Ref: MPL/ENV/MoEF&CC/2023 - May/01

Date: 29/05/2023

To,

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

Subject: Six monthly compliance report (October, 2022 to March, 2023) of Environment Clearance (EC) for the project activities "Semi Coke-2030 KTPA, Calcium Carbide-2900 KTPA, Cement-6 MTPA; Clinker-4 MTPA near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Mundra Petrochem Limited.

Reference: 1). EC Identification no EC22A009GJ154137, File no. IA-J-11011/423/2021-IA-II(IND-I) Dated 26/09/2022.

2). F.No.IA-J-11011/423/2021 – IA – II(Ind-I) Dated 23/12/2022.

Respected Sir,

With reference to above subject, MoEF&CC vide above refer letter dated 26/09/2022 has granted environment clearance for the project activities " Semi Coke–2030 KTPA, Calcium Carbide–2900 KTPA, Cement–6 MTPA; Clinker–4 MTPA near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Limited". Followed by, Moef&CC vide above refer letter dated 23/12/2022 has transferred the Environment Clearance on the name of M/s Mundra Petrochem Limited from M/s Adani Enterprises Limited.

Presently, the coal to PVC Project is under basic & detail engineering and process design stage. However, we are hereby submitting soft copy of the six monthly EC compliance report for the period October, 2022 to March, 2023.

Thanking you,

Vinay Kumar Singh General Manager – Environment & Sustainability

- Copy to : 1. Reginal Directorates, CPCB, Vadodara : <u>prasoon.cpcb@nic.in</u> 2. Member Secretory, GPCB : <u>ms-qpcb@qujarat.gov.in</u>
 - 3. Regional Office, GPCB (Kutch East): <u>ro-gpcb-kute@gujarat.gov.in</u>

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 bage 1 of

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

Mundra Petrochem Limited

Introduction:

Mundra Petrochem Limited, wholly owned stepdown subsidiary of Adani Enterprises Limited (AEL) intends to setup a Coal to 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 Coal to 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 "Coal to 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 P a g e 1 | 23

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 Coal to PVC project is under basic & detail engineering and process design stage, however, initial site preparation & construction activities have been started at the project site. The financial closure of the project shall be carried out after commissioning of the project.

Point wise Compliance of Environmental Clearance for Industrial activity-I- Proposed Semi Coke-2030 KTPA, Calcium Carbide-2900 KTPA, Cement-6 MTPA; Clinker-4 MTPA vide EC Identification No: EC22A009GJ154137, File No: IA-J-11011/423/2021-IA-II(IND-I) Date: 26/09/2022 & subsequent EC Transfer vide File no. IA-J-11011/423/2021-IA-II(IND-I) Dated 23/12/2022

S. No	Conditions	Status
Α	Specific Conditions	
(i)	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. Project proponent shall abide by all the orders and judicial pronouncements, made from time to time, passed by Hon'ble High Court of Gujarat in PIL No. 36 of 2022.	Noted & agreed with requirement
(ii)	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted & agreed with requirement. Consent to establish has been obtained from GPCB.
(iii)	The project proponent 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.	Noted and shall be complied with. Remarks- Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Environmental protection measures and safeguards in line with the applicable regulatory requirements and best available technologies are being considered in the detailed project engineering design and same will be implemented accordingly during execution of work.

S. No	Conditions	Status
(iv)	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. Remarks- Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Best available practices will be adopted to develop the carbon sink/carbon sequestration resources for capturing of carbon emitted . The implementation report for the same will be submitted to the IRO, MoEF&CC at the time of operation.
(v)	The activities and the action plan proposed by the project proponent to address the issues raised during public hearing and 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, Coal to PVC project is under development of basic & detail design and engineering stage. Action plan proposed to address the issues raised during public hearing and socio-economic issues in the study area shall be implemented as project progress at site. However, MPL has already initiated CER activities in all villages surrounding to project area and total CER expenditure incurred in various community welfare & eco-development activities during the period from November 2022 to March 2023 approx. 4.4 Cr aligned with CAPEX incurred till date. The detailed CER activities with expenditures are summarized in Annexure-V .
(vi)	There are many water bodies including Jarpara Lake, Khari River, Nagavanti River, Dhanesri River, Phot River, Gulf of Kuchchh, Baradi Mata Creek, Kotdi Creek, Modhva Coast exists within the project site. A robust Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	Noted and shall be complied with. Remarks- water bodies like Jarpara Lake, Khari River, Nagavanti River, Dhanesri River, Phot River, Gulf of Kuchchh, Baradi Mata Creek, Kotdi Creek, Modhva Coast are outside of the project site. However, Adequate drainage conservation scheme along with Soil Conservation and Erosion Control measures will be adopted as per best available practices to protect the natural drainage and its flow followed by soil and erosion control at Coastal area.

S. No	Conditions	Status
(vii)	As all the natural drainage including the micro drainage flows into the Gulf of Kutch, a drainage conservation plan shall be implemented. An adequate robust Erosion control and Soil Conservation Program (like Storm water diversion; Storm water drains with catch pits to trap run off material; Garland drains; Retention walls; Settling Ponds; Wheel washing arrangement; Silt removal from settling ponds and utilization; Greening & Paving; Excavated soil preservation for landscaping) shall be implemented.	Noted and shall be complied with. Remarks- Adequate drainage conservation scheme along with Soil Conservation and Erosion Control measures will be adopted as per best available practices to protect the natural drainage.
(viii)	The Efforts shall be made to achieve power consumption of 70 units/tone of Portland Pozzolona cement (PPC) and 95 units/tone of cement for Ordinary Portland Cement and thermal energy consumption of 670 kcal/Kg of Clinker.	Noted and shall be complied with.
(ix)	Most of the transportation of raw material is by road, the distance of which is within 10 km. Project Proponent shall use overhead belt conveyor wherever possible. Action plan shall be prepared and implemented in a time bound manner from the date of issue of Environment Clearance after obtaining requisite statutory permissions from the concerned competent authority.	Noted and shall be complied with. Presently, Coal to PVC project is under development of basic & detail design and engineering stage. A detailed action plan on "transportation of raw material" in environment friendly manner will be prepared after finalization of plant design & engineering.
(x)	The project proponent 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	Noted and shall be complied with the requirements. Remark: Project is under detailed designing stage. However, Green belt 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. Further, adequate width of greenbelt will be developed in the plant side adjacent to the Mangrove Forest. Further, budget earmarked for the same will be kept in separate account and shall be audited annually once activities started and report on the same shall be submitted once activities started.

S. No	Conditions	Status
	the audited statement along with proof of activities viz. photographs (before & after with geolocation date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	
(xi)	The total water requirement for Coal to PVC project will be 222.875 MLD. This will be met by internal recycling of 62 MLD and makeup water of 160.053 MLD from APSEZL Seawater Desalination plant. No groundwater extraction is permitted	Noted and shall be complied with the requirements. Remarks: no groundwater will be extracted for construction as well as operational activities. Water requirement will be fulfilled through APSEZ limited – Seawater Desalination plant.
(xii)	All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the runoff material.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Adequate facilities for dust control will be installed to arrest the dust or to prevent the generation of air born at stockyards area. Also, garland drains will be also provided to trap the runoff materials at stockyards.
(xiii)	Slip roads shall be provided at the gates and along crossings on main roads. All internal and connecting road to the Highway shall be black topped/ concreted with suitable load in term of Million Standard Axle (MSA) as per IRC guidelines.	Noted and shall be complied with the requirements. Remarks: internal and connecting road to highway for proposed project will be constructed as per IRC guidelines.
(xiv)	Performance monitoring of pollution control equipment shall be taken up yearly and compliance status in this regard shall be reported to the concerned Regional Office of the MoEF&CC.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. During operation phase, performance monitoring of pollution control equipment will be conducted at prescribed interval and report on the same will be submitted to I.R.O. of the MoEF&CC.

S. No	Conditions	Status
(xv)	Project Proponent shall implement the recommendations of CSIR-CIMFR on the Report which was conducted on validation of technology proposed for Semi-Coke Unit to evaluate all the environmental concerns arising out of the project activities and their conformity to the Indian Standards issued vide G.S.R. 277 (E) dated 31 March 2012 pertaining to Coke -Oven Plant.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Recommendation proposed by CSIR-CIMFR for Semi coke plant shall be implemented for meeting the requirements of G.S.R. 277 (E) dated 31 March 2012 pertaining to Coke -Oven Plant.
(xvi)	Coke Oven Gas shall be desulfurized.	Noted. The project is under detailed design stage.
(xvii)	Coke oven plant shall be equipped with modified wet quenching system.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage.
(xviii)	Dioxin and furans shall be monitored twice a year during co-processing of hazardous waste and report shall be submitted to the Regional Office of the MoEF&CC.	Noted and shall be complied with the requirements. Remarks: Dioxin and furans will be monitored twice a year during coprocessing of hazardous waste (if any) and report will be submitted to the Regional Office of the MoEF&CC.
(xix)	Project proponent shall develop separate drainage system for storm water and industrial waste water and effectively prevent the pollution of natural waterbody.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Drainage system will be designed considering "Zero Liquide Discharge" concept. So, there will be no any impact on natural waterbody through industrial waste water. A separate drainage system for storm water shall also be developed.
(xx)	Particulate matter emissions from cement mill stacks shall be less than 20 mg/Nm3.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Adequate APCM equipment will be installed to comply the statutory norms.

