8	45	37.7	35.7	36.9	38.2	39.2	44.4
6	Vill - Zarpara	55	52	49.7	48.5	48.9	51	53.8	45	41.0	31.2	38.5	38.1	40.9	41.7
7	Vill - Vandh	55	49	47.2	46.3	48.6	52.2	57	45	39.1	38.2	37.5	37.9	39.8	44.9
Report Ref. No.- URA/25/04/AN-034 dt.05/05/25, URA/25/04/AN-035 dt.05/05/25, URA/25/04/AN-044 dt.05/05/25, URA/25/04/AN-045 dt.05/05/25, URA/25/04/AN-048 dt.05/05/25, URA/25/04/AN-041 dt.05/05/25, URA/25/04/AN-049 dt.05/05/25, URA/25/05/AN-039 dt.06/06/25, URA/25/05/AN-047 dt.06/06/25, URA/25/05/AN-040 dt.06/06/25, URA/25/05/AN-041 dt.06/06/25, URA/25/05/AN-038 dt.06/06/25, URA/25/05/AN-037 dt.06/06/25, URA/25/05/AN-046 dt.06/06/25, URA/25/06/AN-028 dt. 03/07/25, URA/25/06/AN-029 dt. 03/07/25, URA/25/06/AN-034 dt. 03/07/25, URA/25/06/AN-037 dt. 03/07/25, URA/25/06/AN-036 dt. 03/07/25, URA/25/06/AN-007 dt. 03/07/25, URA/25/06/AN-035 dt. 03/07/25 URA/25/07/AN-040 dt.04/08/25, URA/25/07/AN-046 dt.04/08/25, URA/25/07/AN-045 dt.04/08/25, URA/25/07/AN-044 dt.04/08/25, URA/25/07/AN-042 dt.04/08/25, URA/25/07/AN-043 dt.04/08/25, URA/25/07/AN-047 dt.04/08/25 URA/25/08/AN-029 dt.03/09/25, URA/25/08/AN-041 dt.03/09/25, URA/25/08/AN-035 dt.03/09/25, URA/25/08/AN-036 dt.03/09/25, URA/25/08/AN-033 dt.03/09/25, URA/25/08/AN-034 dt.03/09/25, URA/25/08/AN-030 dt.03/09/25 URA/25/09/AN-027 dt.04/10/25, URA/25/09/AN-032 dt.04/10/25, URA/25/09/AN-028 dt.04/10/25, URA/25/09/AN-024 dt.04/10/25, URA/25/09/AN-019 dt.04/10/25, URA/25/09/AN-055 dt.04/10/25, URA/25/09/AN-025 dt.04/10/25															

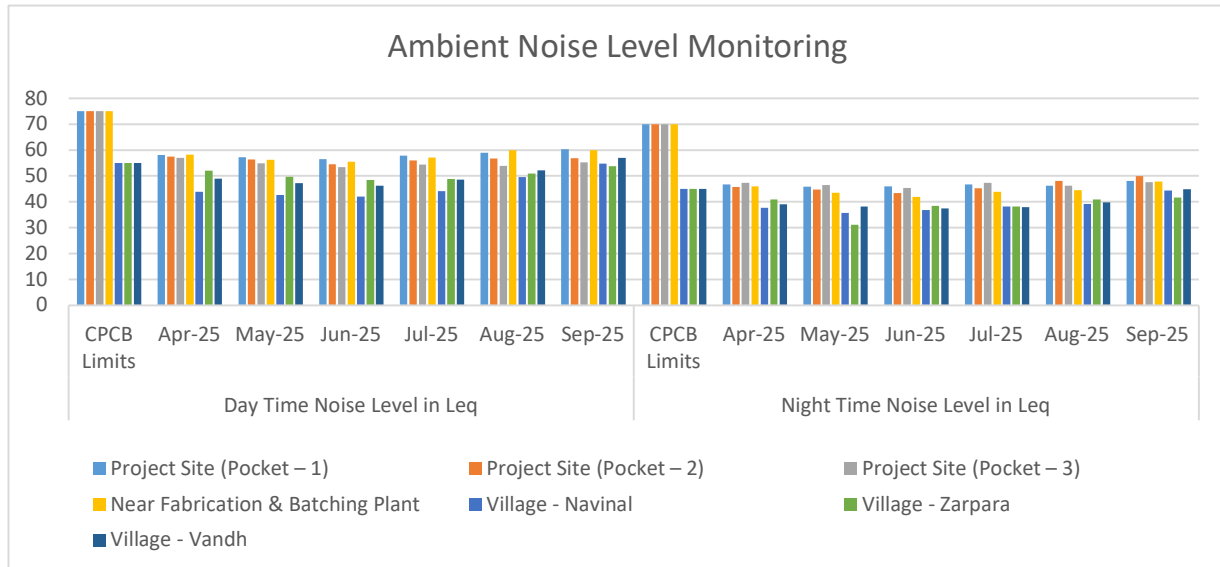
Observations

Industrial Zone

The Average Leq (equivalent continuous sound level) during the day for the industrial zone ranged from 60.4 dB(A) at Project Site (Pocket – 1) to 53.4 dB(A) at Project Site (Pocket – 3). Similarly, the Leq during the night ranged from 49.9 dB(A) at Project Site (Pocket – 2) to 41.9 dB(A) at Near Fabrication & Batching Plant. 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 57.0 dB(A) in Village Vandh to 42.0 dB(A) in the village Navinal. Meanwhile, the Leq during the night ranged from 44.9 dB(A) in Village Vandh to 31.2 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.



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	8.38	8.47	8.36	8.37	8.41	7.48	8.42	8.38
2	Temp	o C	NS	NS	30	30	30	30	30	30	30	30
3	Turbidity	NTU	1	5	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)
4	TDS	mg/l	500	2000	968	1940	2050	1990	2220	3230	1680	2560
5	Electrical Conductivity	µmhos/cm	NS	NS	1460	2930	3100	3010	3360	4909	2540	3870
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 (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)	BDL (MDL1.0)
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:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
9	Chlorides	mg/l	250	1000	249.9	604.8	649.8	650	764	1484.8	467.4	986
10	Sulphate	mg/l	200	400	45.5	139.4	113.1	128.4	97.7	42.2	74	198.6
11	Total Hardness	mg/l	200	600	145.5	261.9	261.9	630.5	572.3	256.1	128	562.6
12	Ca++ Hardness	mg/l	NS	NS	67.9	106.7	67.9	261.9	203.7	151.3	66	223.1
13	Mg++ Hardness	mg/l	NS	NS	77.6	155.2	194	368.6	368.6	104.8	62.1	339.5

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	339.5	518.9	582	504.4	373.45	514.1	509.25	426.8
15	Nitrate	mg/l	45	NR	5.4	4.8	3	5.6	1.3	6.8	2.1	10
16	Fluoride	mg/l	1	1.5	2.74	0.68	1.72	2	1.8	2.1	4.6	1.8
17	Sodium	mg/l	NS	NS	231.7	500.2	537.4	410	542	520	450.2	680
18	Potassium	mg/l	NS	NS	3	13	8.3	3.9	7.8	9.2	8.9	6.2
19	Calcium	mg/l	75	200	27.2	42.8	27.2	105	81.6	60.6	26.4	89.4
20	Magnesium	mg/l	30	100	18.8	37.7	47.1	89.6	89.6	25.5	15.1	82.5
21	Salinity	mg/l	NS	NS	0.4	1.1	1.2	1.2	1.7	2.6	0.8	1.8
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.	N.D.
24	Dissolved Oxygen	mg/l	NS	NS	6.5	6.5	6.4	6.5	6.4	6.4	6.5	6.4
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	13.4	14.4	7.1	9.9	14.1	18.4	12.5
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/25/XX/XXX & URB/25/XX/XXX					05/0615 05/0616	05/0617 05/0618	05/0605 05/0606	05/0607 05/0608	05/0609 05/0610	05/0611 05/0612	05/0694 05/0695	05/0613 05/0614

Observations :

These analysed results were subsequently compared against the IS:10500 Standard Limits for drinking water.

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	May-25	May-25	May-25	May-25
1	pH	pH Scale	6.5 to 8.5	8.11	8.12	7.85	7.81
2	Dissolved Oxygen	mg/l	NA	6.1	6.5	6.7	6.1
3	TDS	mg/l	2100	2567	736	340	618
4	Electrical Conductivity	µmohs/cm	2250	4230	1127	520	945
5	BOD	mg/l	NA	7.0	6.1	6.2	6.2
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	702	99.8	89.2	94.2
8	Ca++ Hardness	mg/l	NA	229	72.5	52.4	62.3
9	Mg++ Hardness	mg/l	NA	473	27.3	36.9	31.9
10	Chlorides	mg/l	600	873	234	102.5	200.5
11	Sulphate	mg/l	1000	632	168.6	14.4	124.5
12	Nitrate	mg/l	NA	1.2	1.05	0.7	0.3
13	Fluoride	mg/l	-	1.44	0.49	0.72	0.44
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	8.3	4.1	1.7	2
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	May-25	May-25	May-25	May-25
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	-	17.2	42.2	24.6	18.4
Report Ref. No.				URC/25/05/0733 URB/25/05/0730	URC/25/05/0731 URB/25/05/0732	URC/25/05/0729 URB/25/05/0730	URC/25/05/0735 URB/25/05/0736

Observations :

These analysed results were subsequently compared against the **Classification for Inland Surface Water (CPCB)** Class E.

