Ref: MPL/ENV/MoEF&CC/2024 -November/04

Date: 18th Nov, 2024

To,

Shri Subrat Mohapatra, IFS (I/C) Deputy Director General of Forests (C) Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Gandhinagar, A-Wing-407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhinagar – 382010 E-mail : <u>iro.gandhingr-mefcc@gov.in</u>

- Subject: Six monthly compliance report (April, 2024 to September, 2024) 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). MPL/ENV/MoEF8CC/2023 May/07 Dated 24/05/2024.

Respected Sir,

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

Presently, the PVC project is under final design, detailed engineering & procurement stage including simultaneous site construction activities are in progress at site. We are hereby submitting a soft copy of the six-monthly EC compliance report for the period April, 2024 to September, 2024.

We hope you will find the above in order.

Thanking you, Yours faithfully,

Vinay Kumar Singh Head – Environment & Sustainability



Copy to : 1. Reginal Directorates, CPCB, Vadodara : <u>prasoon.cpcb@nic.in</u>

- 2. Member Secretory, GPCB : <u>ms-gpcb@gujarat.gov.in</u>
- 3. Regional Office, GPCB (Kutch East): ro-gpcb-kute@gujarat.gov.in

Mundra Petrochem Limited "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar Ahmedabad 382 421 Gujarat, India CIN: U23209GJ2021PLC122112 Tel. + 91 79 2656 5555 Fax + 91 79 2555 5500 info@adani.com www.adani.com

MUNDRA PETROCHEM LIMITED

Six Monthly EC Compliance Report

April, 2024 – September, 2024

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



Petrochemicals

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 PVC Production capacity of the proposed project is 2000 KTPA (Kilo Tons Per Annum). PVC grades such as Suspension PVC (Resin), Chlorinated PVC (C-PVC), Mass PVC (bulk) and Emulsion PVC (paste) would be produced at the proposed PVC Project.

For implementation of this project, various plants such as Semi-Coke Plant, Calcium Carbide Plant, Acetylene Plant, Caustic Soda (Chlor-Alkali process) Plant, VCM Plant, PVC Plant, Ethylene Glycol Plant and Cement Plant are proposed to be established.

PVC Produced from the facility will cater to the domestic market and replace imports in the domestic market. By- Products from the plant would be marketed in either in domestic market or export market depending upon 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.

Considering the company's long term business strategy, the proposed project is transferred from M/s Adani Enterprises Limited (AEL) to M/s Mundra Petrochem Limited (MPL). MPL is a wholly owned stepdown subsidiary company of M/s Adani Enterprises Limited (AEL), incorporated under the

provision of Company Act, 2013 for carrying out various business activities for Semi-Coke, Calcium Carbide, Cement & Clinker, VCM, PVC, Ethylene Glycol, Chlor-alkali and acetylene plants and associated products in 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)

Presently, the PVC project is under detailed engineering & process design and procurement stage including simultaneous construction activities are in progress at site.

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
Α	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. The matter of PIL No. 36 of 2022 was last posted/listed for hearing on 7th February 2023. Presently the matter is still pending for listing/hearing. The copy of latest status as per Hon'ble High Court of Gujarat is attached as Annexure – I . However, In the first hearing on the matter was held on 26 th April 2022. The Hon'ble court waives notice against AEL due to compliance of all the provisions of 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	Noted and shall be complied with the requirements. Remark: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. However, Greenbelt having requisite width will be developed in phased manner, mainly along the plant periphery, in downward wind direction, and along roadsides etc. Selection of plant species will be done in consultation with the State Forest Department. A total of 33% greenbelt shall be developed & maintained. Tree plantation at nearby community villages including roadside plantations are in progress in consultation with local forest department and Gram Panchyat. Copy of the implementation report is enclosed as Annexure – II with photographs of the plantation activity.

	year for the activities carried out during previous year	
(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.	A separate Environmental Management Cell (EMC) having qualified & experienced persons with specialization in Environmental Science / Engineering has been established for environment management, in which EMC head is directly reporting to Head of Organization / CEO as per company hierarchy. Further, a full-fledged environment laboratory will be developed at site to carryout environmental monitoring once the activities commence at site. Audited statement for the same will be submitted to Regional office of MoEF&CC before 1st July of every year for the activities carried out during previous year once the activities started at 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- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Environmental protection measures & safeguards in line with the applicable regulatory requirements and best available technologies are being considered in the detailed project engineering design. Audited statement for the same will be submitted to Regional office of MoEF&CC before 1st July of every year once the operational activities commence at the site.
(v)	The total water requirement (including the existing) will be 2,22,875 KLD that includes desalinated sea water 1,60,053 KLD which will be met from APSEZL Desalination plant and rest will be met form the internal recycling of the water. Project has obtained willingness letter for 220 MLD water supply from APSEZL. The PP should ensure that	Noted and shall be complied with the requirements. Remarks- Water requirement for the construction activities is being met through DESAL plant of APSEZL. Further, this project is based on "Zero Liquid (Effluent) Discharge" concept. So, there will be no

	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	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 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. Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Modular STPs have been installed for construction phase and Environment Monitoring report of the same is enclosed as Annexure - III . Engineering design of the STPs is in progress for treatment of domestic effluent during operational phase.
(vii)	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	Noted and shall be complied with. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. However, Banned chemicals/raw materials will not be manufactured or used for manufacturing activities.
(viii)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Noted and shall be complied with the requirements. Remarks: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. A detailed decarbonation program shall be prepared after design & detailed engineering of the different processes. An action plan for the same will be prepared, implemented, monitored and a report in this

		regard shall be submitted to the IRO, MoEF&CC.
(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 shall be complied with the requirements. Remark: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Further, wildlife conservation plan is being implemented in consultation with the Forest Department, Kachchh, Bhuj, Details of activities performed as per approved site- specific wildlife conservation / management plan is attached as Annexure - IV.
(x)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	Noted and shall be complied with the requirements. Remarks - Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. However, all necessary precautions will be taken to avoid the 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: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at 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. All possibilities will be explored for optimizing and reducing the water consumption during detailed engineering and operational stage by adopting water conservation measures. However, at present, modular Sewage treatment plant have been installed at admin / office area

		for treatment of domestic effluent during construction phase. Treated water being utilized for the development / growing of greenbelt. Further, Environment Monitoring report of the same is enclosed as Annexure - III.
(xiii)	As already committed by the project proponent, the Effluent (54,254 KLD) will be treated through ETPs, and Zero Liquid Discharge (ZLD) shall be ensured	Noted and shall be complied with the requirements. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Further, this project is on "Zero Liquid Discharge" concept and industrial as well domestic wastewater will be treated in well designed ETP and STP.
(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: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration as per CPCB Guideline and necessary arrangements will be made for transmission of data to the CPCB / SPCB server during operation phase. Further, as this project is on "Zero Liquid 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- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at 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- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. However, Occupational Health Center will be set up for surveillance of the worker's health within plant premises and deployment of workers shall be based on health status. Further, it will be ensured that all workers & employees are equipped with necessary Personal protection equipment's (PPEs) during construction as well as operational activities.
(xvii)	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	Noted and shall be complied with. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at 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, Action plan for mitigation measures will be properly implemented based on the safety and risk assessment studies (in progress).
(xviii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Noted and shall be complied with. Remarks - Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at 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. 	Noted and shall be complied with the requirements. Remarks - Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site.



	 (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. 	
(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- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. However, rooftop rainwater harvesting system will be designed and the storm water from the roof top will be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water will be used for horticulture / landscaping or various industrial processes in the unit during operation phase based on suitability. Further, storm water drainage system will be constructed in a way that no process effluent and/or any wastewater shall allow to mix with storm water.
(xxi)	 The PP shall undertake waste minimization measures as below: (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation. 	Noted and shall be complied with the requirements. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at 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 – Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site.

		Action plan proposed to address the issues raised during public hearing and socio- economic issues in the study area are in progress as MPL has already initiated CER activities in all villages surrounding to the project area and total CER expenditure incurred in various community welfare & eco-development activities during reporting period is INR. 170 lakhs and cumulative CER expenditure till the end of reporting period is approx. INR 1000 Lakhs. The details of CER activities with expenditures are summarized in CER report enclosed as Annexure – V .
В	General Condition	
(i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and shall be complied with.
(ii)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Noted and shall be complied with.
(iii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment	Noted and shall be complied with. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site with considering 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).	Further, the best available practices will be adopted for energy conservation and environment betterment. Noted and shall be complied with. Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Moreover, ambient noise quality monitoring (ANQM) is being carried out at selected locations of project site and surrounding villages through third party NABL accredited laboratory and result of ANQM conforms to the standards prescribed under E(P)A Rules, 1986. The Environment Monitoring report is enclosed as Annexure – III.
(v)	The company shall undertake all relevant measures for improving the socio- economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment	Noted and being complied with the requirements. Remarks – Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. Action plan proposed to address the issues raised during public hearing and socio- economic issues in the study area are in progress as MPL has already initiated CER activities in all villages surrounding to the project area and total CER expenditure incurred in various community welfare & eco-development activities during reporting period is INR. 170 lakhs and cumulative CER expenditure till the end of reporting period is approx. INR 1000 Lakhs. The details of CER activities with expenditures are summarized in CER report enclosed as Annexure – V .
(vi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the	Noted and being complied with the requirements. Remarks- Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site.

	conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose	Further, the capital cost & annual recurring cost towards the environmental protection measures is earmarked and expenditures related to environmental protection measures will be separately tracked and reported as part of EC compliance and same will be made available in company website.
(vii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Complied with. The copies of the Environmental Clearance letter vide our following letter nos. have been submitted to concerned panchayats (all 15 villages) & The Taluka Development Officer (Rural Local Body), The District Development Officer, District Industries Center and the local NGO / trust from whom suggestions / representations received during public hearing and reference Ack. copy of submission is enclosed as Annexure – VI. 1. AEL/MPL/ENV/EC/2022-September/02 Dated 02/09/2022. 2. AEL/MPL/ENV/EC/2022-September/04 Dated 02/09/2022. 3. AEL/MPL/ENV/EC/2022-September/04
(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 project is under construction phase and detail engineering of different processes is in progress. However, Environmental Statement for the year 2023 – 2024 have been submitted to Gujarat Pollution Control Board through vide our letter no. MPL/ENV/GPCB – Form – V/2024 – May/02 dated 18/05/2024 i.e within stipulated time period and same is also available on Company's Website i.e https://www.adanienterprises.com. Copy of the submission is enclosed as Annexure-VII .



(x)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry	The advertisement "stating the project has been accorded environmental clearance by MoEF&CC and also displayed on company website" - have been published on following newspapers on 5th September, 2022. (i.e within 7 days of grant of Environmental Clearance). 1. Kutch Mitra (Gujarati Language) 2.Gujarat Samachar (Gujarati Language) 3.The Times of India (English Language). copy of EC letter and News Papers are also submitted to Regional Office, MoEF&CC, Gandhinagar through vide our letter no. AEL/MPL/ENV/EC/2022 – September/07 dated 06/09/2022. Copy of the same is enclosed as Annexure – VIII .
(xi)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted and complied. The requisite information are being submitted to the authority as part of six monthly EC compliance report. Remarks: Presently, the PVC project is under detailed engineering & procurement stage including simultaneous construction activities are in progress at site. The date of financial closure is 25 th April 2024 when MPL signed the financing documents with the lead bank. 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. 13 th 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

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

<u> Annexure – I</u>

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 was held on 26th April 2022. The Hon'ble court waives notice against AEL and did not order any stay to conduct the public hearing on the scheduled date.

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

The PIL matter was last posted for hearing on 7th February 2023. Presently the matter is still pending for hearing. A copy of the latest update (as on 18th November 2024) is attached herewith as Annexure-I.A.

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

Annexure - IA Email My Case Status 18.11.2024 11:30 AM WRIT PETITION (PIL) WRIT PETITION (PIL) No. 36 of 2022 Status : PENDING (Filing(Stamp) Number : WPPIL/12417/2022) CNR No : GJHC240244952022 Last Listing Date: 07/02/2023 Coram HONOURABLE THE CHIEF JUSTICE MRS. JUSTICE SUNITA AGARWAL and HONOURABLE MR. JUSTICE PRANAV TRIVEDI S.NO. Petitioner Name Advocate On Record KHETI VIKAS SEVA TRUST THROUGH PRESIDENT NARAN BHARU SEDA MR SIRAJ R GORI(2298) for: Applicant(s) 🛶 1 1 GADHVI S.NO.Respondent Name Advocate On Record UNION OF INDIA MR ANKIT SHAH(6371) for :Opponent(s) - 1 STATE OF GUJARAT GOVERNMENT PLEADER(1) for :Opponent(s) - 2,5 2 3 CENTRAL POLLUTION CONTROL BOARD NOTICE NOT RECD BACK(3) for :Opponent(s) = 3,6 GUJARAT POLLUTION CONTROL BOARD DISTRICT COLLECTOR 4 CHINTAN H DAVE(7193) for :Opponent(s) -4 5 SINGHI & CO(2725) for :Opponent(s) -7 6 **REGIONAL OFFICER (GUJARAT)** ADANI ENTERPRISES LTD. · 21/04/2022 : 18/04/2022 **Presented On Registered On** : KACHCHH Bench Category : DIVISION District Case Originated From **Purpose of Listing** : 192-NOTICE & ADJOURNED MATTERS Classification • 876-DB - PIL - PIL - ANY OTHER / MISCELLANEOUS MATTERS Act CONSTITUTION OF INDIA Office Objections NO DATA FOR OFFICE OBJECTIONS Court Proceedings Notified Board Sr. S. No. CourtCode Date 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 0 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 o SHASTRI 9 22/12/2022 1 20 **192-NOTICE & ADJOURNED MATTERS** 1-NEXT DATE • HONOURABLE THE CHIEF JUSTICE MR. JUSTICE ARAVIND KUMAR • HONOURABLE MR. JUSTICE ASHUTOSH SHASTRI Available Orders

S. No.	Case Details	Judge Name		Order Date	CAV	Judgement	Questions	Transferred	Downlo
1	WPPIL/36/2022	 HONOURABLE THE CHIEF JUST ARAVIND KUMAR HONOURABLE MR. JUSTICE AS 		26/04/2022	N	ORDER	-	Y	Downloa
2	WPPIL/36/2022	 HONOURABLE THE CHIEF JUST ARAVIND KUMAR HONOURABLE MR. JUSTICE AS 		22/12/2022	Ν	ORDER	-	Y	Downloa
			Conr	ected Matters					
	NO DATA FOR CONNECTED MATTERS								
				n / Appeal Matters	4477500				
			NO DATA FOR APPL	A Details	ATTERS				
				fice Details					
S. No.	Filing Date	Document Name	Advocate Name			ourt Fee on ocument	Docume	nt Details	
1	21/04/2022	MEMO OF PETITION/APPEAL/SUIT	MR SIRAJ R GORI(for PETITIONER(s)			100	THRO	ETI VIKAS SEVA UGH PRESIDEN HARU SEDA GA	NT NARAN
2	21/04/2022	VAKALATNAMA	MR SIRAJ R GORI(for PETITIONER(s)			5	THRO	ETI VIKAS SEVA UGH PRESIDEN HARU SEDA GA	NT NARAN
3	09/06/2022	VAKALATNAMA	SINGHI & CO(2725 for RESPONDENT(5	-ADA	ANI ENTERPRIS	ES LTD.
4	20/06/2022	APPEARANCE NOTE	MR. PARTH H BHA for RESPONDENT(0		-UNION OF INE	DIA
5	04/07/2022	VAKALATNAMA	CHINTAN H DAVE(for RESPONDENT(,		0	-GUJAF	AT POLLUTION BOARD	I CONTRC
6	31/07/2023	APPEARANCE NOTE	MR ANKIT SHAH(6 for RESPONDENT(0		-UNION OF INE	AIC
			Ce	rtified Copy					
D DATA	FOR CERTIFIED	COPY	1						
				r Court Detail LOWERCOURT DE1	-AII				
				IR Details	/ 112				
				FOR FIR DETAILS					
				Orders/Judgments					
			l	NO DATA					

Annexure – II Tree Plantation Activities

Tree plantation is about fostering a sense of responsibility toward the surrounding environment. MPL has carried out tree plantation, as the process of planting trees in a targeted area and considering the same is a critical environmental activity that supports biodiversity, combats climate change and promotes the overall health of the ecosystem. This practice has gained significant consideration, as some grapples with the adverse effects of deforestation, urbanization and environmental degradation.



Tree plantation have been done with more than 7310+ trees (Native Species) at Nani Khakhar. The same plantation is being maintained by the expert.



Tree Plantation done at Borana with 10000+ native species. Further, tree plantation having 300 numbers of native species have been done at Road side from Tunda to Bhadia which are being maintain by M/s Sadbhavna Manavseva Trust and experts

Total 17610+ trees have been planted at nearby villages to combat climate change and enhance biodiversity. Further, 70,000+ numbers of cumulative trees have been planted for the period up to March, 2024. Therefore, till date total 87610+ numbers of trees have been planted at nearby villages.