S. No	Conditions	Status
(xxi)	Entire waste water shall be treated and reused for plantation and dust suppression within the premises. Also, STP water shall be reused in plantation with a view to conserve fresh water.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Proposed project will be on "Zero Liquid Discharge" concept and treated water will be re-used for cooling water, gardening, or other industrial activities to conserve the fresh water. Also, treated water from STP will be used for irrigation purpose for horticulture & greenbelt development.
(xxii)	As committed by the project proponent to adopt the 15 villages, where habitation exists within the study area of the project site, namely Vandh, Tunda, Kandagara, Shiracha, Navinal, Jarpara, Mota Bhadiya, Tragadi, Nana Bhadiya, Nani Khakar, Moti Khakhar, Deshalpar, Moti Bhujpur, Nani Bhujpur and Modhva, Project Proponent shall adopt these villages and prepare and implement a robust plan to develop them into model villages in next 10 years.	Noted and being complied with the requirements. Remarks: In order to know the present social status and needs of the local community, a "Baseline & Need Assessment Study" is also carried out through third party professional agency involving various stakeholders- local villagers, administration etc. and the recommendation of the study is further included in the CER plan for implementation in phased manner. MPL has already initiated CER activities in all villages surrounding project area and total CER expenditure approx. INR 4.4 Cr. incurred in various community welfare & eco-development activities for the period from November, 2022 to March, 2023. was. The detailed CER activities with expenditures are summarized in Annexure-V .
(xxiii)	Hot air dryer shall not be installed. Flue gases of preheater shall be used to dry the slag/bottom ash.	Noted and shall be complied with the requirements. Remarks: project is under detailed designing stage.
(xxiv)	DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm3 by using best available technology.	Noted and shall be complied with the requirements. Remarks: project is under detailed designing stage. Adequate APCM will be taken to control the pollutant withing the stipulated emission norms.
(xxv)	Petcoke dosing shall be controlled automatically to control SO2 emission from chimney within the prescribed limits.	Noted and shall be complied with the requirements. Remarks: project is under detailed designing stage. Adequate APCM will be taken to

S. No	Conditions	Status
		control the pollutant withing the stipulated emission norms.
(xxvi)	The PP shall develop a control strategy and mitigation plan that incorporates the pollution control measures. The Clean Air practices shall be adopted like mechanical collectors, wet scrubbers, fabric filters (baghouses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Adequate APCM will be taken to control the pollutant withing the stipulated emission norms.
(xxvii)	Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. The PP to this effect shall implement a time bound Action Plan, and the compliance shall be submitted to IRO, MoEFCC.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Necessary APCM shall be implemented to control the suspended dust in the atmosphere. Necessary AAQM shall be conducted in project and nearby community area and in case of higher level of suspended dust observed, necessary action shall be implemented & action taken report will be submitted to IRO, MoEF&CC after during project execution activities at site.
(xxviii)	A proper action plan must be implemented to dispose of the electronic waste generated in the industry	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage.
(xxix)	The total quantity of particulate matter generated (kg/month) and the percentage of this captured by pollution control units, must be reported every six months.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. During operation stage, Six monthly report incorporating details of total generation of particulate matter and captured quantity will be submitted to concerned authority.
(xxx)	The project proponent shall take utmost importance in protecting, conserving and enhancing the wildlife fauna in areas falling under their operational activities, especially the aquatic/ marine/ estuarine ecosystems. The recommendations of the approved Site-Specific Wildlife	Noted and shall be complied with the requirements. Remark: The project is under detailed design stage. Consultation process with the Forest Department, Kachchh, Bhuj, is also initiated for implementation of wildlife conservation plan. Activities as proposed in

S. No	Conditions	Status
	Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance report to the concerned Regional Office of the MoEF&CC.	the wildlife conservation plan have been initiated. Details of activities performed as per approved site-specific wildlife management plan is attached as Annexure - I. The copy of the same report is being furnished to the Regional Office of the MoEF&CC.
(xxxi)	The project proponent shall not disturb the nearby Mangrove Forest and shall take necessary steps to protect, conserve and enhance them.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage. Utmost priority will be given to conserve and protect the nearby mangroves forest during construction as well as operation phase.
(xxxii)	The project proponent shall implement the Disaster/ Risk Management SOPs and protocols, as the Kutch area is prone to periodic cyclone storms. All the recommendations made in the risk assessment report shall be implemented and compliance status in this regard shall be furnished to the Regional Office of the MoEF&CC along with the six monthly compliance report.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. At present, HAZOP review for the process plants is being carried out for all process units under Coal to PVC complex for identifying all potential hazard and operability problems and access the associated risks and safeguards along with risk reduction measures with help of guide words by structured review. Moreover, a detailed Risk Assessment study for entire Green PVC Complex will also be carried out and Emergency Preparedness Plan and Disaster Management Plan will be prepared for further implementation. Further compliance status of the same will be submitted to the Regional Office of the MoEF&CC along with the six monthly compliance report."
(xxxiii)	The project proponent shall comply with all the mitigation measures suggested by other divisions of MoEF&CC including Industry-II, Industry-III, Infra-I and also state departments like SPCB in the instant inter- linked PVC to Coal project.	Noted and shall be complied with the requirements.

S. No	Conditions	Status
(xxxiv)	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.	Noted and shall be complied with the requirements. Remarks: awareness Programme has been conducted at nearby village for ban on single use plastic. Copy of the same is enclosed as Annexure - II.
В	General Conditions	
Ι.	Statutory compliance:	
(i)	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Agreed with requirements
II.	Air quality monitoring and preservation	·
(i)	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Necessary OCEMS / CEMS will be installed and same will be

S. No	Conditions	Status
	dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants), as amended from time to time), G.S.R 277 (E) dated 31st March 2012 (Coke Oven Plants) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories	connected to SPCB and CPCB servers as per the norms during operation phase.
(ii)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage.
(iii)	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage. CAAQMS will be installed as per the requirement during operation phase. However, Ambient Air quality monitoring have been carried out through NABL accredited laboratory at suitable locations & report of the same is enclosed as Annexure - III & IV.
(iv)	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.

S. No	Conditions	Status
(v)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(vi)	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(vii)	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(viii)	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(ix)	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(x)	Provide wind shelter fence and chemical spraying on the raw material stock piles	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xi)	Provide Low NOX burners as primary measures and SCR /NSCR technologies as secondary measure to control NOX emissions.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xii)	Have separate truck parking area and monitor vehicular emissions at regular interval.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage.
(xiii)	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.

S. No	Conditions	Status
(xiv)	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xv)	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xvi)	Land-based APC system shall be installed to control coke pushing emissions.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xvii)	Monitor CO, HC and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
(xviii)	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.
III.	Water quality monitoring and preservation	
(i)	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25thAugust, 2014 (Cement) and subsequent amendment dated 9thMay, 2016 (Cement) and 10th May, 2016 (in case of Co-processing Cement) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants), as amended from time to time), G.S.R 277 (E) dated 31st March 2012 (Coke Oven Plants) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.

S. No	Conditions	Status				
	(Protection) Act, 1986 or NABL accredited laboratories.					
(ii)	The project proponent shall regularly monitor ground water quality at least twice a year (pre and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.				
(iii)	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Modular STPs have been installed for construction phase. Engineering design of the STPs is in progress for treatment of domestic effluent during operational phase.				
(iv)	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage. Noted and shall be complied with the				
(v)	Water meters shall be provided at the inlet to all unit processes in the cement plant.					
(vi)	The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.				
(vii)	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.				
IV.	Noise monitoring and prevention					

S. No	Conditions	Status					
(i)	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six- monthly compliance report.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage.					
(ii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage.					
V.	Energy Conservation measures						
(i)	Waste heat recovery system shall be provided for kiln and cooler.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.					
(ii)	The project proponent makes efforts to achieve power consumption less than 65 units/ton for Portland Pozzolona Cement (PPC) and 85 units/ton for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Noted and shall be complied with the requirements during operational phase. Remarks: Project is under detailed designing stage.					
(iii)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage. Possibilities are being explored to use more renewable energy including solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area in the project design phase.					
(iv)	Provide the project proponent for LED lights in their offices and residential areas.	Noted and shall be complied with the requirements. Remarks: Project is under detailed designing stage. Energy efficiency measures are being considered in the project design. Best available lighting equipment/LED will be provided at offices and residential area.					
VI.	Waste management						
(i)	Used refractories shall be recycled as far as possible.	Noted and shall be complied with the requirements.					