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	May-25	May-25	May-25
1	pH	pH scale	6.5 to 8.5	8.15	8.27	8.32
2	Dissolved Oxygen	mg/l	5	6.1	6.1	6.1
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	May-25	May-25	May-25
5	Total Suspended Solid	mg/l	None from Sewage or Industrial waste Origin	68	44	32
6	Turbidity	mg/l	-	5	1	1
7	BOD	NTU	-	2.9	3.5	3.2
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	BDL	0.090	BDL (MDL : 0.003)
12	Iron (as Fe)	mg/l	-	0.26	0.182	0.288
13	Manganese (as Mn)	mg/l	-	0.188/BDL	0.286	0.122
14	Total Coliform	ml (MPN)	-	Absent	Absent	Absent
15	Sludge Deposits, Solid refuse floating Solids, Oil Grease and Scum	-	-	--	--	None
16	COD	mg/l	-	22.6	28.2	30.9
Report Ref. No.				URC/25/05/0723 URB/25/05/0724	URC/25/05/0725 URB/25/05/0726	URC/25/05/0727 URB/25/05/0728

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 were 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					
			Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
1	pH @25°C	6.5 – 9.0	7.18	7.1	7.28	7.23	7.1	6.67
2	Total Suspended Solid	<50	26	28	24	28	18	20
3	Chemical Oxygen Demand (COD)	-	40.2	41.6	45.5	42.2	21.8	27
4	Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	<30	18	21	19	25	9	9
5	Total Nitrogen	-	3.6	3.9	2.9	3.2	4.5	9.5
6	Total Phosphorus	-	2.4	2.3	2.3	2.4	0.6	0.5
7	Faecal Coliform	<1000	29	27	26	28	26	27
Report Ref. No. : URC/25/04/0614 dt. 07/05/2025, URC/25/05/0591 dt. 03/06/2025, URC/25/06/0595 dt. 04/07/2025, URC/25/07/0411 dt. 01/08/2025, URC/25/08/0300 dt. 01/09/2025, URC/25/09/0326 dt. 06/10/2025								

Observations :

The analysed results were reviewed against the standards prescribed by the Ministry of Environment, Forest and Climate Change (MoEF&CC) under notification GSR 1265(E) dated 13 October 2017 and were confirmed to be well within the stipulated 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	%	47.8	41.2	32.9
2	Water Holding Capacity	ml/100 gm	32	30.2	31.5
3	Permeability	Cm/Sec	0.148	0.164	0.156
4	Particle Size Distribution				
a	Sand	%	68.6	62	72.4
b	Clay	%	12.5	15.6	13.4
c	Silt	NTU	18.9	22.4	14.2
5	Texture	%	Sandy Loam	Sandy Loam	Sandy Loam
6	Cation Exchange Capacity	--	30.4	27.5	27.4
7	SAR	meq/100g	3.12	4.1	1.6

Sr. No.	Parameter	Unit	ST1a Pocket 1	ST1c Pocket 2	Pocket 3
8	Electrical Conductivity	--	170	234	324
9	Exchangeable Sodium	µs/cm	7.52	12.4	9.32
10	pH	%	8.89	9.12	8.12
11	Calcium	--	458.4	510.4	2842.2
12	Magnesium	meq/100gm	139	156.2	86.9
13	Sodium	meq/100gm	384	534	444.2
14	Potassium	mg/kg	70	60.6	56.2
15	Total Organic Carbon	mg/kg	0.084	0.089	0.089
16	Available phosphorus	mg/kg	8.03	8.52	8.44
17	Available potassium	mg/kg	176.5	144	144.1
Report Ref. No.			URC/25/05/MPL - 0941	URC/25/05/MPL - 0942	URC/25/05/MPL - 0943

Observations :

These analysed results were subsequently compared against the standards set by the Central Pollution Control Board (CPCB) are found well within Limits. Soil testing has been conducted to assess the present characteristics of the soil. The analytical results obtained from the testing are presented above.

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



Annexure 2: Calibration Certificates

UniStar Environment and Research Labs Pvt. Ltd.			
Calibration Certificate Instrument Name: 1. Respirable Dust Sampler Instrument ID No.: 2. UR/LA/R/RS/D/25 Instrument Sr. No. Supplier: 3. 1744-DIA-2013, 1127 DTJ-2012 Calibration Certificate No.: 4. UR/LCC/RS-25/1218/24-25 Date of Calibration: 5. 18/12/2024 Next Calibration due Date: 6. 17/12/2025			
Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Flow Meter	Top Loading Office Envirotech Calibration Laboratory Id No.: (UR/LMASTER/AR/AA/MAA/01)	ECL/UR/LP/2024-25/12/25/2554 Date of Cal.: 03.08.2024
	ID No. (UR/LA/R/RS/D/25)	Pressure Indicator Matrix Test & cal LLP	ML/MCH/2504/01/2024-25 Date of Cal.: 17.12.2024
2.	Time Totalizer	Matrix Test & cal LLP	ML/LE/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/RS/D/25)	ID No. (UR/LMASTER/AR/TT/AA/01)	Date of Cal.: 17.12.2024
3.	Rotameter	Rotameter Matrix Test & cal LLP	ML/RF/2504/02/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/RS/D/25)	ID No. (UR/LMASTER/AR/RM/02)	Date of Cal.: 17.12.2024
> UNCERTAINTY MEASUREMENT: Flow Meter : ± 0.041 m³/min > UNCERTAINTY MEASUREMENT: Time Totalizer : ± 0.031 hour > UNCERTAINTY MEASUREMENT: Rotameter : ± 0.140 LPM The reported uncertainty is the expanded uncertainty in measurement at 95 % Confidence level with coverage factor of 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 UR/LA/R/7-73/00			

UniStar Environment and Research Labs Pvt. Ltd.			
Calibration Certificate Instrument Name: 1. Fine Particulate Sampler Instrument ID No.: 2. UR/LA/R/FP/41 Instrument Sr. No. Supplier: 3. AFM - 350/137 DTJ-2013 Calibration Certificate No.: 4. UR/LCC/FP-41/1319/24-25 Date of Calibration: 5. 18/12/2024 Next Calibration due Date: 6. 18/12/2025			
Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Rotameter	Matrix test & cal LLP	ML/RF/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/FP/41)	ID No. (UR/LMASTER/AR/RM/01)	Date of Cal.: 17.12.2024
2.	Time Totalizer	Matrix Test & cal LLP	ML/LE/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/FP/41)	ID No. (UR/LMASTER/AR/TT/AA/01)	Date of Cal.: 17.12.2024
> 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 factor of 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 UR/LA/R/7-75/00			

UniStar Environment and Research Labs Pvt. Ltd.			
Calibration Certificate for RDS Instrument Name: 1. Respirable Dust Sampler Instrument ID No.: 2. UR/LA/R/RS/D/24 Instrument Sr. No. Supplier: 3. 2045-DIS-2012, 1029-DIS-2012 Calibration Certificate No.: 4. UR/LCC/RS-24/1219/24-25 Date of Calibration: 5. 19/12/2024 Next Calibration due Date: 6. 18/12/2025			
Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Flow Meter	Top Loading Office Envirotech Calibration Laboratory Id No.: (UR/LMASTER/AR/AA/MAA/01)	ECL/UR/LP/2024-25/12/25/2554 Date of Cal.: 03.08.2024
	ID No. (UR/LA/R/RS/D/24)	Pressure Indicator Matrix Test & cal LLP	ML/MCH/2504/01/2024-25 Date of Cal.: 17.12.2024
2.	Time Totalizer	Matrix Test & cal LLP	ML/LE/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/RS/D/24)	ID No. (UR/LMASTER/AR/TT/AA/01)	Date of Cal.: 17.12.2024
3.	Rotameter	Rotameter Matrix Test & cal LLP	ML/RF/2504/02/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/RS/D/24)	ID No. (UR/LMASTER/AR/RM/02)	Date of Cal.: 17.12.2024
> UNCERTAINTY MEASUREMENT: Flow Meter : ± 0.041 m³/min > UNCERTAINTY MEASUREMENT: Time Totalizer : ± 0.031 hour > UNCERTAINTY MEASUREMENT: Rotameter : ± 0.140 LPM The reported uncertainty is the expanded uncertainty in measurement at 95 % Confidence level with coverage factor of 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 UR/LA/R/7-73/00			

UniStar Environment and Research Labs Pvt. Ltd.			
Calibration Certificate for FPS Instrument Name: 1. Fine Particulate Sampler Instrument ID No.: 2. UR/LA/R/FP/30 Instrument Sr. No. Supplier: 3. AFM - 350/137 DTJ-2012 Calibration Certificate No.: 4. UR/LCC/FP-30/1319/24-25 Date of Calibration: 5. 18/12/2024 Next Calibration due Date: 6. 17/12/2025			
Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Rotameter	Matrix test & cal LLP	ML/RF/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/FP/30)	ID No. (UR/LMASTER/AR/RM/01)	Date of Cal.: 17.12.2024
2.	Time Totalizer	Matrix Test & cal LLP	ML/LE/2504/01/2024-25 Date of Cal.: 17.12.2024
	ID No. (UR/LA/R/FP/30)	ID No. (UR/LMASTER/AR/TT/AA/01)	Date of Cal.: 17.12.2024
> 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 factor of 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 UR/LA/R/7-75/00			



Calibration Certificate

Instrument Name	1. Respirable Dust Sampler
Instrument ID No.	2. UR/LAB/RDS/26
Instrument Sr. No. Supplier	3. 1745-DFA-3013, 1139-DFA-2013
Calibration Certificate No.	4. UR/LAC/RDS-26/1319/24-25
Date of Calibration	5. 19/12/2024
Next Calibration due Date	6. 19/12/2025

Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Flow Meter	Top Loading Office Bioswath Calibration Laboratory 40 No., JURUMASTER(AIR/AA/MA/01)	ECL/UR/LP/2024-25/PLW/02554 Date of Cal.: 03.08.2024
2.	Time Tolerator	Pressure Indicator Moxa Test & cal LLP Moxa Test & cal LLP	ML/RAC/25/04/07/2024-25 Date of Cal.: 17.12.2024
3.	Rotameter	Rotameter Moxa Test & cal LLP	ML/RLE/25/04/01/2024-25 Date of Cal.: 17.12.2024

> UNCERTAINTY MEASUREMENT: Flow Meter : ± 0.061 m/min
 > UNCERTAINTY MEASUREMENT: Time Tolerator : ± 0.031 hour
 > UNCERTAINTY MEASUREMENT: Rotameter : ± 0.140 LPM

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

Prepared By: *Chaitanya* Senior chemist
Approved By: *[Signature]* Technical manager

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UR/LAB/R-73/02



Calibration Certificate

Instrument Name	1. Fine Particulate Sampler
Instrument ID No.	2. UR/LAB/RPS/42
Instrument Sr. No. Supplier	3. APM - 55G/125-RED-2013
Calibration Certificate No.	4. UR/LAC/RPS-42/1220/24-25
Date of Calibration	5. 20/12/2024
Next Calibration due Date	6. 19/12/2025

Sr. No.	Name of Unit Calibrated	Calibrator Traceable to	Calibration Certificate No. Date of Calibration
1.	Rotameter	Moxa Test & cal LLP	ML/R/25/04/01/2024-25
2.	Time Tolerator	Pressure Indicator Moxa Test & cal LLP	ML/RAC/25/04/07/2024-25 Date of Cal.: 17.12.2024
3.	Rotameter	Rotameter Moxa Test & cal LLP	ML/RLE/25/04/01/2024-25 Date of Cal.: 17.12.2024

> UNCERTAINTY MEASUREMENT: Rotameter : ± 0.475 LPM
 > UNCERTAINTY MEASUREMENT: Time Tolerator : ± 0.031 hour

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

Prepared By: *Chaitanya* Senior chemist
Approved By: *[Signature]* Technical manager

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UR/LAB/R-73/02

Calibration Certificate for RDS

Calibration Certificate for FPS



CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF SOUND LEVEL METER

Certificate No. ML/MON/25/04/01/2024-25

Certificate Issue Date: 19/12/2024

Page 1 of 1

1. Scope	Calibration
1.1. Service Request Details	ML/MON/25/04/01/2024-25
1.2. Service Request No.	01/12/2024
1.3. Service Request Finalized On	01/12/2024
1.4. Unique Lab Report Number (URL No.)	01/12/2024
1.5. Requester / Client	01/12/2024
1.6. Name & Address of Organization	01/12/2024

