



**Ports and
Logistics**

Letter No.: APDPPL-EHS/MOEF RO/EC Comp (III)/2022/01

Date: 01.12.2022

To,
Inspector general of Forest/Scientist C
Integrated Regional office
Ministry of Environment Forest and Climate Change
Aranya Bhavan, A Wing, Room Number 409,
Near CH-3 Circle Sector 10A
Gandhinagar – 382007
Gujarat

Sub.:- Six Monthly Compliance Report of Environment and CRZ Clearance for the period from April 2022 to September 2022.

Ref.:- 1) Environmental and CRZ clearances granted to M/s. Adani Petronet (Dahej) Port Pvt. Ltd. for Phase-III vide letter dated 14.10.2016 bearing F. No.: 11-37/2007-IA-III.
2) CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG for Phase III, dated 14.03.2016 bearing No.: ENV-10-2015-171-E.

Dear Sir,

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letter for the period April 2022 to September 2022.

Thanking you,

Yours Faithfully,

For M/s Adani Petronet (Dahej) Port Pvt. Ltd.

(Authorized Signatory)

Copy to:

1. Add. Secretary, Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016 (Madhya Pradesh).
2. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
3. The Director, Forest and Environment Department, Block-14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat-382 010.
4. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
5. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010 (Gujarat)
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt Ltd
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ADANI PETRONET (DAHEJ) PORT PVT LTD.

From: April 2022

To : September, 2022

**SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT & CRZ CLEARANCE
PHASE – III**

FOR

DEVELOPMENT OF MULTI CARGO PORT TERMINAL

AT

DAHEJ, DISTRICT: BHARUCH, GUJARAT

(FOR THE PERIOD: APRIL 2022 TO SEPTEMBER 2022)

BY

ADANI PETRONET (DAHEJ) PORT PVT LTD.

VILLAGE: LAKHIGAM, TALUKA: VAGRA,

DISTRICT: BHARUCH, GUJARAT- 392130



ADANI PETRONET (DAHEJ) PORT PVT LTD.

From: April 2022

To : September 2022

LIST OF APPENDIXES

S. No	Details
1	Environmental and CRZ Clearances for Phase-III issue by MOEF&CC vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III
2	CRZ Clearance / Recommendation issued by Department of Environment & Forest; GoG for Phase-III vide letter dated 14/03/2016 bearing No.: ENV-10-2015-171-E

List of Annexure

Annexure 1	:	CCA Copy
Annexure 2		Action taken report on PH points
Annexure 3	:	Environment Monitoring Report
Annexure 4	:	Compliance Status of EMP As Per EIA Report
Annexure 5	:	CSR Report from April 2022 to September, 2022
Annexure 6	:	Environment Management Cell
Annexure 7	:	Environmental Budget & Expenditure for FY 2022-2023
Annexure 8	:	Green Belt development plan

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
(i)	'Consent for Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Consent to Establish was obtained from Gujarat Pollution Control Board vide no AWH 109820 dated 19.10.2020, valid up to 16.07.2025 & its amendment AWH – 116434 dated 09.03.2022, valid up to 16.07.2025. Attached in Annexure 1 .
(ii)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted.
(iii)	The Project proponent shall ensure that there shall be no damage to the existing mangroves patches near site and also ensure the free flow of water to avoid damage to the mangroves.	Being Complied There is no damage to Mangrove due to project activity.
(iv)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Complied.
(v)	Shoreline should not be disturbed due to dumping. Periodical study on shoreline changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six-monthly monitoring reports.	Complying with. <ul style="list-style-type: none"> No marine construction activities are carried out on marine front after September 2019. Reclamation of the area is being done as per the approval received. There is no dumping of any material outside the project area towards the shore. National Institute of Ocean Technology, Chennai has carried out study on shoreline changes in the vicinity of Dahej Port. As per the report on shoreline change analysis using high-resolution satellite images. Since 2011 deposition along the northern sector, erosion along southern sector and almost stable along the southeastern sector is observed. The seasonal and yearly shoreline changes indicate the dynamic nature of the coastline. Report of shoreline change analysis was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 23.11.2019. As per the report no additional mitigation measure is required for shoreline protection
(vi)	The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	Complied. All the commitments made during the public hearing have been complied with. An action taken report is enclosed as Annexure 2 .
(vii)	All the conditions stipulated in the earlier Clearance including the	Being Complied <ul style="list-style-type: none"> All conditions stipulated in the EC and CRZ

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
	recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.	<p>clearances are being complied with. A separate six-monthly compliance report is being submitted to MoEF&CC and other authorities.</p> <ul style="list-style-type: none"> All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. APDPPL has a well-defined DMP, and regular mock drills are being conducted. DMP is also reviewed at regular interval. Last Mock drill was conducted on 22.09.2022. Last revision in the DMP was done on 01.07.2022.
(viii)	The material for reclamation shall be sourced only through Government approved quarry. The quarried material shall be free from all kinds of contamination and high organic carbon contents. The same should be tested prior to reclamation.	<p>Being Complied</p> <p>All the material for reclamation is procured through approved agency. It has been ensured that Material used for reclamation is free from high organic carbon contents.</p>
(ix)	The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 m above the coal stock, made of fabric/HDPE, water sprinkler arrangement, green belt of at least three layers of suitable trees and scrubs.	<p>Being Complied</p> <p>Coal being stored at designated stock yard with dust control measures viz. wind screen made of steel of height at least 2 m above the coal stock, water sprinkler arrangement, green belt of suitable trees and scrubs.</p> <p>Dust control measures details: -</p> <ul style="list-style-type: none"> APDPPL has installed wind breaking wall for dust pollution control in the open coal yard. The wind breaker wall is a porous perforated barrier. At the back of the wall, a low-velocity zone is formed. It effectively reduces the average wind speed, thereby prevents dust from moving, and achieves the purpose of dust suppression. The benefits include. <ul style="list-style-type: none"> ➤ Reduction of coal losses in open yard ➤ Saves water for dust suppression ➤ Improves the living conditions of local residents ➤ Improves the working conditions of the on-site staff <p>Wind break walls have been erected around the coal stockpile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stock piles. An amount of 58 crore is spent by APDPPL in erecting and maintaining the wind breaking wall around the coal yard.</p>

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
		<ul style="list-style-type: none"> APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly. APDPPL has installed a truck tyre washing system within the port premises, which washes the tyre of trucks exiting the port area. Green belt is being developed in an area of 23.54 Ha. including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
(x)	The coal from the ships shall be conveyed through closed conveyor to the coal stock yard. The conveyor shall be seamless without joints/transfer points.	Noted for Compliance. Mechanization of South Berth is yet to be implemented. After project completion coal will be transported through closed conveyor to the coal stock yard from south berth also. The alignment of the conveyer will be based on the engineering requirement to meet the objectives.
(xi)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.	Being Complied Regular road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPL. <p>Road cleaning by sweeping machine: APDPL, have 02 nos. of large capacity road sweeping machine and one tractor sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/hour each which allow rapid collection of spillage, dust and subsequent disposal.</p> <p>Manual Road Cleaning: In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by three team consisting of 5 members each. All the coal dust collected is sent to the coal yard.</p> Regular water sprinkling is carried out by two mobile water tankers.
(xii)	The mangrove plantation of 50 ha shall be undertaken in consultation with Gujarat Ecology Commission / State Forest Department.	Complied. Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). And additional 50 Ha for Phase –III. Details of the same are given below.

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
		<ol style="list-style-type: none"> 100 ha near village Dandi, Dist Surat– 2011 50 ha near village Jakhau, Dist Kutch – 2011 50 ha near Padri bit, Dist Bhavnagar – 2011 200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I & II EC &CRZ clearance) 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &CRZ clearance) <p>Reports of 400 Ha Mangrove afforestation (Developed in Phase I & II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017</p> <p>The mangrove plantation (Phase –III) of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 29/05/2019.</p>
(xiii)	Cargo shall be unloaded directly into hopper from the ship and transported to the stack yards through closed conveyor system only. Inbuilt dust suppression systems shall be provided at hoppers and all the transfer points / storage yards. Cargo shall not be unloaded directly onto the berth. Water meters shall be provided at different locations to record the consumption of water used for dust suppression and daily log shall be maintained.	<p>Being Complied</p> <ul style="list-style-type: none"> At mechanized berth of APDPL, cargo is handled through conveyor system. Material handling system is equipped with Dry Fog Dust Suppression System. Coal storage yard is equipped with dust suppression system. After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.
(xiv)	Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do not interfere with the natural drainage	<p>Being Complied</p> <p>All the construction activities are as per the approval received under CRZ notification 2011 and EIA notification 2006. During Project (Phase III) implementation, it will be ensured that there shall not be any interference with the natural drainage of the area.</p>
(xv)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.	<p>Complied.</p> <p>Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply.</p>
(xvi)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the	<p>Complied.</p> <p>Sewage generated from port is being treated in designated STP of 80KL/Day Capacity. Treated water is used for horticultural purposes. Quality of treated water confirm to the standard laid down by Gujarat Pollution Control Board.</p>