S. No	Conditions	Status				
		Remarks: Project is under detailed designing stage. However, Used refractories will be recycled."				
VII.	Green Belt					
(i)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.	and engineering stage. A detailed the cycle assessment study is being carried out through third party professional agency. On finalization of project design and LCA study. GHG emissions inventory for the plant will be prepared along with reduction strategy by incorporating carbon sequestration scheme through plantation Programme after commissioning of the project." Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. A detailed after design & detailed engineering of the different processes. An action plan for the same will be prepared, implemented, monitored and same shall be submitted."				
(ii)	Project proponent shall submit a study report within six months on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.					
VIII.	Public hearing and Human health issues					
(i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. At present, HAZOP review for the process plants is being carried out for all process units under Coal to PVC complex for identifying all potential hazard and operability problems and access the associated risks and safeguards along with risk reduction measures with help of guide words by structured review.				

Conditions	Status			
	Moreover, a detailed Risk Assessment study for entire Green PVC Complex will also be carried out and Emergency Preparedness Plan and Disaster Management Plan will be prepared for further implementation. " Noted and shall be complied with the requirements.			
The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. It will be ensured that all workmen are equipped with necessary PPEs. Further, heat stress analysis for the workmen who work in high temperature work zone will be carried out in operation phase & necessary PPEs will be provided.			
Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	under development of basic 9 detail design			
Environment Management				
The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed	Noted and shall being complied with the requirements. Remark: To improve the socio-economic conditions of the study area, various eco- developmental measures including community welfare activities are initiated in phased manner under Corporate Environmental Responsibility are initiated in phased manner will be undertaken by involving local villages and administration. In order to know the present social status and needs of the local community, a "Baseline & Need Assessment Study" is also carried out through third party professional agency involving various stakeholders- local villagers, administration etc. and the recommendation of the study is further			
	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms. Occupational health surveillance of the workers shall be done on a regular basis and records maintained. Environment Management The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as			

S. No	Conditions	Status
(ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	included in the CER plan for implementation in phased manner. MPL has already initiated CER activities in all villages surrounding project area and total CER expenditure approx INR 4.4 Cr. incurred in various community welfare & eco-development activities for the period from November, 2022 to March, 2023. The detailed CER activities with expenditures are summarized as Annexure - V . Environmental policy of the company is enclosed as " Annexure - VI ".
(iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Further, A separate Environmental Management Cell having qualified persons with specialization in Environmental Science / Engineering has been developed in which EMC head is directly reporting to Head of Organization i.e. CEO as per company hierarchy. Furthermore, full-fledged environment laboratory will be developed at site to carryout environmental monitoring activities.
X .	Miscellaneous	

S. No	Conditions	Status			
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	 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). Copies of the same are enclosed a Annexure – VII. 			
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	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. 1. AEL/MPL/ENV/MoEF&CC/2022- September/08 Dated 28/09/2022. 2. AEL/MPL/ENV/MoEF&CC/2022- September/09 Dated 28/09/2022. 3. AEL/MPL/ENV/MoEF&CC/2022- September/11 Dated 30/09/2022.			
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Six monthly compliance report of stipulated environment clearance conditions including results of monitored data being uploaded on company's website i.e https://www.adanienterprises.com.			

S. No	Conditions	Status				
(iv)	The project proponent shall monitor the criteria pollutants level namely, PM_{10} , SO_2 , NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company	Noted and shall be complied with the requirements after commissioning of the project. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage.				
(v)	The project proponent shall submit six- monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Six monthly compliance report on stipulated environmental conditions being uploaded on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.				
(vi)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Presently, Coal to PVC project is under development of basic & detail design and engineering stage. However, Environmental Statement for the year 2022-2023 will be prepared and Submitted to Gujarat Pollution Control Board within stipulated time period and same will be also available on Compnay Website i.e https://www.adanienterprises.com.				
(vii)	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted and shall be complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage.				
(viii)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and being complied with the requirements. Remarks: Presently, Coal to PVC project is under development of basic & detail design and engineering stage. However, CER Activities have been initiated and status of the same in enclosed as "Annexure - V".				
(ix)	The PP shall put all the environment related expenditure, expenditure related to	Noted and being complied with the requirements.				

S. No	Conditions	Status				
	Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the leftover funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Remarks - Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Action plan proposed to address the issues raised during public hearing and socio-economic issues in the study area shall be implemented as project progress at site. However, MPL has already initiated CER activities in all villages surrounding to project area and total CER expenditure incurred in various community welfare & eco-development activities during the period from November 2022 to March 2023 approx. 4.4 Cr aligned with CAPEX incurred till date.				
		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.				
		The detailed CER activities with expenditures are summarized in Annexure- <i>V</i> .				
(x)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Acceed with requirement				
(xi)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed with requirement.				



<u>Annexures</u>

No.	Name			
	Activities as per approved Wild Life Conservation Plan			
II	Awareness Program on "Ban on Single use Plastic			
	AAQM Reports at Project site			
IV	AAAQM Reports in nearby villages			
V	CER Activities			
VI	Environment Policy			
VII	Copy of News Papers			
VIII	Letter to IRO, MoEF&CC Gandhinagar			

Annexure – I Activities for Wildlife Conservation Plan

Awareness program for "Wildlife conservation" for surrounding area has been conducted at near by village. The details covers under wildlife conservation are need of wild life conservation, definition of wildlife, importance of wild life conservation, methods of wildlife conservations, actions taken by Adani foundations for conservation activities at near by villages.



Further, other activities like plantation program for conservation of habitat artificial concrete water pond of 1000 Lit Capacity to provide drinking water facility to wild animals and Mangrove plantation have been initiated in consultation with District Forest Department, Kutch.





Annexure – II

Awareness Program on "Ban on Single Use Plastic"

Awareness program for "Ban on Single use plastic" has been conducted at 6 Government Schools and 3 Self Help Groups of nearby villages as per The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. Awareness Program has covers CPCB Notification Dated 12/08/2021, prohibited plastic items, problems of plastic waste, awareness of plastic waste, plastic recycling numbers and its meaning.





GPCB

adani



AWARENESS PROGRAMME -BAN ON SINGLE USE PLASTIC PILISIE BANK

"Growth with Goodness"



White House Near G.I.D.C. Office, Char Rasta, Vapi - 396 195. Gujarat, India. Phone : +91 260 2433966 / 2425610

Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QCI-NABET Accredited EIA Consultant Organization

Annexure III

GPCB Recognized Environmental Auditor (Schedule-11) ISO 9001:2015 ISO Certified Company