2. Item Details	Condition of the Item
2.1. Item Details	01/12/2024
2.2. Condition of the Item	01/12/2024

3. Calibration Results	01/12/2024
3.1. Calibration Results	01/12/2024
3.2. Calibration Results	01/12/2024

0-200 & 0-210 2nd Floor, "B" Wing, M. C. B. The Business Hub, Opp. Tuluva Siva Sathan, Bellur, Bengaluru-560075



CALIBRATION CERTIFICATE

SUBJECT: CALIBRATION OF SOUND LEVEL METER

Certificate No. ML/MON/25/04/01/2024-25

Certificate Issue Date: 19/12/2024

Page 1 of 1

1. Scope	Calibration
1.1. Service Request Details	ML/MON/25/04/01/2024-25
1.2. Service Request No.	01/12/2024
1.3. Service Request Finalized On	01/12/2024
1.4. Unique Lab Report Number (URL No.)	01/12/2024
1.5. Requester / Client	01/12/2024
1.6. Name & Address of Organization	01/12/2024

2. Item Details	Condition of the Item
2.1. Item Details	01/12/2024
2.2. Condition of the Item	01/12/2024

3. Calibration Results	01/12/2024
3.1. Calibration Results	01/12/2024
3.2. Calibration Results	01/12/2024

0-200 & 0-210 2nd Floor, "B" Wing, M. C. B. The Business Hub, Opp. Tuluva Siva Sathan, Bellur, Bengaluru-560075

Calibration Certificate for Sound Level Meter



UniStar Environment & Research Labs Pvt. Ltd.

**White House, Near GIDC Office, Char Rasta, Vapi,
Gujarat, India – 396195**



Annexure – V

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 with Adani Petrochem Limited in consultation



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 (1 st Year)	Fulfilled*	Awareness programme have been conducted under Eco Club Programne.
		Vandh (2 nd Year)	Fulfilled*	
		Navinal (3 rd Year)	Fulfilled*	Awareness programme Have beenconducted under Eco Club Programne.
		Siracha (4 th Year)	Fulfilled*	
		Kandagra (5 th Year)	Fulfilled*	
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 mundra & 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 75000+ numbers of mangrove species. In addition to this, MPL is conserving mangroves through experts by constant supervision so that survival rate shall be more than 90%.

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.

Annexure - VI

MUNDRA PETROCHEM LIMITED

Corporate Environmental Responsibility

April to September, 2025



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1. EXECUTIVE SUMMERY

This report highlights the significant accomplishments of Mundra Petrochem Limited (MPL)'s Corporate Environmental Responsibility (CER) initiatives for the period April to September, 2025. 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 1057 numbers of syllabus books and more than 1200 numbers of stationery items have been handed over to students come from fisherfolk community from surrounding villages. More than 86 students were provided with transportation for pick-up and drop-off to attend school. Additionally, over 75 students received educational kits. Educational awareness programs have been conducted by field experts, emphasizing the importance of environmental sustainability in daily life. Career development / awareness programs have been conducted for the students studying in standard 9th to 12th. Approximate 465 students have been participated from 8 schools of nearby villages.

In context of above, mora than 421 number of Books for users of library at Moti Bhujpur have been provided for preparation of competitive exams. School infrastructure improvements include a Saline Water Reverse Osmosis (SWRO) unit to provide safe drinking water. Efforts also include strengthening sanitation and hygiene within school premises.

In addition to this, Agricultural fair has been organized for farmers. More than 2,00,000 numbers of farmers participated and enhanced their ideas, knowledge, and best farming practices.

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, an Ambulance has been provided to "KARVAN – E – MUSTAFA" medical & Educational Trust to serve the service at nearby area i.e fisherman community residence at coastal villages like Dhrab, Zarpara, Navinal, etc.

Additionally, a menstrual health awareness session was organized for girls and women. Clean and safe drinking water was made available to students through the installation of SWRO units at the primary school villages Moti Khakhar.

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 girls and women. Financial empowerment programs have supported over 55 marginalized women from village Moti Bhujpur, Nani Bhujpur and Zarpara. More than 40 earning equipment like sewing machine, kitchen utensils, freezers, Milk storage cans etc. have been provided to the women.

Sustainable infrastructure projects included check dam restoration, percolation well cleaning, river and stream cleaning, culvert construction. Renovation of the check dam benefitted over 170 farmers by storing more than 2,45,000 cubic meters of water. Additionally, river/stream cleaning and pond deepening efforts have been carried out. Culvert construction has supported irrigation system and preventing the fam soil erosions.

Community tree plantations covered an area of 16.5 acres, resulting in the planting of over 12,500+ trees in reporting time period i.e April – September, 2025. Additionally, more than 2,00,000 farmers have been aware for new technology and best available farming practices through Agri Fair, 2025. 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, alternatives to single-use plastic (SUP) and wild life conservation sessions were engaged for 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.

Pond deepening work at village Zarpara with increasing water storage capacity about 22,000 Cu.M and Check Dam strengthening work at Moti Bhujpur with increasing water storage capacity about 2,45,000 Cu. M have been carried out.

Road repair work was carried out in nearby villages and fisherfolk community areas. Paver blocks pathway has been constructed for fisher folk community.

Further, about 100 acres of "*Gauchar*" area have been clean, fertilizes and planted with native grass at village Zarpara. In addition to this, extending support through providing Sheds for "*Gaushala*" at village Deshalpar and Zarpara which benefited more than 2350 cows.

Total 5 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, Zarpara and Moti Khakhar 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 period April – September, 2025:-

<i>Sr. No.</i>	Sector	CER Expenditure (INR)
1	Educational Initiatives.	3129484.07
2	Community Health Initiatives.	4842033.86
3	Sustainable Livelihood and women Empowerment.	8464417.3
4	Community Rural Infrastructure Development.	6114949.14
5	Monitoring & Reporting	720415
Total		23271299.37

i.e. Approximate INR 232.713 Lakhs

Total CER expenditure incurred in various community welfare & eco – development activities was approximate INR 1533.713 Lakhs cumulative till September, 2025 including expenditure occurred INR 232.713 Lakhs for the period April – September, 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 sufficient 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

8 DECENT WORK AND
ECONOMIC GROWTH



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

10 REDUCED
INEQUALITIES



- 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.

11 SUSTAINABLE CITIES
AND COMMUNITIES



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

13 CLIMATE
ACTION



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

14 LIFE
BELOW WATER



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

15 LIFE
ON LAND

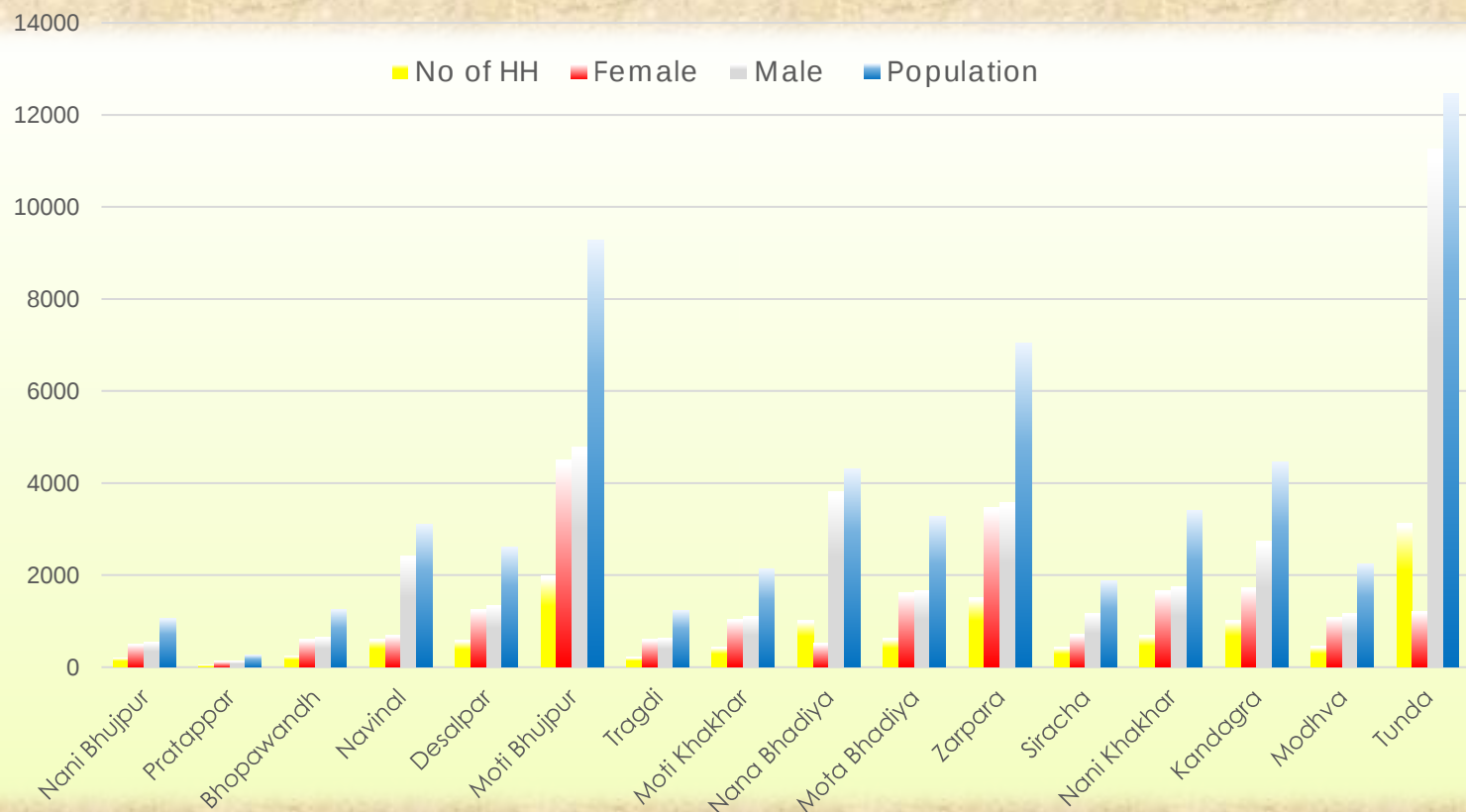


- Increased afforestation and reforestation.
- Reduce the degradation of natural habitats, halt the loss of biodiversity.
- Integrate ecosystem and biodiversity values.
- Conservation of the local ecosystem through restoration action and mobilizing communities to minimize plastic consumption.