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Cargo Port Terminal Phase III		Status/Action taken				
Sr. no.	Conditions					
	Environment (Protection) Act, 1986.	Capacity	Quantity of Wastewater (Avg. from April, 2022 to September, 2022)		Type of STP	
		80KLD	22.68 KLD		MBR	
		The treated water from STP is being utilized on land for horticulture purpose within port premises after achieving permissible norms prescribed in CCA order. Summary of STP treated water analysis results during compliance period from April 2022 to September 2022 as mentioned below.				
		Parameters	Unit	Min	Max	Perm. Limit
		PH	-	7.09	8.06	6.5- 8.5
		TSS	mg/L	21	29	30
		BOD (3 Days @ 27 °C	mg/L	14	18	20
		Residual Free Chlorine	mg/L	0.5	0.8	0.5(Min)
		Oil & Grease	mg/L	2.5	4.2	-
		• APDPPL regularly submits report to State Pollution Control Board.				
(xvii)	All the operational areas will be connected with the network of liquid waste collection corridor comprising of storm water, oily waste and sewage collection pipelines.	Complied. There is no liquid effluent generation during construction and operation of project. Separate storm water drain network has been provided. Domestic effluent is being transported from generation point to STP in close type Gully Men vehicle. Dedicated Hazardous waste storage area has been provided for collection and storage of Hazardous waste. Dump Pond is constructed to collect the coal wash water from yards & reuse it for washing.				
(xviii)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan.	Complied. Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of April, 2022 to September 2022 are enclosed as Annexure 3C and 3D.				
(xix)	The marine ecology management plan being drawn up with regards to the environmental impacts of natural disasters, oil spills and other wastes, dredging and dumping on marine ecology (all micro, macro and mega biotic components) shall be scrupulously implemented. It shall be ensured that the marine ecology in the area of influence is not adversely affected.	Being Complied <ul style="list-style-type: none">No waste or dredged material is dumped so as to disturb the marine ecologyMarine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of April, 2022 to September 2022 are enclosed as Annexure 3C and 3D.				
(xx)	Marine ecology shall be monitored regularly also in terms of all micro,	Complied. Marine ecology is being monitored through M/s				

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Sr. no.	Conditions	Status/Action taken
	macro and mega floral and faunal components of marine biodiversity.	Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of April, 2022 to September, 2022 are enclosed as Annexure 3C and 3D.
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	<p>Complied.</p> <ul style="list-style-type: none"> Oil Spill Contingency plan is prepared and resubmitted Tier 1OSR Facility Dahej port Terminals on dated 15.09.2022. Request letter for approval of Oil Spill Contingency plan submitted to the chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar vide letter dated 16/09/2020 Oil Spill Contingency plan is prepared and resubmitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018. Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. APDPPL has a well-defined DMP and regular mock drills are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 22.09.2022. Last revision in the DMP was done on 01.07.2022.
(xxii)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	<p>Being Complied</p> <p>All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied.</p>
(xxiii)	Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/ disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period.	<p>Being Complied</p> <p>There is no discharge of oily bilge waste or ballast water in the sea within port limit. APDPPL is not accepting any kind of Hazardous Waste from ships/vessels.</p>
(xxiv)	Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind	<p>Complied.</p> <ul style="list-style-type: none"> The D.G set are only used in case of power failure

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
	direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.	<ul style="list-style-type: none"> DG sets are installed as per the approval. Monitoring of DG set Stack emission & noise is being carried out by M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Test reports of emission from DG sets are enclosed as Annexure 3H.
(xxv)	All the mechanized handling systems and other associated equipment's such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.	Being Complied <ul style="list-style-type: none"> APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly. After mechanization of south berth, desired pollution control measures shall be made as a part of material handling system.
(xxvi)	No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.	Complied. APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.
(xxvii)	The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	Complied. <ul style="list-style-type: none"> Details regarding STP are given in point number-XVI (Refer above point). Monitoring Reports for the period of April 2022 to September 2022 is enclosed as Annexure 3F.
(xxviii)	All the mitigation measures suggested in the EIA report and the marine environment study of CWPRS, Pune shall be implemented. The compliance for each of these measures shall be submitted to concerned SPCB and R.O. of this Ministry along with six monthly compliance reports.	Being Complied <ul style="list-style-type: none"> All the recommendations and suggestions given by NIO; M/s Cholanmandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4.
(xxix)	It shall be ensured by the Project Proponent that the activities does not cause disturbance to the fishing activity, movements of fishing boats and destruction to mangroves during the construction and operation phase.	Complied. There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.
(xxx)	The Project Proponent shall take up and earmark adequate fund for socio-economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	Complied. The CSR activities are executed by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of April 2022 to September 2022 is attached as Annexure – 5 .
(xxxi)	The project proponent shall set up separate environmental management cell for effective implementation of the	Complied. APDPPL has a well-structured Environment Management Cell, staffed with qualified manpower for

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
	stipulated environmental safeguards under the supervision of a Senior Executive.	implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 6.
(xxxii)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. <ul style="list-style-type: none"> Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 235 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –7.
(xxxiii)	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Being Complied <p>All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure – 4.</p>
(xxxiv)	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system, measures to be taken for protection. One set of environmental manual shall be made available at the project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	Complied <ul style="list-style-type: none"> APDPL has prepared operating manual for all activities and is certified for ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007 & ISO 27001:2013. Complete set of operating manual is available at site. Regular awareness sessions are organized for each level of employee as per the training need identification (TNI) done by HR department. All the schedules and results of environmental monitoring are available at EHS department at project site.
(xxxv)	Corporate Social Responsibility: <ol style="list-style-type: none"> The Company shall have a well laid down Environment Policy approved by the Board of Directors. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or 	Being Complied <ul style="list-style-type: none"> Company has an Environment Policy. All the requirements mention in the condition are being met through Environment Management System (ISO 14001:2015). The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions (Environment Cell Organogram) is enclosed as Annexure – 6. APDPPL has form a management review committee-comprising of various heads of departments and chaired by site head. This review committee meets once in six months to review and monitor EHS performance of the site. All action items are being recorded and implemented.

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Sr. no.	Conditions	Status/Action taken
	shareholders or stakeholders at large.	
B. General Conditions.		
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Being Complied No digging activities carried out during the compliance period. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Copies of reports are enclosed as Annexure 3B .
ii	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Being Complied <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc. Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the APDPPL full support is extended and APDPPL provides all additional information seek by them during the inspection. No officer of MoEF&CC, regional office Bhopal and CPCB visited the site during the compliance period. Latest visit of Gujarat Pollution Control Board during the compliance period was on 27.06.2022.
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Noted and complied. APDPPL is regularly submitting six monthly compliance reports, which comprises of compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports and EMP Status etc.
iv	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with	Noted and Agreed.
v	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted & Agreed.
vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.	Complied There is no change in the implementation of project profile/agency.
vii	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied <ul style="list-style-type: none"> Financial closure date for the project is 29/10/2014. Consent for establish was obtained from Gujarat Pollution Control Board vide no AWH 109820 dated: 19.10.2020 which is valid up to 16.07.2025.

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
		& its amendment AWH – 116434 dated 09.03.2022 attached as Annexure 1 . • Start of land development (23 Ha. reclamation) work 17.10.2017.
viii	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.	Complied Copy of the clearance letter is submitted to concern Panchayat/ local NGO by hand and by register speed post. Copy of the acknowledgement and receipt of speed post were submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
ix	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days	Complied This condition does not belong the project proponent, however, APDPPL has submitted request letter along with a copy of environment clearance letter for display to Gujarat Pollution Control Board, District Industries Centre and Collector's Office vide letter dated 27.10.2016.
11	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted & Agreed
12	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied <ul style="list-style-type: none"> For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2022 for the Class B Petroleum. Copy of the HSD license submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 25.11.2020 and there is no further change. EC Clearance from MOEF was obtained vide letter no. vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III. Fire NOC: Not Applicable. Civil Aviation: Not Applicable. Permission under Wildlife (Protection) Act, 1972: Not Applicable.
13	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change	Complied <ul style="list-style-type: none"> Environment clearance letter is published in "Indian Express" and "Gujarat Guardian" newspapers on dated 25th October 2016 which is within 7 days of from the date of the receipt of clearance letter. Copy of advertisement has been submitted to Regional Office MOEF on 28th October 2016 vide letter no APDPPL/MOEF-RO/01/2016. Copy of the same was submitted along with half-yearly compliance report vide letter no. APPPL-

Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
	at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.	EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
14	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied. The status of environment clearance conditions is available on company website that i.e., www.adaniports.com/ports-downloads
16	Any appeal against this Clearance shall lie with the National 18 Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of The National Green Tribunal, Act, 2010.	Noted.
17	A copy of the clearance letter shall be sent by the proponent to concern Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied <ul style="list-style-type: none"> Copy of the clearance letter is submitted to concerned Panchayat, Zila Parishad, local body and the local NGO by hand and registers speed post. Copy of the acknowledgement and receipt of speed post was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) , dated 28.11.2017. Copy of environment clearance is also available on company website i.e. www.adaniports.com/ports-downloads
18	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, the respective Zonal Office of CPCB and the SPCB.	Complied Compliance report of EC conditions is uploaded regularly & Same is being regularly submitted to concerned authorities. <ul style="list-style-type: none"> Compliance reports along with monitored data are available on company website i.e., www.adaniports.com/ports-downloads.
19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEFCC by email.	Complied <ul style="list-style-type: none"> Environment statement regularly being submitted to Gujarat Pollution Control Board. Last statement was submitted dated 27.05.2022. Copy of environment statement is also available on company website i.e., www.adaniports.com/ports-downloads Same has been sent by email to RO, GPCB, Bharuch, MS, GPCB(Gandhinagar) Regional office, Bhopal, MoEF & CC, CPCB & DoEF on 27.05.2022.