Miyawaki tree plantation & Drip irrigation methods were used.



M/s Manvseva Charitable Trust, M/s Yash Green are the Expert to maintain the trees to get survival rate more than 95%.



Survival rate of trees are 95% +



/+ acre land were used for tree plantation



2078.640+ tCO2e will Seq.







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



Increasing their income and promoting sustainable agriculture.







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



Icrease the **Organic fertility** for the soil.



Increase the CO2 Sequestration, so as, clean air.

Tree Plantation Details

Sr. No.	Details of Expert Agency	Name of Species	Number of Species	Survival rate
1		Ficus Virens	08	
2		Millettia Pinnata	20	
3		Arborvitae	15	
4		Azadirachta indica	49	
5		Ficus religiosa	41	
6	M/s Manavseva	Ficus benghalensis	34	
7	Charitable Trust	Arachis pintoi	20	
8		Samanea saman	11	100%
9	(Planting + 2 year maintenance)	Tamarindus indica (Khati Ambali)	27	
10	memerionecy	Tamarindus Indica. (Mithi Ambali)	22	
11		Terminalia arjuna	23	
12		Syzygium Cumini	20	
13		Syzygium cumini (Jamun – Big Fruite)	10	
14		Syzygiium samarangense	1715	
15		Prunas amygdalus	183	
16		pithecellobium dulce	1418	
17		Senna Siamea	800	
18		Cascabela thevetia	200	
19		Cassia fistula	1635	
20		Cusuarina Equisetifolia	435	
21		Moringa olieifera	655	
22		Azadirachta indica	1555	
23		Delonix regia	250	
24		Tamarinda	1455	
25	M/s Yash Green	Date palm	550	
26		Croton (plants)	50	
27	(Planting + 2 year	Carissa carandas	30	100%
28	maintenance)	Ceiba pentandra	1304	100%
29		Albizia labbeck	250	
30		Morus (plant)	400	
31		Cedrus deodara	152	
32		Ficus religiosa	792	
33		Pentaclethra macroloba	125	
34		vechellia nilotica	125	
35		Gurva	535	
36		Samanea saman	95	
37			80	
38		Seilver (disambiguation) Coconut tree(cocos nucifera)	4	
39		, , ,	6	
		Banyan		
40		Ficus racemosa	57	
41		Woshingtonia robusta	2	
42		Betula Pendula	1170	

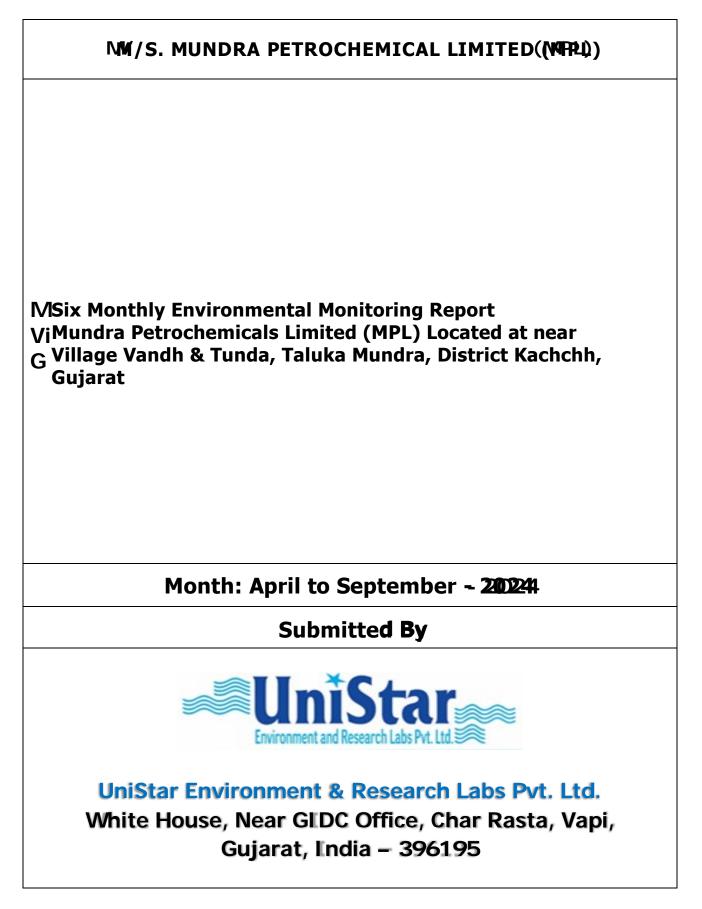
Sr. No.	Details of Expert Agency	Name of Species	Number of Species	Survival rate
43		Bauhinia	500	
44		Tecoma stans	100	
45		Prosopis cinararia	330	
46		banmboo	55	
47		Exora Coccinea	70	
48		Hibiscus	10	
49		Jasminum sambac	10	
50		Euphorbia ingens	20	10.00
51	M/s Yash Green	Bodhi Tree	100	100%
52	(Planting + 2 year	Aegle marmelos	5	
53	maintenance)	Mimusops elengi	5	
54		Manilkara zapota	5	
55		Lemon	9	
56		Cymbopogon	5	
57		Curry tree	5	
58		Thespesia populnea	13	
59		Bougainvillea	50	
		Total	17610	

Annexure - III



SIX MONTHLY ENVIRONMENTAL MONITORING REPORT, JUNIStar MUNDRA PETROCHEM LIMITED,









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 Petrochemical 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 2024	
Prepared & Managed By				Mr. Jaivik	Tandel	
Released By	d By Unistar Environment and Research Labs Pvt. Ltd.					

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ABBREVIATIONS AND ACRONYMS

MPL	:	Mundra Petrochemicals Limited
APL	:	Adani Power Limited.
APSEZL	:	Adani Ports & Special Economic Zone Limited
UERL	:	UniStar Environment and Research Labs Private Limited
СРСВ	:	Central Pollution Control Board
EIA	:	Environment Impact Assessment
EMP	:	Environmental Management Plan
ETP	:	Effluent Treatment Plant
KLD	:	Kilo Liter Day
MOEFCC	:	Ministry of Environment, Forest & Climate Change
C_2H_2	:	Acetylene
CaC ₂	:	Calcium Carbide
C ₂ H ₃ Cl	:	Vinyl chloride
Gol	:	Government of India
GPCB	:	Gujarat Pollution Control Board
PVC	:	Polyvinyl chloride
VCM	:	Vinyl Chloride Monomer



1 EXECUTIVE SUMMARY

1.1 Introduction

1.1.1 About ADANI Group

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

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

Mundra Petrochem Limited of 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 will be 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	One 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)	Two 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	Validity of previous calibration	Calibration Date	Cal. Valid up to
1.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/47/ 1816-DTJ-2013	Envirotech/ APM 460-BL	26/06/2024	27/06/2024	26/06/2025
2.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/22/ 44-DTC-2012	Envirotech/ APM 550- MINI	26/06/2024	27/06/2024	26/06/2025
3.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/34/ 1768-DTB-2013	Envirotech/ APM 460-BL	01/08/2024	02/08/2024	01/08/2025
4.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/21/ 20-DTC-2012	Envirotech/ APM 550- MINI	01/08/2024	02/08/2024	01/08/2025
5.	Respirable Dust Sampler PM 10	UERL/AIR/RDS/027/ 1751-DTA-2013	Envirotech/ APM 460-BL	01/08/2024	02/08/2024	01/08/2025
6.	Fine Particulate Sampler PM 2.5	UERL/AIR/FPS/050/ 129-DTL-2012	Envirotech/ APM 550- MINI	02/08/2024	03/08/2024	02/08/2025
7.	Sound Level Meter	UERL/AIR/SLM/09A	Envirotech - SLM 100 /24 DTE 2008	14/07/2024	06/07/2024	05/07/2025
8.	Sound Level Meter	UERL/AIR/SLM/09B	Envirotech - SLM 100 /310 DTK 2015	14/07/2024	06/07/2024	05/07/2025
9.	Sound Level Meter	UERL/AIR/SLM/09C	Extech / SDL 600	25/06/2024	27/06/2024	26/06/2025

*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	Permissible Limit in the Absence of Alt. Source
1	рН	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





	Parameter	Technical protocol	IS 10500 Standard Limits for drinking water	
Sr. No.			Desirable limit	Permissible Limit in the Absence 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	

* NS: Not Specified , NR: No relaxation

2.2.4 Surface Water Sampling & Analysis Techniques

Sr. No.	Parameter	Technical protocol	Classification for Inland Surface Water (CPCB) Class E	
1	рН	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	-	





NA: Not applicable

2.2.5 Surface Water (Marine) Sampling & Analysis Techniques

Sr. No.	Parameter	Technical protocol	Classification for Coastal marine water (CPCB) SW-I	
1	рН	IS 3025(Part 11):2022	6.5 to 8.5	
2	Dissolved Oxygen	APHA 23rd Ed,2017,4500-O, B	5	
2	Colour & Odour	IS 3025(Part 4):2021 &	No Colour	
3		IS 3025(Part 5):1983	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	-	-	

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)	
	Treated Effluent from STP			
	рН	IS 3025(Part 11):2022	6.5 to 9.0	
	BOD	APHA 23 rd Ed,2017,5210-B	<30	
1.	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

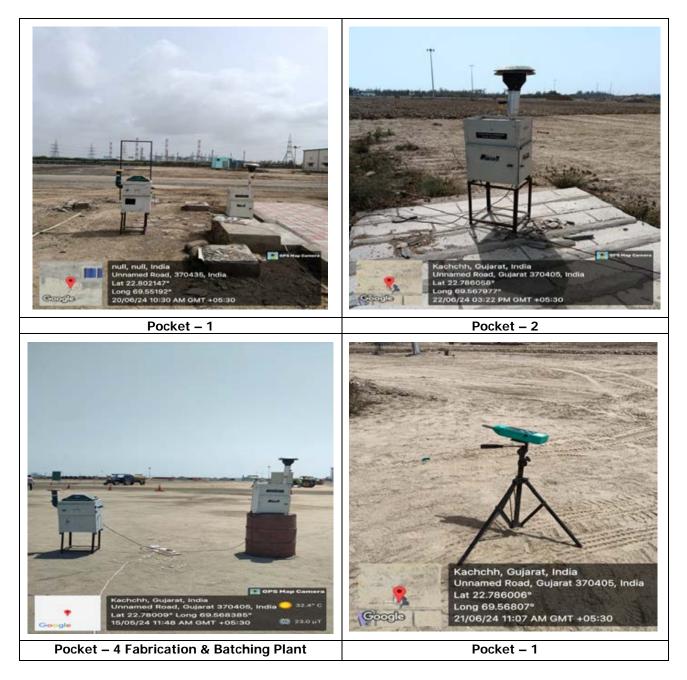
Photograph 2-1: Proposed Project Site (Current Status of Land)



Photograph 2-2: Photographs of monitoring

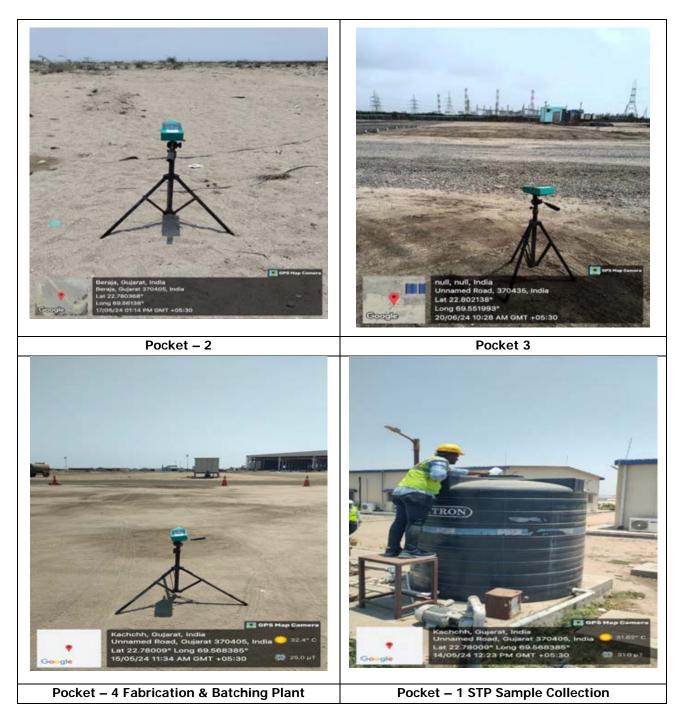












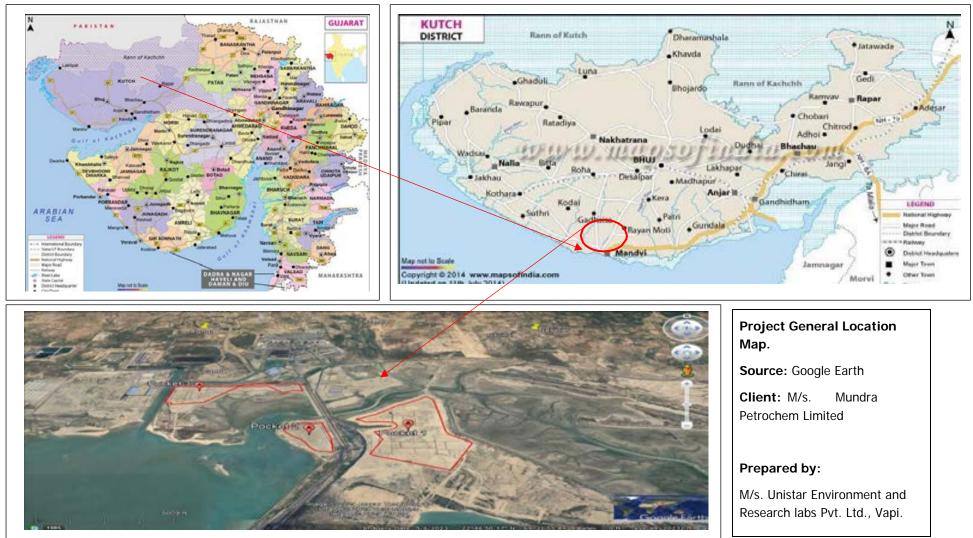








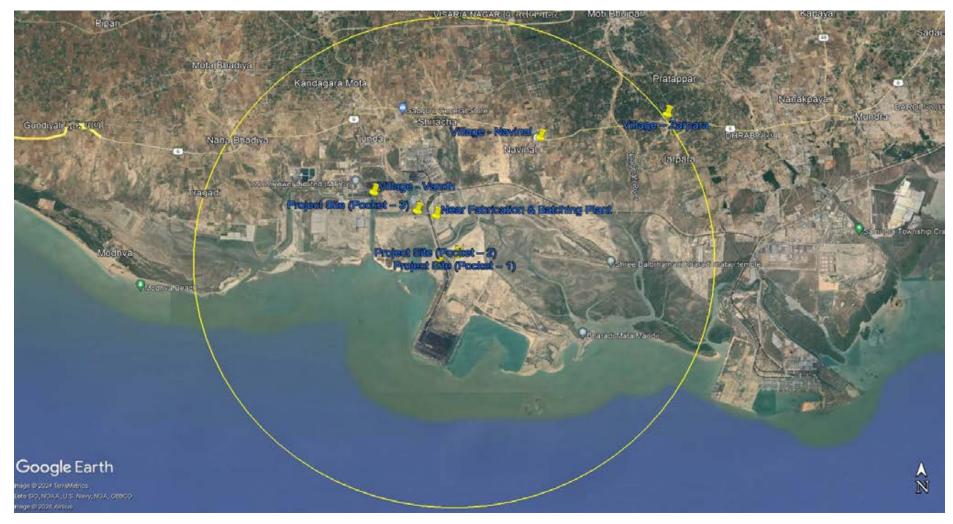
Map 2-1: Images Project General Location Map



2	М	-	0	1
C	U	C		
a	U	C		



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 April 2024 to September 2024. 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, and Rainfall.

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

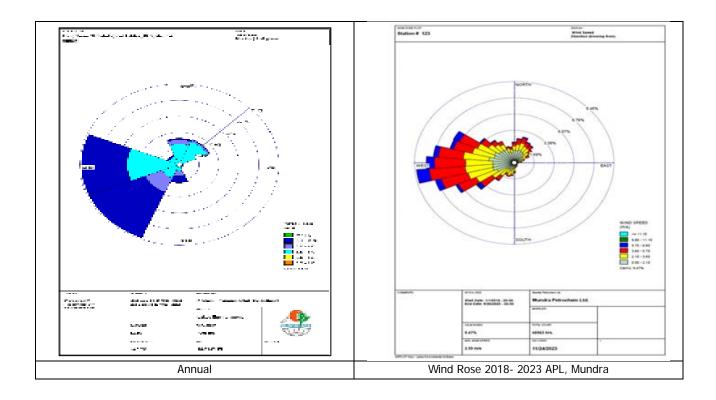
Table 3-1: Average meteorological condition

	Weather Monitoring Data										
Month	Scale	Temp. (°C)	RH (%)	BP (mmHg)	Wind Direction	Wind speed (Km/ Hr.)	Total Rainfall (mm)				
A surflut a	Max.	41.4	98.6	759.0	360.0	41.1					
April to September	Min	20.1	9.3	742.2	0.0	0.1	1412.0				
2024	Average/ Total	29.6	77.0	751.2	250.5	10.5					

Total Rainfall for Year 2023 at the end of December 2023 is 694 MM.