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 of the 16 study villages in Mundra and Mandavi region are as under¹:



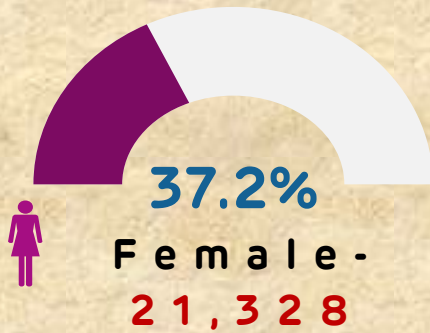
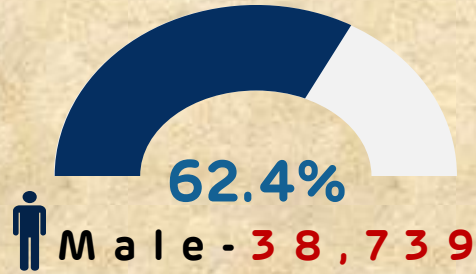
Sr. No.	Village Name	Population	Male	Female	No of HH
1	Nani Bhujpur	1056	551	505	210
2	Pratappar	268	136	132	48
3	Bhopawandh	1250	650	600	250
4	Navinal	3100	2406	694	602
5	Desalpar	2611	1350	1261	581
6	Moti Bhujpur	9278	4777	4501	1979
7	Tragdi	1238	636	602	216
8	Moti Khakhar	2139	1101	1038	436

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

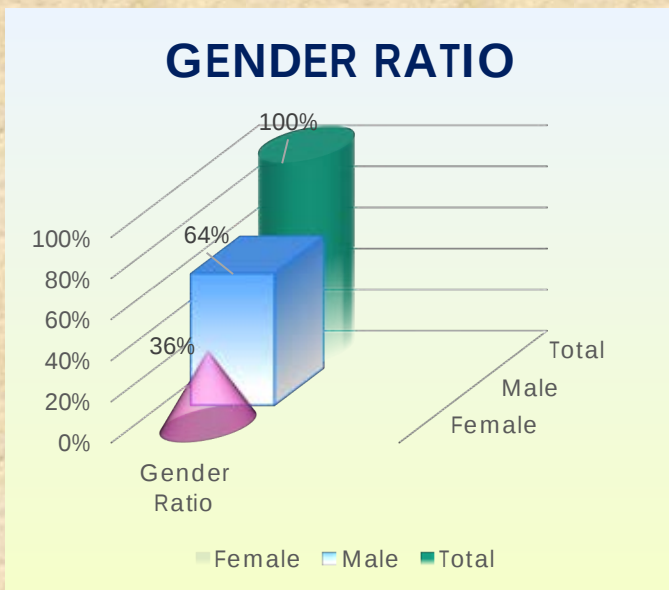


Household- 13,182

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.

Educational promotive initiatives are organized efforts designed to foster, enhance and support educational opportunities and outcomes for learners of all ages. 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 EXTENDED SUPPORT THROUGH EDUCATIONAL KIT – BOOKS & STATIONERY



Education and Books have always played a pivotal role in shaping the lives of individuals, societies and nations. As Books are indispensable tools for students that unlock potential, develop critical thinking and empower to succeed in ever – evolving world and It equips students with the knowledge and skills to navigate life's challenges and opportunities. MPL has supported through 1057 numbers of syllabus books and more than 1200 numbers of stationery items to students belongs to fisherman communities. Based on these pillars, they shall have careers opportunities, expanding horizons, enhancing literacy & communication skills, Instilling Discipline and Focuses toward the society.



75 numbers of students from Fisherman community have been benefited

1057+ numbers of Books & 1200+ numbers of stationery items for students

6.2.2 EXTENDED SUPPORT THROUGH BOOKS FOR LIBRARY AT MOTI BHUJPUR



Preparing for competitive exams can be both an exhilarating and daunting journey. The right books serve not only as sources of knowledge but also as trusted companions, guiding candidates through the intricate maze of syllabus, concepts and questions. Books are invaluable assets to laying the groundwork for success in every aspect of life. By investing in education and making books accessible to all, we can ensure that every user can realize their full potential and contribute to a brighter future. It fosters intellectual curiosity, social awareness and moral values, preparing them to contribute meaningfully to their communities and global stage. Considering this, MPL has extended support through providing more than 421 number of books at Library, village Moti Bhujpur for competitive exams.



421+ numbers
of Books for
Students / Users

6.2.3 HIGHER EDUCATIONAL OPPORTUNITIES FOR MARGINALIZED COMMUNITIES.



Reason for providing facilities:

- 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.
- Not enough economical ground to support the expenses of high school.
- 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 86 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.
- Students from villages like Modhava, Tragadi Bandar & Zarpara Bandar are facilitated.

6.2.4 CAREER DEVELOPMENT AND AWARENESS PROGRAMM

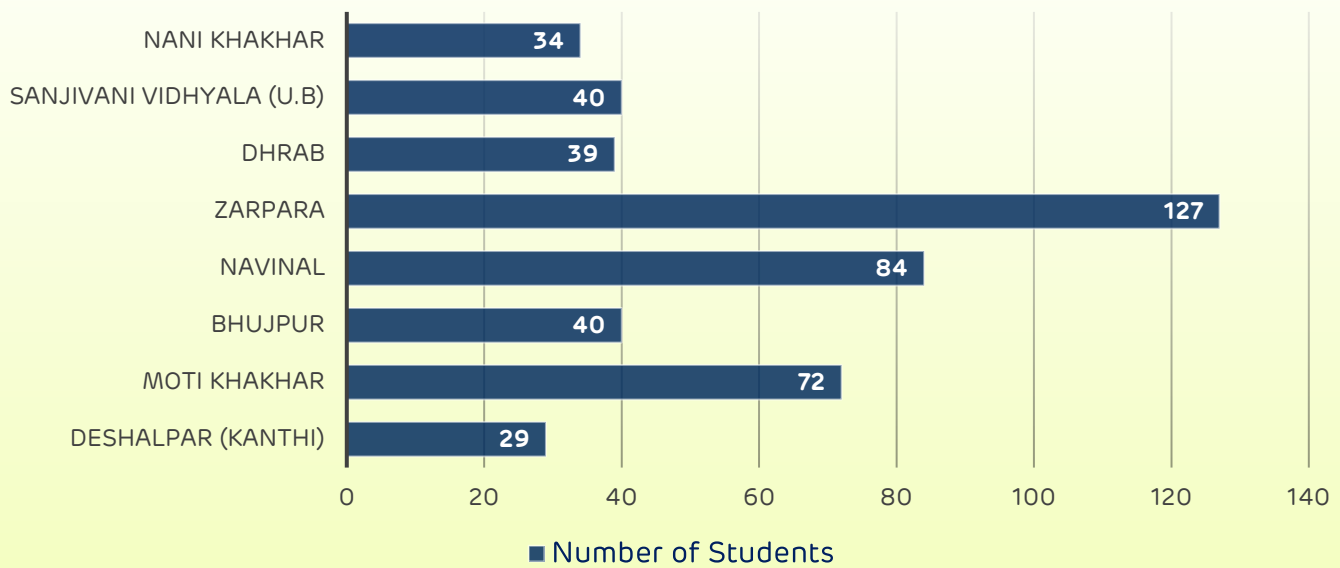
Career development and awareness program for students from 9th to 12th standard have been carried out in 8 schools from nearby villages.

These sessions covered with,

- Career Awareness Sessions.
- Psychometric Testing and Career Counseling.
- Stream and Course Selection Guidance.
- Skill development workshop.
- Parents involvement Seminars.



Participants from the various Government School / HighSchool



465+ Total Numbers of Students have been facilitated.

6.2.5 SCHOOL INFRASTRUCTURE

MPL is deeply intended to create structure that has meaningful OR positive outcome 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.



250 +
students
have access
to clean
water

In alignment with Sustainable Development Goal (SDG) initiatives focused on clean water and sanitation for all, MPL has installed a Saline Water Reverse Osmosis (SWRO) unit with a capacity of 150 LPH at the primary school in Moti Khakhar

Village. This installation benefits over 250 students and staff members by providing access to clean water.



Go Green Initiatives at Girls Hostel Deshalpar:



To build a sustainable and eco-friendly future by turning environmental challenges into impactful solutions and as part of corporate commitment towards sustainability and community welfare, MPL has facilitated the installation of 10 benches made from recycled plastic at the Deshalpar Girls hostel. The aim is to reduce plastic waste and promote a circular economy that benefits both society and the planet. These benches offer comfortable sequencing seating for 100 hostel residents.

6.2.6 EDUCATIONAL AWARENESS PROGRAM

Environmental awareness program were conducted at more than 18 schools and about 2000 students 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. Our goal is to uplift the fishing community through education by encouraging students, particularly girls, to pursue higher studies. We aim to build strong parent-student school



engagement that fosters long-term academic growth and empowerment. Support for the student have been provided for higher education in the villages of Modhava and Tragadi.

To educate children 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.

6.2.7 AGRICULTURAL FAIR FOR AWARENESS AMONG THE FARMERS



The agriculture fair is more than just an event; it is a celebration of agricultural heritage and a beacon of innovation for the future. By bringing together diverse stakeholders, including farmers and various entities within the agricultural spectrum, the fair plays a pivotal role in advancing agricultural practices in the surrounding area. At this fair, over 200,000 farmers shared their ideas, knowledge, and best farming practices.

6.2.8 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.

SOCIAL IMPACT

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

- Identifying health issues at an early stage allows for more effective treatment and management

Health Awareness

- Educating the community about common health problems, preventive measures and healthy lifestyle choices.

Accessibility

- Providing healthcare services to underserved or remote areas where medical facilities may be limited.

Community Health

- Improving the overall health status of the community by addressing prevalent health concerns.

Adani Foundation shows a strong commitment to community health through diverse healthcare initiatives. Insures accessible medical care for underserved and remote populations, better health outcomes and increased awareness. The foundation's proactive approach drives large – scale, meaningful impact in public health across rural and urban areas.

A comprehensive medical camp have been organized at nearby villages by Adani Foundation. 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.





Conducted eye examination, Consultations and advice on maintaining good eye health.



Offered screenings, consultations and support for reproductive health issues.



Addressed a wide range of health issues from common ailments to chronic conditions, providing diagnoses, treatments and referral as needed.



Provided specialized care for children

7.2.2 HEALTHY FOOD AND MENSTRUAL HEALTH AWARENESS.

A comprehensive program on healthy eating and menstruation hygiene was conducted at nearby villages with aiming to educate and empower them on health management.



7.2.3 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 Moti Khakhar is to serve clean water for the students and other users as more than 250 students 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 have continued access to clean & safe drinking water.



250 + students have access to clean 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.