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken
1	The provisions of the CRZ Notification of 2011 shall be strictly adhered to by M/s APDPPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by M/s APDPPL	Complied. <ul style="list-style-type: none">All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006.No activity or work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.
2	The APDPPL shall ensure that there shall not be any blockage of creek and free flow of water is maintained	Complied. <ul style="list-style-type: none">APDPPL ensured no creeks are blocked due to project activity.
3	The APDPPL shall have to comply with the agreement made by them with GACL regarding re-routing of the pipeline of GACL and M/s APDPPL shall have to borne the cost as per agreement.	Complied. Re-routing of the pipeline of GACL has been completed and all expenditure has been borne by APDPPL.
4	The APDPPL shall not construct any storage facilities for material/chemicals in the CRZ area except for those permissible as per Annexure – II of the CRZ Notification -2011. Also for other Hazardous chemical, outside CRZ areas, the APDPPL shall have to consult SDMA for Disaster Management Plan.	Being Complied <ul style="list-style-type: none">APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.APDPPL has a well-defined DMP, and regular mock drills are being conducted. DMP is also reviewed at regular interval Last Mock drill was conducted on 22.09.2022. Last revision in the DMP was done on 01.07.2022.
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	Complied
6	The APDPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	Complied There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.
7	All the recommendation and suggestions given by Cholamanadalam MS Risk Services Limited, Chennai in their Environment Impact Assessment reports for conservation / protection and betterment of environment shall be implemented strictly by M/s APDPPL.	Being Complied <ul style="list-style-type: none">All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied.Copy of the status of EMP recommendations is enclosed as Annexure 4.
8	The construction and operational shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal/ marine habitats. The construction activities shall be carried out only under the guidance / supervision of the reputed institute/ organization.	Being Complied <ul style="list-style-type: none">Construction and operation activities are being done in such a way that there is no impact on the mangroves. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.Gujarat Maritime Board is regularly monitoring the project progress.
9	The construction debris and/or any other type of waste shall not be disposed of into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the	Complied <ul style="list-style-type: none">No debris or other construction waste is being disposed into the sea, creek or in CRZ areas.Reclamation of the area is being done as per the

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
	construction is over.	approval received.
10	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	Complied No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
11	M/s APDPPL shall prepare and regularly update the local oil spill contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency plan and shall submit the same to this Department after having it vetted through the Indian Coast Guard.	<ul style="list-style-type: none"> Oil Spill Contingency plan is prepared and resubmitted Tier 1OSR Facility Dahej port Terminals on dated 15.09.2022. Request letter for approval of Oil Spill Contingency plan submitted to the chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar vide letter dated 16/09/2020 Oil Spill Contingency plan is prepared and resubmitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018. Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. APDPPL has a well-defined DMP and regular mock drills are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 22.09.2022. Last revision in the DMP was done on 01.07.2022.
12	M/s APDPPL shall bear the cost of the external agency that may be appointed by this Department for supervision / monitoring of proposed activities and the impact of the proposed activities.	Noted and shall be complied.
13	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction	Complied. Jetty approach is already operational. No new jetty is proposed under the phase III development except the widening of rubble bund.
14	The ground water shall not be tapped within the CRZ areas by the APDPPL to meet the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement has been met through GIDC water supply.

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
15	M/s APDPPL shall take up massive greenbelt development activities in consultation with Forest Department / GEER Foundation / Gujarat Ecology commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Complying with. Green belt is being developed in an area of 23.54 Ha. including periphery of the project boundary. Detailed plan of the green belt development plan is enclosed as Annexure - 8 .
16	Mangrove plantation in 50 Ha. Shall be carried out in consultation with the Gujarat Ecology Commission/ Forest Department by M/s APDPPL within a period of two years from the date of issuance of the CRZ clearance by the MoEF&CC, GOI and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Complied. Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). And additional 50 Ha for Phase –III. Details of the same are given below. 5. 100 ha near village Dandi, Dist Surat– 2011 6. 50 ha near village Jakhau, Dist Kutch – 2011 7. 50 ha near Padri bit, Dist Bhavnagar – 2011 8. 200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I & II EC &CRZ clearance) 5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &CRZ clearance) Reports of 400 Ha Mangrove afforestation (Developed in Phase I & II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 The mangrove plantation (Phase –III) of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 29/05/2019.
17	The APDPPL shall have to take up bio-shielding development programme in consultation with the Forests Department/ PCCF and an action plan in this regard shall have to be submitted to the MoEF&CC – GOI and this department.	Complied Completion Report is received from M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report is attached as Annexure - 9 .
18	M/s APDPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector / District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of April 2022 to September 2022 is attached as Annexure – 5 .
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III			
Sr. no.	Conditions	Status/Action taken	
	plantation and details thereof shall be furnished to this department as well as the MoEF&CC, GOI. The details with respect to the expenditure from this budget head shall also be furnished alongwith the compliance report.	are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 235 lacs. Details of the environmental budget and expenditures for the past 3 years is enclosed as Annexure –7.	
20	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project	Complied. APDPL has a well-structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 6.	
21	Environmental Audit report indicating the changes, if any, with respect to the baseline environment quality in the coastal and marine environment shall be submitted every year by M/s APDPPL to this Department as well as to the MoEF&CC, GOI.	Being Complied The quality of ambient air treated wastewater from STP, sea water and sediment, ground water and noise levels is being monitored through M/s. Pollucon Laboratories, a NABL accredited agency. Ambient Air quality monitoring (twice in a week) and Noise level (once in a month) monitoring are being carried out. Summary of ambient air monitoring during compliance period form April 2022 to September 2022 as attached as Annexure 3A & 3G. The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise monitoring results during compliance period form April 2022 to September 2022 as attached as Annexure 3G. Piezometer's analysis results during compliance period form April 2022 to September 2022 as attached as Annexure 3B. Report confirms that there is no significant change in the quality in comparison to base line (wherever available)	
22	A six-monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s APDPPL on a regular basis to this Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	Complying with. <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports, which comprises of compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports, status of EMP etc. Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&II) dated 27.05.2022 in soft copy via mail dated 27.05.2022. Please refer below for the details regarding past 10 compliance submissions. 	
		Sr. No	Compliance Period
			Date of Submission

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III					
Sr. no.	Conditions	Status/Action taken			
		1	Apr'17 to Sep'17	28.11.2017	
		2	Oct'17 to Mar'18	28.05.2018	
		3	Apr'18 to Sep'18	23.11.2018	
		4	Oct'18 to Mar'19	29.05.2019	
		5	Apr'19 to Sep'19	20.11.2019	
		6	Oct'19 to Mar'20	20.05.2020	
		7	Apr'20 to Sep'20	25.11.2020	
		8	Oct' 20 to Mar' 21	25.05.2021	
		9	April '21 to Sep. '21	29.11.2021	
		10	Oct'21 to Mar'22	27.05.2022	
		<ul style="list-style-type: none"> Compliance reports along with monitored data are available on company website i.e. www.adaniports.com/ports-downloads Same is being regularly submitted to concerned authorities. 			
23	Any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection / management purpose shall also have to be complied with by M/s APDPPL.	Noted and agreed to comply with. .			



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

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Website : www.gpcb.gov.in

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

CCA AMENDMENT NO: AWH - 116434

NO: GPCB/BRCH-B/CCA-6 (7)/ID-31664/

DT: /03/2022

To,
M/s. Adani Petronet (Dahej) Port Pvt Ltd
At & PO: Lakhigam,
Tal: Vagra, Dist: Bharuch.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 201795 dated 02/09/2021.
(2) CCA No. AWH-109820 dated: 01/11/2020.
(3) CTE Amendment No: 111311 dated 22/02/2021

Sir,

This has reference to the CCA order no: AWH-109820 issued vide letter no. GPCB/BRCH-B/ CCA-06 (7)/ ID-31664/571845 dated 01/11/2020 which stands amended as under.