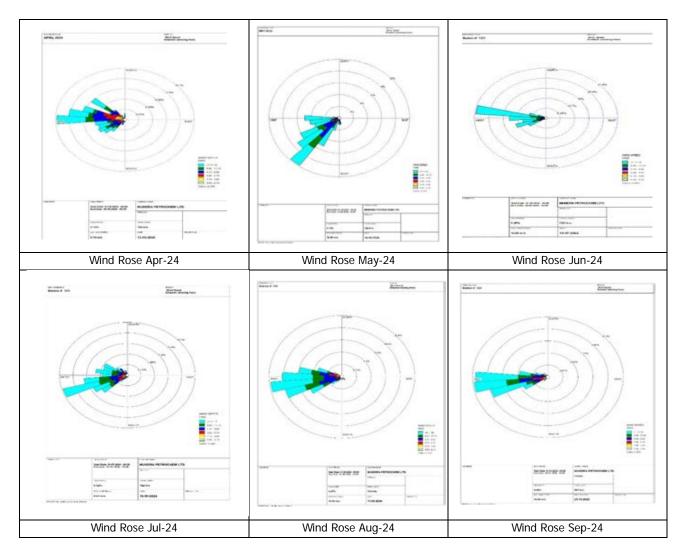
Based on wind patterns data, monthly wind-rose diagrams are presented in below Figure along with historical windrose of area.













4 ANALYSIS & INTERPRETATION

4.1 Ambient Air

		Parameter with Results											
Sr.	Marath	PM1 0	PM2.5	SO2	NO2	со	03	NH3	Pb	Ni	As	Benzene	Benzo (a) Pyrene
No.	Month	µg/ m3	µg/m 3	µg/m 3	µg/m 3	mg/m3	µg/m 3	µg/m 3	µg/m 3	ng/m 3	ng/m 3	µg/m3	ng/m3
			•		Permis	sible Lim	it As per	NAAQS	– 2009 M	lotificati	on.		
		100	60	80	80	2	180	400	1	20	6	5	1
Loca	ition : Proj	ect Site	e (Near t	o Pocket	: -1)								
1	Apr-24	65.6	20.5	18.5	22.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	70.2	24.6	20.1	23.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	61.4	21.3	17.3	20.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	45.3	15.2	7.3	10.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	41,2	14.2	10.5	13.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	45.6	17.8	12.3	15.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
Report Ref. No. - URA/24/04/A-097 dt. 03/05/2024, URA/24/05/A-038 dt. 03/06/2024, URA/24/06/A-068 dt. 04/07/2024, URA/24/07/A-062 dt. 06/08/2024, URA/24/08/A-033 dt. 02/09/2024, URA/24/09/A-074 dt. 03/10/2024													
Loca	ition: Proje	ect Site	(Near to	o Pocket	-2)								
1	Apr-24	62.7	21.8	19.5	23.1	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	66.7	23.6	21.6	24.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	59.7	20.4	19.2	22.1	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	40.7	14.5	8.5	11.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	39.9	13.8	13.2	16.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	42.3	15.4	14.6	17.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
	ort Ref. N /24/07/A-06											077 dt. 04	/07/2024,
Loca	ition: Proje	ect Site	(Near to	o Pocket	-3)								
1	Apr-24	66.6	24.5	17.7	24.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	69.8	26.1	18.2	21.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	63.1	23.1	16.8	19.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	48.1	14.7	9.2	12.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	42.3	15.3	11.6	14.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	45.1	16.9	13.2	16.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
-	ort Ref. N 24/07/A-06											063 dt. 04	/07/2024,



Loca	Location: Near Fabrication and Batching Plant												
1	Apr-24	64.7	22.3	16.4	20.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	68.4	25.7	19.4	22.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	62.1	23.5	18.5	21.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	43.7	15.3	8.7	11.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	40.6	12.7	12.8	15.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	44.8	15.8	13.6	16.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1

Report Ref. No.- URA/24/04/A-082 dt. 03/05/2024, URA/24/05/A-042 dt. 03/06/2024, URA/24/06/A-055 dt. 04/07/2024, URA/24/07/A-061 dt. 06/08/2024, URA/24/08/A-036 dt. 02/09/2024, URA/24/09/A-076 dt. 03/10/2024

Loca	Location : Village Navinal												
1	Apr-24	56.1	18.9	16.2	21.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	58.2	20.2	14.2	17.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	50.3	16.7	12.1	15.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	35.9	12.8	6.5	9.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	30.9	11.6	7.9	10.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	32.5	12.9	9.7	12.4	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1

Report Ref. No. - URA/24/04/A-020 dt. 03/05/2024, URA/24/05/A-029 dt. 03/06/2024, URA/24/06/A-079 dt. 04/07/2024, URA/24/07/A-058 dt. 06/08/2024, URA/24/08/A-031 dt. 02/09/2024, URA/24/09/A-048 dt. 03/10/2024

Loca	tion : Villa	ige Zarj	para										
1	Apr-24	50.4	16.2	13.3	17.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	54.1	18.5	15.5	18.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	49.5	15.0	14.1	17.6	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	36.5	13.1	7.5	10.3	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	28.9	10.5	6.1	9.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	31.6	14.4	8.7	11.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1

Report Ref. No. - URA/24/04/A-045 dt. 03/05/2024, URA/24/05/A-050 dt. 03/06/2024, URA/24/06/A-062 dt. 04/07/2024, URA/24/07/A-059 dt. 06/08/2024, URA/24/08/A-030 dt. 02/09/2024, URA/24/09/A-067 dt. 03/10/2024

Loca	tion : Villa	ige Van	dh										
1	Apr-24	58.9	20.4	18.6	23.8	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
2	May-24	55.6	17.3	16.2	19.5	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
3	Jun-24	48.4	14.2	13.4	16.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
4	Jul-24	41,2	14.3	7,1	10.2	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
5	Aug-24	25.3	10.6	5.2	8.7	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1
6	Sep-24	29.8	13.2	7.6	10.9	<0.01	<5.0	<5.0	<0.5	<1.0	<1.0	<1.0	<0.1



Report Ref. No.- URA/24/04/A-051 dt. 03/05/2024, URA/24/05/A-090 dt. 03/06/2024, URA/24/06/A-090 dt. 04/07/2024, URA/24/07/A-060 dt. 06/08/2024, URA/24/08/A-032 dt. 02/09/2024, URA/24/09/A-075 dt. 03/10/2024

Observations

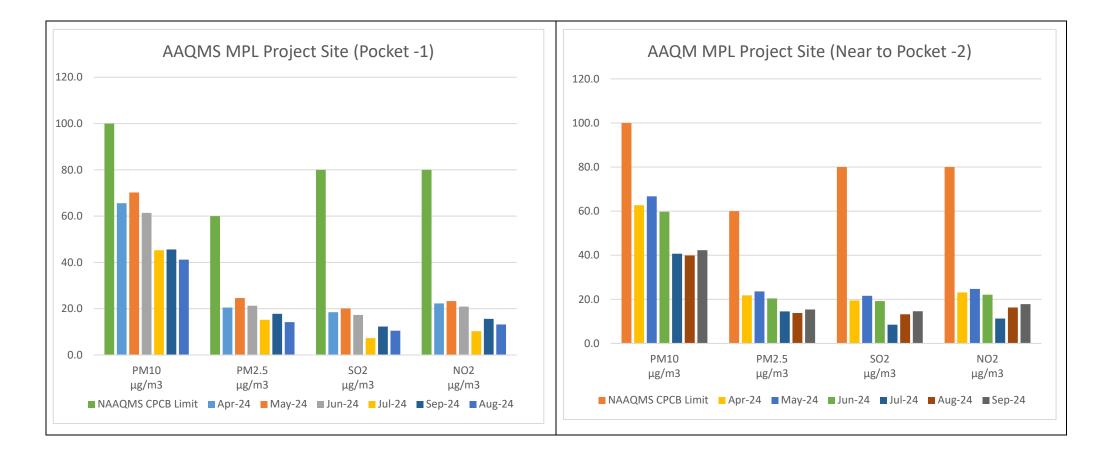
- The concentration of PM10 ranged from 70.2 μg/m3 at the Project Site (Pocket -1) to 25.3 μg/m3 in the Village of Vandh, with an average concentration of 49.8 μg/m3.
- The concentration of PM2.5 ranged from 26.1 μg/m3 at the Project Site Pocket 3 to 10.5 μg/m3 in the Village of Zarpara, with an average concentration of 17.4 μg/m3.
- The concentration of SO2 ranged from 21.6 μ g/m3 at the Project Site Pocket 2 to 5.2 μ g/m3 in the Village of Vandh, with an average concentration of 13.4 μ g/m3.
- The concentration of NO2 ranged from 24.7 μg/m3 at the Project Site Pocket 2 to 8.7 μg/m3 in the Village of Vandh, with an average concentration of 16.7 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).





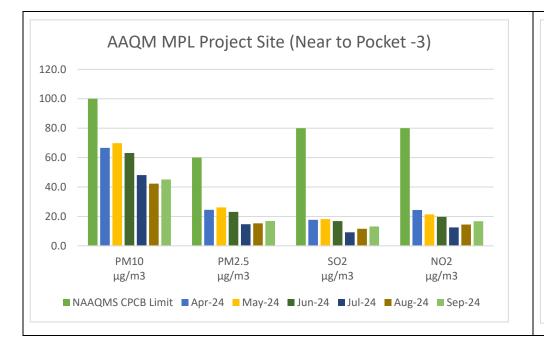
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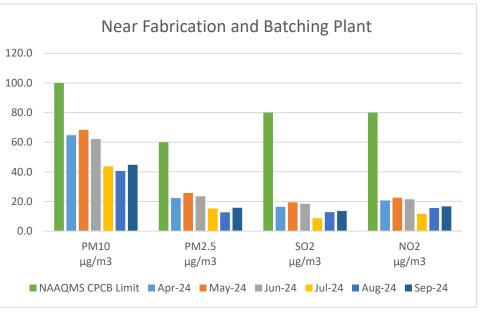






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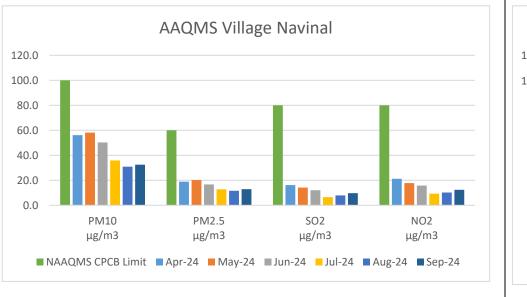


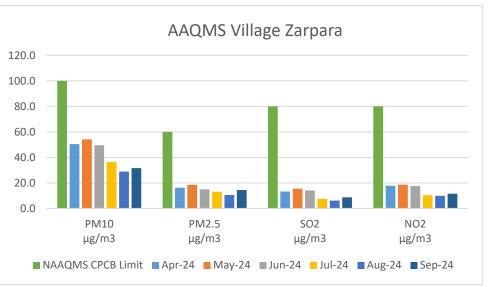


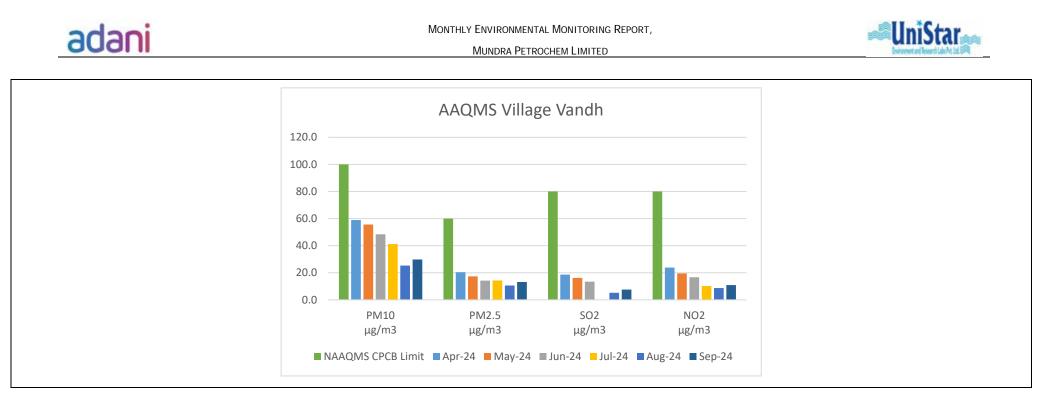




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4.2 Ambient Noise

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														
6				Day Time	Noise Le	vel in Leq			Night Time Noise Level in Leq						
Sr. No.	Location	CPCB Limits	Apr- 24	May- 24	Jun- 24	Jul-24	Aug- 24	Sep- 24	CPCB Limits	Apr-24	May- 24	Jun- 24	Jul- 24	Aug- 24	Sep- 24
1	Project Site (Pocket – 1)	75	59.8	59.6	59	59.7	58.1	57.6	70	48.2	46.8	45.9	45.9	45.2	46.0
2	Project Site (Pocket – 2)	75	58.2	58.5	58.4	58.9	58.6	56.9	70	48.9	45.5	46.1	45.8	46.1	45.3
3	Project Site (Pocket – 3)	75	58.7	59.9	61.4	58.9	57.4	58.2	70	46.8	46	47.1	45.5	43.6	45.0
4	Near Fabrication & Batching Plant	75	63.6	62.2	62.3	61.7	59.5	60.5	70	49	47.6	46.3	46.3	44.6	46.8
5	Village - Navinal	55	54.2	52.6	50.1	51	49.9	46.4	45	44.5	40.3	39.1	41.5	41.5	36.9

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6	Village - Zarpara	55	50.4	49	49.6	50.9	50.2	48.7	45	42.4	41.6	40.8	41.9	40.4	37.2
7	Village - Vandh	55	51.5	52.2	50.6	51	48.3	47.4	45	43.1	41.1	41.6	42.8	38.9	39.9
Report	Ref. No									•					•
URA/24	/04/AN-063 dt. 03/05/2024	, URA/24/0	05/AN-024	dt. 03/06/	2024, URA	/24/06/AN	-034 dt. C)4/07/2024,	URA/24/06/	'AN-037 dt. (06/08/2024	1, URA/24	/08/AN-0	11 dt. 02/0	9/2024,
URA/24	/09/AN-048 dt. 03/10/2024														
URA/24	/04/AN-064 dt. 03/05/2024	, URA/24/	/05/AN-035	5 dt. 03/06	/2024, UR/	a/24/06/AN	I-037 dt.	04/07/2024	, URA/24/06	/AN-012 dt.	06/08/202	4, URA/24	4/08/AN-0	012 dt. 02/0	09/2024,
URA/24	/09/AN-051 dt. 03/10/2024	·.													
URA/24	/04/AN-057 dt. 03/05/2024	, URA/24/0	05/AN-031	dt. 03/06/	2024, URA	/24/06/AN	-026 dt. 0)4/07/2024,	URA/24/06/	'AN-039 dt. (06/08/2024	I, URA/24	/08/AN-0	13 dt. 02/0	9/2024,
URA/24	/09/AN-052 dt. 03/10/2024	•													
	/04/AN-052 dt. 03/05/2024		05/AN-028	dt. 03/06/	2024, URA	/24/06/AN	-019 dt. 0	04/07/2024,	URA/24/06/	'AN-036 dt. (06/08/2024	1, URA/24	/08/AN-0	14 dt. 02/0	9/2024,
URA/24	/09/AN-050 dt. 03/10/2024	•													
	/04/AN-012 dt. 03/05/2024		05/AN-021	dt. 03/06/	2024, URA	/24/06/AN	-038 dt. 0	04/07/2024,	URA/24/06/	'AN-033 dt. (06/08/2024	1, URA/24	/08/AN-00	09 dt. 02/0	9/2024,
URA/24	/09/AN-021 dt. 03/10/2024	·.													
	/04/AN-035 dt. 03/05/2024		05/AN-060	dt. 03/06/	2024, URA	/24/06/AN	-043 dt. C	04/07/2024,	URA/24/06/	'AN-035 dt. (06/08/2024	1, URA/24	/08/AN-0	10 dt. 02/0	9/2024,
URA/24	/09/AN-049 dt. 03/10/2024	·.													
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Observations

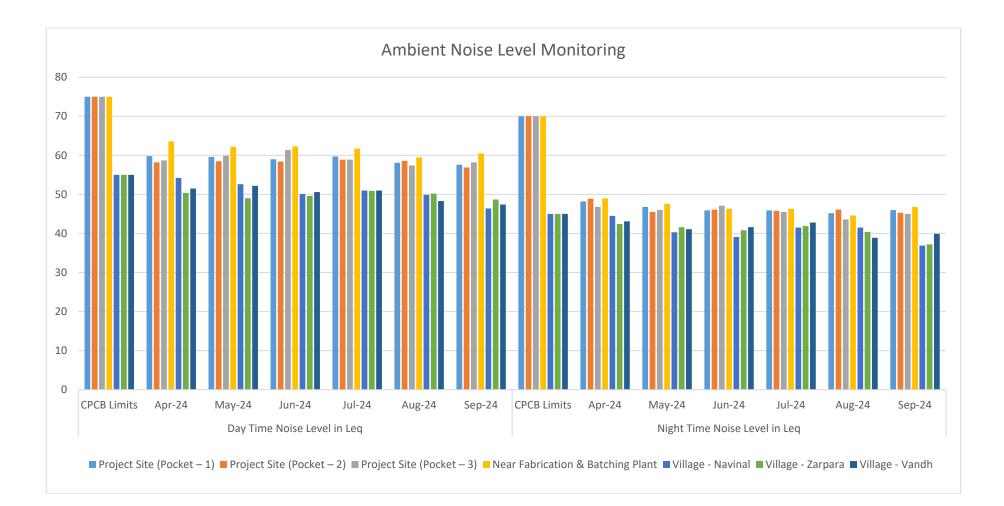
Industrial Zone

The Average Leq (equivalent continuous sound level) during the day for the industrial zone ranged from 61.7 dB(A) at Near Fabrication & Batching Plant to 54.8 dB(A) at Near Fabrication & Batching Plant. Similarly, the Leq during the night ranged from 49.4 dB(A) at Project Site - Pocket 1 & 3 to 46.2 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 55.2 dB(A) in Village Navinal to 50.7 dB(A) in the village Vandh. Meanwhile, the Leq during the night ranged from 44.2 dB(A) in Village Navinal to 39.4 dB(A) in Village Navinal. 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.