7.2.4 AMBULANCE SUPPORT FOR COMMUNITY HEALTH



Ambulance services play a vital role in any health care system, but their importance is amplified in rural communities. These areas often face unique challenges such as remote locations, limited healthcare facilities and longer response times in emergencies. Reliable ambulance services bridge the gap between rural populations and critical healthcare, ensuring timely medical intervention and improving overall health outcomes. Mundra Petrochem Limited has provided Ambulance to "KARVAN – E – MUSTAFA" medical & Educational Trust to serve the service at nearby area i.e fisherman community residence at coastal villages like Dhrab, Zarpara, Navinal, etc.

7.3 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

	The healthcare initiative improved community well-being, aligning with the goal by enhancing access to essential health services and promoting healthy lives.
	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 Section encompasses 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



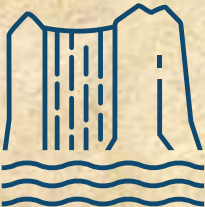
Women
Empowerment

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 carried 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



To encourage the empowerment of women and promote gender equality, financial independence, and social development, Mundra Petrochem Limited (MPL) has provided meaningful support to Self Help Groups (SHGs) in surrounding villages. These efforts are rooted in the belief that empowering women leads to positive outcomes not just for individuals, but also for families, communities, and society as a whole. SHGs from neighboring villages such as Moti Bhujpur, Zarapara, and Nani Bhujpur have received essential income-generating equipment. The provided resources include sewing machines, milk containers, and kitchen utensils, all intended to enable women to start or expand small businesses and improve their livelihoods. Through these targeted interventions, MPL and its partners are fostering economic opportunities and supporting the self-sufficiency of women in the region.

5 Self Help Groups over 250+ women

In each group to foster skill development and collective growth.



Financial empowering over 55+ marginalized fisherfolk community women.

40+ earning equipment like, sewing machines, Kitchen Utensils, Freezer, Milk storage cans, etc. provided to women from Self Help Groups.



30+ 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

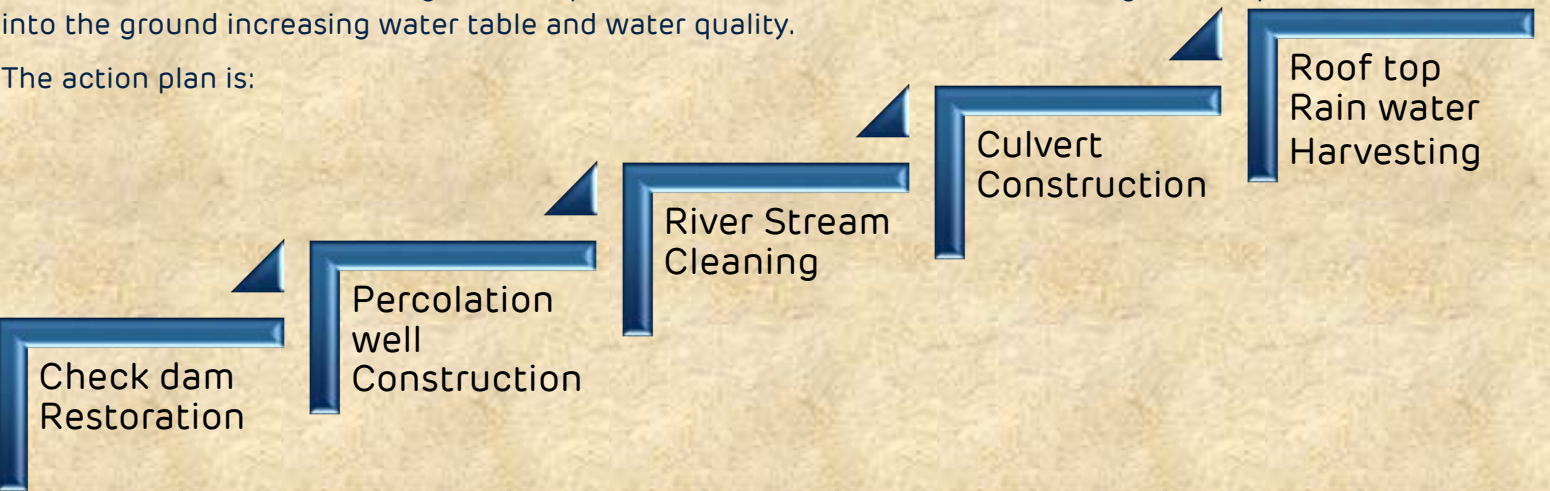
- ✓ Increased awareness among mothers about healthy dietary practices for their children.
- ✓ Empowered mothers to make informed nutrition choices, promoting healthier eating habits.
- ✓ Supported the prevention of malnutrition and improved the overall health and wellbeing of children in the community.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

8.4 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 at Moti Bhujpur:



170+ farmers benefited for agricultural purposes.



2,45,000+ cubic meter water stored.



Enough water resources for nearby villagers.

Percolation well construction:



122+ percolation well been constructed so far.



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 at nearby villages like Zarpara, Moti Bhujpur, etc.



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



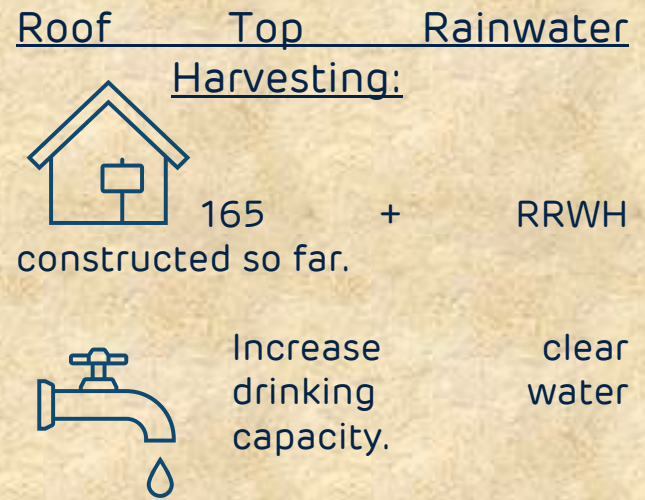
~22,000 Cu.m Water Storage Capacity increased.



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



Controlling nearby land area from sheet (Soil) erosion or Rill (Soil) erosion.



8.5 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.

8.5.1 TREE PLANTATION

Tree plantation plays a pivotal role in enhancing community well – being and addressing global environmental challenges. As urbanization accelerates and climate change becomes increasingly urgent, the act of planting trees offers both immediate and long – term advantages. Further, tree plantation is essential not only for fostering healthier, more resilient communities but also for combating climate change through carbon sequestration. By participating in carbon sequestration, communities can turn environmental action into economic opportunity, creating a cycle of sustainability that benefits people and the planet.

- These tree plantations will accelerate:
- Environmental Improvement and balancing life cycles.
- Improving air quality through absorbing carbon dioxide, filtering air pollutants and producing oxygen.
- Enhancing Public Health and economic advantages.
- Controlling soil erosion, maintaining water cycles and providing habitats for wildlife.

- Reduced surface heat, lower temperature and offer shades through which minimizing heat related illness.





Tree Plantation have been done with **2500+**, **5000+** and **5000+** numbers of native species at villages Deshalpar, Nani Khakhar and Zarpara respectively by expert i.e M/s Yash Green with **2** year maintenance time period.



Total **12500+** trees have been planted (April – September, 2025) at nearby villages to combat climate change and enhance biodiversity. Further, **101036+** numbers of cumulative trees have been planted at nearby villages for the period up to September, 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 is **98% +**



16.5 for the reporting period and **103+** acre (cumulative) land was used for tree plantation

CO₂ Sequestration

2424.864+ tCO₂e will Seq. (Cumulative)



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.



Increase the organic fertility for the soil.



Increase the CO₂ Sequestration, so as, clean air.

8.5.2 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.

8.5.3 MANGROVE CONSERVATION AND AWARENESS



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.

Mundra Petrochemical Limited had planted 75000 + numbers of Mangroves species in an area of 7 Ha at the Kotadi Creek. In addition to this, MPL is conserving mangroves through experts by constant supervision so that survival rate shall be more than 90%.

8.5.4 AWARENESS 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.



Students from nearby schools.



- 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 extended use of plastic to make plastic benches and provided to students of nearby villages.



10 Benches (Made from recyclable plastic) provided by MPL to Deshalpar Girls Hostel

8.6 AWARENESS DRIVE ON CONSERVE WATER, PROTECT EARTH AND ENVIRONMENT.



To raise awareness about water conservation, protect earth & environment and encourage students and surrounding community to adopt sustainable practices for optimal usages of natural resources and protect them.

8.7 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS.

1 NO POVERTY



MPLs initiative focused on livelihood generation and providing additional support to farmers works towards eliminating poverty.

2 ZERO HUNGER



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.

5 GENDER EQUALITY



Dedicated efforts through Workshop and promoting women farmers have created more equitable society.

8 DECENT WORK AND ECONOMIC GROWTH



Major interventions were focused on building employability in the local community and creating a sustainable source of income.

10 REDUCED INEQUALITIES



A non – discriminatory approach in beneficiary identification has reduced inequality.

11 SUSTAINABLE CITIES AND COMMUNITIES



By integrating IEC based interventions and Eco club drive on awareness and community building will work towards building sustainable society.

13 CLIMATE ACTION



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 sheds along with “Gaman” (Cattle Food Pan) at Gaushala of nearby village.

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.

SOCIAL & ENVIRONMENTAL IMPACT

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 Farm area (countryside area) of village Zarpara and School approach road at village SVC Nana Kapaya.
- Development of approach road and ground cleaning and leveling work at Daneshvar Mahadev mandir, village: Siracha
- Renovation of Damage Bund work to protect check dam at Nani Khakhar
- 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 village Siracha.

9.3 CLEANING OF "GAUCHAR AREA" (CATTLE FIELD AREA)



"Gauchar" land, also known as common grazing land, holds significant importance in rural and agrarian societies, especially in regions where agriculture and livestock form the backbone of the local economy. Considering this, Mundra Petrochem Limited has clear the unwanted Acacia trees (Babul Trees) from approximately 100 acres "Gauchar" land at village Zarpara so that grass can grow smoothly and so as cattle can feed their routine food chain.

In addition to this, land maintenance work comprises:

- Removal of debris and invasive species.
- Leveling and soil treatment to improve fertility.
- Plantation of native grass and fodder species.
- Installation of fencing to protect the land.



100+ Acres of "Gauchar" land have been fertile through Soil conservation, fertilization, Grass sapling and removal of unwanted trees.

9.4 CONSTRUCTION OF SHEDS

Sheds have proven to be valuable assets, enriching local spaces and enhancing the quality of life for animals. This shed is filling the gap to shelter more than 2350 cows at village Deshalpar and Zarpara. These sheds have been accomplished with "Gamar" (Cattle food serving pan) so that cattle have their food on better way.