The Validity of this order shall be up to 16/07/2025.

1. Unit shall operate following facility:

Sr. No.	Name of Facility	Quantity/Capacity (MMTPM)		
		Existing	Proposed	Total
1.	Port/Jetty having facilities for storage and distribution of solid cargo handling facility	0.99	0.35	1.34

2. Specific conditions:

- Unit shall comply with all the conditions stipulated by MoEF & CC in the order of Environment Clearance & CRZ clearance issued vide letter no. F. No. 11-37/2007-IA III dated 14/10/2016.
- Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.
- Unit shall maintain ZLD.
- There shall be no change in water consumption, waste water generation and its mode of disposal due to proposed expansion.
- There shall be no change in fuel consumption and flue gas emission due to proposed expansion.
- There shall be no process gas emission due to proposed expansion.
- There shall be no change in Hazardous waste quantity / category due to proposed expansion.

- h) Unit shall follow coal storage and handling guideline framed by the Board.
3. All other conditions of the CCA order no: AWH-109820 issued vide letter no. GPCB/ BRCH-B/ CCA-06 (7)/ ID-31664/571845 dated 01/11/2020 shall remain unchanged.

FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD


(IRFAN KARGI)
DY. ENVIRONMENT ENGINEER

Outward No:625047,09/03/2022



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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A) CCA NO: AWH- 109820

NO: GPCB/BRCH-B/CCA-06(7)/ID-31664/

DT: _

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and control of pollution)-1981 and Authorization under rule 3(c) & 5(5) of the Hazardous waste (Management and Handling & Trans boundary movement) rules, 2008 framed under the Environmental (Protection) Act- 1986. This Board is empowered to Grant CC&A.

And whereas Board has received consolidated consent application letter No. 177366 dated 30.06.2020 for the Consolidated Consent and Authorization (CC & A) of this board under the provisions/ rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION

(Under the provisions/rules of the aforesaid environmental acts)

To,

M/s ADANI PETRONET (DAHEJ) PORT PVT LTD

AT & PO LAKHIGAM-392130

TAL- VAGRA,

DIST- BHARUCH.

1. **Consent Order No. AWH- 109820 date of issue 19.10.2020**
2. The consents shall be valid up to 16/07/2025 for use of outlet for the discharge of trade effluent and emission due to operation of Port/ Jetty having facilities for storage and Distribution of Solid Cargo handling facility of 0.99 MMTPM at Adani Petronet (Dahej) Port Pvt. Ltd. Village: - Lakhigam - 392130, Tal: - Vagra, District: - Bharuch.
3. **SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS: -**
 - 3.1 The applicant shall comply with the Environment Protection Act- 1986, Hazardous Waste (Management, Handling & Transboundary Movement) Rule-2008, Forest (Conservation) Act - 1980 and Rule - 1981. The Petroleum and Minerals Pipeline (Acquisition of Right of User land) Act 1962
 - 3.2 Necessary Clearance for the adequacy of safety measures shall be obtained from concerned authorities.
 - 3.3 The applicant shall obtain necessary permission for acquisition of land for infrastructure Corridors (Rail & Road) from the concerned authorities.
 - 3.4 On site - off site emergency plan & disaster management plan shall be prepared.

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ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

- 3.5 Application shall provide all required / adequate measures for controlling water pollution, air pollution and noise pollution resulting during construction phase & operation phase.
- 3.6 The applicant shall have to comply with the Manufacture, Storage and Import of Hazardous Chemicals Rule, 1989 framed under the Environment (Protection) Act-1986.
- 3.7 Adequate provisions infrastructure facilities such as water supply, road, sanitations etc. should ensure to avoid environmental degradation in the surrounding areas. These facilities should be brought into existence during the construction phase/ and will remain in existence therefore as per of the infrastructure built up in the area for local development purpose.
- 3.8 Adequate culverts should be provided in civil structures in the intertidal area to allow for freeflow of water.
- 3.9 All details regarding the mangrove belt and other forestation work must be worked out in consultation with the state forest department and details sent to GPCB.
- 3.10 Ground water extraction will not be allowed at any stage.
- 3.11 Adequate noise control measures should be ensured in various projects activities and due to increase in traffic, which is take place during construction and operation phase.
- 3.12 An organization structure should with latest R&D facilities and suitable equipment for environmental and forestry management activities through creation of environment management cell. Adequate funds should be earmarked for this cell.
- 3.13 To prevent discharge of bilge wastes sewage and other liquid wastes from the oil tankers/ships into marine environment, adequate system for collection treatment and disposal of waste must be provided as per provisions of MARPOL convention.
- 3.14 Solid waste shall be disposed of at approved landfill site.
- 3.15 All measures for control of environmental pollution shall be provided before putting the port terminal & storage facilities into operation and the responsibility for adhering to all norms of environment & pollution control shall rest with the project developer.
- 3.16 All design, contraction & operation philosophy as specified in the comprehensive marine environmental impact assessment will be adhered to.
- 3.17 A specific Oil Spill Response Plan shall be prepared before commissioning of the Project.

4. CONDITIONS UNDER THE WATER ACT: -

- 4.1 The quantity of total water consumption shall not exceed 4500 KL/day
- 4.2 The generation and disposal of the industrial effluent from the manufacturing process and other ancillary industrial operations shall be NIL.
- 4.3 The quantity of Sewage effluent from the factory shall not exceed 80KL/Day
- 4.4 The applicant shall provide adequate sewage treatment facilities in order to achieve the quality of the treated effluent.
- 4.5 Sewage shall be treated separately to conform to the following standards and utilized on land for irrigation / plantation.



GPCB

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- 4.6 80 KL/Day domestic sewage shall be treated separately in sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for irrigation/Plantation.

BOD (5 Days at 20° C)	Less than 20 mg/l
Total Suspended Solids (TSS)	Less than 30 mg/l
Residual Chlorine	Minimum 0.5 ppm

All efforts shall be made to remove colour & unpleasant odour as far as practicable.

- 4.7 The final treated effluent conforming to the above standards shall be discharged on land for irrigation plantation purpose within the premises only.

5 CONDITIONS UNDER THE AIR ACT: -

- 5.1 The following shall be used as fuel in D.G. Sets.

Sr. No.	Fuel	Quantity
1.	Diesel	12500 lit/day

- 5.2 The flue gas emission through stack attached to D.G. sets shall conform to the following standards.

Sr. No.	Stack attached to	Stack height (m)	APCM	Parameter	Permissible limit
1	DG set* 3000 KVA 4 nos. in phases	11m (for each DG)	--	PM	150 mg/NM3
2	DG set* 380 KVA 1 nos. in phases			SO2	100 ppm
3	DG set* 40 KVA 1 nos. in phases			NOX	50 ppm
4	DG set* 125 KVA 4 nos. in phases				

*It will be used only in case of failure of power supply.

- 5.3 There shall be no process emission from operation of I Jetty having facilities for Storage and Distribution of Cargo handling.
- 5.4 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

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- **Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.**
- **24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.**

- 5.5 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 5.6 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 5.7 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 5.8 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

6 AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See role 3 (c) & 5 (5))

Form for grant of authorization for occupier or operator handling hazardous waste

6.1 Number of authorization: - AWH-109820.

- 6.2 M/s. Adani Petronet (Dahej) Port Pvt Ltd is hereby granted an authorization to operate facility for Following hazardous wastes on the premises situated at AT & PO- LAKHIGAM-392130, TAL- VAGRA, DIST-BHARUCH.

Sr. No.	Type of Waste	Quantity	Category	Mode of disposal
1.	Sludge and filters contaminated with oil	10 MT/Year	I-3.3	Collection, storage, Transportation and Disposal by sent to approved CHWIF/ co-processing facility
2.	Used /Spent Oil	20 MT/Year	5.1	Collection, storage, transportation and disposal by utilized for lubrications of machine s & remaining selling to register refiners/re-processors

Outward No: 571845, 01/11/2020



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Website : www.gpcb.gov.in

3.	Wastes or residues containing Oil	10 MT/Year	I-5.2	Collection, storage, Transportation and Disposal by sent to approved CHWIF/co-processing facility
4.	Process wastes, residues & sludge(paint)	10 MT/Year	I-21.1	Collection, storage, Transportation and Disposal by sent to approved CHWIF/co-processing facility
5.	Empty barrels/containers/liners /contaminated with hazardous chemical/waste	10 MT/Year	I-33.1	Collection, Storage, Decontamination Transportation & disposal by selling to approved recyclers
6.	Contaminated cotton rags or other cleaning materials	10 MT/Year	I-33.2	Collection, storage, Transportation and Disposal by sent to approved CHWIF/co-processing facility

- 6.3 The authorization is granted to operate a facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes as per mode of disposal mention in table above.
- 6.4 The authorization shall be in force for a period up to date **16/07/2025**.
- 6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

7 TERMS AND CONDITIONS OF AUTHORISATION:

- 7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.