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4.3 Water Quality

4.3.1 Ground Water Quality

Ground water was collected as grab samples from eight location & sent to laboratory for analysis for various parameters in the month of May 2024 as Pre-Monsoon sampling.

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

			Limits fo	0 Standard or drinking rater	GW 01	GW 02	GW 03				GW 07-	
Sr. No.	Parameter	Unit	Desirable limit	Permissible Limit in the Absence of Alternate Source	Nani Khakhar	Moti Khakhar	Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	Nana Bhadiya	GW 08 Deshalpar
1	рН	pH scale	6.5-8.5	NR	7.83	7.99	8.41	8.09	7.96	8.42	8.6	7.86
2	Temp	o C	NS	NS	32	32	32	32	29.5	32	32	32
3	Turbidity	NTU	1	5	0.1	0.1	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
4	TDS	mg/l	500	2000	612	2830	1800	1960	1820	3480	1290	2520
5	Electrical Conductivity	μS/ cm	NS	NS	927	4300	2860	2980	2750	5280	2080	3820
6	COD	mg/l	NS	NS	16	20	20	20	20.4	8.1	16	24
7	BOD	mg/l	NS	NS	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	2.5	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
8	Phenol	mg/l	0.001	0.002	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL: .001)	BDL (MDL: .001)	BDL (MDL: .001)	BDL (MDL: 0.001)
9	Chlorides	mg/l	250	1000	153.8	1121.6	590.6	714.7	667.8	1566.9	408	987.6
10	Sulphate	mg/l	200	400	39.3	195.5	95.5	175.9	38	118.7	64.9	208.8
11	Total Hardness	mg/l	200	600	181.8	585.8	131.3	272.7	236.1	307	84.8	474.7
12	Ca++ Hardness	mg/l	NS	NS	111.1	242.4	70.7	111.1	138.6	119.2	40.4	191.9
13	Mg++ Hardness	mg/l	NS	NS	70.7	343.4	60.6	161.6	97.5	187.9	44.4	282.8

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			Limits fo	0 Standard or drinking ater	GW 01	GW 02	GW 03				GW 07-	
Sr. No.	Parameter	Unit	Desirable limit	Permissible Limit in the Absence of Alternate Source	Nani Khakhar	Moti Khakhar	Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	Nana Bhadiya	GW 08 Deshalpar
14	Total Alkalinity	mg/l	200	600	156.8	455.7	509.6	343	289	465.5	465.5	352.8
15	Nitrate	mg/l	45	NR	0.6	4.5	5.8	0.7	1.1	3.5	2.2	9.9
16	Fluoride	mg/l	1	1.5	0.49	1.11	2.75	2.65	0.98	1.29	4.95	2.05
17	Sodium	mg/l	NS	NS	98.8	>500	496.2	496.5	410	>500	380	>500
18	Potassium	mg/l	NS	NS	3.3	8.8	13.8	6	34	9.2	8.8	6.9
19	Calcium	mg/l	75	200	44.5	97.2	28.4	44.5	55.6	47.8	16.2	76.9
20	Magnesium	mg/l	30	100	17.1	83.4	14.7	39.3	23.7	45.6	10.8	68.7
21	Salinity	ppt	NS	NS	0.28	2	1.07	1.29	1.206	2.8	0.38	1.78
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	0.38	ND	ND	ND
24	Dissolved Oxygen	mg/l	NS	NS	6.9	6.8	6.7	7.2	4.1	6.6	7	7.1
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	3.2	12.8	19.4	13.2	11.6	27.5	16.1	14.4
	Heavy Metals											
27	Arsenic (as As)	mg/l	0.01	0.05	BDL (MDL:0.01)	BDL (MDL:0.01						
28	Cadmium (as Cd)	mg/l	0.003	NR	BDL (MDL:0.003)							
29	Chromium (as Cr)	mg/l	0.05	NR	BDL (MDL:0.05)							





Mundra Petrochem Limited	

			Limits fo	0 Standard or drinking ater	GW 01	GW 02	GW 03				GW 07-	
Sr. No.	Parameter	Unit	Desirable limit	Permissible Limit in the Absence of Alternate Source	Nani Khakhar	Moti Khakhar	Mota Kandagra	GW 04 Siracha	GW 05 Navinal	GW 06 Tunda	Nana Bhadiya	GW 08 Deshalpar
30	Copper (as Cu)	mg/l	0.05	1.5	BDL (MDL:0.05)							
31	Cyanide (as CN)	mg/l	0.05	NR	BDL (MDL:0.05)							
32	Iron (as Fe)	mg/l	0.3	NR	BDL (MDL:0.1)							
33	Lead (as Pb)	mg/l	0.01	NR	BDL (MDL:0.01)							
34	Mercury (as Hg)	mg/l	0.001	NR	BDL (MDL:0.001)							
35	Manganese (as Mn)	mg/l	0.1	0.3	BDL (MDL:0.1)							
36	Nickel (as Ni)	mg/l	0.02	NR	BDL (MDL:0.02)							
37	Zinc (as Zn)	mg/l	5	15	BDL (MDL:0.05)							
38	Total Coliform	MPN	Shall not b	e detectable	Absent							
39	Faecal Coliforms	MPN	Shall not b	e detectable	Absent							
R	Report Ref. No. URC	:/24/XX/XX	(X & URB/24	/XX/XXX	05/0472 05/0473	05/0474 05/0475	05/0466 05/0469	05/0478 05/0479	05/0480 05/0481	05/0468 05/0467	05/0470 05/0471	05/0476 05/0477

Observations :

The ground water samples are analysed as per IS: 10500 Standard.



4.3.2 Surface Water Quality

Surface water was collected as grab samples from one location Navinal village pond however other two location Nagavanti Nadi & Siracha village pond found dried during pre-monsoon sampling in month of May 2024.

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 046 Navinal Village pond
			Class E	Aug-23
1	рН	pH Scale	6.0 to 8.5	8.48
2	Dissolved Oxygen	mg/l	NA	6.5
3	TDS	mg/l	2100	350
4	Electrical Conductivity	µS/cm	2250	530
5	BOD	mg/l	NA	9
6	Colour	Pt.co	-	BDL (MDL: 5.0)
7	Total Hardness	mg/l	NA	72.7
8	Ca++ Hardness	mg/l	NA	19.4
9	Mg++ Hardness	mg/l	NA	5.9
10	Chlorides	mg/l	600	86
11	Sulphate	mg/l	1000	8.8
12	Nitrate	mg/l	NA	BDL (MDL: 0.1)
13	Fluoride	mg/l	-	0.55
14	Phenol	mg/l	NA	BDL (MDL: 0.001)
15	Ammonical Nitrogen	mg/l	NA	BDL (MDL: 0.2)
16	SAR		26	3.3
17	Copper (as Cu)	mg/l	NA	BDL (MDL: 0.05)
18	Iron (as Fe)	mg/l	NA	BDL (MDL: 0.1)
19	Manganese (as Mn)	mg/l	NA	BDL (MDL: 0.1)
20	Mercury	mg/l	NA	BDL (MDL: 0.001)
21	Cadmium (as Cd)	mg/l	NA	BDL (MDL: 0.003)
22	Arsenic (as As)	mg/l	NA	BDL (MDL: 0.01)
23	Cyanide	mg/l	NA	BDL (MDL: 0.05)
24	Lead (as Pb)	mg/l	NA	BDL (MDL: 0.01)
25	Zinc	mg/l	NA	BDL (MDL: 0.05)
26	Chromium (as Cr)	mg/l	NA	BDL (MDL: 0.05)
27	Boron	mg/l	2	BDL (MDL: 0.5)
28	Total Coliform	MPN/100ml	-	Absent
29	COD	mg/l	-	16.4
			Report Ref. No.	URC/24/05/0464 URB/24/05/0465

Observations :

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



4.3.3 Surface Water (Marine) Quality

Surface water (Marine) was collected as grab samples from two location Kotadi Creek & Baradi mata creek. 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 2- Kotadi Creek water	SW 3- Baradi Mata Creek
			SW-I	Aug-23	Aug-23
1	рН	pH scale	6.5 to 8.5	8.1	8
2	Dissolved Oxygen	mg/l	5	6.4	6.6
3	Colour & Odour	-	No Colour No Odour	BDL Agreeable	BDL Agreeable
4	Floating Matters	-	None	None	None
5	Total Suspended Solid	mg/l	None from Sewage or Industrial waste Origin	24	22
6	Turbidity	NTU	-	0.1	0.1
7	BOD	mg/l	-	2.8	3
8	Oil & Grease	mg/l	0.1	BDL	BDL
9	Mercury as Hg	mg/l	0.01	BDL	BDL
10	Lead (as Pb)	mg/l	0.01	BDL	BDL
11	Cadmium (as Cd)	mg/l	0.01	BDL	BDL
12	Iron (as Fe)	mg/l	-	0.172	0.194
13	Manganese (as Mn)	mg/l	-	BDL	BDL
14	Total Coliform	ml (MPN)	-	Absent	Absent
15	Sludge Deposits, Solid refuse floating Solids, Oil Grease and Scum	-	-	None	None
			Report Ref. No.	URC/24/05/0460 URB/24/05/0461	URC/24/05/0462 URB/24/05/0463

Observations :

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

4.3.4 Sewage Water Quality

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

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

Sr.	Location	MOEFCC			STP O	utlet		
No.	Location	Limits	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	pH @25°C	6.5 – 9.0	7.23	7.44	7.39	7.15	7.01	7.6
2	Total Suspended Solid	<50	14	18	16	19	14	15
3	Chemical Oxygen Demand (COD)	-	28.4	32.2	36.5	24.2	39.4	41.3





4	Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	<30	8	10	6	8	9	8
5	Total Nitrogen	-	4.2	3.8	4.2	5.2	6.4	4.8
6	Total Phosphorus	-	1.1	1.4	1.1	1.4	1.2	1.9
7	Faecal Coliform	<1000	Absent	Absent	32	21	27	34

Report Ref. No. : URC/24/04/0688 dt. 08/05/2024, URC/24/05/0315 dt. 21/05/2024, URC/24/06/0338 dt. 02/07/2024, URC/24/08/0013 dt. 14/08/2024, URC/24/08/0183 dt. 03/09/2024, URC/24/09/0642 dt. 08/10/2024

Observations :

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





ANNEXURE

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

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Laboratory Recognition by GPCB	NABET Certification





Annexure 2: Calibration Certificates

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		C	alibration	Certificate				
Instru	ment Name	:	Respirable (Dust Sampler				
Instru	ment ID No.	1	UERL/AIR/R	05/27				
Instru	ment Sr. No. Supplier		1751-DTA-20	013, 1142-DTA-20	13			
Colib	ration Certificate No.	:	UERL/CC/R	D\$-27/0802/24-25	i			
Date	of Calibration	1	02/08/2024					
Next	Calibration due Date	:	01/08/2025					
Sr. No.	Name of Unit Calibrated		Calibrator Tra	ceable to	Coli	ibration Certific of Calibro		
1.	Flow Meter	Enviro Id No.		tion Laboratory		UERLPL/2023-2 9 of Call.: 06.08	4/FLOW/221	
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2.	Time Totalizer	Enviro	tech Calibrat	tion Laboratory				
	ID. No. (UERL/AIR/RDS/TT/27)	ID, No	ni and Res , /master/air/		Date	.2022		
3.	Rotometer	Rotan Enviro		lion Laboratory	ECL/UERLPL/2022-23/FLOW/33			
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Instru	ment ID No.	:	UERL/AIR/RI	D\$/34			
Instru	ment Sr. No. Supplier	:	1768-DTB-20	013, 1147-DTB-20	13		
Calib	ration Certificate No.	:	UERL/CC/R	DS-34/0802/24-2	5		
Date	of Calibration	:	02/08/2024				
Next	Calibration due Date	:	01/08/2025	6			
Sr. No.	Name of Unit Calibrated		Calibrator Tro	ceable to	Cal	ibration Certific of Calibr	
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		C	alibration	Certificate			
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Instru	ment ID No.	:	UERL/AIR/F	PS/50			
Instru	ment Sr. No. Supplier	3	APM - 550/	129-DTL-2012			
Calib	ration Certificate No.	÷	UERL/CC/F	PS-50/0803/24-25	8		
Date	of Calibration	:	03/08/2024				
Next	Calibration due Date	:	02/08/2025	8			
Sr. No.	Name of Unit Calibrated		Calibrator Tra	ceable to	Cal	bration Certific of Calibre	
1.	Rotameter		ilech Calibro Delhi)	fion Laboratory	ECL/UERLPL/2023-24/FLOW/2214 Date of Call: 06.08.2023		
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UniStar Environment & Research Labs Pvt. Ltd.

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

Gujarat, India – 396195



Annexure – IV Activities for Wildlife Conservation Plan

Awareness program for "Wildlife conservation" for surrounding area has been conducted nearby at village. These awareness program comprises the of wild life need conservation, definition, importance, methods of wildlife conservations and actions taken by Mundra Petrochem Limited in consultation with Adani foundations for nearby villages and coastal area.



Status of Wild Life conservation plan.

Sr. No.	Activity	Villages / Area	Status	Remark
1	Plantation program for coservation of habitat	Nearby Villages	Fulfilled	70000+ trees have been planted at nearby villages.
2	Awareness programme for "Wild life" Conservation – Educational Program.	Tunda (1 st Year) Vandh (2 nd Year)	Fulfilled * Fulfilled *	Awareness programme have been conducted under Eco Club Programne.
		Navinal (3 rd Year)	Will done* on time	Awareness programme will be done under Eco
		Siracha (4 th Year)	Will done* on time	Club Programne.
		Kandagra (5 th Year)	Fulfilled	Awareness programme have been conducted under Eco Club Programne.
3	Artificial Concreate water pond of 1000 lit capacity to provide drinking water facility for wild animals.	2 villages in study area.	Fulfilled	"Guzzler" – Drinking water facilities have been provided for wild life animals.
4	Mangrove Plantation (1000 no. of plant per Ha.)	Near by project area.	Fulfilled	10000 numbers of mangrove plantation have been done in vicinity of plant premises.

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



Wild life awarness program have been conducted at schools of nearby village under Eco Club as 70 numbers of schools from nearby villages along with Mundra and Mandavi town area are dived for environmental awareness like wild life conservation, alternative of single use plastic, mangrove conservations, etc.

About 100 students were participated and realised the important of nearby area, life depends on baran land as well as coastal area.

Students were also enlighten for the sanctury and reserve forest area located in the district and how they protect the wild life.

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





nursery for 10,000 numbers of mangrove species have been

developed.



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

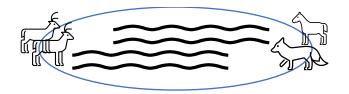






The theme – "Mangroves: Vital Guardian of Coastal Ecosystems" highlighted their role in protecting coastlines, supporting fisheries and sustaining local communities. Bio Diversity expert from the company, Professors from the collages were elaborated the importance of mangroves with how mangroves provide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

Further, as per approved wild life activities, 2 numbers of "Guzzler" – Drinking water facilities for wild animals have been constructed in consultation and supervisions of District Forest Department, Kutch at following locations.