ISO 45001 : 2018 Certified Company

			_	EST REPORT				
			•	IT AIR MONIT	•	I		
	port No.:		3/03/A-MP00	Report Issue Date 04/04/2023				2023
	Sample ID No.: URA/ID/A-23/03/001							
Name &	Add. of Custo			ROCHEM LIMIT				
				th of APL Road	Near Adani Po	ower Plant, AP	PSEΖ, Τι	ında Village,
				ujarat, 370421				
	f Sampling	24/03/		Da	ate of Testing		26/03/	2023
,	g Procedure		AIR/SOP/07					
	n of Sampling /			Site (Near to P	ocket -1)			
		ter Instrument L		-				
	ment Id No.	Instrumer			Number	Cali. Dat		Next Cali. Date
UERL/AIR/RDS/04 Respin		Respirable Du	ist Sampler		TE-2010	22/07/20	122	21/07/2023
			ta Cana 1		TC-2005	22/07/22	22	24/07/2022
UERL/AIR/FPS/07 Fine Particulate San Fine Particulate San General Sampling / Monitoring Obse		•		E-2010	22/07/20	022	21/07/2023	
	<u>General Samp</u>		Observation	1				
Sr. No.	Description Monitoring Duration			Unit	of measurem	ent		Observation
1.				h			24	
2.	Flow Rate of PM ₁₀		m³/min			1.24		
3.	Volume of Air Sampled for PM ₁₀		m ³			1786		
4.		ir Sampled for PI	M2.5	m ³			24.04	
5.	Flow Rate fo				L/min			0.2
6.		ir Sample for Gas			L		<u> </u>	288
		l Conditions duri	ng testing: Te	mp.: 25 ± 5 °C,	Relative Hur	midity: 40 to 5	0%	
	Test Paramete		Nironment a	and Research				
						SPHERIC POLL		
Sr. No.	lest	Parameter	Unit	Result			missible Limit Test N	
1	Darticulata M	Aattor as DNA	110/003	66.20		NAAQS)	10	E100 Dovt 00
1.		Matter as PM ₁₀	μg/m ³	66.20		LOO		- 5182, Part - 23
2.		Matter as PM _{2.5}	μg/m ³	23.54		60 80		ERL/AIR/SOP/11
3.	Sulphur Dio		μg/m ³	11.25		80		- 5182, Part - 2
4. r	-	$\frac{1}{2}$	μg/m ³	19.30		80		- 5182, Part - 6
5.	Carbon Mor		mg/m ³	< 0.01		4.0		- 5182, Part – 10
6.	Ozone as O ₃		$\mu g/M^3$	12.25		80	IS – 5182, Part – 9	
7.	Ammonia as		μg/m ³	<5.0		100		RL/AIR/SOP/05
8.	Lead as Pb		$\mu g/m^3$	<0.50		1.0		- 5182, Part – 22
9.	Nickel as Ni	<u> </u>	ng/m ³	<1.0		20		- 5182, Part – 22
10.	Arsenic as A		ng/m ³	<1.0		5.0		- 5182, Part – 22
11. 12.	Benzene as Benzo (a) Py		μg/m ³ ng/m ³	<1.0 <0.1		5.0 1.0		- 5182, Part – 11 - 5182, Part – 12
			1 118/111	< U.1	1	1.0	- כו	- JIOZ, PAIL – IZ

BDL: Below Detection Limit:1) Hg: 0.001 μg/M³, 2) Ozone: 5.0 μg/M

Remarks:

Opinion & Interpretation (if required):

****** End of Report ******

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

Authorized By: Raveley

Jaivik S. Tandel (Manager - Operations) UERL/AIR/F-05/06



MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QCI-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-11)

ISO 9001 : 2015 Certified Company ISO 45001:2018 Certified Company

				EST REPORT				
Test De	eart No.				-	••	04/04/20	22
-	port No.:		A/23/03/A-MP00		eport Issue Da	le	04/04/20	23
Sample			A/ID/A-23/03/005					
Name &	Name & Add. of Customer M/S. MUNDRA P					ower Dia	nt ADSE7	Funda Villago
			vey No. 180, Sout Indra, Kachchh, Gu			Ower Pla	ini, apsez,	i uliua village,
Dates of	f Sampling		/03/2023		ate of Testing		29/03/20	10
	g Procedure		RL/AIR/SOP/07		ate of resting		29/03/20	23
	n of Sampling /			ite (Pocket – 1	1			
		-	nt Used for Monit		.)			
	ment ld No.		nent Name	Serial N	umbor	Cali	. Date	Next Cali. Date
			Dust Sampler	1714-D1			7/2022	21/07/2023
UERL/AIR/RDS/04 Respi		Neshijanje	Bust Sampler	2681-DT		22/0	112022	21/07/2023
LIFRI /	UERL/AIR/FPS/07 Fine F		ulate Sampler	2001-D1 271-DT		22/0	7/2022	21/07/2023
General Sampling / Monitoring Obse				271-01	2010	22/0	112022	21/07/2023
Sr. No.		Descriptio	-	Unit c	of measureme	nt		Observation
1.	Monitoring Duration				h		24	
2.	Flow Rate of				m³/min		1.22	
3.	Volume of A	ir Sampled fo	r PM ₁₀		_ m ³		1756	
4.	Volume of A	ir Sampled fo	r PM2.5		m ³		24.04	
5.	Flow Rate fo	or Gas			L/min		0.2	
6.	Volume of A	ir Sample for	Gas				$\leq \sim$	288
> 1			luring testing: Ter	np.: 25 ± 5 °C,	Relative Hu	midity: 4	0 to 50%	
	<u> Fest Paramete</u>	er Results	Environment a	nd Research	Labs Pvt. L	to Sa		
DISCIPL	INE - CHEMICA	AL		NAME OF O	GROUP - ATM	OSPHER	C POLLUTIO	ON
Sr. No.	Test	Parameter	Unit	Result	Permissible Limit (As per NAAQS)		Test Method	
1.	Particulate N	Matter as PM ₁	₁₀ μg/M ³	73.22	100		IS –	5182, Part - 23
2.		Matter as PM ₂		30.24	60			RL/AIR/SOP/11
3.	Sulphur Diox		μg/M ³	13.52	80			- 5182, Part – 2
4.	Nitrogen Dic		μg/M ³	21.44	80			- 5182, Part - 6
5.	Carbon Mon		mg/m ³	< 0.01	4.0			5182, Part – 10
6.	Ozone as O₃		μg/M ³	11.30	180		IS – 5182, Part – 9	
7.	Ammonia as	5 NH₃	μg/m ³	<5.0	400		UE	RL/AIR/SOP/05
8.	Lead as Pb		μg/m ³	<0.50	1.0			5182, Part – 22
9.	Nickel as Ni		ng/m ³	<1.0	20			5182, Part – 22
	Arsenic as A	S	ng/m ³	<1.0	6.0			5182, Part – 22
10.	_	C _c H _c	μg/m ³	<1.0	5.0		IS –	5182, Part – 11
10. 11.	Benzene as	Corro	μ6/…	11.0	0.0			/

BDL: Below Detection Limit:1) Hg: 0.001 µg/M³, 2) Ozone: 5.0 µg/M³

Remarks:

Opinion & Interpretation (if required):

****** End of Report ******

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

Authorized By:

How

Jaivik S. Tandel (Manager - Operations) UERL/AIR/F-05/06



ISO 45001:2018

Certified Company

oEF&CC (GOI) Recognized boratory under the EPA-1986 (12.01		QCI-NABET Accre Consultant Org		GPCB Recognized Environ Auditor (Schedule		ISO 9001 : 2015 Certified Company	ISO 4 Certified	
		1	EST REP	ORT				
		(AMBIEN	T AIR M	ONITORING)				
Test Report No.:	URA/	23/03/A-MP00	6	Report Issue Date		04/04/2023		
Sample ID No.:	URA/	URA/ID/A-23/03/006 M/S. MUNDRA PETROCHEM LIMITED Survey No. 180, South of APL Road, Near Adani Power Plant, APSEZ, Tunda Village,						
Name & Add. of Custo	mer M/S.							
	Surve							
	Muno	Mundra, Kachchh, Gujarat, 370421						
Dates of Sampling	27/03	27/03/2023		Date of Testing		29/03/2023		
Sampling Procedure	UERL	UERL/AIR/SOP/07						
Location of Sampling /	Monitoring	oring Project Site (Pocket – 3)						
Details of Mas	ter Instrument	Used for Moni	oring	-				
Instrument Id No.	Instrume	nt Name	Se	rial Number	Cali.	Date N	ext Cali. [

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/34	Respirable Dust Sampler	1768-DTB-2013	02/08/2022	01/08/2023
		1147-DTB-2013		
UERL/AIR/FPS/21	Fine Particulate Sampler	20-DTC-2012	02/08/2022	01/08/2023
🔌 General Samn	ling / Monitoring Observation			

General Sampling / Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24
2.	Flow Rate of PM ₁₀	m³/min	1.25
3.	Volume of Air Sampled for PM ₁₀	m ³	1800
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04
5.	Flow Rate for Gas	L/min	0.2
6.	Volume of Air Sample for Gas		288

Relative Humidity: 40 to 50% Environmental Conditions during testing: Temp.: 25 ± 5 °C,

Test Parameter Results

DISCIPLI	DISCIPLINE - CHEMICAL			NAME OF GROUP - ATMOSPHERIC POLLUTION			
Sr. No.	Test Parameter	Unit	Result	Permissible Limit (As per NAAQS)	Test Method		
1.	Particulate Matter as PM ₁₀	μg/M ³	61.55	100	IS – 5182, Part - 23		
2.	Particulate Matter as PM _{2.5}	μg/M ³	25.30	60	UERL/AIR/SOP/11		
3.	Sulphur Dioxide as SO ₂	μg/M ³	10.45	80	IS – 5182, Part – 2		
4.	Nitrogen Dioxide as NO ₂	μg/M ³	17.86	80	IS – 5182, Part - 6		
5.	Carbon Monoxide as CO	mg/m ³	<0.01	4.0	IS – 5182, Part – 10		
6.	Ozone as O ₃	μg/M ³	10.50	180	IS – 5182, Part – 9		
7.	Ammonia as NH ₃	μg/m³	<5.0	400	UERL/AIR/SOP/05		
8.	Lead as Pb	μg/m³	<0.50	1.0	IS – 5182, Part – 22		
9.	Nickel as Ni	ng/m ³	<1.0	20	IS – 5182, Part – 22		
10.	Arsenic as As	ng/m ³	<1.0	6.0	IS – 5182, Part – 22		
11.	Benzene as C ₆ H ₆	μg/m ³	<1.0	5.0	IS – 5182, Part – 11		
12.	Benzo (a) Pyrene (BaP)	ng/m ³	<0.1	1.0	IS – 5182, Part – 12		

Note: NAAQMS: National Ambient Air Quality Monitoring Standard. BDL: Below Detection Limit:1) Hg: 0.001 µg/M³, 2) Ozone: 5.0 µg/M³

Remarks:

Opinion & Interpretation (if required):

****** End of Report ******

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

Authorized By: How

Jaivik S. Tandel (Manager - Operations) UERL/AIR/F-05/06

Note: This report is subject to Terms and Conditions mentioned overleaf.