9.5 SUSTAINABLE INFRASTRUCTURE

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



Rooftop Rainwater Harvesting system



Clean water available at house step.



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



2,67,000+ cubic meter water stored.



122+ percolation well been constructed so far.



Water table level increases.



Salinity of ground water Decreases.



Saline water Reverse Osmosis Plant installed at primary school, Moti Bhujpur with capacity of 150Ltr/hr for students to have clean drinking water.



250+ Students benefited.





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

9.6 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.

[illegible]



શ્રી ઝરપરા કન્યા પંચાયતી પ્રાથમિક શાળા
ગામ- ઝરપરા તા.મુન્દ્રા-કચ્છ
શાળાનો કાયદા કોડ :- 24010905701



તારીખ-21/07/2025

○ નાની ખાખરમાં મિયાવાકી પદ્ધતિથી જંગલનું સર્જન કરાશે ○

અદાણી ફાઉન્ડેશનની હરિયાળી પહેલ : નાની ખાખરમાં ત્રીજા જંગલની શરૂઆત

મુજા.ર
અગાલી કંઈ-શ્રેણ મુજા
અને આસપાસના વિસ્તારોને
હરિયાણા ખગવાઈ કાઢી રહી
છે. આથી તરુણના નાના
આખર ગામનાં એક મૈત્રિદાસ
વનીકાર પ્રોજેક્ટનો મુખ્યમંત્રી
કામો જે પર્વાતના સંસ્થાન
દિશાનાં એક મહાવનું પત્રક
આ મોજાને લેવા લાગ્યા
કંઈ-શ્રેણ અને મુજા પેટો
લી. ના સંસ્થાનોની નાની આખર
ચાલે પહેલાં વિચારો પર્વાત
૮,૦૦૦ વૃક્ષોને ગાંઠ જંગલ
કરું છે. તરુણનાં ૫,૦૦૦
લી વાલે વૃક્ષોને વાલે
આખરનાં એક લીકું
જંગલ આકાર લેશે. આ પહેલાં
નાની આખરની કાપાવડ કરશે



अने तेन पंचावतल प्रेमिनी
तेज प्रवातीसो माटे नवु
आकर्षण प्रभावत. अहली
कमिनिअन, आयेनो जायनेचो,
सायनाया स्यायेनो अने
सेवापा कमिनिता सहचरोची आ
वृत्तारोपण अभियान नु मुक्त
अच मा आसु लत. आ जेवनाचो
अच वा चुपचुपानो अहलीच वृत्ती,
हसोना लत. देखीको, कडायेचो

સંતરેય, આંગેવાનો, માણાઓના આવાણો, કિશ્કેરો અને વિધવાઈ ઓળે ઉત્સાહભરે ભણ લઈને આ પરિસરને પશીઓના કિલિઓથી મુક્તિ મળી લીધુંમ વળત માત્રાવારનો પ્રેરણા આપેલ કવિ હતી, આટલી કલ્પિતિઓના પકિતયેને જણાયું, “માતી ખાખરમાં ત્રીજા જેવળની શરૂઆત અચાનક થયે તોવેતની શરૂ છે, જામજામના તરણોથીથી અંધારું વૃક્ષ મારિરી છીંચે” કવિતા કવિતા અને સમગ્ર પ્રવાહકલ્પ છીંચે.” આજે આ વખતકલ્પ પરિસરને લીધી તરીખાતી બુક્કો મુકવામાં આવે. આ પહેલ માતી ખાખરને માત્ર અધિયાત્મ જ નહીં, પસંદ પધારકલ્પોમાંથી અને પ્રકૃતિ ઉત્પત્તિઓમાંથી ઓળે એક વડો ગોદર સ્થાન ખાતરાશે.



**અદાણી ફાઉ.ની હરિયાણી પહેલ: નાની
ખાખરમાં મિયાવાડી પદ્ધતિથી જંગલનું સર્જન**

મુન્દ્રા
અદાણી કાઉન્ડેશન મુન્દ્રા અને
આસપાસના વિસ્તારોને હરિયાણા
બનાવવા અવિરત કાર્ય કરી રહ્યું છે,
આજે, માંડવી તાલુકાના નાની
ખાખર ગામમાં એક એતિહાસિક
વનીકરણ પ્રોજેક્ટનો શુભારંભ
થયો. જે પધારણ સંરક્ષણની
દિશામાં એક મહત્વનું પગલું
છે.

આ પ્રોજેક્ટ હેઠળ અદાણી
કાઉન્ડેશન અને મુન્દ્રા પેટ્રોકેમ લી ના
સહયોગ થી નાની ખાખર ગામે
સહેલાં મિયાવાળી પદ્ધતિથી ૮૦૦૦
વર્ગાં નાલ જંગલ ઉભું કર્યું છે.

તદુપરાંત આજે વધુ ૫૦૦૦થી વધારે વૃક્ષોનું વાવરત કરીને ગામના મંથમાં એક હિલ્લોમ ઝંગલ સાકારમાં આ પહેલાંના પાનરની કાપાપલટ કરશે અને તેને પર્યાવરણ પ્રેમીઓ તેમજ પ્રવાસીઓ માટે નવું આકર્ષણ બનાવશે.

અહાલી કોઈનેજ નહીં, સ્થાનિક શ્રામજનો, સમાજના આગેવાનો અને પંચાયત સમિતિના સહયોગીઓ આ વૃક્ષારોપણ અભિયાનનું મુહૂર્ત કરવા મા આયુ હતુ. આ જંગલમાં ૪૦થી વધુ પ્રકારનાં પ્રાદેશિક વૃક્ષો, ફૂલોના છોરાં, વેલીઓ, કળાજાડો અને આવા વૈવેક વનસ્પતિઓના

वावेतर थसे.
 द्विप ठरिगेशन सिस्टम अ-
 मियावाकी पद्धतिनो उपयोग करी
 आ वृक्षोनो जसपी विकास थसे. अ
 जंगल मात्र ओस्मिजन्स चार्ज तरी
 ज नही, परंतु पशु-पक्षीओनो
 आश्रयस्थान तरंति पक्षीलोखे.
 आ प्रसंगे गामनी र-
 टिकरीओना हाथे वृक्षारोपण
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 वे यादगार ओने प्रेरणादायी भवने छे
 गामना सरपंच, आगेवानो
 शाणाओना आचार्यो, शिक्षको
 विद्यार्थीओने उत्साहदेवर ला-
 वरुने आ परिचरने पक्षीओन-

કિલાલકાટથી ગુંજતું લીલુંલુખ જંગ
ખનાવાના પ્રતિબદ્ધતા વ્યક્ત કર
આદાહી કાઠેનેશનના પંડિતબેન
જણાવ્યું, "નાની ખાખરને માત્ર
જંગલની શરૂઆત અમારા મ
ગૌરવની લગ્ન છે.

ગ્રામજનોના સહયોગથી આ
વૃક્ષ મંદિરો ઊભાં કરવા અમે સ
પ્રત્યક્ષ લાઈએ." આજે
વનાીકરણ પરિસરને લીલી જં
બનાવી મુલ્યો મુકવામાં આવ્યો.
પહેલ નાની ખાખરને માત્ર હરિયા
જ નહીં, પરંતુ પર્યાવરણપ્રેમી
અને પ્રકૃતિ ઉત્સાહીઓ માટે એ
નવું ગૌરવના બનાવશે.

જીવું, રૂપના પાત કિડાનાની
 મળા મળે તો અન્ન પુનિમળા છે
 પરતોપાવી પાત પાતેને લેને
 લોકોના જાણીથી લોકના મુજી
 પાતેના જાત પાતેના જાત
 એટલે જ તને જાણના લાગ

પાતી ઓ
 માનુષ
 કમળોને
 નેત્રપાતી
 દેખના
 પાતેના




૬ મુખ્ય પેલી રેને
 કિડાનાની
 લખનારની

૭ મુજી
 નાતીથી કાલે
 કિડાને

મુખ્ય પાતેનાની
 -પ્રમદી પાતી

નિવેદક
 નેત્ર

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ये प्रयोग कृषिपर
जल, पावामा जना
अने जलनी
अने जलनी
अने जलनी
अने जलनी

प्रमाणित करी, हिया पावामा
अमुन विकसमत करी, असा
असा

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अने जलनी

प्रमाणित करी, हिया पावामा
अमुन विकसमत करी, असा
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प्रमाणित करी, हिया पावामा
अमुन विकसमत करी, असा
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प्रमाणित करी, हिया पावामा
अमुन विकसमत करी, असा
असा

अने जलनी
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अने जलनी
अने जलनी

प्रमाणित करी, हिया पावामा
अमुन विकसमत करी, असा
असा

ગ્રા.કર્ણાટક
 આવળે
 ગ્રા.કર્ણાટક
 આવળે

ભુજ - રવિવાર, તા. ૨૦-૦૪-૨૦૨૫



1. **પાયા બુદ્ધિ-સૌંદર્ય** આપણા સંસ્કૃતિમાં સ્ત્રીઓના સ્વભાવમાં સૌંદર્ય અને બુદ્ધિના સંતુલનને મહત્વ આપવામાં આવે છે. સ્ત્રીઓના સ્વભાવમાં સૌંદર્ય અને બુદ્ધિના સંતુલનને મહત્વ આપવામાં આવે છે. સ્ત્રીઓના સ્વભાવમાં સૌંદર્ય અને બુદ્ધિના સંતુલનને મહત્વ આપવામાં આવે છે.