Clean Gujarat Green Gujarat

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

- 7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

**For and on behalf of
GUJARAT POLLUTION CONTROL BOARD**



(P.B. Patel)

Dy. ENVIRONMENT ENGINEER

Outward No:571845, 01/11/2020

Annexure – 2
Action taken on PH commitments

Status of the action item of public consultation points

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
1.	Shri Manaharbhai Gohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> Participating the public hearing he said that, he has studied the EIA report which is misleading. Five notices have been issued to the unit by GPCB but the data presented in the presentation are really shocking. There is increase in noise pollution due to company. All the improvements made by the unit are only during last three months. Tyre washing of Vehicle is not carried out. Equipment's purchased for maintaining cleanliness is not used regularly and there is no proper implementation of instructions given by GPCB through the notices. Further he made following observations /suggestions: <ol style="list-style-type: none"> Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road. Transportation of coal through trucks should be stopped. Precautions should be taken to avoid fire in coal storage area. "Court Commission" should be appointed for evaluation of current 		After completing his representation, he immediately left the venue.	Reply sent on 18 th March 2015 as he immediately left the venue. No further action is required. Copy already submitted to MoEF as a part of EIA Annexure -16.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<p>environmental condition of the company.</p> <ul style="list-style-type: none"> Finally, he told that he does not agree with the report of the company and raised strong objection against the expansion project of the company. He also pointed out that in the past three people already died due cargo vehicles of the company. 			
2.	Shri Pushkarsinh Rana, Village Dahej	<ul style="list-style-type: none"> He raised objection for selection of location for conducting Public Hearing and asked GPCB why Public Hearing is organized in Luvara village instead of Project site or Lakhigam itself and requested to appraise the site criteria for Public Hearing He asked that how many pages are used in EIA report and in comparison how many pages are used in Executive summary. He told that Executive Summary is of only 25 pages and that are very less as compared to pages of EIA report and it shows that company has hidden many 	<ul style="list-style-type: none"> Project Proponent informed that the decision rights for selection of location for the Public Hearing are with GPCB and normally PH location is decided based on the Notification of EC of MoEF. Representative of Project Proponent replied that EIA report is in three parts. EIA report included 268 pages, Annexures include 378 pages and appendix includes 264 pages making total report of 858 pages. Executive summary includes 25 pages. Executive Summary is prepared as per the guidelines under EIA Notification. The more pages are due to various annexures. 	<p>Regional Officer, GPCB clarified that w.r.t. selection of location for public hearing, the words used in the EIA notification are “at the project site or in close proximity” with this consideration as well as the availability of large ground area suitable for parking and accommodating as many people as possible, the Luvara village is selected as preferred location for public hearing as the same is 2 km away from the project site.</p> <p>Dist. Collector has informed to Project Proponent to communicate the changes made in the draft EIA</p>	<p>No further action required.</p> <p>No further action required.</p> <p>After obtaining CRZ recommendations from GCZMA vide their letter</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<p>information which is not acceptable to us. He also informed that this is a draft report only but the proponent never informing us whether clarifications are included in final EIA report or not?</p> <ul style="list-style-type: none"> • He asked the clarification whether project location is on land or in sea. Whether the land is allotted or not and who is owner of land? • What is meaning of MOEF? • As per Sr. No.6 table no.1.1 of Executive habitation in the villages or big town in expansion area. What is the location of Summary there is no expansion project 	<ul style="list-style-type: none"> • Project proponent informed that our port is functional and we have shown different components of the project in map. Two jetties in sea a trestle, rubble bund and back up area are already developed. Also, there is a railway yard for transportation of cargo. • The expansion proposed for carrying out reclamation is falling in intertidal area and therefore that land do not have any survey number. We have asked for permission and reclamation will be carried out after permission from MOEF. • The Project Proponent replied that MOEF stands for Ministry of Forest and Environment, Government of India • The project proponent replied that there is no habitation in the inter tidal land, proposed for reclamation 	<p>while finalizing the EIA to the concern representative.</p>	<p>14th March 2016, we have informed the concerned person about final EIA report for the proposed project and the source of availability on the MoEF website vide letter dated 17.03.2016 . No further action is required.</p> <p>No further action required</p> <p>No further action required.</p> <p>It is verified. No changes done.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> As per Sr. No.14 of table no.1.2 of Executive Summary, it is shown that Birla Copper is located at a distance of two km in North direction and Hindalco is located at a distance of 5.1 km in the North East direction. So two different locations are shown which is one location only He pointed out that in your report Sabarmati pond is shown and asked where it is located and from where this information you have gathered? He further aggressively clarified that people are living in these villages since many years and there is no Sabarmati Pond in existence in this area. Executive Summary includes widening of the Road and he asked which roads are to be widened. The proposed expansion is for the increase of capacity from 11.7 MMTP against the current actual handling which is less than 11.7 MMTP. So how pollution will be controlled for this expansion of capacity? 	<ul style="list-style-type: none"> The project proponent replied that verification will be done for Hindalco and Birla Copper and necessary changes will be made if, any. The Project Proponent has shown Map prepared and published by Survey of India in 2007 which shows Sabarmati pond. As per the instruction of Dist. Collector same is shown to Shri Pushkarsinh Rana The project proponent replied that proposal includes widening of the existing rubble bund which is inside the port. The project proponent replied that proposed expansion is for increasing the handling capacity from 11.7 MMTPA to 23 MMTPA and by doing this there will be reduction in pollution. We are having two jetties one in North direction and another in South direction. North Jetty is mechanized whereas In South jetty transportation of coal up to storage 	<p>Dist. Collector informed the villagers to make to the point representation and also drew their attention that if, they make proper representation then and then only their concern will reach to the appropriate authorities and we are here for the same purpose.</p>	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> The road starting from port up to Reliance is full of coal dust. Cleaning is going on since last 5 days only. High level of pollution is created in this area. This matter should come in writing. Equipment for cleaning of dust on the road is not used regularly. It is requested to show the details of equipment used in cleaning. The same is also informed to GIDC and GPCB but complaints have remained on papers only. Is there any role of GIDC in this matter? To whom we should approach when GIDC is allotting land to industries. This is the only platform where we can make the representation. Will there be any increase of capacity of railway loading silo and related infrastructure? 	<p>yard is being carried out through trucks. The proposed expansion includes mechanization of south jetty and transportation of coal through conveyor. Therefore, minimal transportation will be done through tucks. Therefore, there will be overall reduction in pollution due to 75% reduction of truck movement.</p> <ul style="list-style-type: none"> The Project Proponent informed that equipment for cleaning of road is used since last 1.5 years. In addition the company has purchased second equipment and same is also functional. The Project Proponent replied that Belt conveyor capacity is adequate and silo will be developed at the same place where one silo already exists. There is 	<p>Regarding the role of GIDC and GPCB, Dist. Collector clarified that Govt. is working for the people only.</p>	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> No employment is given to land looser of railway yard. Company should give Assurance for employment to land losers. The responsible officers of GIDC should also be required to remain present during Public Hearing. I am unable to understand data shown in 3.1 w.r.t. ambient air quality therefore, I request to explain He pointed out that as per Executive 	<ul style="list-style-type: none"> no requirement of new land for this purpose. Shri. Amish Trivedi, Representative of the project proponent replied that GIDC has allotted land on ROU basis and land for S&S yard given on lease basis. The Land acquisition is done as per agreement between land owner and GIDC. Company representative Mr. P. N. Roy chowdhury replied that there is no employment policy for land looser of ROU land. Only GIDC can answer on this issue. The project proponent replied that in India, norms of ambient air quality are already decided and parameters like PM10, PM2.5, SO₂NO_xetc are measured to decide the quality of ambient air. These parameters are decided by CPCB. If, these parameters are below the standards then they are acceptable. The results found during the study are within the acceptable limit, during study. The project proponent replied that as per the data of Gujarat, fisheries 		<p>action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<p>Summary 3.7.1 there is no fisheries and requested to inform the reason behind it. Fisherman have no option left and they have become unemployed for which companies are only responsible and therefore companies should provide employment to fishermen also.</p> <ul style="list-style-type: none"> As per Executive summary it is mentioned that tyre washing of vehicles is done but same is not being carried out. Company is doing transportation of coal through rail and truck. Dahej – IPCL road used for transportation of coal is passing 	<p>contribution of Bharuch is only 1% which is very less. Kutch is contributing 17%. Fisheries are of two types (i) Fisheries in sea and (ii) Fisheries of Jinga and other types in inland water. Adani company is not responsible for reduction in fisheries which is also evident from the following data (Gujarat State) Presence of Adani Company is since 2011.</p> <p>In 2004 when Adani was not presence the fisheries production was 7489 MT, in 2005-06 it was 8743 MT, in 2009-10 it was 14810 MT and in 2011-12 It was 12914 MT.</p> <ul style="list-style-type: none"> Project proponent replied that in proposed expansion project, for air pollution control, dust suppression system will be installed during construction activities, regular water sprinkling will be carried out on roads, tyre washing facilities to be provided to avoid carry forward of dust through tyres. The tyre washing facility will become functional from 1st June, 2015. Project proponent replied that we welcome your suggestions. Necessary survey will be done and appropriate steps will be taken. 		<p>Tyre washing facility is in place and other measures will be taken during construction and operation phase.</p> <p>No change in the route is required.</p>