2 numbers of Guzzler have been constructed at Navinal Dhuvo and Near Brahmani Mata Mandir, Navinal



Annexure - V

MUNDRA PETROCHEM LIMITED

Corporate Environmental Responsibility April, 2024 – September, 2024



-: GROWTH WITH GOODNESS :-

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1. EXECUTIVE SUMMERY

This report highlights the impactful achievements of Mundra Petrochem Limited (MPL)'s Corporate Environmental Responsibility (CER) initiatives for the period April 2024 to September 2024. MPL is steadfast in it's commitment to driving positive change in the communities surrounding to the project activities, with a focus on environmental sustainability, community empowerment and fostering a healthier society.

Educational Initiatives.

Addressing the SDG of providing quality education, MPL's education initiative 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.

Under this, 750+ students attended Career Counseling Seminar. More than 68 students were facilitated through transportation for pick up & drop to attend the school. More than 70 students benefited with educational kits. School furniture provided to schools at Modhava village. 8 teachers have been appointed under the "Utthan" Sahayak for boosting the education skill of students. Educational awareness programs have been conducted by field expert with considering importance of environment and sustainability in routine life.

Skill development programs for young youth have been conducted. School infrastructure have been improved by providing Sea Water Reverse Osmosis (SWRO) unit, Pink Toilet for Girls Students, furniture and paver blocks for the school premises to provide safe drinking water including strengthening of sanitation & hygiene.

<u>Community Health Initiatives.</u>

MPL's primary assessment revealed that the local fisherman community is one of the most vulnerable communities. The aim of this initiatives is to empower fisherman community including by providing vital medical assistant and health education. Through preventive disease awareness drives, family planning workshops, menstrual hygiene and nutrition workshops, and general health sessions, the project aim to reached over 60,000 peoples in 16 villages.

Under this initiative, 99 Nos. of patients examined by Eye specialist while 34 Nos. of patients examined by Gynecologist and 641 Nos. of patients examined by General Doctor & 11 Nos. of patients examined by pediatrician.

Further, more than 184 Senior citizens participated in the general health camp. Menstrual Health awareness session was organized for Girls and women. Hospital infrastructure has been provided at GK & GAIMS Hospital at Bhuj with modern equipment for Burn & Intensive care units (ICU) to cater the medical support to burn cases in 200 km radius. Provision of clean & safe drinking water to the villagers and students by installing SWRO units at village Tunda.

Sustainable Livelihood and women Empowerment.

MPL has organized programs to empowers women, fostering sustainable livelihoods and cultivates environmental awareness within the community.

In coastal communities, women play a vital role in the fishing industry. They have been given awareness on hygiene and education for fishing business. Further, menstrual health awareness among community women have been given and more than 100 women were actively participated. Financial empowering over 300 marginalized fisherfolk community women. More than 450 sanitary pads distributed to improve woman health hygiene. Sustainable infrastructure like Check dam restoration, percolation well construction, River / stream cleaning, culvert construction and Roof top rainwater harvesting systems were provided. More than 160 farmers have benefited from renovation of check dam as they will store more than 1,75,000 cubic meter water.

More than 122 Nos. percolation well have been constructed. In addition to this, river/stream cleaning and pond deepening work have also been carried out.

Construction of culverts supported irrigation of 38 hectors of land and facilitating livelihood of more than 105 farmers.

Further, more than 165 Nos. Rainwater Harvesting (RWH) systems were constructed in the nearby community area. This initiative not only helped to increase clean & safe drinking water capacity to the tune of 16,50,000 liters but also achieved water positive status in more than 3 villages.

Community tree plantations were carried out in an area covering 7 acres of land. About 17610 Nos. trees were planted. In addition to this, more than 200 farmers were financially assisted in cultivating fruits bearing trees.

An Eco club has been established for the community, under this initiative, 70 schools and more than 11000 students were getting awareness about environmental and sustainability. A mangrove conservation awareness session was organized for the young generation, about 100 students were participated.

A massive awareness drive on Alternative of Single Use Plastic (SUP) was organized. More than 680 students participated.

Community Rural Infrastructure Development.

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

Road repairing work at nearby villages and fisherfolk community area were attended. Pavers blocks were installed at the common gathering area. Clear water facilities are provided for house animal with the capacity of 20000 liters. Rooftop rainwater harvesting system provided at nearby villages. SWRO units were provided for clean water for villagers and students with capacity of 3000 ltr/hr and 50 ltr/hr respectively. School furniture and other infrastructure constructed at nearby villages.

An overview of CER Expenditure by MPL for reporting period i.e April, 2024 to September, 2024:-

Sr. No.	Sector	CER Expenditure April – Sept, 2024 (INR)
1	Educational Initiatives.	841838
2	Community Health Initiatives.	7319340
3	Sustainable Livelihood and women Empowerment.	433900
4	Community Rural Infrastructure Development.	7227613
5	Monitoring & Reporting	1164682
	Total	16987373
	in Annon	imate INID 170 Lakha

i.e. Approximate INR 170 Lakhs

Total CER expenditure incurred in various community welfare & eco – development activities was approximate INR 1000 Lakhs cumulative till September, 2024 including expenditure occurred INR 170 Lakhs for the reporting period i.e April, 2024 to September, 2024.

2. ABOUT MUNDRA PETROCHEM LTD

Mundra Petrochem Limited (MPL), a stepdown subsidiary of the Adani Enterprises Limited, is a young company with a big vision. MPL is poised to become a key player in India's petrochemical sector. Its focus lies on the development of a greenfield PVC complex located strategically within the Adani Ports and Special Economic Zone (APSEZ) at Mundra, Gujarat.

MPL's mission extends beyond mere production. MPL is committed to pioneering sustainable practices in the industry sector in line with Adani Group level commitment to shape the country development. Its state-of-theart facility is under engineering design with cutting-edge technologies to minimize environmental impact. This commitment is further reflected in their focus on community development through various Corporate Environmental Responsibility (CER) initiatives.

With operations expected to commence in 2026, MPL is poised to create significant economic opportunities within the region. By fostering sustainable practices and empowering local communities, MPL aims to become a model for responsible industrial development in India.

MPL's Corporate Environmental Responsibility (CER) program transcends mere carbon reduction efforts. It embodies a holistic approach grounded in robust scientific methodologies. This multifaceted initiative extends beyond environmental concerns, encompassing actions that enhance ecological resilience and empower local communities. The subsequent sections of this report will delve into the impactful outcomes achieved through MPL's comprehensive 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 includes the interventions by MPL as a part of CER initiative. This report briefly brings the project details - input, output, outcome, and impact (where applicable). The programs or activities undertaken by MPL were in adherence with the provisions of action plan as approved by the MoEF&CC to address the issues raised during the public hearing process of the project activity.

4. CER INITIATIVES & INTERLINKAGE WITH SDGs.

Mundra Petrochem Limited have benchmark business around regulatory requirements beyond the warranted with the objective of making the world a better place. The result is that we have invested in generating the largest positive outcome in the shortest time with the longest impact. The Mundra Petrochem Limited have been woven around sustainable Development Goals – Social, economic and environment – with a supporting governance framework.

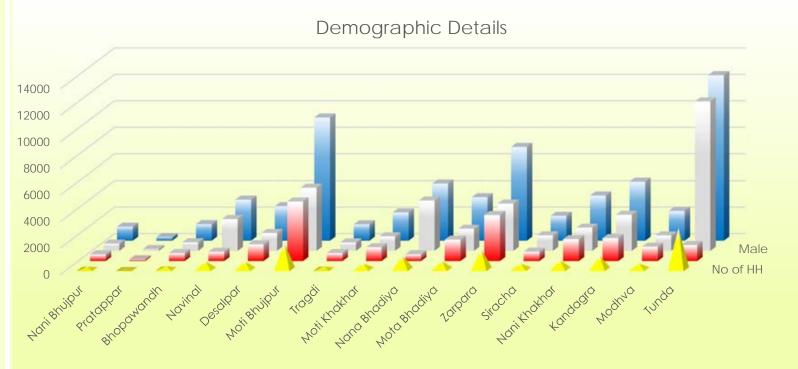
2 7FR0 HUNGER	 End hunger and ensure access to safe, nutritious and sufficiant food. End all form of malnutrition. Ensure sustainable food production system and implement resilient agricultural practice. Investment in rural infrastructure.
3 ROOM HIFALTHI AND WELL-BEING	 Promoting natural farming for a healthy lifestyle and conducting health camps to address the health issues.
4 QUAILITY EDUCATION	 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.
GENDER	
	 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.
6 GLEAN WATER AND SANITATION	 Restoring water bodies and encouraging water harvesting through participatory actions
Ø	 Protect and restore waterrelated ecosystems Support and strengthen the participation of local communities in improving water and sanitation management.
7 AFFORDABLE AND OLEAN ENERGY	 Promoting use of biogas for clean and affordable energy solution



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, including the Adani Port & SEZ, requires sustainable development practices.

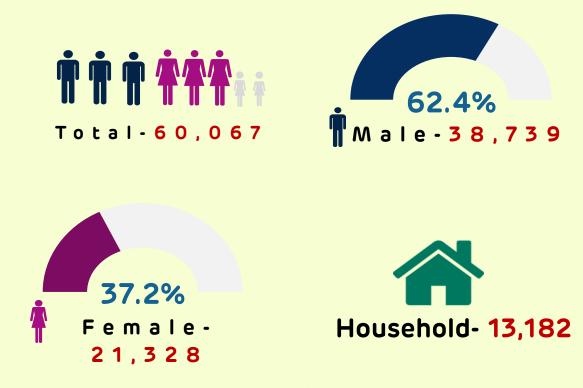




■ No of HH ■ Female ■ Male ■ Population

Sr. No.	Village Name	Population	Male	Female	No of HH	 Sr. No.	Village Name	Population	Male	Female	No of HH
1	Nani Bhujpur	1056	551	505	210	9	Nana Bhadiya	4318	3805	513	1011
2	Pratappar	268	136	132	48	10	Mota Bhadiya	3284	1669	1615	624
3	Bhopawandh	1250	650	600	250	11	Zarpara	7052	3572	3480	1506
4	Navinal	3100	2406	694	602	12	Siracha	1879	1171	708	429
5	Desalpar	2611	1350	1261	581	13	Nani Khakhar	3412	1758	1654	691
6	Moti Bhujpur	9278	4777	4501	1979	14	Kandagra	4461	2729	1732	1015
7	Tragdi	1238	636	602	216	15	Modhva	2250	1167	1083	450
8	Moti Khakhar	2139	1101	1038	436	16	Tunda	12471	11261	1210	3134

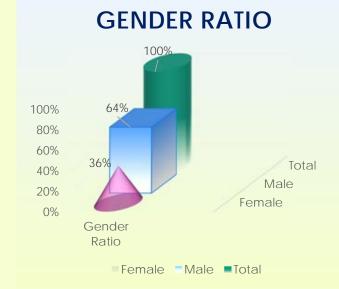
¹ The data is source from the Census, 2011



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

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

5.1 GENDER RATIO



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

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

6. EDUCATION PROMOTIONAL INITIATIVE.

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

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 pink toilet 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 Career Counseling Seminar.

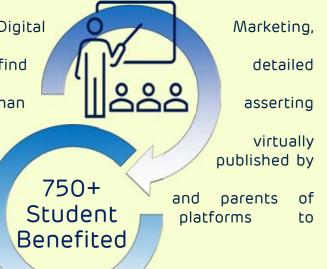


Mundra Petrochem Ltd., Adani Foundation and Kachchmitra have organized a mega career counseling seminar, at GKGH, Bhuj.

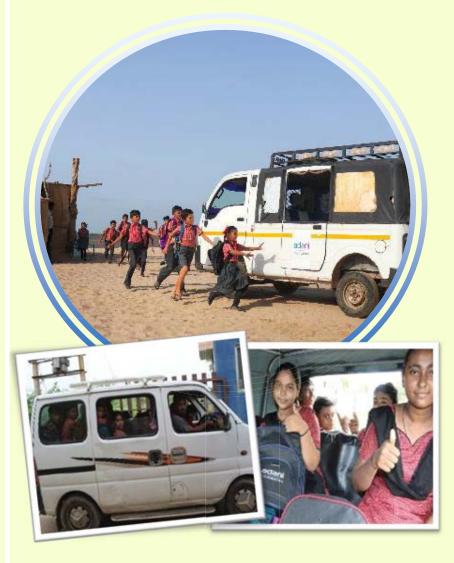
This seminar deeply focused on the different careers paths that students can chose after the 10th & 12th Standard. Students can understand his / her own ability to grow their career in skilled been developed within. So that, they can pick right path in so many career options.

This seminar has encompassed:

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



6.2.2 HIGHER EDUCATIONAL OPPORTUNITIES FOR MARGINALIZED COMMUNITIES.



Reason for providing facilities:

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

Impact of Providing facilities:

- To provide safe and reliable transportation for the children of the fisherfolk community.
- Vehicle transportation (two way) facilities are provided to more than 68 students - pick up & drop to attend the school.
- This initiative has significantly reduced transportation challenges and improved school attendance which contributes better educational outcomes. Drop out ratio have been reduced by 87%.
- Students from villages like Modhava, Tragadi Bandar & Zarpara Bandar are facilited.

6.2.3 EDUCATIONAL KIT & FURNITURE SUPPORT

મુંદરા પેડ્રોકેમ લી.

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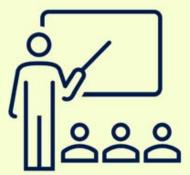
More than 70 students were benefited with educational kits like, School bags, books, stationary items, Guidebooks, notebooks, etc.

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

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



6.2.4 "UTTHAN" SAHAYAK - TEACHERS



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

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

6.2.5 EDUCATIONAL AWARENESS PROGRAM

Environmental awareness program were conducted at more than 18 schools and about 2000 students were participated.

The sessions focused on sustainable practices and the importance of environmental conservation, particularly highlighting the need to reduce plastic usage and promote eco – friendly alternatives.



To educate childrens on plastic free ecosystem, Eco-clubes were established for raise the climate change awarness. So, far 72 Utthan Sahayak have been trained who reaching over 780 studets through awarness seminar.





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.



6.2.6 SKILL DEVELOPMENT PROGRAM



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

6.2.7 SCHOOL INFRASTRUCTURE

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



Considering initiatives for clean water and sanitation for all, MPL has installed Saline Water Reverse Osmosis (SWRO) unit having capacity of 50LPH at Primary school of Tunda Village. More than 200 students are benefiting with this service.

The Pink toilet Initiative is essential to address the lack of proper sanitation and hygiene facilities in school. This will encourages girls to stay in school, promote better menstrual hygiene and aims to change regressive norms and practices related to menstruation.



500 + Girls students benefited

About 8 schools from near by villages have been benefited.

6.2.8 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

4 QUALITY EDUCATION	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.
5 GENDER EQUALITY	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.
8 DECENT WORK AND ECONOMIC GROWTH	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.
10 REDUCED INEQUALITIES	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 and 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

Menstrual Hygiene Workshops



Health Awareness Workshop

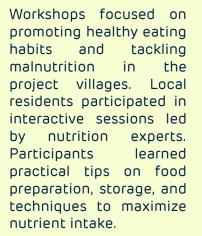


Nutrition Workshop

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.

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

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



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

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

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



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

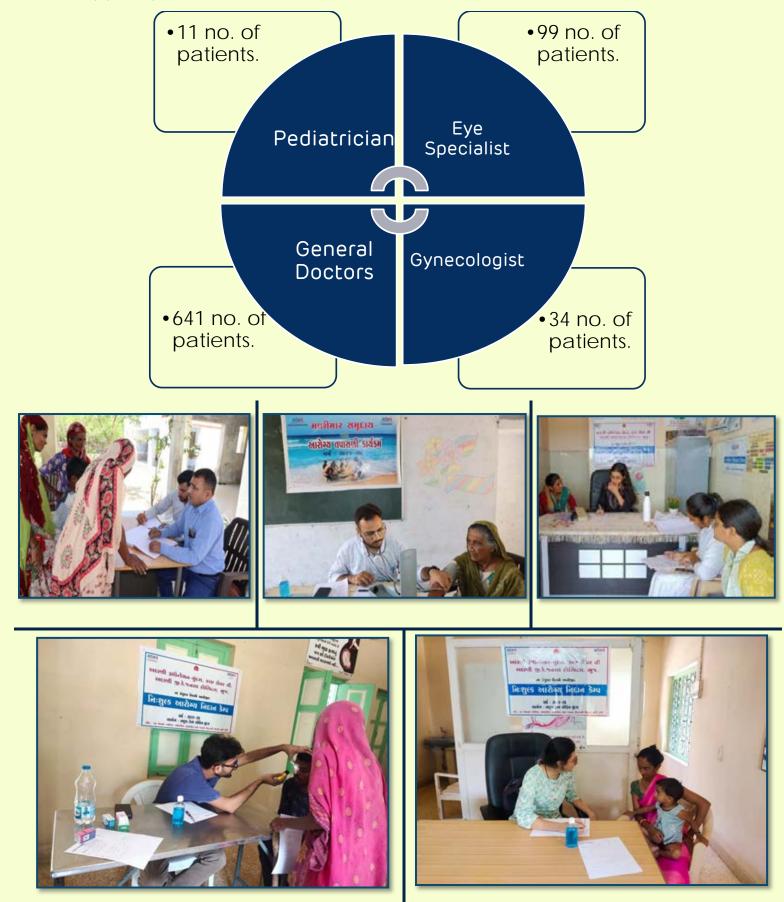


100+ Patients for Eye Checkup.