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



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

ISO 9001 : 2015 Certified Company

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023) QCI-NABET Accredited EIA Consultant Organization

Annexure IV

GPCB Recognized Environmental Auditor (Schedule-11)

ISO 45001 : 2018 Certified Company

				EST REPORT			
			•	T AIR MONITO	•		
Test Report No.: URA/23/03/A-MP003						04/04/2023	
Sample ID No.: URA/ID/A-23/03/003							
Name &	Add. of Custo						
		-			lear Adani I	Power Plant, APS	SEZ, Tunda Village,
			· · · · · · · · · · · · · · · · · · ·	ujarat, 370421	(-	27/22/2222	
	f Sampling	25/03/2		Date	e of Testing		27/03/2023
-	g Procedure		IR/SOP/07				
	n of Sampling ,	-	Village -				
		ter Instrument Us					
	ment Id No.	Instrument		Serial Nur		Cali. Date	
UERL//	AIR/RDS/34	Respirable Dus	st Sampler	1768-DTB-		02/08/2022	2 01/08/2023
				1147-DTB-		02/00/2023	01/00/2022
-	AIR/FPS/21	Fine Particulat	•	20-DTC-2	012	02/08/2022	2 01/08/2023
	<u>General Samp</u>	ling / Monitoring	Observation	1	,		
Sr. No.		Description		Unit of measurement		Observation	
1.	Monitoring Duration		h		24		
2.	Flow Rate of PM ₁₀		m ³ /min			1.25	
3.	Volume of Air Sampled for PM ₁₀			m ³		1800	
4.	Volume of Air Sampled for PM _{2.5}			m ³		24.04	
5.	Flow Rate fo				L/min		0.2
6.	Volume of Air Sample for Gas Environmental Conditions during testing: Ter					288	
			g testing: Te	mp.: 25 ± 5 °C,	Relative Hu	umidity: 40 to 50	J%
	Test Paramete		vironment a				
	INE - CHEMIC		11			SPHERIC POLLU	
Sr. No.	lest	Parameter	Unit	Result	-	issible Limit	Test Method
1.	Particulato I	Mattor as DM.	μg/M ³	72.25	(AS p	er NAAQS) 100	IS – 5182, Part - 23
2.		Matter as PM ₁₀ Matter as PM _{2.5}	μg/M ³	27.54		60	UERL/AIR/SOP/11
3.	Sulphur Dio:		μg/M ³	13.25		80	IS – 5182, Part – 2
4.		oxide as NO ₂	μg/M ³	21.48		80	IS – 5182, Part - 6
<u>4.</u> 5.	Carbon Mor		mg/m ³	<0.01	4.0		IS – 5182, Part – 10
<u> </u>	Ozone as O ₃		μg/M ³	8.20			IS – 5182, Part – 10
7.	Ammonia as		μg/m ³	8.20 180 <5.0 400		UERL/AIR/SOP/05	
8.	Lead as Pb) INI 13	μg/m ³	<0.50	1.0		IS – 5182, Part – 22
9.	Nickel as Ni		ng/m ³	<1.0		20	IS – 5182, Part – 22
<u>9.</u> 10.	Arsenic as A	c	ng/m ³	<1.0		6.0	IS – 5182, Part – 22
10.	Benzene as		μg/m ³	<1.0		5.0	IS – 5182, Part – 22
11.	Benzo (a) Py		ng/m ³	<0.1		1.0	IS – 5182, Part – 11
			1 115/111	, ,U,T	1	1. V	

Remarks:

Opinion & Interpretation (if required):

****** End of Report ******

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

Authorized By:

How Jaivik S. Tandel

(Manager - Operations) UERL/AIR/F-05/06



MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QCI-NABET Accredited EIA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-11)

ISO 9001 : 2015 Certified Company

ISO 45001 : 2018 Certified Company

				ST REPORT				
Tost Po	nort No :	LIPA /22	(AMBIENT /03/A-MP004		ORING) port Issue Dat	0	04/04/202	2
Test Report No.: URA/23/03/A-MP004 Sample ID No.: URA/ID/A-23/03/004								
Name & Add. of Customer M/S. MUNDRA PETRO				FD				
Survey No. 180, South c					wer Pla	nt ΔPSF7 T	unda Village	
Mundra, Kachchh, Guja				-		werne	int, / (1 5 E Z, 1	undu vindge,
Dates o	f Sampling	25/03/2	-		te of Testing		27/03/202	3
	g Procedure		R/SOP/07				277007202	
	n of Sampling /		Village - Za	arpara				
		ter Instrument Us	Ŭ					
	ment Id No.	Instrumen			Number	Ca	li. Date	Next Cali. Date
	AIR/RDS/04	Respirable Du		-	DTE-2010		07/2022	21/07/2023
02112,1			ou ou inpici		DTC-2005	,	0772022	21/07/2020
UERL/	AIR/FPS/07	Fine Particulat	e Sampler	-	TE-2010	22/	07/2022	21/07/2023
		ling / Monitoring (/		
Sr. No.		Description		Unit of	fmeasurement		0	bservation
1.	Monitoring	Monitoring Duration			h		24	
2.	Flow Rate of PM ₁₀		m³/min		1.19			
3.	Volume of A	Volume of Air Sampled for PM ₁₀			m ³		1714	
4.		olume of Air Sampled for PM _{2.5}		m ³			24.04	
5.	Flow Rate fo				L/min			0.2
6.	Volume of Air Sample for Gas			Ĺ	5	$\overline{\sim}$	288	
\succ		Conditions during	testing: Tem	p.: 25 ± 5 °C,	Relative Hum	hidity: 4	0 to 50%	
\succ	Test Paramete	r Results	ironment an	d Research				
DISCIPL	INE - CHEMICA	AL.		NAME OF C	ROUP - ATMO	SPHER	C POLLUTIO	N
Sr. No.	Test	Parameter	Unit	Result	Permissible Limit		Test Method	
					(As per NA	AQS)		
1.	Particulate N	Matter as PM ₁₀	μg/M³	60.25	100		IS – 5182, Part - 23	
2.	Particulate N	Matter as PM _{2.5}	μg/M³	22.10	60		UERL/AIR/SOP/11	
3.	Sulphur Diox	kide as SO ₂	μg/M³	6.54	80		IS – 5182, Part – 2	
4.	Nitrogen Dic	xide as NO ₂	μg/M³	15.21	80		IS – 5182, Part - 6	
5.	Carbon Mon	oxide as CO	mg/m ³	<0.01	4.0		IS – 5182, Part – 10	
6.	Ozone as O ₃			7.25	180		IS – 5182, Part – 9	
7.	Ammonia as	ionia as NH ₃ μg/m ³		<5.0	400		UERL/AIR/SOP/05	
8.	Lead as Pb		μg/m³	<0.50	1.0			5182, Part – 22
9.	Nickel as Ni		ng/m ³	<1.0	20		IS –	5182, Part – 22
10.	Arsenic as A	S	ng/m ³	<1.0	6.0		IS –	5182, Part – 22
11.	Benzene as		μg/m³	<1.0	5.0			5182, Part – 11
12.	Benzo (a) Py	rene (BaP)	ng/m ³	< 0.1	1.0		IS —	5182, Part – 12

Remarks:

Opinion & Interpretation (if required):