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		<p>through Vadia village which is residential area and hotels are also located on that road. Instead of this, it is requested to use bypass road passing near GACL for the same.</p> <ul style="list-style-type: none"> I wish good luck to company with hope to do better work for environment. 	<ul style="list-style-type: none"> Project proponent conveyed thanks for his encouraging words. 		No further action required.
3.	Shri Jayatibhai Ahir Village - Luvara	<ul style="list-style-type: none"> I am Sarpanch of Luvara village. All companies are conducting public hearing and concerns of villages are considered. Our representations during public hearing of ONGC on the issues of storm water management of village are also to be considered. ONGC has helped villages in providing disposal system of rain water from village. Adani company has also helped for renovation of houses of Adivasis. Fishing nets are provided to fishermen. Adani company has sanctioned to build 55 houses out of 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. 		No further action required.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		which 11 houses are already constructed. There is reduction in air pollution after installation of belt conveyor belt by Adani company. It is also true that regular cleaning of roads are carried out by company.			
4.	Dahyabhai Ghanabhai Patel Village – Jageshwar	<ul style="list-style-type: none"> I do agree representation made by Manhabhai and Pushkarsinh. Conveyor belt should not be allowed through Jageshwar village. I hereby submit by representation in writing. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Written representation made by Shri Dahya bhai is accepted.	No further action required.
5.	Mayurdhvajsinh Village - Dahej	<ul style="list-style-type: none"> Officers of Adani Company are fooling villagers. 			
6.	Shri Nareshbhai Village - Lakhigam	<ul style="list-style-type: none"> This is expansion proposal for phase III. I request all to stay in Lakhigam and decide about pollution control. There is high level of pollution exists. What is the reason for 46 deaths in last 4-6 months? As shown in the report, monitoring is done at which locations in the village. 	<ul style="list-style-type: none"> Project proponent replied that with respect to ambient air parameters same are as shown in the table no. 3.1 of Executive summary. Monitoring equipment were placed at the (1) residence of Shri Dilipbhai in Luvara village, (2) residence of Shri Chhotubhai in Jageshwar village, (3) Residence of Shri Ganpatgiri in Ambetha village, (4) P J Chheda High School in Dahej and (5) Primary School in Lakhigam. 		

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> Pollution reaches to our houses and dust can be seen on the utensils for drinking water. Adani has manipulated with official record. There are issues for land losers and they do not get employment. We have to protest. All these expenses are also on the head on farmers. It is requested that company should provide employment to us on their own. Company should think about high pollution levels. 	<ul style="list-style-type: none"> This is false allegation and not acceptable to us. In existing project, out of 20 land losers 10 have been already given employment and for remaining 10 we have requested the families to give their nomination which we have not received from their side. The project proponent replied that they have already replied earlier to similar question. 		<p>No further action required.</p> <p>At present no action is pending</p> <p>No further action required.</p>
7	Shri Kalidas Rayjibhai Patel Sarpanch, Village - Jageshwar	<ul style="list-style-type: none"> In this region people are speaking wrong things. I would like to inform Dist. collector that poor people are exploited. Since 35 years people of Navinagari were not able to sleep peacefully and there was no repairing work was done for their houses but Adani foundation helped in renovation of 120 houses and also supported for food arrangement to masons while constructing houses. Nobody came for help from Taluka and District level. The plaster was falling in primary school classes, which was repaired by Adani Company. Camera system is also installed in High School 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. The project proponent has expressed thanks for appreciation. 		<p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> Training programs for beauty parlor were organized by Adani. So in general we are getting good support from the company. Pollution is of many types and local people are aware about that. It is requested to Dist. Collector to pay attention for pressured being created on local people by sarpanch for the work which is not done by them. Adani has provided fishing nets to fishermen. Adivasi's are cutting trees for their survival needs so they should be given some work. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. 		No further action required.
8	Shri Bhagwanbhai Gohil, Village Paniyadara	<ul style="list-style-type: none"> At which locations EIA reports should be made available EIA report is published on GPCB website is in English. Why it is not published in Gujarati. It should be also given in villages. What will happen If, concentration of PM10 in ambient air will increase from its limit of 100 mg/cum? Who will be responsible if, health of people will deteriorate. How much pollution will increase if, handling capacity increase from 11.7 MMTA to 23 MMTA. It is shown in the presentation that 	<ul style="list-style-type: none"> The project proponent replied that as per guidelines EIA report is prepared in English and executive summary is prepared in English as well as in Gujarati. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that any 	<p>Regional officer of GPCB replied that EIA report is made available at following offices</p> <ol style="list-style-type: none"> District collector office, Bharuch District Development office, Bharuch District Industries Centre, Bharuch Taluka Development office, Tal. VagraDist.Bharuch Chief Conservator of Forest, Bhopal Regional officer, GPCB, Bharuch 	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>APDPPL is committed to give priority to locals.</p>

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		<p>employment will be given to 1000-1300 people. We request that 85% of employment should be given to locals.</p> <ul style="list-style-type: none"> As per page No.53 of EIA report it is mentioned that there is no tourism place in this area. Whereas, Lakhabava temple is already exist than why it is not shown in report? It is requested to announce that problem of coal dust in Lakhabava temple should be controlled As per Sr.10 page No.53 of EIA report, it is mentioned that there are 50 fishermen are in Jageshwar village but fishermen are 	<p>project includes various phases like construction, transportation of goods etc. during construction phase employment will be given to 1000-1300 people. As per data of earlier two phase of development as of date 2/3 people are employed for transportation of goods are from Gujarat. Suitable action will be initiated on receipt of order for 85% employment of locals.</p> <ul style="list-style-type: none"> The project proponent replied that EIA report included tourism places as per records of Gujarat Govt. Lakhabava temple is not a declared tourism place as per published list of places hence not included. However, we respect the religious importance of the place. The project proponent replied that we are having sympathy with your feelings. We have already taken maximum measures for Lakhabava temple as well as carried plantations of trees and cleaning activities in that area. We accept your suggestion. The project proponent replied that we have collected these data from fisheries department. 		<p>No further action required.</p> <p>All the suggested measures are already taken and frequent cleaning will be done as and when needed. No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		exist in all villages. Govt. records are false and it is their negligence which is misused. Companies are getting information five days in advance regarding visit of GPCB.			
9	Shri Ramanbhai Patel, Village: Luvara	<ul style="list-style-type: none"> Whose development is this? Only companies are growing. It is told to youth that they are locals. Even educated people are not getting employment. 50 students of Luvara village has completed course of ITI under GOLS in 2010-11 organized by GIDC but this certificate is not accepted to companies in Dahej region. It is requested to close this GOLS ITI program because it is not recognized. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
10	Shri Dipakbhai Patel Village: Jageshwar	<ul style="list-style-type: none"> I am working in a company where candidates with ITI course completed thru GIDC are not eligible for Apprenticeship. Youth of village is not having employment. 		Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
11	Shri Niteshbhai Patel Village: Luvara	<ul style="list-style-type: none"> There are issues related to employment to land losers in this area and representation was made to previous collector madam but till date we have not received proper response. 		Dist. Collector has informed that he has come across this issue but as this is not related to this public hearing and It will be taken separately. Even instructions have also come from CMO in this regard. Regarding bogus ITI necessary actions will be taken from Dist. Collectrate Office.	No action required from company.