The students have been send to G.K.G.H Hospital, Bhuj from the villages for further treatment and the following actions have been taken.

Sr. No.	Student Name	Age	Observation / Treatment
1	Amina Amad Bhusan	14 years	She already has spectacles, and other necessary treatment given.
2	Afrin Salim Chaba	5 years	Diagnosed with cataracts. Advised to visit Civil Hospital in Ahmedabad.
3	Saima Abdul Chaba	12 years	Diagnosed with an eye infection. Prescribed eye drops.
4	Imtiyaz Umar Chaba	12 years	Noted an increase in eye dot . Suggested to visit Civil Hospital in Ahmedabad.
5	Amad Ashraf Chaba	11 years	Eye number assessment at GKGH.
6	Sakir Amad Chaba	10 years	Eye number assessment at GKGH.
7	Gulam Husain Lakhan	12 years	He already has spectacles, and other necessary treatment given.

Health camp participants:



Photographs of Health Camp at Nearby villages



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

Facilitated for multiple tests at one location such as:

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







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



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



Infected from Eye Flu



Suffering from Skin disease



Distress with Gynec. diseases

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

Outcome of these awareness program:

Survey done in the event:



Outcome of the event

- Successfully educated all attendees on the importance of menstrual hygiene.
- Provided sanitary napkins.

- Assured them of reduced costs for future purchases.
- Encouraged them to prioritize health and hygiene over consuming additive items, fostering a positive shift in their habits.







7.2.3 HOSPITAL INFRASTRUCTURE

Kutch region has more than 22 lakhs of population. To facilitate them, Burn & Intensive Care Unit at GK & GAIMS General Hospital in Bhuj is establishing with an advanced facility, equipped with modern technology and specialized burn care. It will provide financial relief to patients and provide comprehensive care that addresses the physical, emotional and psychological needs of burn patients.

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



Impact of the Burn Care & Intensive Care Unit:



7.2.4 COMMUNITY HEALTH – CLEAN WATER FACILITIES

Kutch Region is 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 the saline water reverse osmoses units at village Tunda is serving clean water for the villagers as more than 10000 peoples are benefiting from the services. This purified water will enhance the quality of life and promoting health in rural areas. This service

is ensuring that students and peoples have continues access to clean drinking water.



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

7.3 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

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

8. SUSTAINABILITY LIVELIHOOD AND WOMEN EMPOWERMENT

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

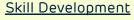
KEY INTERVENTIONS 8.1





Women Empowerment

Women empowerment is Skill a multifaceted concept initiatives were caried that encompasses а range of activities at building capacity for the improving the economic, local social and cultural status members and help them of women.



out with the aim of community become more employable through enhancement.



Sustainable Infrastructure

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

of future generations to

meet their own needs.



Climate Action

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

SOCIAL & ENVIRONMENTAL IMPACT

8.2 WOMEN EMPOWERMENT

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

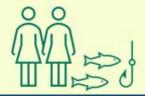
Hygiene Awareness

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

Fishing Business Education

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





25+ fisher women participated under awareness session.

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

2 Self Help Groups over 50 women In each group to foster skill development and collective growth.





Financial empowering over 300

marginalized fisherfolk community women.

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



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

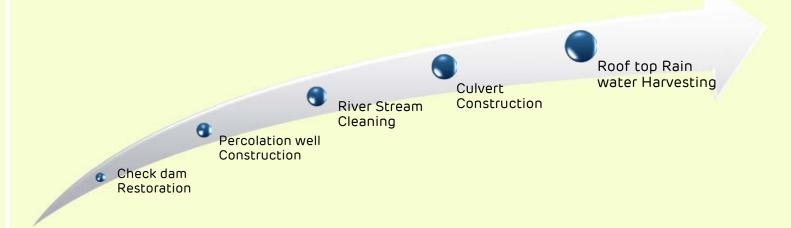


450 + Sanitary pad distributed

8.3 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.

Action plan is:





Check Dam Restorations:



160+ farmers benefited for agricultural purposes.

1,75,000+ cubic meter water stored.

Enough water resources for nearby villagers.

Percolation well construction:



122+ percolation well been constructed.

Water table level increases.



Salinity of grou Decreases







Rever / Stream Cleaning & Pond Deepening:

B

363+ Hr of work been done for cleaning of River / stream and pond deepening.

 $\rangle\rangle\rangle$

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

21+ percolation well have been cleaned.



Water Storage Capacity increased.

Culvert Constructions:



Construction of Box Culvert for water diversion and desilting of pond.



Benefited 38 hectors of land



105 + farmers benefited.



6800+ Cubic Meter water storage capacity increases.





Roof Top Rainwater Harvesting:



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

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

8.4 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.

8.4.1 TREE PLANTATION

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



17610+ trees have been planted at nearby villages to combat climate change and enhance biodiversity.

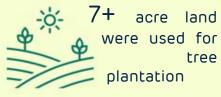
Further, 70,000+ numbers of cumulative trees have been planted for the period up to March, 2024. Therefore till date total 87610+ numbers of trees have been planted at nearby villages.



Miyawaki tree plantation & Drip irrigation methods were used.



Survival rate of trees are 95% +



 CO_2 Sequestration

2078.640+ tCO2e will Seq. through planted trees.





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



Increasing their income and promoting agriculture.

sustainable







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





Icrease the Organic fertility for the soil. Increase the CO2 Sequestration, so as, clean air.

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



11,000+ Students

Impact of the work:

- Establish Eco-Clubs in 70 schools, engaging more than 11,000 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.



8.4.3 MANGROVE CONSERVATION AND AWARNESS

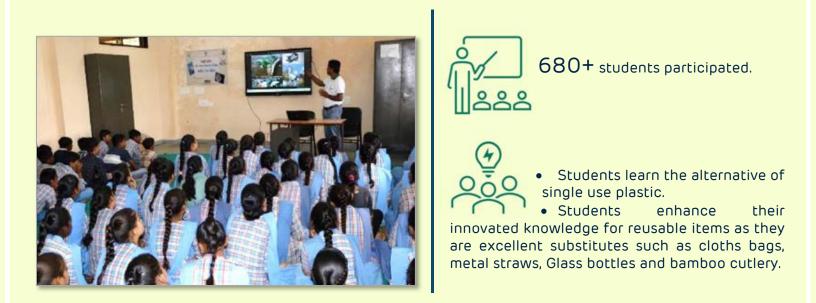
Mangrove are salt tolerant trees and shrubs that thrive in coastal intertidal zones. These remarkable ecosystems are found in Mundra and Mandavi taluka' coastal area at the vicinity of the MPL premises. Mangrove forests are vital not only to the health of coastal environments but also to the communities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



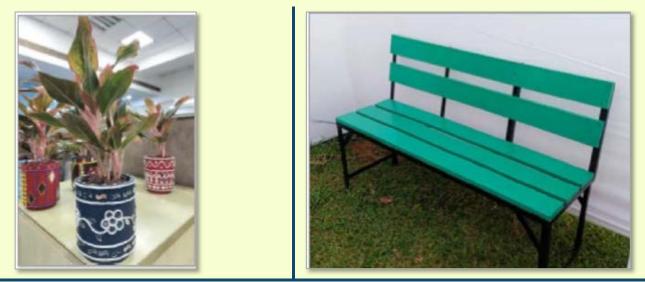
The theme – "Mangroves: Vital Guardian of Coastal Ecosystems" highlighted their role in protecting coastlines, supporting fisheries and sustaining local communities. Bio Diversity expert from the company, Professors from the collages elaborated the importance of mangroves and how they provide myriad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

8.4.4 AWARNESS ON "ALTERNATIVE OF SINGLE USE PLASTIC"

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



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



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

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

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

8.5 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

1 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	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

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

9.1 **KEY INTERVENTION**



Road Repairing / construction work Road construction work а cornerstone of is civilization. modern lt drives economic growth, connectivity, enhances promotes integration and supports collaboration and a sense environmental sustainability.



Common Gathering Infrastructure

heart of any In the thriving community, common gathering infrastructure serves as backbone the that social fosters interaction. of belonaina. These infrastructures are essential for the social fabric. ensurina 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 while urbanization promoting more а equitable and resilient future.



Educational Infrastructure Developing educational infrastructure in villages is essential for fostering individual and community development. Despite the challenges. а combination of aovernment 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 of approach road for vadi vistar area i.e vagadiya at Zarpara.
- Road cleaning work at Mota Kandagra, Bidada, Tragadi,



9.3 COMMON GATHERING INFRASTRUCTURE

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



9.4 CLEAR WATER FACILITIES FOR HOUSE ANIMAL

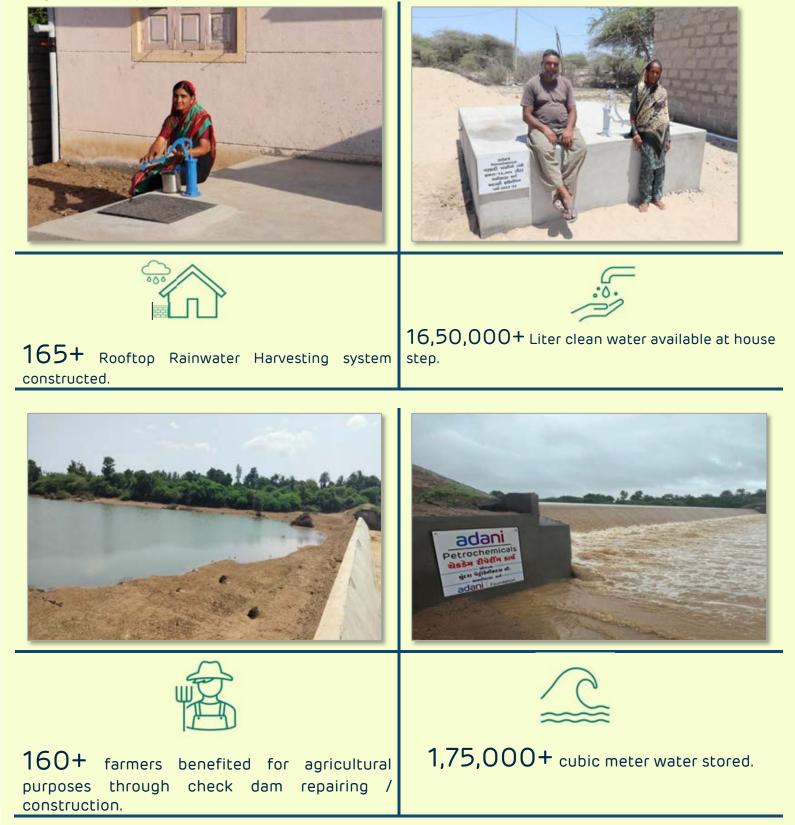




Clean Water facilities provided at Modhava villages having capacity of 10,000 Litr each (2 Tanks) so that house animal can have easy access of clean water.

9.5 SUSTAINABLE INFRASTRUCTURE

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







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



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



200+ villagers are beneficiated.

9.6 EDUCATIONAL INFRASTRUCTURE

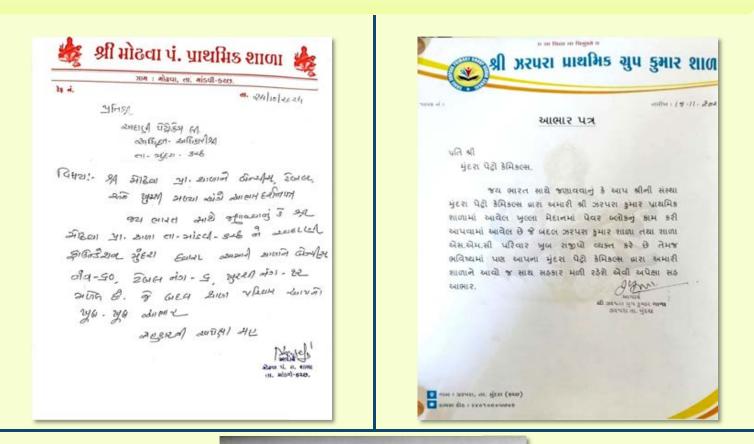
As educational infrastructure is a fundamental component of a thriving education system, MPL has constructed school amenities and facilitated with furniture at school. Further, considering a robust educational infrastructure is crucial for providing quality education, promoting equality and fostering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



9.7 LINKAGE WITH SUSTAINABLE DEVELOPMENT GOALS

2 ZERO HUNGER	Increased water availability and quality will boost agricultural production.
6 CLEAN WATER AND SANITATION	Dedicated efforts for enhancing rainwater storage will improve clean and safe drinking water option for household.
11 SUSTAINABLE CITIES AND COMMUNITIES	Improved recharge and harvesting options will make local communities reliant against water stress.
13 CLIMATE ACTION	The water conservation initiative significantly increased storage capacity, enhancing climate resilience and promoting sustainable water management.

10. STAKEHOLDERS' APPRECIATION / FEEDBACK



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11. NEWS HIGHLIGHTS

કેંકવાલોકોને અપીલ કરી હતી. વળી

ધરતીને હરિયાળી બનાવવા

વૃક્ષારોપણ માટે સહિયારા પુરુપાર્થ

મોટે આક્રાન કર્યુ હતું. કૃષિ વિશાન કેન્દ્રના વૈજ્ઞાનિક

નિલેપભાઈ પટેલે ગ્લોબલ વોર્મિંગ

માટે કારણભૂત રસાયણિક ખાતરો

અને ઝેરી દવાઓના છંટકાવ

ખેતીનેઅપનાવવા આપીલ કરી

હતી. રૂરલ એગ્રો રિસર્ચ એન્ડ

ડેવલપયેન્ટ સોસાયટીના દ્રસ્ટી

સ્ય/નીભાઈ પટવાએ પસ્તીમાતાની

પ્રાકૃતિક

અટકાવવા

આગામી સમયને અનુલક્ષીને નર્મદાના નીર પણ સાવચેતી પૂર્વક વાપરવા હાકલ અદ્યણી કાઉન્ડેશન દ્વારા છ તાલુકામાં જળસંગ્રહ અભિયાનનો આરંભ

સમગ્ર ગુપાલમાં ખેતી છે. વરસાદ સ્વતં દુધ્યત્વ નું સૌથી વ્યુ જેનામ પરાળતા કમ્બદ જિલ્લામાં વરસાદી સીઝન ને સદભ્યં રાખીને જળાવેદાત સ્વધ્યિયાન નો આદેખ કરાવી છે. આદાણી સર્ચ-પેસન સારા સોમવાર થી સ્વયુ જિલ્લાના છ તાસપ્રધાનોથી જળાવેદાત નો સારેભ સારી વરસાદી પાળીની વે હું છું. નો સંસાહ કરવા માટેના ભારત કમાસો. ALL WALLS

તાથ પરાશે. છ તાલુકાના એકલીસ ગામોના ચોલીસ સંથળોએ અભિયાન ને વેચ આપતાં વેકડેમાતભાષો નું રે નોયોસ્ટન સંવેડનથી શામચીસી ગામપંચાયન તેમજ સ્થાનિક આગેવાનોની સંક ભાગીસી થી આરંભાઈ છેત્રવામાન ખાતા પુષ્ટબ વાર્ષિક સરેરાસ ૩૦૦.૦ મિલી વરસાદ કચ્છમાં થાયણે ત્યારે કાઉન્ડેશનના સીએસખાર હેઠ પંડિંગ્લેન શાહે પાણી ને દરિયા

બેલ્ટ ઊભો ઘવો.

ટીંગ અને ગામલોકો કરિય

વાત્સલ્યમ સમાચાર

આ વર્ક્સોપનો તેનુ વિદ્યાર્થીઓને

મેનગ્રુવ્સ પ્રયોધરણીયતંત્ર અને સંરક્ષણ

વ્યુતરચનાઓ અંગે માહિતગાર કરવાનું

હતું, વર્કશોય ને સ્વાગત સંબોધન સાથે અદાધિ કાર્ડન્ટેસન ના ગુજરાત

સી.એસ.આર. ના દેડ પંક્તિબેન શાહ

એ સૌને આ વર્કશોપ ની મહત્વતા

અને તેના કેતુ થી માહિતગાર કર્યા

અડાસી લાઇસ ખાતે કચ્છ

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હતા.જેમાં જળસંચય

માટેચેકડેમ, તળાવો, વોટર

હાર્વેસ્ટીંગ માટે અનોખુ કામ કરતા

દેવાંધભાઈ ગઢવીએલોકભાગીદારી

અને ઈમાનદારીથી કામ કરીભાષિ

પેઠી માટે સુખાકારીની વધારવાની

ઔપષિયવનસ્પતિનાં વાવેતર અંગે

ખેડૂત આગેવાન મહોબતસિંહેલોકોને

માર્ગદર્શન આપ્યું હતું.ગૂગળના વૃ,પ૦,૦૦૦ થી વધુ વૃક્ષોના

અદાણી ફાઉન્ડેશનની કચ્છના ૨૧ ગામોમાં વરસાદી પાણીના સંગ્રહ માટેની કામગીરી પ્રજોશમાં

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

મળેલ

નેમ વ્યક્ત કરી હતી. વૃક્ષારોપલ તથા વિલુમ થતી

ઉછે સ્થી

સકળતા પણ જણાવાઈ હતી.