****** End of Report ******

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

Authorized By: Blow

Jaivik S. Tandel (Manager - Operations) UERL/AIR/F-05/06



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

				ST REPORT				
T t D		110.4 (22	•				04/04/2	
	ort No.:		03/A-MP002	керо	rt Issue Dat	te	04/04/2	JZ3
Sample	Add. of Custo		A-23/03/002					
Name &	Add. of Custo	•		DCHEM LIMITED n of APL Road, Ne	ar Adani De	wor Dlant AD	CET Tunda	Villago
			-	jarat, 370421		Jwei Flaint, AF	SEZ, TUTIUZ	village,
Dates of	Sampling	24/03/20		-	of Testing		26/03/2	023
	g Procedure		R/SOP/07	Dute	orresting		20/03/2	525
	of Sampling /		Village - N	lavinal				
		ter Instrument Use						
	nent Id No.	Instrument		Serial Num	nber	Cali. Date		lext Cali. Date
	AIR/RDS/34	Respirable Dus		1768-DTB-2		02/08/202		01/08/2023
,			•	1147-DTB-2	2013			
UERL//	AIR/FPS/21	Fine Particulate	e Sampler	20-DTC-20	012	02/08/202	2	01/08/2023
> (General Sampl	ing / Monitoring C	bservation	·				
Sr. No.		Description			Unit of measurement			oservation
1.	Monitoring Duration			h				24
2.	Flow Rate of PM ₁₀				m³/min			1.25
3.	Volume of Air Sampled for PM ₁₀				m ³			1800
4.	Volume of Air Sampled for PM _{2.5}				m ³			24.04
5.	Flow Rate for Gas			L/min			0.2	
6.	5. Volume of Air Sample for Gas			L		ננו	288	
≻ <u>E</u>	invironmental	Conditions during	testing: Tem	np.: 25 ± 5 °C, R	elative Hur	nidity: 40 to 50	0%	
	est Paramete		Ironment ar	nd Research La	ibs Pvt. Li			
	NE - CHEMICA	NL	_	NAME OF GRO				
Sr. No.	Test	Parameter	Unit	Result	Permissible Limit		Те	st Method
					(As p	er NAAQS)		
1.		Aatter as PM ₁₀	$\mu g/m^3$	56.18		100		182, Part - 23
2.		Aatter as PM _{2.5}	$\mu g/m^3$	23.20		60		/AIR/SOP/11
3.	Sulphur Diox		μg/m ³	8.54	80			182, Part – 2
4.	Nitrogen Dic		$\mu g/m^3$	16.20		80		5182, Part - 6
5.	Carbon Mon		mg/m^3	<0.01		4.0		182, Part – 10
6. 7.	Ozone as O ₃ Ammonia as		μg/M ³ μg/m ³	8.50 <5.0		180 400		$\frac{5182}{418}$, Part – 9
7. 8.	Lead as Pb	11113	μg/m ³	<0.50		1.0		/AIR/SOP/05 182, Part – 22
<u>ə.</u> 9.	Nickel as Ni		ng/m ³	<1.0		20		182, Part – 22 182, Part – 22
9. 10.	Arsenic as A		ng/m ³	<1.0		6.0		182, Part – 22 182, Part – 22
10.	Benzene as (μg/m ³	<1.0		5.0		182, Part – 22 182, Part – 11
12.	Benzo (a) Py		ng/m ³	<0.1		1.0		182, Part – 12
		nal Ambient Air Qu						,

Opinion & Interpretation (if required):

Checked By:

Nikunj D. Patel (Chemist) Page No.: 1 of 1

****** End of Report ******

Authorized By:

Bar

Jaivik S. Tandel (Manager - Operations) UERL/AIR/F-05/06



Annexure – V

Activities of Corporate Environmental Responsibility

In line with the proposed Corporate Environment Responsibility (CER) plan as per EIA study and Environment Clearance (EC), Mundra Petrochem Limited has planned phase wise implementation of the various community & ecodevelopment activities in all 15 villages surroundings to the project activity as part of extended Environment Management Plan (EMP).

Presently, Coal to PVC project is under development of basic & detail design and engineering stage. Action plan proposed to address the issues raised during public hearing and socioeconomic issues in the study area shall be implemented as project progress at site.

Accordingly, MPL has already initiated CER activities in all villages surrounding project area and total CER expenditure incurred in various community welfare & eco-development activities during the period from November 2022 to March 2023 was approx. **INR 4.4 Cr** aligned with CAPEX incurred till date as project is still in detail engineering & design stage.

Also, in order to know the present socio-economic status and needs of the local community, a "Baseline & Need Assessment Study" is also carried out through third party professional agency i.e. M/s Saline Area Vitalisation Enterprise Pvt. Ltd., involving various stakeholders- local villagers, administration etc. and the recommendation of the study is further included in the CER plan for implementation in phased manner.

Further, following activities have been completed for the period from November 2022 to March, 2023.

Sr. No.	Details / Descriptions	Budget Utilized (INR)
А	Education Initiatives	21,52,440
В	Monitoring and Reporting.	18,02,599
С	Sustainable Livelihood and women Empowerment	5,187,580
D	Community Rural Infrastructure Development	3,51,80,541
Е	Biodiversity	1,21,465
	Total (INR)	44,444,625

A. Education Initiatives:

Adani Foundation set out an innovative intervention through project "Utthan" to improve students' learning capabilities, provide facilities to schools to improve environment and achieve better learning outcomes at the grassroots level with the help of "Utthan sahayak". Mundra Petrochem limited have supported schools for their infrastructure development.



Fisherfolk Livelihood & Skill Development

Mundra Petrochem limited has organized Placement cum Training awareness camp at Moti Bhujpur village in coordination with Adani Foundation for identification of Technical manpower suitable for MPL Project. More than 52 Youth were participated among them, 18 were selected for technical training.



As part of skill development, training on stitching were also arranged for Fisherfolk communities of Zarpara and Navinal village through Adani Skill Development Center. More than 15 women are benefitted with 7 stitching machines which helps them for self-employment through bag stitching and sales.



Photo: Fisherfolk Livelihood & Skill Development activities

Natural Farming

Mundra Petrochem Limited & Adani foundation in collaboration with Govt Agri. Dept organized district level workshop at Mundra as a part of the "Bharat Ka Amrut Mahotsav". The workshop was aimed to bringing all together to promote, implement and ensure convergence of natural farming to village level by involving "Gram Sevak" of kutch region. MPL has also organized training program on "Jivamrut preparation". More than 150 Gram Sevak across Kutch had participated and made aware about systematic and scientific way for effective Natural farming practices and ensure to incorporate it to Farm.

Regular awareness sessions related to "Natural Farming" are being organized for the farming communities aiming for an increase in agricultural productivity and to improve the quality of soil by adopting natural farming practices, reducing the Soil/ air pollution and improve the health condition of the users and their families with the help of Jivamrut, Vormi compost bed, Nimastra Agnistra Dasparni ark, Gaukrupa Amrutam becteria and Biogas etc. It ensures



a healthy life due to cow based natural products is used instead of chemical fertilizers and pesticides.

Total 505 villagers from five villages of Mundra taluka were participated for the training.



Photo: Training programs for farming communities on Natural Farming

Wetland Day Celebration:

Mundra Petrochem Limited (MPL) has organized celebration of "World Wetland Day" on 2nd February 2023. Various awareness program on wetland restoration and coastal biodiversity was organized involving students. On this occasion, representative from Gujarat Pollution Control Board and Gujarat Institute of Desert Ecology (GUIDE) were present and addressed.




Photo: Wetland Day Celebration

Plastic Free Village Awareness

Awareness program for "Ban on Single use plastic" has been conducted at 6 Government Schools and 3 Self Help Groups of nearby villages as per The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. Awareness Program has covers CPCB Notification Dated 12/08/2021, prohibited plastic items, problems of plastic waste, awareness of plastic waste, plastic recycling numbers and its meaning.



Photo: Awareness Program on "Ban on Single Use Plastic"

B. Monitoring and Reporting:

In order to better understand the felt needs of the local people in a continuously changing socio-economic environment and enhance the impact of its efforts, Mundra Petrochem Limited engaged M/s SAVE Pvt. Ltd. and involving various stakeholders- local villagers, administration etc. to develop a baseline survey of 18 villages of Mundra (11 villages) & Mandvi taluka (07 villages) of Kutch District. The recommendation of the study is further included in the CER plan for implementation in phased manner.

SAVE Pvt. Ltd. SAVE – Saline Area Vitalization Enterprise Pvt. Limited, established in 1995, is a technical service organization (TSO). The organization is designed to provide technical services in natural resource management, livelihood & enterprise development and market linkage services to various stakeholders (Community based organizations, NGOs, Government, Industries and donor agencies) engaged in development process in coastal regions of Gujarat.









Photo: Stakeholder consultation process by SAVE Pvt. Ltd. as part of "Baseline and need assessment study".