[illegible][illegible]

હું કચ્છનો પ્રભારી મંત્રી, હવે **પ્રભારી મિત્ર** બની ગયો છું : મંત્રી પ્રફુલ્લ પાનસેરિયા

કૃષિ ક્ષેત્રે કચ્છની ક્રાંતિ દેશ-દુનિયા માટે દાખલારૂપ

ભુજમાં નર્મી-કચ્છમિત્ર આયોજિત અને
અદ્યાપ્તી-એન્ડ્રોસેલ પ્રાયોજિત ૧૪મા કૃષિ
એક્સપોનો પ્રભારી મંત્રીના હસ્તે પ્રારંભ
પ્રાકૃતિક એતી તરફ વળવા એકોતોને આહવા



कृष्णमित्र-नर्मी संस्थांना आवेष्टनने अग्रद्विओने मि
प्राद्वित केलेत उतादने पळोवणावा माटे योग्य व्यक्ती
भादः सांभद विनोद बावडा, वारासभ्य डेवुभावा
प्रमम, भावज प्रमम, डेवडेर सविता महेमानी

[illegible][illegible][illegible][illegible]

અનિલ જાદવ, જિજ્ઞાસુ
 શિશુભાષિણી સુખ વરનાર,
 કમનિશીલ પાંડુ દેવભાષા,
 સદા, રસકાન્તભર્યા ભુજા,
 બુદ્ધિસિલ જાણી, ચામુખા
 ટુટાના મનાંભાઈ તોરકી,
 અમીનાના મેનકર મુક્તમાઈ
 પોતિયા, કમનિશી જવલપાન
 મુકેન જગાણી, કલ્પના વરદા,
 નિશી જાણી, કાંતલ પાંધી,
 અનર અનરિયા, પ્રતાપ પોથી,
 અપુખાઈ ભાવતી,
 વનરખાઈ દુવાળિયા,

[illegible][illegible][illegible]

१००० भाषाएँ अंग्रेज़ी, फ़्रान्सीसी, जर्मनी, स्पेन, इत्यादि देशों में प्रचलित हैं।
 १००० भाषाएँ अंग्रेज़ी, फ़्रान्सीसी, जर्मनी, स्पेन, इत्यादि देशों में प्रचलित हैं।
 १००० भाषाएँ अंग्रेज़ी, फ़्रान्सीसी, जर्मनी, स्पेन, इत्यादि देशों में प्रचलित हैं।

[illegible][illegible]

१० पुराण ११ भागवत १२ अथर्ववेद १३ श्रुति १४ वेद १५ इतिहास १६ धर्मशास्त्र १७ ज्योतिष १८ आयुर्वेद १९ दार्शनिक ग्रंथ २० साहित्य	२१ अष्टांगयोग २२ योगशास्त्र २३ अष्टांगहस्तिसार २४ योगप्रश्नोत्तर २५ योगसूत्र २६ योगदर्शन २७ योगभूषण २८ योगप्रदीप २९ योगप्रज्ञापिका ३० योगप्रदीपिका ३१ योगप्रदीपिका ३२ योगप्रदीपिका ३३ योगप्रदीपिका ३४ योगप्रदीपिका ३५ योगप्रदीपिका ३६ योगप्रदीपिका ३७ योगप्रदीपिका ३८ योगप्रदीपिका ३९ योगप्रदीपिका ४० योगप्रदीपिका	४१ योगप्रदीपिका ४२ योगप्रदीपिका ४३ योगप्रदीपिका ४४ योगप्रदीपिका ४५ योगप्रदीपिका ४६ योगप्रदीपिका ४७ योगप्रदीपिका ४८ योगप्रदीपिका ४९ योगप्रदीपिका ५० योगप्रदीपिका ५१ योगप्रदीपिका ५२ योगप्रदीपिका ५३ योगप्रदीपिका ५४ योगप्रदीपिका ५५ योगप्रदीपिका ५६ योगप्रदीपिका ५७ योगप्रदीपिका ५८ योगप्रदीपिका ५९ योगप्रदीपिका ६० योगप्रदीपिका
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ખેડૂતોને કૃતિકામેન વ્યેસ સંગીત વિધિ
 સલામત-આ કૃતિનિર્માણ અને
 મધ્ય ધર ખેડૂતો, વ્યવસાયો તોડી
 સુધારવામાં ઉપકારીત રહ્યા હતા.
 સલામન બંને આત્મારેષિ
 પુણ્યને કળને કળા હતા.

સ યાર્જ... આકર્ષણરૂપ
 દષ્ટિ મેળવવામાં આકારો

			
● इसलाम में तो बड़े बड़े विद्वानों ने अपहरण बनाया है। ● मुसलमान पागलों की इमरान की मरी	● मुसलमानों तानों का मरि ● मरि का मरि	● इसलाम में तो बड़े बड़े विद्वानों ने अपहरण बनाया है। ● मुसलमान पागलों की इमरान की मरी	● इसलाम में तो बड़े बड़े विद्वानों ने अपहरण बनाया है। ● मुसलमान पागलों की इमरान की मरी

: પર્બો- સહેરની આગેલો વિરજાવર
 આકાશી યોડે કિલત કાપાળ લોહાન
 ડોંડોડિસન આરંગના વિશાળ પરિવરના ડોર
 કાચાંપિત્ત કમ્પની બુલિ ડ્રેન
 અને ડોડી આવાકાડો કમ્પની ખેતીની
 આરંભના રોશનિ કુખજાડ, પાક સોરજા
 નો જોશ સાવનો, વંદર સ્ટેશન, સોલોવ
 ડિલિંગ, સોજાક વાઈડે ડેનાંલોક
 ડિવરે પેંતી કિસ્ટરજ અને ડેનાંલોકના
 ડેવરના કાનન નિર્માની ડિઝાનોખા બારે
 ડેવરના આરંભજ પગાવી રહ્યા છે.

અદાણી ફાઉન્ડેશનની મુન્દ્રા વિસ્તાર માટે હરિયાળી પહેલ

ભુજ, તા. ૨
અદાણી ફાઉન્ડેશન મુન્દ્રા અને આસપાસના વિસ્તારોને હરિયાળા બનાવવા અવિરત કાર્ય કરી રહ્યું છે, આજે, માંડવી તાલુકાના નાની ખાખર ગામમાં એક ઐતિહાસિક વનીકરણ પ્રોજેક્ટનો શુભારંભ થયો, જે પર્યાવરણ સંરક્ષણની દિશામાં એક મહત્વનું પગલું છે.

આ પ્રોજેક્ટ હેઠળ અદાણી ફાઉન્ડેશન અને મુન્દ્રા પેટ્રોકેમ લી ના સહયોગ થી નાની ખાખર ગામે પહેલાં મિયાવાડી પદ્ધતિથી ૮૦૦૦ વૃક્ષોનું ગાઢ જંગલ ઉભું કર્યું છે. તદ્દપરાંત આજે વધુ ૫૦૦૦થી વધારે વૃક્ષોનું વાવેતર કરીને ગામના મધ્યમાં એક લીલું જંગલ આકાર લેશે. આ પહેલ નાની ખાખરની કાપાપલટ કરશે અને તેને પર્યાવરણ પ્રેમીઓ તેમજ પ્રવાસીઓ માટે નવું આકર્ષણ બનાવશે.

અદાણી ફાઉન્ડેશન, સ્થાનિક ગ્રામજનો, સમાજના આગેવાનો અને પંચાયત સમિતિના સહયોગથી આ વૃક્ષારોપણ અભિયાન મુ મુદત કરવા મા આયુ હતું. આ જંગલમાં ૪૦થી વધુ પ્રકારનાં



પ્રાદેશિક વૃક્ષો, ફૂલોના છોડ, વેલીઓ, ફળ ઝાડો અને આયુર્વેદિક વનસ્પતિઓનું વાવેતર થશે. ડ્રિપ ઈરિગેશન સિસ્ટમ અને મિયાવાડી પદ્ધતિનો ઉપયોગ કરીને આ વૃક્ષોનો ઝડપી વિકાસ થશે. આ જંગલ માત્ર ઓક્સિજન પાર્ક તરીકે જ નહીં, પરંતુ ધનુ-પશીઓના આશ્રયસ્થાન તરીકે પણ ખીલશે.

આ પ્રસંગે ગામની ૨૧ દીકરીઓના

હાથે વૃક્ષારોપણનો પ્રારંભ થયો, જે આ કાર્યને વધુ યાદગાર અને પ્રેરણાદાયી બનાવે છે. ગામના સરપંચ, આગેવાનો, શાળાઓના આચાર્યો, શિક્ષકો અને વિદ્યાર્થીઓએ ઉત્સાહભરે ભાગ લઈને આ પરિસરને પશીઓના કિલકિલાટથી ગુંજતું લીલું જંગલ બનાવવાની પ્રતિબદ્ધતા વ્યક્ત કરી. અદાણી ફાઉન્ડેશનના પંક્તિ-મેને જણાવ્યું, “નાની ખાખરમાં ત્રીજા

જંગલની શરૂઆત અમારા માટે ગૌરવની સજ્જ છે. ગ્રામજનોના સહયોગથી આવા વૃક્ષ મંદિરો ઊભાં કરવા અમે સતત પ્રયત્નશીલ છીએ. ‘આજે આ વનીકરણ પરિસરને લીલી ઝડી બતાવી ખુલ્લો મુકવામાં આવ્યો. આ પહેલ નાની ખાખરને માત્ર હરિયાળું જ નહીં, પરંતુ પર્યાવરણપ્રેમીઓ અને પ્રકૃતિ ઉત્સાહીઓ માટે એક નવું ગૌરવસ્થાન બનાવશે.

કૃષિ-ડેરી એક્સપો ૨૦૨૫



કૃષિ-ડેરી એક્સપો ૨૦૨૫માં ગામના મહેતવના ઊભાડો : આયોજિત નવી કામગીરી અને આણંદી એનાલોગ પ્રદર્શન ૧૪મી તારીખે કૃષિ-ડેરી એક્સપો નિવાસમાં માટે માટે સંસ્થાના માર્ગદર્શિકા કિર્તી પંડ્યા કૃષિના પદ્ધતિના સ્વરૂપે સ્થાપના કરવામાં આવી. કોઈપણ કોઈપણ સમાજક સ્થિતિમાં સ્થાપના કરવામાં આવી.

સોમ-મંગળવાર બે દિવસ મેળો બાકી કૃષિ-ડેરી એક્સપો કિસાનોથી ધમધમી ઊઠ્યો

ભુજ, તા. ૨૦ : કૃષિ-ડેરી એક્સપો ૨૦૨૫માં ગામના મહેતવના ઊભાડો : આયોજિત નવી કામગીરી અને આણંદી એનાલોગ પ્રદર્શન ૧૪મી તારીખે કૃષિ-ડેરી એક્સપો નિવાસમાં માટે માટે સંસ્થાના માર્ગદર્શિકા કિર્તી પંડ્યા કૃષિના પદ્ધતિના સ્વરૂપે સ્થાપના કરવામાં આવી. કોઈપણ કોઈપણ સમાજક સ્થિતિમાં સ્થાપના કરવામાં આવી.

સોમ-મંગળવાર બે દિવસ મેળો બાકી

કૃષિ-ડેરી એક્સપો કિસાનોથી ધમધમી ઊઠ્યો

આયોજિત નવી કામગીરી અને આણંદી એનાલોગ પ્રદર્શન ૧૪મી તારીખે કૃષિ-ડેરી એક્સપો નિવાસમાં માટે માટે સંસ્થાના માર્ગદર્શિકા કિર્તી પંડ્યા કૃષિના પદ્ધતિના સ્વરૂપે સ્થાપના કરવામાં આવી. કોઈપણ કોઈપણ સમાજક સ્થિતિમાં સ્થાપના કરવામાં આવી.

સોમ-મંગળવાર બે દિવસ મેળો બાકી

કૃષિ-ડેરી એક્સપો કિસાનોથી ધમધમી ઊઠ્યો

આયોજિત નવી કામગીરી અને આણંદી એનાલોગ પ્રદર્શન ૧૪મી તારીખે કૃષિ-ડેરી એક્સપો નિવાસમાં માટે માટે સંસ્થાના માર્ગદર્શિકા કિર્તી પંડ્યા કૃષિના પદ્ધતિના સ્વરૂપે સ્થાપના કરવામાં આવી. કોઈપણ કોઈપણ સમાજક સ્થિતિમાં સ્થાપના કરવામાં આવી.