ગાય આધારિત ખેતી પૃથ્વીના

સંરક્ષલમાં ખૂબ અગત્વનો ભાગ ભજવે છે. પ્રવીસભાઈ જસાસીએ

ગાય આધારિત ખેતી કારા પૃથ્વીનું જતન કરવાના ઉપાયોને રસપ્રદ રીતે

રજ કર્યા હતા. જયારે ઊર્ચિલભાઇ

ગાલાએ ટપડ સિંચાઇનું મહત્વ સમજ્રવના કચ્છમાં સુગંધિત પાકોની

વિષય શક્યતા અંગે માર્ગદર્શન

આપ્યું હતું. એટલું જ નહીં, તેમણે પોપણવર્ષ ભાવે તેને ખરીદી લેવા

અદાણી કાઉન્ડેશનના ગુજરાત

સી.એસ.આર.હેડ પંક્તિબેન શાહે

કહ્યું કે પૃથ્વી એક જ ગ્રહ જીવસૃષ્ટિ માર્ટ છે. તેને બચાવી જતન કરવું

એ આપલાં સૌની કરવ/છે. અદાલીં

કાઉન્ડેશન દ્વારા વનીકરલ અને

વ્યક્તિયત રીતે ખેડૂતોને જે

કળઝાડના રોપા ઉછેર માટે મદદ

વિશ્વ પૃથ્વી દિવસને

કરવામાં આવે છે.

ખાનરીપણઆપી હતી.

જળસંચય, વૃક્ષારોપણ અને ગાય આધારિત ખેતી પૃથ્વીનું જતન કરશે પ્રસંગે પ્લાસ્ટિક મુક્ત ભુજપુર બનાવવાનાપંથાયતનાપ્રયાસોની

(પ્રતિનિષિ કાસ) issu, at as Drid Earth D

અદાણી કાઉન્ડેશનના સલ્યોગથી અદાસી પેટ્રોકેમ અને કૃષિ વિશાન કેન્દ્ર દ્વારાયુંદ્રા ખાતે વિશ્વ પૃથ્વી દિવસની ઉજવણી કરવામાં આવી. આ વર્ષે પોનેટ લોઈએ કે પ્લાસ્ટિક થીમ અંતર્ગત ખેડતો સાથે ખાસ પરિસંવાદ યોજવામાં આવ્યો હતો.આ પ્રસંગે વિવિધ ક્ષેત્રોના મહાનુભાવો સાથે બહોળી સંખ્યામાં ખેડૂત આગેવાનો પણ ઉપસ્થિત રહ્યા હેતા. પૃથ્વીને સ્વસ્છ, સ્વસ્થ અને સુંદર હરિયાળીબનાવવા લોકભાગીદારીથી કામ કરવા સૌએ સંકલ્પલીધો હતો. મુંદ્રા પેટ્રોકેમિકલ્સના સાઇટ હેડ

કે.એસ. લક્ષ્મીનાસયલે છવ સૃષ્ટિની સુરક્ષા માટે પ્લાસ્ટિકનો નહિવત ઉપયોગ અને તેના રિસાયકલ પર ભાર મુક્તા જણાવ્યું કે પૃથ્વીની તંદરસ્તી બાળવવી એ આપણા સૌની કરજ છે અને ખેતીલાયક જમીનને વધુ કળદુપ બનાવવા આપલે પ્રાકૃતિક ખેતીનેવધુને વધુ અપનાવવી

અબતક, રાજકોટ આરંભ કરવામાં આવ્યો છે. કરછમાં વરસાદી આગામી ચોમાસા પહેલા ાસીના સંગઠ મટે પે કોઈ કરછના મુંદરા, માંડવી,

પાછના કરશે તે કોઈ દિવસ અબદાસા, લખપત, એળે કે ઓમે નહીં જવા, નાવવાણા અને ભૂપ એમ કુલ કથક પ્રદેશ પળ સબસ્યા છે તાલુકાનાં વગ ગાયેથાં વપ્ સાથે સતત સંઘર્ષ કરતી પેટલા પળ સંગઠના કામોનો

ગટલા ગળ સગદના કાયના દુભારંભ સોયવારના શુભ દિને કરવામાં આપ્યો, પૈયાં ચેકકેમ, તળાવ ત્રિનોવસ, અનુસ્વાર તળાવ વગેરેનો સ્વાવેશ શાહ છે. આગામી ચોયાસા પટેલા પૂર્ણ વાય તે તરવાંકથી કાર્યારી કરવામાં આપ્યો સ્ટાયમાં વગાવા

भग इ जाग ये अभ्या इच्छ प्रदेश पण अभ्या आर्थ स्वत संघर्भ इरतो रक्षो छे. प्रयादे हुहरत

અનરાધાર વરસે ત્યારે ધરતી પર તૈયાર જેટલા પણ

છે રે દિલ ઇ થવિ શવ

नर्भदानां नीरने पछ श्रे समग्रहाची नहीं पापरीએ

તો સગરથા ઊભી કરશે. કપ્ પ્રથાં આ નર્મદાનાં નીર નથી

पहीश्वां त्यां परसाही

रस्तो ४ नधी, अदाष्ट्री

દીવસીય દાઓમાં હસ વિભાગનાં કર ઉત્સન્તી દિવસની કરી, ઉત્સં તેનાકુન ની જાળવાથી અને લેકથા અંદે જણીને હેલા જવાનાં, ઘનાઓ, હાથ, ગાન્જનો

કના લાગ્યો પાંચ પ્રગાસ અને - ડોકેસ્ટા અંગે પાહિન શર 4 આપ્યા આ પ્લેક્સનો સિંહ ક પૈય વૈક્રિયા, પાકીપાર્ટની

. દેશનાં સ્વય જુવાઈને. વેશ્વન ગીદેવ ભારતથાં ના



02-05-2024

કામો પુરજ્ઞેશમાં ચાલુ જળમંદિરો અનાવાના દરિયાકોલ ના ગામો 114 410 વાળી દવેલી કામગીરીને કારણે 21 ગામોમાં 24 કાળો ઘડી 1,80,000 144.00

> પ્રેનિકે પ્રસિક શેમના વિષણ્યી દિવા વિષયથે

> > and which do

લ્યા થયેલું અટકાલી તેન કરવા અનુદીપ કર્યો હતો કે ઘર અદ્યાર્થ annu mitel -ते-चे ખગાડ પર આંગણે વરસારી પાછીના સંગત માટે દસ હજાર વીટર ની લખવા પરંપભગ 17 થી વધુ ભૂગળે ટોઠાઓનું નિય્લીપ મોઠવા મૂઠાયે સૌથી વધારે પોઠવો વડે સાં તે છે. જ્યાં નિય્લેગ થઈ સાં છે.જ્યાં સાંગત ના વિસ્તારીમાં જગલેસતત GROUP OF

પ્લાસ્ટિક છોડો ; પ્રાકૃતિક ખેતી અપનાવો

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અદ્યક્ષિ ફાઇન્ડેસન, મુદ્રા પેટ્રોકેમિકથ થી. અને કચ્છ કોપર થી. ના સંયુક્ત ઉપત્રમે બની રહેશ બાયોડાયવર્સિટી નોલેસ એન્ડ ઇન્ટરપ્રિટેશન સેન્ટર નો પરિચય વિડિયો બતાવી આધ્યો. આ સેન્ટર ની મહત્વતા અને તેના પ્રદાન ના વિવિધ પાતાઓ પર ચર્ચા off, an edialer al fear fam.



એવા કો,પીરવ મહેતા (પ્રિન્સિપાલ, ગવર્મેન્ટ સાયન્સ કોલેજીમાંડવી) અને કો. માનસી ગોસ્વામી મુખ્ય વકતા રબ્રા, ડો, પૌરવ મહેતા એ મેનસુવ્ય ના અનુકૂલનો તેની વિશેષતાઓ અને તેના સંવર્ષન અંગેની વિસ્તૃત માહિતી આપીને મેનસૂવ્સ ના મહત્વપૂર્ણ .D.

જેમ કેલું છે પશ્ચિત કરત કરતે તેવે છે. આવગામાં આ સાથે અદાવિધ દાવે તેમના, દુર દેશીં પ્રેમાંગ્સ કરી અને કેલ્ટ કોંગ્સ છે. તેમ કે પ્રકાર ઉપકારે અને કોંગ્સ સાથે આવ્યું કરે છે. અને કોંગ્સ સાથે આવ્યું કરે છે.

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અદાણી ફાઉન્ડેશન અને મુંદ્રા પેટ્રોકેમિકલ લી - મુન્દ્રા

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દારા વિશ્વ મેનગ્રૂવ્સ દિવસની ઊજેવણી કરવામાં આવી રમેશ મહેવારી - મુન્દ્રા કચ્છ યુનિવર્સિટી ના અલગ અલગ ડિપાર્ટથેટ

નિર્માણ મુરાભ દહાભાષુ નિર્માણ થઈ રહ્યું છે. ગરપર, ભુષપુર મોટી-નાની, ઘબ, બોરાણા વાડી વિસ્તારમાં

ગુપરાત સી.એસ.આર. ઠેડ પંક્તિએન શહે પછાવ્યું કે પે

મધ્લો છે. આદાણી કાઇન્ડેશનના

ભાષાંભાષાદેશપથ વિશ્વસંચિત્રે અને સંચ માન્યો. વધ્વોલમાં લિખા દીખો માટે કિંગ

અને માંછવી ની સરકારી વિજ્ઞાન કોલેજ ના વિષ્યાર્થિઓ સાથે એક દિવસીય વર્ક્સોપનું આયોલન કરવામાં આવ્યું.

4.0-981 grant magnetization of the second ના અગળ, પાકીચાર અને વિશ્વાસીએ માં પ્રગ્નેશ છ ગળાએ તાલગતી નથી આવ કરી દહી છે.



સમગ્ર ગુજરાતમાં ખોછો વરસાદ

IÉ CZI

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

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

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

લીલોછમ બનાવવા અદાણી કાઉન્ડેશને બીડું ઝડપ્યું છે. 'અદાશી વન'ના ખાતમુહર્ત સાથેતેમાં ડ્રીપ ઇરીગેશનની વ્યવસ્થા પણ કરવામાં આવી છે. ત્રણ વર્ષમાં શુષ્ક વિસ્તારમાં વુશ્તોની માવજત કરીહરિયાળી પાથરવા એડીચોટીનું જોર લગાવવામાં આવશે. આ ભગીરથ કાર્યમાંસહભાગી બની તેને સફળ બનાવવા સરપંચ સહિત સર્વગામ લોકોએ ભારે



અદાસી માર્કેન્દેશન અને મુદર

કરવામાં આવ્યા હતા. મુંદરા ની આસપાસના વિસ્તારમાં હરિયાળી ફેલાવી

> મેટલા અને સંસ્થાપની પ્રત્યાં છે. મંદેદથી કોળ-દ ઉપદાસે છયા છેનું છે. ઉપક્ષિત થોના છે બહારાને લોઈ બહાલી કોઈન્ટે

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િયાદ્વ રવાજ્યમાં માલ્યુ હતુ આ ઉજ્રાવિ આ મેલ્લિટામુટિ દરિહાર વીકરમાં પાર, પ્રદેશુલ

स्तितः सीवन्त्रते प्रतः, वर्ते पुणा स्तन्ते भारती संदेशसम् आण् । परिपर्धनं संदर्भतित स्वतः प्रितित्रां स्वयंत्रणं नयः नीवन् व्यवस्ति अध्ययना नयः नीवन् व्यवस्ति प्रतित्रात्रसे आज्या

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milian Su પારે, ભાગદીત્વા સરસંગ રાષ્ટ્રવ્યા [જાર્ભનાગર ફાયરાજ્યમાં ચલુઓ ત કર વચારાજ્ય પારે પ્રશ્નોની

મુંદરા,તા.૧૯

અદાણી ફાઉન્ડેશનપર્યાવરણ જતનના સહિતના સમાજો પયોગી કાર્યોમાં સતત અગ્રેસર છે. મુંદરા નજીકના પીપરી અને નાની ખાખર ગામે 'અદાણી વન'નું ખાતમુહર્ત કરવામાં આવ્યું હતું. જેમાં વૃક્ષારો પણ થકી પર્યાવરણ સંરક્ષણ ક્ષેત્રે અભૂતપૂર્વ યોગદાન આપતા ૧૨૦૦૦ વુક્ષોનું વાવેતર કરી 'અદાણીવન' ઉભુ કરવામાં આવશે. ધારાસભ્ય

અદાણી ફાઉન્ડેશનના પ્રયાસોથી જળાશયો છલોછલ, જનતા ખુશખુશાલ

અદાણી પરિવાર સાથે ભળી ગામલોકોએ જળાશયોમાં નવા નીરને વધાવ્યા



મારું પહેલું અને અંતિમ દા

ચંડાવ્યા ન્યુપ્ય પ્રાથમિત આપવી અન્દોર્થમ કુષ્ટ ગાય કાર્ય કરવા છે. આ માને મન્યુ અન્દો અન્દો નવા છે. ખોતે. કહે અંગણ જાવનનું કરવા અને અંતિમદાન થઈ ઉત્પન કરવ Conjunite Sector

રમાં મુખ્ય સુપદ પ્રદિશ્વ દેશિયલની હત્વર શામકો એમ and you require the first of the second seco ·Danie wares ertie, there are bed, an

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भारती कार्ट्स्टेशन काठ भारत विद्योग असे पुत्र केंद्रेन पुत्र सालन देव समी, यह कार्यनी हींद्र सालन्त्र મે, છે પરવાં પછી શેસા થયે ત્યું છે પરવાં પછી શેસા થયે ત્યું ગુરુષ્ટ રહેવાં હોય ત્યું ગુરુષ્ટ રહેવાં વિચ્છે भोगितनुषिध वातिताः क्षेत्रभेतः भवतित्र स्वयन्तुं त्यू रे 'स्पर्शतः सर्वे स्वी कार्यवन्त्र त्यार्थं क्षेत्र 1. and a control that in the even works there may not the even expects, track gat not shorten there are any shorten there, you not include "there there, you not include "there there, you're any on the event of the events." ીસદર પ્રશી. ગુગ્ર મંત્ર ની સ્કુત્વ સંવગીથી કરવામાં

આવા છે. અન્ય આ દાયુ થયો આ વર્ષે પણ ગામાં તથાયે ઉંડ ઉત્પર્ધ . થળ માન્દ્ર એવન ઉપીર્ધ થયા છે.

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છે. પ્રોચ પોતે પ્રથમે આપ અપને પંડાય ત્યાં તેનું પરિવાય પૂપ માળ માત્ર છે. આગાળી વિવાય તે મા વિવાર માટે સરી નિયાળે છે. દેશ ગામેલા અગ્રાધિયોના ખૂપ પૂચ

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



▲નનક રાજકોટ મનાક રાજકોટ અસદાવી કાઉન્ટેશન પર્યાવરણ તનના રાહિતના રાયાજોપધોની દીધા રાતત અગેસર છે. મુંદરા દાકના પીપરી અને નાની ખાખાદ મે 'અદાવરી વન' નું ખાતમુહતે વર્ન, જેમાં મજી કળા પાપરા અને મામા બા બર આવે 'અરાશી ચન' નું બા બા બુદ્ધ કરવામાં આ બું તતું. જેમાં સેરે અનાતપૂર્ચ પોગરાન આ પતા સેરે અનાતપૂર્ચ પોગરાન આ પતા 'અદાશી ચન' ઉભુ કરવામાં આ વાદે. પારાસભાપ અનિગૃદ્ધનાઈ વૃક્ષમાં અદ્ય હતે. પાગરોનુહતે બાટ વૃક્ષમાં વરે ૨.૨૦.૦૦૦ ના ચેક આ પતિ સરવામાં આ બધા હતા. નું ખાતમુહત જેમાં ણ કરવામાં આવ્યા હતા. મુંદરા ની આ સાધાસાના

વિસ્તારમાં દરિવાળી ફેલાવી લીલોછમ બનાવવા અવારણ કાઉ-ટેલમં બીટું ઝડ-પું છે. 'આદાણી વર્ત' ના ખાતમુહતે સાચે તેમાં ટ્રીપ દેગિશેકનની વ્યવસા પણ કરવામાં આવી છે. વણ પણ કરવામાં આવી છે. વણ પણ કેરવામાં આવી છે. વણ વર્ષમાં ગ્રુઝ, વિસ્તારમાં વૃક્ષોની માલ્લજન કરી હરિવાળી પાવરવા એડીધોરીનું જોર લગાવવામાં આવશે. આ ભગીરથ કાર્યમાં આવશે. આ ભગીરથ કાર્યમાં સહભાગી બની તેને સફળ બોકોએ ભારે ઉત્સાહ દાખબો હતો. કાર્યક્રમના મુખ્ય અતિથી અને ધારાસભય અનિઅદળાઈ કવેએ અદાણી ફાઉન્ટેશનની સફળ

કામગીરીને બિરદાવી સૌને લુત્યે લ્કામાં પાઠવી તેતી. ઉદ્યોખનીય છે કે, મુંદા પેટોંગ બીમીટેટના ગ્રહ્યમાં ગ્રેથી નાની ખાખર ખાતે ૧૦,૦૦૦ વુશો પંચામાં ભાખા ત્વતા. આ પ્રવૃતિ અંક વૃક્ષ માં કે નામ અંતગેત અંક વૃક્ષ માં કે નામ અંતગેત આ જે તરમાં આદ્યું તે કામગીરી ભારત ગુજરાત સરસદ હારા વનપંડિત પૂરસ કાર્ય સંસ્થાને ૨, ૫૦,૦૦૦ રૂપિયા સંસ્થાને ૨, ૫૦,૦૦૦ રૂપિયા સંસ્થાને ૨, ૫૦,૦૦૦ રૂપિયા

કાઉન્ટેશને વૃક્ષોના ઉછેર અને જતનમાં મહત્વપૂર્ણ ભૂમિકા ભાજવનાર પાંચ વૃક્ષમિત્રોને પુસ્તારણપે તે રકમ એનાપત કરી હતી.