C. Sustainable Livelihood and Women empowerment:

Women empowerment

Through Adani Foundation, Mundra Petrochem Limited has initiated various initiatives for empowerment of women through Self Help Group (SHG) for self-employment and also engaged women farmers in various trainings programs i.e. operations of farming equipment's, Government Schemes/various Subsidies on

agriculture/horticulture/cattle's etc., awareness on home biogas, cattle feed or NB21 promotion etc.

On theme of "Annadata sukhi bhava" means 'those who are providing me with this food, let them be happy'. Honored 150 women farmers who proved her selves as a farmer entrepreneur from Mundra and Mandvi Taluka. Also, awarded 12 women farmers for their outstanding contribution as a farmer in society. Mineral mixture kit was given to each woman farmer. Information's provided on various schemes/initiatives by Government and other organizations. Technical solutions provided on various problem faced by farming communities.



Photo: Event organized on "Women Farmer's Day Celebration" on 23rd December 2022

Fodder support:

As part of "Corporate Environment Responsibility (CER)", Mundra Petrochem Limited supported local communities by providing green fodder for feeding the milch animals in surrounding villages of the project activity. Green fodder plays major role in feed of milch & other animals, thereby providing required nutrients for milk production and health of animals specially the milch animals – Cow. MPL has supported of approx.. 1200 tonnes of green fodder which helps in feeding more than 2500 cattle's in the villages.



Photo: MPL support for fodder supply in surrounding villages

Home Biogas: Mundra Petrochem Limited (MPL) in association with the Adani Foundation engaged various farming communities in villages surrounding to Coal to PVC project activity to spread awareness about the use of biogas generated from the cattle dung from Bio-gas plant which provide farmer's a sustainable solution for energy security for cooking and compost generated form the biogas plan will be used as organic fertilizer for natural farming.

MPL has already Identified 225 Farmers on need basis for Home biogas support.





Photo: Awareness & demonstration of Home Bio-gas system to farming communities.

Rooftop Rain Water Harvesting System (RRWHS):

As part of "Corporate Environment Responsibility (CER)", Mundra Petrochem Limited through Adani Foundation has planned to construct Rooftop Rainwater harvesting system to collect, convey and store rain for later use from relatively clean surfaces such as a roof. Rainwater Harvesting is a simple method of collecting rainwater and deploying the same for further usage, a step towards water conservation aiming towards fulfillment of Corporate Environment Responsibility.

For implementation of RRWHS, MPL has conducted number of awareness meetings with the household owners (Vadi Vistar area) in the villages through Adani Foundation to make them aware on water conservation and safe drinking water. Three villages namely Navinal, Bhujpur and Nani Khakhar agreed to cover





100 Vadi Vistar area under Rooftop Rainwater harvesting system. The initiative will also help in reducing the women's drudgery & save time for productive work.



Photo: Awareness meetings Vadi Vistar area on Rooftop Rainwater harvesting

D. Community Rural Infrastructure Development:

Mundra Petrochem Limited has supported local communities by developing various infrastructure facilities in the villages surrounding to the project activity-



E. Bio-Diversity:



Coastal Biodiversity :

Mundra Petrochem Limited is in a process of multi species Mangrove Biodiversity Park with collaboration of Gujarat Institute of Desert Ecology (Bhuj, Kachchh Total 20 hector area have been developed with multi species Mangrove plantation at Luni coast, Mundra Avicenna Marina. Rhizophora Mucronata Ceriops Tagal, Ceripos decandra are the spices of Biodiversity Park Due to this massive costal plantation, different birds, fishes and other crabs. insects will be attracted towards coast.

Terrestrial Biodiversity:

In 16 villages with coordination of Village Development Committee, in 2 acre land biodiversity park will be developed which will be divided in 4 compartments i e fruit bearing trees, medicinal trees, oxygen trees and native spices which will be connected by paver pathways Terrestrial habitats are ones that are found on land, like forests, grasslands, deserts, shorelines, and wetlands Terrestrial habitats also include man made habitats, like farms, towns, and cities, and habitats that are under the earth, like caves and mines Discussion with village development committee regrading provision of land This initiative will attract various flora and fauna.



Mundra Petrochem Limited has planted 76000 nos. of Mangrove saplings as part of Afforestation program (~1.1 Ha) at creek area near MPL Project through participation of local fisherman community. Mangrove Afforestation has carbon sequestration potential of 600 to 700 tCO $_2$ eq per hectare over 40 years period.

Other community and eco-developmental activities in villages by Adani Group

In addition to above, Adani Foundation has carried out various socio-economic & eco developmental activities at villages of Taluka: Mundra and Mandavi. Adani Foundation helping community by facilitating quality education, enabling the youth with income-generating skills, promoting a healthy society and supporting infrastructure development. With an aim to contribute to the holistic development of communities, the Adani Foundation is contributing to the global agenda of meeting Sustainable Development Goals (SDGs).

Few activities are listed as:

- 400577 numbers of participants beneficiated under Project Udaan with vision "To Create a Pool of inspired young mind" and mission for "To motivate young students to dream big".
- 2. Pashudhan & Preventive Health care management.
- 3. Grass Land Development and Individual Fodder Cultivation.
- Total 17299 cattle of 19 Villages had benefitted With different kind of medicines and vaccines.
- 5. Lumpy Disease Vaccination Drive.
- 6. Prakrutik Sahkari Mandli.
- 7. Biogas support program
- 8. Water Conservation Project
- 9. Adani Skill Development Centre (ASDC), Mundra has signed MoU with Kachchh District Education Office. ASDC has provided training of Digital



Literacy and Basic Functional English in Kachchh District Schools. As per MOU Kachchh District Education Office has provided 4000 candidates to us for training (Adani Skill Development Centre).

- 10. Adani Skill Development Centre (ASDC), Mundra has organized various skill development trainings on various useful courses i.e. Pedicurist and Manicurist, Beauty Therapist, Electrician, meson, digital literacy, data entry operator etc. and benefitted more than 4,500 participants.
- 11. Various Community Infrastructure Development (CID) program for improving infrastructure facilities of rural and urban area were also implemented for upliftment of health care, education, agriculture, water and sanitation and other basic facilities for sustainable rural development:
 - a. 40 numbers of Roof Rain water Harvesting System constructed at nearby villages.
 - b. 2 numbers of Pond deepening work at nearby villages along with Pond Beatification bund strengthening work completed at Bhujpur.
 - c. 2 percolations Bore recharge work.
 - d. School repairing and renovation work at Tunda Village.
 - e. Construction of house for needy fisherman
 - f. Renovation of Approach Road
 - g. and Many more
- 12. Community Health Programs: Adani Foundation is relentlessly working to Provide access of quality health facilities at Doorstep level to create health Society for healthy nation development through various kind of health Projects Adani Foundation is relentlessly working to Provide access of quality health facilities at Doorstep level to create health Society for healthy nation development through various kind of health projects-



Cattle Health Camp& Lumpy Disease Vaccination Drive



Biogas Support to 100 Farmers by Linkages through DRDA



Promotion of Natural Farming



Medical Support and Health Check – up at Nearby villages



Providing Rooftop Rain Water Harvesting System at nearby villages.



Pond renovation for water harvesting and ground water recharge





Photo: Training programs by Adani Skill Development Centre





Photo: Community Health Care activities

Annexure - VI

adani

ENVIRONMENT, HEALTH & SAFETY POLICY

We at Adani, strive to make our businesses sustainable, that benefits our customers, our employees, our shareholders and society in general. We believe that in addition to integrated infrastructure business, there is a bottom line in performing our operations according to prescribed standards, specifications and regulations on governance, which are safe in working and environmental friendly for the well-being of the working community.

As a responsible corporate, we at ADANI have a firm conviction that the industrial injuries, occupational hazards as well as safety and environmental incidents are preventable. We recognize and trust people as our most important asset and have commitment to provide safe and healthy work environment impacting not only those, who are working in our industry but also community, which is living in the vicinity.

To achieve this objective, we shall

- a. Develop, implement, maintain and sustain EHS Management System across the Group to set up new benchmarks for the respective sector of operations, which superimpose the regulatory and statutory requirements.
- b. Verify, audit and periodically review EHS performance and set new targets to revise these benchmarks.
- c. Formulate EHS objectives and targets for continual improvement and to have a periodic review for ensuring that these are in conjunction with the individual business and corporate levels.
- **d.** Conduct all our operational activities in such a manner as to avoid harm to employees, contractors, stakeholders and community at large.
- e. Inculcate safety & health as a personal value through behavioral intervention and recognize it across levels with continuous correction of unsafe behavior.
- Provide adequate training and resources so as to bring awareness and ability to carry out work safely.
- **g.** Emphasize responsibility and accountability to all employees and contractor workforce for safe performance on the job and encourage safe behavior off the job.
- h. Evolve ways to reduce or eliminate the use or release of toxic and hazardous material and prevent pollution by conserving natural resources, recovering and recycling the raw materials for safe, healthy and clean environment.