Annexure - VII



Government of India
Ministry of Environment, Forest and Climate Change



Date: 19/11/2025

ACKNOWLEDGEMENT

This is to acknowledge that MUNDRA PETROCHEM LIMITED has provided the information on PARIVESH Portal in respect of No change in production capacity and No increase in pollution load for the project proposal NIPL for Coal to Poly - vinyl Chloride (PVC) near village Vandh & Tunda, Taluka: Mundra, District Kuchchh, Gujarat in the format attached herewith under the provisions of para 7(ii) c of EIA Notification and its subsequent amendment S.O.980-(E), dated 2nd March 2021.

To claim exemption from obtaining prior Environment Clearance in respect of the provisions mentioned in para 7(ii)c of EIA notification 2006 and its subsequent amendment S.O.980-(E), dated 2nd March 2021, project proponent / SPCB or UTPCC shall follow the following process:

1.The project proponent shall inform the SPCB or UTPCC, as the case may be, in specified format along with:

- (i) 'no increase in pollution load' certificate from the Environmental Auditor or reputed institutions empanelled by the SPCB or UTPCC or CPCB or Ministry;
- (ii) last Consent to Operate certificate for the project or activity; and
- (iii) online system generated acknowledgement of uploading of intimation and 'no increase in pollution load' certificate on PARIVESH Portal;

2.Based on the submission of above information, the project proponent may carry on the proposed activity as per the submitted details. However, if on verification the SPCB or UTPCC, as the case may be, holds that the change in configuration of plant or activity from environmental conditions will result or has resulted in change of production capacity and / or increase in pollution load, the exemption claimed under this clause shall not be valid and it shall be deemed that the project proponent was liable to obtain Prior Environmental Clearance before under taking such changes or increase, as per the clause (a) of sub-paragraph (ii) of paragraph 7 of EIA Notification, 2006 and the provisions of Environment (Protection) Act, 1986 shall apply accordingly.

Encl: Attached the Information provided by the project proponent.

Common Application Form

Project Details

1. Details of Project

1.1. Name of the Project	NIPL for Coal to Poly - vinyl Chloride (PVC) near village Vandh & Tunda, Taluka: Mundra, District Kuchchh, Gujarat
1.2. Project Proposal For	Expansion
1.3. Whether proposal expansion is made under 7 (ii) (a)?	NO
1.4. Project ID (Single Window Number)	SW/265935/2025
1.5. Description of Project	Application for No Increase in Pollution Load under Para 7(ii) (c) for change in configuration of an integrated Coal to Poly Vinyl Chloride (PVC) complex comprising of semi Coke Unit (2030 KTPA), cement Plant (6.0 MTPA), Clinker(4 MTPA), Calcium Carbide (2900 KTPA), VCM (2002 KTPA), PVC (2000 KTPA), Ethylene Glycol (400 KTPA), Acetylene (860 KTPA) & Caustic Soda (1310 KTPA).

2. Details of the Company/Organization/User Agency making application

2.1. Legal Status of the Company/Organization/User Agency	Company
2.2. Name of the Company/ Organization/User agency	MUNDRA PETROCHEM LIMITED

Registered address

2.3. Address	Adani Corporate House, Shantigram, Near VaishnoDevi Circle, SG Highway, Khodiyar, Ahmedabad, Gujarat, India 382421
2.4. State	GUJARAT
2.5. District	AHMADABAD
2.6. Pin Code	382421
2.7. E-mail address	vishnu.patidar@adani.com
2.8. Mobile number	xxxxxx6033

3. Details of the person making application

3.1. Name	Mayukh Sinha
3.2. Designation	Director

Correspondence address

3.3. Address	Adani Corporate House, Shantigram, Near VaishnoDevi Circle, SG Highway, Khodiyar, Ahmedabad, Gujarat, India 382421
3.4. State	GUJARAT
3.5. District	AHMADABAD

3.6. Pin Code	382421
3.7. E-mail address	vishnu.patidar@adani.com
3.8. Mobile number	xxxxxx3051

Project Location

1. Location of the Project or Activity

1.1. Upload KML	03. kml adani mpl site.kml
1.2. Whether the project/activity falling in the state/UT sharing international borders	NO
1.3. Shape of the Project	Non - Linear

Location Details

Toposheet No	State/UT	District	Sub District	Village	Plot/Survey/Khasra No.
F42J5	GUJARAT	Kachchh	Mandvi	NA	
F42J5	GUJARAT	Kachchh	Mundra	NA	
F42J9	GUJARAT	Kachchh	Mandvi	NA	
F42J9	GUJARAT	Kachchh	Mundra	NA	
Remarks					
F42J5, F42J9 & F42J10					

2. Land Requirement (in Ha) of the project or activity

Nature of Land involved in (Ha)	Area Existing in Ha [X]	Additional Area Proposed in Ha [Y]	Total Area required after expansion in Ha [X+Y]
Non-Forest Land [A]	323.69	0	323.69
Forest Land [B]	0	0	0
Total [A+B]	323.69	0	323.69

Project Activity Cost

1. Project/Activity Cost

1.1. Cost of the Existing Project at current price level (in Lakhs) [A]	3490000
1.2. Cost of the proposed expansion/ modernization of Project at current price level (in Lakhs) [B]	0
1.3. Total Cost of the project/ Activity (in lakhs) [A+B]	3490000

2. Employment likely to be generated

2.1. During construction phase

Permanent employment

Temporary employment

2.1.1. No. of permanent employment (No.s) [A]	5000
2.1.2. Period of employment (No. of days) [B]	365
2.1.3. No. of man-days [X]=[A]*[B]	1825000
2.1.4. Temporary / Contractual employment (No. of Man days) [Y]	2555000
2.1.5. Total [X] + [Y]	4380000

2.2. During operational phase

Permanent employment

	Existing	Proposed	Total
2.2.1. No. of permanent employment (No.s) [A]	3600	0	3600
2.2.2. Period of employment (No. of days) [B]	365	0	365
2.2.3. No. of man-days [X]=[A]*[B]	1314000	0	1314000

Temporary employment

2.2.4. Temporary / Contractual employment (No. of Man days) [Y]	2920000	0	2920000
2.2.5. Total [X] + [Y]	4234000	0	4234000

Others

1. Whether Rehabilitation and Resettlement (R&R) involved?	NO
2. Whether project area involves shifting of watercourse/road/rail/Transmission line/water pipeline, etc. required?	NO
3. Whether any alternative site(s) examined or part thereof for the non-site-specific component?	Not applicable as the project or activity is site specific
4. Whether there is any Government Order or Policy/ Court order relevant or restricting to the site?	NO

5.	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up?	YES
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Court Name	Bench	Case Category	Status	Description of Court	Next Hearing Date	Order Copy
High Court	Gujarat High Court	WP (Civil)	Pending	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. (transferred to Mundra Petrochem Ltd) 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. 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.	21/11/2025	N/A

6.	Whether the proposal involves violation of Act/Rule/Regulation/Notification of Central/State Government?	NO
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adani

dc

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



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



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).

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

<Dial 18002666868> <Wear Mask, Stay Safe>

RG204034787IN IVR:827120403478

RL MANEKDAG SO <380015>

Counter No:1,20/10/2022,13:27

To:THE TALUKA DEVELOPMENT OFFI

PIN:370421, Mundra SO

From:ADANI ENTER,LTD ADAN HOUSE

Wt:190gms

Am:70.00(Cash)

<Track on www.indiapost.gov.in>

<Dial 18002666868> <Wear Mask, Stay Safe>

INDIA POST

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



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 - IX

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 Secretary, 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



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, गांधीनगर
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 अरण्या भवन
Room No.407 & 409, A wing Aranya Bhavan
गांधीनगर (गुजरात) / Gandhinagar(Gujarat)

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



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 Secretary,**
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

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

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અદાણી એન્ટરપ્રાઇસીસ લિમિટેડ

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

જાહેર નોટિસ

મેં. અદાણી એન્ટરપ્રાઇસીસ લિમિટેડ, APSEZ ઔદ્યોગિક જમીન, વાંદ ઇ 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 એન્ટરપ્રાઇસીસ લિમિટેડ દ્વારા પ્રસ્તાવિત, APSEZ ઔદ્યોગિક જમીન, વાંદ ઇ 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., ઇથીલીન 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 કેલ્સિયમ કાબાઇડ - ૨૮૦૦ કે.ટી.પી.એ. (EIA નોટિફિકેશન માં દર્શાવેલ નથી) ના ભાગ રૂપે સમાવેશ થાય છે.)” માટે ની પરવારણીય 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 જોઈ શકાશે. તદ્ ઉપરાંત એન્વિરોમેન્ટ ક્લીયરન્સ ની કોપી કંપનનીની વેબસાઇટ <https://www.adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx> પર પણ જોઈ શકાશે.

sd-

પ્રોદ્યુત માણુ (પ્રોજેક્ટ ડેડ)

મેં. અદાણી એન્ટરપ્રાઇસીસ લિમિટેડ



પત્ર નહીં મિત્ર

કચ્છમિત્ર

ભુજ - સોમવાર, તા.૦૫-૦૯-૨૦૨૨

કચ્છ

૫

અદાણી એન્ટરપ્રાઇસ લિમિટેડ

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

જાહેર નોટિસ

મેં. અદાણી એન્ટરપ્રાઇસ લિમિટેડ, APSEZ ઔદ્યોગિક જમીન, વાંદ ઇ
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 એન્ટરપ્રાઇસ લિમિટેડ
દ્વારા પ્રસ્તાવિત, APSEZ ઔદ્યોગિક જમીન, વાંદ ઇટૂંડા 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., ઇથીલીન પ્લાયકોલ -
૪૦૦ કે.ટી.પી.એ, અને ઇન્ડસ્ટ્રી-૩ પ્રોજેક્ટ - એસિટિલિન - ૮૬૦
કે.ટી.પી.એ. અને કોસ્ટિક સોડા - ૧૩૧૦ કે.ટી.પી.એ અને કેલ્સિયમ
કાર્બાઇડ - ૨૮૦૦ 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 જોઈ શકાશે.
તદ ઉપરાંત એન્વિરોમેન્ટ કલીયરન્સ ની કોપી કંપનનીની વેબસાઇટ
<https://www.adanienterprises.com/-/media/e1d3761e5b154108947fff67fe6d940c.ashx> પર પણ જોઈ શકાશે.

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પ્રોદ્યુસ્ટ માન્ય (પ્રોજેક્ટ હેડ)

મેં. અદાણી એન્ટરપ્રાઇસ લિમિટેડ

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