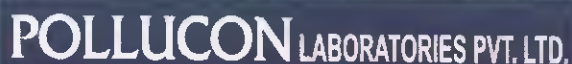
Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
12	Shri Sanjaybhai Gohil Village: Lakhigam	<ul style="list-style-type: none"> Officers of various companies provides medical van if, they have expansion project (i.e. when such public hearing to be faced) but if, anybody died near their gate they do not provide any ambulance. Companies are working like Britishers. There are incidences of two deaths on account of brain haemorrhage. Who will be responsible for ill health of children of villages 			No action required from company.
13	Shri Yogeshbhai Patel Village: Lakhigam	<ul style="list-style-type: none"> Can an arrangement for measurement of noise pollution in presence of village people be made? Conveyor belt is located near school which may impact due to high level of noise. 	<ul style="list-style-type: none"> Standards are defined for Noise pollution and measurements are also within the limits, GPCB may also do necessary inquiry. 	Collector has informed that GPCB will arrange for measurement of noise in presence of village people	No action required from company.
14	Shri Shankarbhai Rathod Village: Lakhigam NaviNagri	<ul style="list-style-type: none"> Adani foundation has provided support for raising the level of our houses and also constructed anganwadi Due to construction of jetty approach rock bund waters by Adani Company and Birla there is difference observed in currents of Sea which is impacting fishing activities. What will be the impact on fish due to proposed project. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. There will not be any impact on fish due to this proposed expansion 		<p>No further action required</p> <p>No further action required</p>
15	Shri Kishorbhai Rana Village: Dahej	<ul style="list-style-type: none"> Fishermen of this area are uneducated. It does not make any difference to them that who is running central government. They are in need of the survival of livelihood. I have uploaded the video on you tube for pollution created by Adani Company which you can see. Within the premises of Birla Copper around 100000 	<ul style="list-style-type: none"> Project proponent replied that your representation is right but Ports are necessary for the development of country. We have not created any hindrances or restricted access for fishing. They can continue the fishing activities. 		There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There

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		<p>Neem trees are planted where foot prints of coal dust is being observed while going to temple.</p> <ul style="list-style-type: none"> GIDC maps are getting revised as per the needs of the companies and village people are getting answer that again maps cannot be revised. It is requested to GPCB to provide contact numbers of the concern officer who can remain present at Dahej and may inspect the site on request through phone call while accident occur. 			<p>is no impact on fishermen livelihood due to project activity.</p> <p>No action required from company.</p>
16	Shri Pradeepbhai Thaker Member of Noise Pollution Environment Committee	<ul style="list-style-type: none"> I do agree the points raised by Shri Manhar Gohil and Shri Pushkar Rana. Company is not able to control the pollution in the present handling capacity than how permission can be given for increase in capacity, Company should be instructed for the improvement in six month and thereafter public hearing should be organized Company is carrying out the transportation of coal by over loading of the rail rack. There are no established rules and regulations for this. Dusting problem in Bharuch district is due to transportation of railway rack. If GPCB and MoEF ask than company says that this is the problem of railway. Medical check-up should be conducted in this area to know how many children are malnourished as well as how much 	<ul style="list-style-type: none"> The project proponent replied that issue is pertaining to Railway authority and the importer client. You may make representation before railway authority. 		No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<p>impact is occurring to their health.</p> <ul style="list-style-type: none"> Previously during the time of flood even after the request from Collector to provide support for “Chuno” no company has given any help so how their CSR activities can be considered. How much plantation is done? Source of Water and Power is not shown. Nobody had taken care for sprinkling of water during the incident of major fire occurred before two years. As per our suggestions, problems of ambient air quality have been reduced in one of the company in Ankleshwar. We are with the project but being Gujarati businessman you should take care of Gujarat The path for Narmada Parikrama is one km away from here and many people are coming from different regions. No officers from Dahej Industries Association is present in today’s public hearing File of project for producing pure water from sea water is lying on table of officer of GIDC since last two years for which even grant is approved by Government 			

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
		<ul style="list-style-type: none"> • Since, the time of IPCL request for the development of Hospital is made but till date it is on the paper • No additional quantity of drinking water is given to village people by GIDC but at the same time industries are provided more water • There is opposing of administration done by GIDC. The file has been put up to carry out plantation at local level but till date there is no clearance in this regard 	<ul style="list-style-type: none"> • The project proponent requested the representative to mention the village to which he belongs. 	Regional Officer of GPCB informed that Mr. Pradip Thaker is from Ankleshwar area but without clarifying his location in beginning he started representation.	No actions required from company.
17	Shri Dimpalben Varmora Moverix Culture and Codes foundation Village: Luvara, Dahej, Lakhigam	<ul style="list-style-type: none"> • We are running sports projects with support of Adani foundation. Using this sports platform we have done many good activities and some of the children have been taken to national level for sports competition. People have also expected same level of support from Adani Group. 	<ul style="list-style-type: none"> • The project proponent expressed thanks for her appreciation 		Adani foundation is continuing CSR activities in the region. Details are being regularly submitted to MoEF with compliance report and also are part of the presentation given to EAC during the meeting.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
18	Shri Rakesh Gohil Village: Lahigam	<ul style="list-style-type: none"> Who has prepared the EIA report and who has certified it No physical survey is carried out and during visit permission from Sarpanch should be taken How the mistake like mentioning the name of companies Hindalco and Birla Copper? I am not aware about their visit for physical survey With the issue of passing of Conveyor belt and w.r.t. the issue of land loser the company representative Mr. Trivedi always replies that we are making communication with GIDC but do not provide clarity. 	<ul style="list-style-type: none"> The project proponent replied that EIA report is prepared by M S Cholamandalam, Chennai which is QCI and NABET accredited agency. They have valid certificates. Base line survey, marine quality, government records and permissions as well as environment management plan are studied, reviewed and accordingly report is prepared There is adequate information covered in the report and survey is done as per the required procedure. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. 	Collector replied that for the issue of 200 land losers we will meet separately to resolve the issue.	No further action required
19	Shri Rekhaben Village: Jageshwar	<ul style="list-style-type: none"> We are thankful to Adani Company for providing us the training on beauty parlour. 	<ul style="list-style-type: none"> The project proponent expressed thanks for appreciation 		No further action required



Environment Monitoring Report for the period from April-22 To September-22

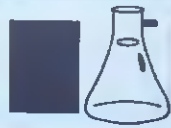
3A. AMBIENT AIR QUALITY MONITORING: -

Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near Marine Building

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	78.62	40.31	ND*	ND*	ND*	ND*	0.34	ND*	31.51	21.59	41.75	27.27
2	05/04/2022	88.12	48.20	0.64	ND*	2.46	10.67	0.48	ND*	43.12	26.12	44.87	22.25
3	08/04/2022	72.58	39.44	ND*	ND*	ND*	ND*	0.77	ND*	40.53	18.35	35.23	30.73
4	12/04/2022	85.66	49.53	ND*	ND*	ND*	ND*	1.00	ND*	47.52	22.45	38.57	23.46
5	15/04/2022	90.55	52.45	0.76	ND*	2.28	10.77	0.79	ND*	42.57	24.65	45.32	25.35
6	19/04/2022	71.51	36.82	ND*	ND*	ND*	ND*	0.87	ND*	45.31	20.65	40.38	21.26
7	22/04/2022	82.48	45.67	ND*	ND*	ND*	ND*	0.66	ND*	48.45	23.36	33.58	26.56
8	26/04/2022	87.57	50.25	0.62	ND*	2.34	10.46	0.42	ND*	35.98	19.33	46.30	28.45
9	29/04/2022	79.58	47.61	ND*	ND*	ND*	ND*	0.47	ND*	25.58	14.47	36.53	24.27
10	03/05/2022	85.68	48.92	0.80	ND*	2.46	10.49	0.93	ND*	45.33	23.53	40.22	25.32
11	06/05/2022	78.67	45.28	ND*	ND*	ND*	ND*	0.86	ND*	28.24	25.69	45.77	20.96
12	10/05/2022	73.54	34.76	ND*	ND*	ND*	ND*	0.80	ND*	34.23	22.09	37.65	23.42
13	13/05/2022	79.88	42.84	ND*	ND*	ND*	ND*	0.78	ND*	36.85	19.36	43.43	21.56
14	17/05/2022	69.33	30.23	ND*	ND*	ND*	ND*	0.90	ND*	44.03	16.79	35.44	24.66
15	20/05/2022	91.45	50.34	0.68	ND*	2.62	10.31	0.66	ND*	30.54	24.27	38.54	30.83
16	24/05/2022	76.84	46.37	ND*	ND*	ND*	ND*	0.87	ND*	37.66	21.55	44.54	28.47
17	27/05/2022	88.68	52.20	0.64	ND*	2.28	10.55	0.56	ND*	52.65	14.29	30.69	26.34
18	31/05/2022	82.08	43.30	ND*	ND*	ND*	ND*	0.85	ND*	46.53	17.55	33.97	29.44
19	03/06/2022	70.30	38.46	ND*	ND*	ND*	ND*	0.87	ND*	27.63	19.86	43.44	28.33
20	07/06/2022	75.62	34.51	ND*	ND*	ND*	ND*	0.90	ND*	32.78	17.40	35.66	30.23
21	10/06/2022	90.21	51.24	0.56	ND*	2.32	10.62	0.69	ND*	42.62	25.63	42.66	22.32
22	14/06/2022	81.25	45.32	ND*	ND*	ND*	ND*	0.95	ND*	46.53	27.81	45.69	20.94
23	17/06/2022	88.52	53.44	0.69	ND*	2.46	10.69	0.85	ND*	31.96	23.65	41.20	32.63
24	21/06/2022	79.67	48.52	0.57	ND*	2.56	10.57	0.37	ND*	36.82	21.24	37.22	29.15
25	24/06/2022	69.57	37.11	ND*	ND*	ND*	ND*	0.78	ND*	43.56	16.52	34.62	23.45