GAUTAM SA

Date: 01.01.2016



(કચ્છ આવૃત્તિ) गुषरगा रागायार

6

અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ
શાંતિગ્રામ, એસ. જી. હાઈવે, અમદાવાદ - ૩૮૨૪૨૧. (ગુજરાત)
જાહેર નોટિસ
બે. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ , APSEZ ઔદ્યોગિક જમીન , વાંટ & ટૂંડા ગામ
ાજીક, તાઃ મુન્દ્રા, જીઃ કચ્છ, ગુજરાત ખાતે પ્રસ્તાવિત "એકટીવીટી જેવીકે સેમી
કોક -૨૦૩૦ કે.ટી.પી.એ.; કેલ્શિયમ કાર્બાઇડ - ૨૯૦૦ કે.ટી.પી.એ; સિમેન્ટ - ૬
ઝેમ.ટી.પી.એ; ક્લિનકર - ૪ એમ.ટી.પી.એ. (જે સૂચિત કોલ ટુ પોલી-વિનાચલ
પી.વી.સી.) પ્રોજેક્ટ ના ભાગ રૂપે મેં. અદાછી એન્ટરપ્રાઇઝીસ લિમિટેડ દ્વારા
ારતાવિત, APSEZ ઓધોગિક જમીન, વાંટ 8 ટૂંડા ગામ નજીક, તાઃ મુન્દ્રા,
ષ્ટ્રઃ કચ્છ, ગુજરાત, જેમાં ઇન્ડસ્ટ્રી-૧ પ્રોજેક્ટ-સેમી કોક-૨૦૩૦ કે.ટી.પી.એ.;
સેમેન્ટ-૬ એમ.ટી.પી.એ; ક્લિનકર-૪ એમ.ટી.પી.એ; ઇન્ડસ્ટ્રી-૨ પ્રોજેક્ટ-
ી.સી.એમ-૨૦૦૨ કે.ટી.પી.એ., પી.વી.સી૨૦૦૦ કે.ટી.પી.એ., ઈથીલીન
ભાચકોલ-૪૦૦ કે.ટી.પી.એ, અને ઇન્ડસ્ટ્રી-૩ પ્રોજેક્ટ-એસિટિલિન-૮૬૦
કે.ટી.પી.એ. અને કોસ્ટિક સોડા-૧૩૧૦ કે.ટી.પી.એ અને કેલ્શિયમ કાર્બાઇડ-૨૯૦૦
કે.ટી.પી.એ.(EIA નોટિફિકેશન માં દર્શાવેલ નથી) ના ભાગ રૂપે સમાવેશ થાય છે.)"
માટે ની પર્ચાવરણીય મંજૂરી મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ, ફોરેસ્ટ અને કલાઇમેટ
યેન્જ, નવી દિલ્લી ના પત્ર કમાંક : EC Identification No
EC22A009GJ154137, File No IA-J-11011/423/2021-IA-II(IND-I) lated 26/09/2022 ના રોજ પ્રાપ્ત થયેલ છે. સદરદુ માન્થતા અંગેનો પત્ર
ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ ની ઓફિસ માં તેમજ મિનિસ્ટ્રી ઓફ એન્વિરોમેન્ટ,
ફોરેસ્ટ અને કલાઇમેટ ચેન્જ ની વેબ સાઈટ <u>https://parivesh.nic.in</u> પરથી પણ
ત્રેઈ શકાશે. તદ્દ ઉપરાંત એન્વિરોએન્ટ ક્લીચરન્સ ની કોપી કંપનનીની વેબસાઈટ
https://www.adanienterprises.com/-/media/4BAE7363F8C843
38B659F4AC21587F8A.ashx પણ બોઈ શકાશે.
sd- પ્રોદયુત માજી (પ્રોજેક્ટ હેઠ)
મેં. અદાણી એન્ટરપ્રાઇઝીસ લિમિટેડ

News Paper: Gujarat Samachar, Page no:7, Date:30/09/2022, Language: Gujarati THE TIMES OF INDIA, AHMEDABAD FRIDAY, SEPTEMBER 30, 2022

TIMES NATION



Adani Enterprises Limited Shantigram, S.G. Highway, Ahmedabad-382421. (Gujarat)
PUBLIC NOTICE
W/s Adani Enterprises Limited, APSEZ Industrial Land, Near Village Vandh & Tunda, Taluka Mundra, District – Kachchh, Gujarat has been accorded Environmental Clearance (EC) for project "Semi Coke-2030 KTPA , Calcium Carbide-2900 KTPA, Cement-6 MTPA ; Clinker-4 MTPA (as a part of Proposed Coal to Poly-Vinyl Chloride (PVC) Project of AEL in land notified as Industrial area of APSEZ, TaMundra, Dist-Kachchh, Gujarat ⁺ comprising of IND-I projects i.e. Semi Coke-2030 KTPA, Cement-6 MTPA; Clinker-4 MTPA, IND-II projects i.e. VCM- 2002 KTPA, PVC-2000 KTPA, Ethylene Glycol- 400 KTPA and IND-III projects i.e. Acetylene-860 KTPA & Caustic Soda-1310 KTPA and Calcium Carbide-2900 KTPA (Not Specified in EIA Notification)) by M/s Adani Enterprises Ltd." by Ministry of Environment, Forest and Climate Change, Government of India vide EC Identification No EC22A009GJ154137, File No IA- J-11011/423/2021-IA-II(IND-I) dated 26/09/2022 . The said clearance letter is available at website of the Ministry of Environment, Forest and Climate Change at <u>https://parivesh.nic.in</u> and also available at office of the Gujarat Pollution Control Board (GPCB). Copy of EC is also kept at website of the company at <u>https://</u> www.adanienterprises.com/-/media/4BAE7363F8C8 4388B659F4AC21587F8A.ashx

lews Paper: The Times of India, Page no:13, Date:30/09/2022, Language: English

Ref: AEL/MPL/ENV/MoEF&CC/2022 - September/11

Date: 30/09/2022

Τo,

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

Subject: Environmental Clearance (EC) for proposed project activities "Semi Coke-2030 KTPA, Calcium Carbide-2900 KTPA, Cement-6 MTPA; Clinker-4 MTPA near village Vandh & Tunda, Taluka Mundra, District Kachchh, Gujarat by M/s Adani Enterprises Ltd.

Reference: EC Identification no EC22A009GJ154137, File no. IA-J-11011/423/2021-IA-II(IND-I) Dated 26/09/2022

Respected Sir,

With reference to above subject, this is to inform that Ministry of Environment Forest and Climate Change has granted Environment Clearance for our project "Semi Coke-2030 KTPA, Calcium Carbide-2900 KTPA, Cement-6 MTPA; Clinker-4 MTPA (as a part of Proposed Coal to Poly-Vinyl Chloride (PVC) Project of AEL in land notified as Industrial area of APSEZ, Ta-Mundra, Dist-Kutch, 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 EC22A009GJ154137, File no. IA-J-11011/423/2021-IA-II(IND-I) Dated 26/09/2022.

Accordingly, in compliance of Miscellaneous condition no. (i) & (ii) of Environmental clearance, we are submitting herewith copy of environmental clearance as Annexure - A along with copies of newspaper publications (Annexure – B) stating "the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB Website of the and may also be seen at Ministry at (GPCB) https://parivesh.nic.in/ well as on Company website at as https://www.adanienterprises.com/-

<u>/media/4BAE7363F8C843B8B659F4AC21587F8A.ashx</u> for your reference and record please.

Dage1 of 2

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

Gujarat, India CIN: L51100GJ1993PLC019067 Registered Office: "Adani Corporate House", Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahme:dabad - 382421

Integrated Regional Office, Gandhinagar पर्यावाण, चन एवं जलवायु परितर्तन मंत्रालय, Ministry of Environment, Forest & Climate Change, Govt. of India / भारत सरकार कक्ष ज. 407 व 409 ए विग अरण्य भवन Room No.407 & 409. A wing Aranya Bhavan गौथीनगर (गुजरान) / Gandhinagar(Gujarat)

The details of the newspaper publication are given below:

Sr. no.	Name of News Paper	Language	Date of Publication
1	Kutch Mitra	Gujarati	30/09/2022
2	Gujarat Samachar	Gujarati	30/09/2022
3	The Times of India	English	30/09/2022

Thanking You. Yours Faithfully,

Authorized Signatory for Adani Enterprises Ltd,

Prodyut Maji (Project - Head)

Encl: As Above

Copy to:

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

2). The Regional Officer,

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

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

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