તેની. સુમાનિ પ્રમાણ પ્રમાવપારના દિશના અંત અંત્રથી, સૌરબાઈ એન લખમયુ ગઢથી, દેસલપરના દિશુભા જોજી, નાન સુપાયાના દાશુભા જોજી, તેનજ પોટી આપરના હટેલ્લભાઈ ગઢથીનો સામાવે શ્રુપાય છે. તમા યુદ્ધ મિત્રોને ધારા સભ્ય અનિઝલ્લાપ્ટના હતે પુરક્ષાર કેયે ચેક આપવામાં આવ્યા હતા.

મુંદરામાં ચેર વાવેતર જાગૃતિ માટે કાર્યક્રમો યેટ કેમિકલ લિ. દારા વિન્ય નકુલ દિવસની ઉપવર્તી માને તેના સ્ટીત માને તેના સ્ટીત સ્વાય પાસિત સ્ટીન સ્વાયત સ્ટાન્સ્ટ્રો સ્ટી મેન્સ્ટ્રો સ્ટા સંસ્ટ konstant bergerit, del. Nariane en des erite suffix antioned a sector and a construct group formation and an order all states and defined along a real annulosish all states and des-ander accellant and the sector and all states and along access and the sector all states and all states are also as a sector all states and all sectors and the sector all states and all sectors and the sector all sectors and all sectors and the sector all sectors and all sectors are also as a sector all sectors and all sectors are also as a sector and the sector all sectors are also all sectors and the sector all sectors are also all sectors are all sector પેતું પાછે કરવા છે. આ ગામ છે આ ગામ છે. આ આ ગામ છે. આ ગા

અનિરૂદ્ધભાઈ દવેનાવરદહસ્તે

ખાતમુહૂર્ત બાદવૃક્ષમિત્રો ને

?.૧૦,૦૦૦ના ચેક અર્પણ

માં મુખ્યત્વે છે. આ પ્રેસ્ટ્ર્સ્ટ્ર્સ્ટ્ર્સ્ટ્ર્સ્ટ્ર્સ્ટ્ર્સ્ટ્ર્સ્ટ્રસ્ટ્ર્સ્ટ્ર્સ્ટ્રસ્ટ્ર્સ્ટ્રસ્ટ્ર્સ્ટ્ સ્ટ્રસ્ટ્સ્સ્ટ્રિસ્ટ્રિસ્ટ્રિસ્ટ્રિટ્સ્ટ્રિસ્ટ્રિટ્સ્ટ્રિટ્સ્ટ્રિટ્સ્ટ્રિટ્સ્ટ્ સ્ટ્રસ્ટ્સ્સ્ટ્રિટ્સ્ટ્રિટ્સ્ટ્સ્ટ્સ્ટ્રિટ્સ્ટ્સ્ટ્સ્ટ્ પણ વારસ વિવાર્થમાં આવું છે. વાર્થમાં ગાળવી આ આવ્યાં વાર્થમાં તે, જે દરિવાર આંગણી પ્રાંત કરતાં આવ્યાં આંગણી વાર આવ્યાં વાર્થમાં આવ્યાં પ્રાંત બધુ આવ્યાં વાર્થમાં આવ્યાં પ્રાંત બધુ આવ્યાં છે. આવ્યાં વાર્થમાં આવ્યાં વાર્થમાં આવ્યાં પ્રાણં બધુ આવ્યાં છે. આવ્યાં વાર્થમાં આવ્યાં જે ગુજરા પ્રાણં બધુ આવ્યાં 6117 1943) 1944

राजे. अवस्थी कार्य-देशन कुट्रावरिक्त कि. अर्थ का जिल्हा केंद्राल केंद्राले कर्म Apideus II. ed prezide, qui Apideus II. ed prezida Antigue fuel articular antigue fuel articular activitation formation allife and avai-a gluiges from

પ્રાયમસ્ય કરે અપ્યાધિક પ્રાયમિક પ્રાયમિક વિદ્વાર કરે છે. અને સ્પાધ કે અપ્રાધમ કરે કરે છે. અપ્રાધમ કરે કરે છે. અપ્રાધમ કરે છે. 1.90

અદાણી ફાઉન્ડેશનના પ્રચાસોથી જળાશચો છલોછલ, લોકોમાં ખુશી

તળાવો ઉંડા કરવાથી ૧૫૦ એક્ટ જમીનને પિચતનો લાભ તેમજ રોકડિયા પાકો લેતા ખેડૂતોની 300 એકર જમીન અને ત્રણ હજારથી વધુ પશુઓને પીવા માટે પાણી મળશે

સહિત સમગ્ર ટીમને સ્સપંચો તેમજ ગ્રામજનોની હાજરીમાં તળાવોમાં નવા નીરને વધાવવામાં આવ્યા હતા. અબડાસા તાલુકામાં આ વર્ષે

પાંચ ગામોમાં તળાવો ઊંડા ઉતારવા, પાળ સકાઈ, ઓગન રીપેરીંગ તથા આવ સુધારણાની કામગીરી વરસાદ પ્લેલા જ પૂર્ણ કરવામાં આવી છે. હોથીયાય ગામમાં અદાણી

સિમેન્ટ સાંઘીપુરમના પ્લાન્ટ ઢેડ વિવેક મિશ્રા, સિક્યુરીટી હેડ કર્ણાવત સહિત સરપંચ હાજી ઈસ્માઈસભાઈ જળારાયોમાં નવા નીરને વધાવવામાં આવ્યા હતા.

તથાવો ઉડા કરવાની કામગીરીથી ૧૫૦એકર જમીનને પિયતનો લાભ મળશે. જ્યારે રોકડિયા પાકો લેતા ખેડૂતોની ૩૦૦ એકર ચેટલી જમીન અને ત્રણ કલારથી વધુ પશુઓને પીવા માટે પાણી મળશે.

'લપા હે તો કલ હે' અંતર્ગત વરસાદી હળને દરિયામાં વહી હતું અટકાવી અદાણી કાઉન્ડેશન દ્વારા લોકભાગીદારીથી સ્તૃત્ય પ્રયાસો હાથ ધરવામાં આવી રહ્યા છે.



કરણમાં આવે વરસાદ થતાં આનંદ પણ ઉછાળા મારી રહ્યો છે. માંડવી તાલુકાના બીદડા તેમજ જળસંરસણ ક્ષેત્રે અદાશી કાઈન્ડેશનની પરિવારને નવાજવામાં આવ્યું હતું. વેમાં એપીએસઇઝેડના એઝિક્યુટીવ ડાયરેકટર રક્ષિતભાઈ શાહ, સીઈઓ સવળલ શાહ તથા અદાશી કાઉન્ડેશનના

સંરક્ષળ, જળ સંવર્ધન અને જળ કરી રહ્યું છે. ચાલુ વર્ષે મેઘરાયતની અનરાધાર મહેરથી કચ્છના જળાશયો. છલકાઈ રહ્યા છે. જળસંગ્રહ માટેના ખંદ્રાતાલકાના મોટી ખાખર ગામે ઉત્તમ અવસરને લોઈ અદાવી કાઈન્ડેશને પહેલેથી જ વ્યાપક કામગીરી ઉમદા કામગીરીને વધાવવા અદાણી આરંભી છે. મુંદ્રા, માંડવી, અબદાસા, લખપત, રાપર, અંબર અને ભૂજ તાલુકાના ૭૦થી વધુ ગામોમાં જળ સંરસવાની કામગીરી કરવામાં આવી છે. જેમાં બોરવેલ રિયાર્જ, ભુગર્ભ સીએસઆર હેડ પંક્તિબેન શાહ

ખમદાવાદ, તા. ૪ ટાંકામાં જાવસંગ્રહ ખને નવા ક્રવા સહિત અગ્રણીઓના હસ્તે અદાણી ફાઉન્ડેશન જળ બનાવવાના કામો સામેલ છે. વ્યવસ્થાપન ક્ષેત્રે પ્રસંશનીય કામગીરી ત્વળાવો અને જળાશયોની સાથે લોકોનો

49



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 Valshno Devi Circle, Shantigram, Near Valshno Devi Circle, 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

Dage1 of 2

adani

Copy to:

- The District Development Officer, Jilla Pachayat, Opposite Surmandir Multiplex, Bhuj – Kachchh, 370 001
- 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

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

adani

Ref: AEL/MPL/ENV/EC/2022 - September/04

Date: 02/09/2022

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

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.

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Thanking You. Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd,

rules

Praveen Anant (Environment - Head)

Encl: As Above

Copy to:

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

2).

Guiarat i vilvereri estrereri est

Room no.215,216 & 217, 2nd Floor, Administration Office Building, Deendayal Port Trust,

<Dial 18002666868> <Wear Masks, Stay Safe>

(Dial 18002666868) (Wear Masksyn Sfar Safe)

R62040347871N IVR:827120403478 RL. MANEKBAG SO <380015>

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

PIN:370421, Mundra SD

Wt:190gas

Amt:70.00(Cash)

TO: THE TALUKA , DEBVLOPMENT OFFI

From: ADANI ENTER, LTD ADAN HOUSE

(Track on www.indiapost.gov.in)

Sector – 08, Gandhidham – Kachchh, 370 201

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आउतीय न्यूक

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



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		EC Identification No EC22A020GJ133762, File No IA-J- 11011/149/2021-IA-II(I) dated 31/08/2022	/
2	Industry – 3		EC Identification No. - EC22A013GJ127411, File No. - IA-J- 11011/149/2021-IA-II(I) dated 31/08/2022	/

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.

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Praveen Anant (Environment - Head)

Encl: As Above

Adani Enterprises Ltd "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar Ahmedabad 382 421 Gujarat, India CIN: L51100GJ1993PLC019067 Tel. + 91 79 2656 5555 Fax + 91 79 2555 5500 info@adani.com www.adani.com

Annexure - VII

From:	Vinay Kumar Singh
To:	kut-uh-gpcb@gujarat.gov.in
Cc:	ms-gpcb@gujarat.gov.in; ro-gpcb-kute@gujarat.gov.in; iro.gandhingr-mefcc@gov.in
Subject:	Environment Statement (Form – V) for the year 2023 – 2024 for the Project "Poly-vinyl Chloride (PVC)" near Village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Mundra Petrochem Limited – Reg.
Date:	Saturday, May 18, 2024 1:15:00 PM
Attachments:	<u>0B. Form V 2023-2024.pdf</u>

Ref: MPL/ENV/GPCB – Form – V/2024 – May/02

Date: 18/05/2024

PCB ID:86184

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

- Subject: Environment Statement (Form V) for the year 2023 2024 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 June/01 Dated 29/06/2023.

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.

Presently, the PVC project is under final design & detail engineering stage, however, soil sampling & stabilization, boundary fencing, earth preparation & piling for foundation/pre-construction activities are in progress at site. The soft copy of the Environment Statement (Form – V) for the year 2023 – 2024 is enclosed for your ready reference & record please.

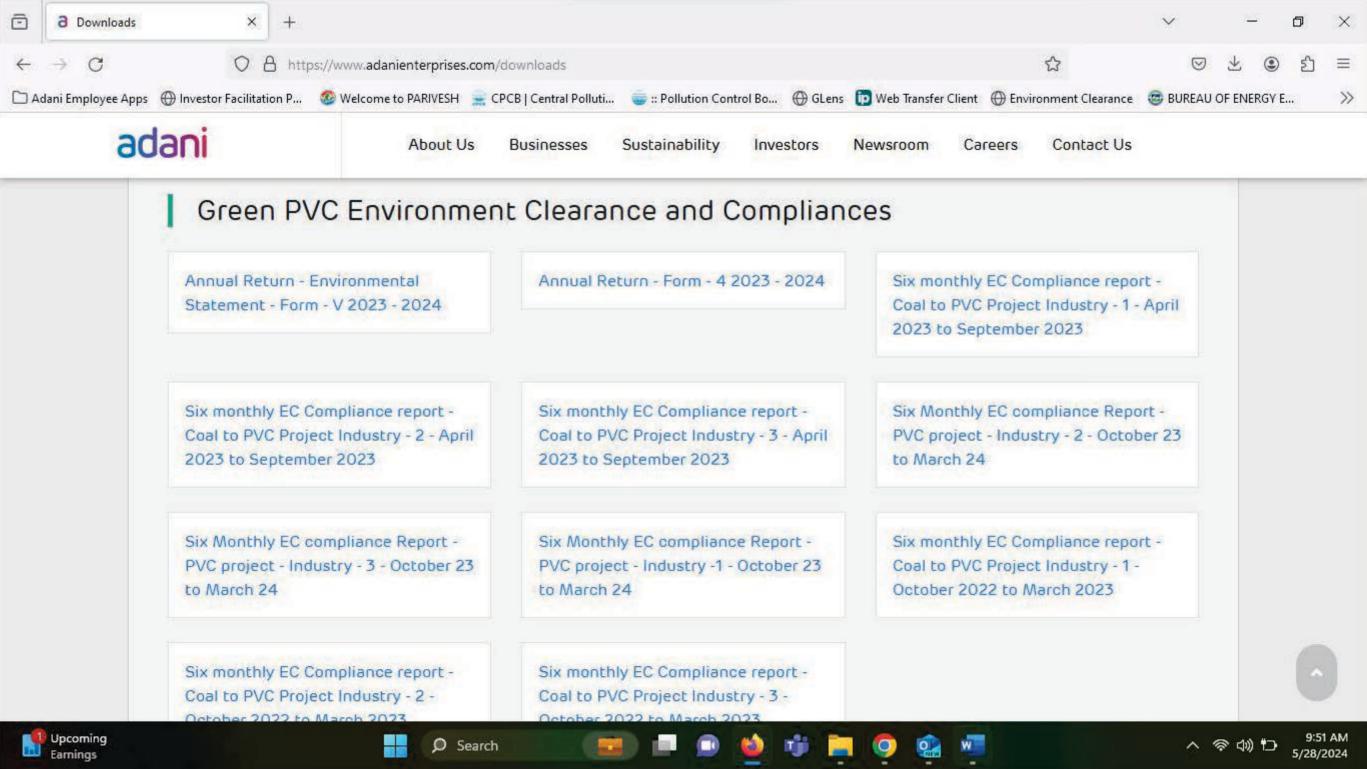
We hope you will find the above in order.

Thanking you,

Vinay Kumar Singh

Head – Environment & Sustainability

Encl: As Above



Annexure - VIII

O/C

adani

Ref: AEL/MPL/ENV/EC/2022 - September/07

To.

Shri Shrawan Kumar Verma, IFS (Addl. Charge) Deputy Director General of Forests (C) Integrated Regional Office, Gandhi Nagar,

एकीकृत क्षेत्रीय कार्यालय, गाँधीनगर Integrated Regional Office, Gand 00 Da पर्यावरण, वन एवं जलवायु प्रतितंन मंत्रालेव Ministry of Environment, Eerest & Climate Change, Ministry of Environment, Forest and Climate Change, Govt of India / भारत सरकार A-Wing-407 & 409, Aranya Bhawan, Near CH-3 Circle, কল্প ক. 407 ব 409 ए বিंग अरण्य भवन Room No.407 & 409, A wing Aranya Bhavan

Date: 06/09/2022

Sector-10A, Gandhinagar - 382010 गाँधीनगर (गुजरात) / Gandhinagar(Gujarat) Subject: Environment Clearance for Project "Caustic Soda-1310 KTPA and Acetylene-860 KTPA plants near village Vandh & Tunda, Taluka

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

Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Ltd.

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.

Page1 of

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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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,

Muller

Praveen Anant (Environment - Head)

Encl: As Above

Copy to:

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

2). The Regional Officer,

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

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