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26	28/06/2022	78.62	46.24	0.76	ND*	2.08	10.40	0.66	ND*	30.82	26.28	38.43	25.33
27	01/07/2022	78.43	45.70	ND*	ND*	ND*	ND*	1.08	ND*	20.82	20.89	44.59	30.14
28	05/07/2022	86.28	44.91	0.72	ND*	2.56	10.49	0.61	ND*	26.11	18.55	40.21	17.57
29	08/07/2022	67.38	32.18	ND*	ND*	ND*	ND*	0.97	ND*	40.16	21.31	34.34	25.49
30	12/07/2022	72.78	37.19	ND*	ND*	ND*	ND*	0.66	ND*	42.27	24.54	37.81	28.34
31	15/07/2022	82.62	42.58	0.64	ND*	2.38	10.57	0.53	ND*	37.66	17.84	43.58	23.46
32	19/07/2022	76.81	36.61	ND*	ND*	ND*	ND*	0.80	ND*	22.62	22.22	39.25	22.81
33	22/07/2022	68.60	34.69	ND*	ND*	ND*	ND*	0.32	ND*	35.83	25.16	35.24	26.25
34	26/07/2022	61.52	28.43	ND*	ND*	ND*	ND*	0.34	ND*	32.77	19.54	28.47	24.31
35	29/07/2022	77.52	41.20	ND*	ND*	ND*	ND*	0.55	ND*	28.12	16.86	42.46	15.69
36	02/08/2022	82.48	44.58	0.75	ND*	2.42	10.49	0.66	ND*	38.56	27.17	45.33	26.53
37	05/08/2022	72.66	37.21	ND*	ND*	ND*	ND*	0.76	ND*	30.35	16.48	38.55	29.12
38	09/08/2022	78.64	45.30	ND*	ND*	ND*	ND*	0.85	ND*	28.73	20.30	29.37	23.56
39	12/08/2022	85.61	48.63	0.80	ND*	2.75	10.69	0.81	ND*	44.47	21.48	41.52	25.89
40	16/08/2022	62.43	39.52	ND*	ND*	ND*	ND*	0.70	ND*	24.22	19.29	31.45	22.64
41	19/08/2022	75.64	35.44	ND*	ND*	ND*	ND*	0.61	ND*	37.58	26.14	36.16	18.56
42	23/08/2022	79.57	43.55	0.65	ND*	2.54	10.46	1.02	ND*	41.83	17.50	42.61	28.42
43	26/08/2022	65.93	40.50	ND*	ND*	ND*	ND*	0.95	ND*	35.18	22.47	35.88	30.22
44	30/08/2022	76.57	46.51	ND*	ND*	ND*	ND*	1.05	ND*	51.21	14.46	28.25	19.23
45	02/09/2022	77.55	41.24	0.62	ND*	2.24	10.43	0.72	ND*	41.53	19.31	32.47	23.24
46	06/09/2022	71.57	36.50	ND*	ND*	ND*	ND*	0.81	ND*	28.41	21.48	35.27	25.32
47	09/09/2022	66.32	34.25	ND*	ND*	ND*	ND*	1.03	ND*	37.76	25.67	43.13	28.39
48	13/09/2022	86.21	49.23	0.68	ND*	2.38	10.60	0.57	ND*	33.68	15.35	40.57	22.23
49	16/09/2022	75.62	38.56	ND*	ND*	ND*	ND*	0.48	ND*	27.26	24.39	44.20	29.45
50	20/09/2022	68.65	40.66	ND*	ND*	ND*	ND*	0.78	ND*	25.07	17.62	38.40	15.21
51	23/09/2022	81.26	44.27	0.59	ND*	2.15	10.37	0.98	ND*	31.52	20.67	36.55	30.27
52	27/09/2022	73.55	35.19	ND*	ND*	ND*	ND*	1.07	ND*	23.68	23.21	45.31	20.37
53	30/09/2022	80.27	45.36	ND*	ND*	ND*	ND*	0.40	ND*	35.68	13.61	39.57	27.86

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: $0.1 \mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: $0.1 \text{ mg}/\text{m}^3$, Benzene as C_6H_6 : $2 \mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: $0.5 \text{ ng}/\text{m}^3$, Arsenic as As: $2 \text{ ng}/\text{m}^3$, Nickel as Ni: $5 \text{ ng}/\text{m}^3$

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Table No.: 1.2 - Ambient Air Quality Monitoring Results At Near PMC Building

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	64.38	32.47	ND*	ND*	ND*	ND*	0.40	ND*	22.88	10.19	38.47	25.46
2	05/04/2022	71.57	38.43	ND*	ND*	ND*	ND*	0.68	ND*	29.12	17.70	29.23	14.43
3	08/04/2022	58.26	27.52	ND*	ND*	ND*	ND*	0.90	ND*	33.13	15.52	32.39	18.33
4	12/04/2022	51.51	24.84	ND*	ND*	ND*	ND*	0.64	ND*	19.22	20.56	35.40	22.68
5	15/04/2022	76.56	44.37	ND*	ND*	ND*	ND*	0.50	ND*	32.51	18.46	31.29	17.56
6	19/04/2022	67.57	29.41	ND*	ND*	ND*	ND*	0.97	ND*	21.68	11.63	28.52	19.63
7	22/04/2022	77.55	34.88	ND*	ND*	ND*	ND*	0.39	ND*	42.43	13.40	25.44	24.32
8	26/04/2022	65.34	28.68	ND*	ND*	ND*	ND*	0.19	ND*	26.56	16.46	37.56	13.45
9	29/04/2022	57.64	30.22	ND*	ND*	ND*	ND*	0.13	ND*	17.34	6.22	30.47	23.72
10	03/05/2022	72.77	39.31	ND*	ND*	ND*	ND*	0.68	ND*	18.54	16.48	28.41	17.67
11	06/05/2022	67.58	36.52	ND*	ND*	ND*	ND*	0.41	ND*	20.67	20.82	33.43	13.54
12	10/05/2022	51.58	24.21	ND*	ND*	ND*	ND*	0.47	ND*	28.17	12.57	25.34	19.27
13	13/05/2022	66.14	38.57	ND*	ND*	ND*	ND*	0.36	ND*	25.35	18.83	36.42	30.36
14	17/05/2022	53.83	20.98	ND*	ND*	ND*	ND*	0.38	ND*	29.92	11.27	19.45	23.54
15	20/05/2022	70.24	35.62	ND*	ND*	ND*	ND*	0.34	ND*	13.22	9.60	22.37	25.72
16	24/05/2022	65.75	27.47	ND*	ND*	ND*	ND*	0.55	ND*	23.42	14.24	34.22	16.32
17	27/05/2022	78.84	33.75	ND*	ND*	ND*	ND*	0.27	ND*	46.77	10.38	27.72	11.35
18	31/05/2022	48.23	17.38	ND*	ND*	ND*	ND*	0.37	ND*	36.26	15.62	24.43	24.83
19	03/06/2022	47.26	19.53	ND*	ND*	ND*	ND*	0.19	ND*	19.21	11.07	32.44	11.25
20	07/06/2022	52.62	25.67	ND*	ND*	ND*	ND*	0.25	ND*	13.91	6.83	19.34	16.77
21	10/06/2022	61.73	34.02	ND*	ND*	ND*	ND*	0.33	ND*	32.56	21.73	39.52	14.23
22	14/06/2022	76.82	39.63	ND*	ND*	ND*	ND*	0.53	ND*	35.25	23.37	37.55	27.97
23	17/06/2022	62.42	35.87	ND*	ND*	ND*	ND*	0.71	ND*	23.37	19.30	33.25	19.9
24	21/06/2022	68.23	43.09	ND*	ND*	ND*	ND*	0.57	ND*	25.41	15.60	30.42	22.67
25	24/06/2022	50.24	24.33	ND*	ND*	ND*	ND*	0.27	ND*	33.54	12.94	20.36	28.66
26	28/06/2022	63.46	36.54	ND*	ND*	ND*	ND*	0.50	ND*	18.27	20.26	35.43	15.2
27	01/07/2022	57.77	28.22	ND*	ND*	ND*	ND*	0.71	ND*	15.36	18.40	42.36	16.47
28	05/07/2022	72.63	37.31	ND*	ND*	ND*	ND*	0.33	ND*	21.53	16.57	24.25	19.53

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29	08/07/2022	46.21	21.28	ND*	ND*	ND*	ND*	0.29	ND*	27.56	19.21	26.51	23.57
30	12/07/2022	62.45	24.29	ND*	ND*	ND*	ND*	0.26	ND*	36.84	12.51	32.40	25.35
31	15/07/2022	77.57	39.48	ND*	ND*	ND*	ND*	0.58	ND*	33.52	15.67	36.44	15.51
32	19/07/2022	65.43	32.31	ND*	ND*	ND*	ND*	0.22	ND*	10.88	20.24	33.57	28.17
33	22/07/2022	58.46	25.70	ND*	ND*	ND*	ND*	0.36	ND*	18.66	17.53	25.14	12.91
34	26/07/2022	52.66	23.48	ND*	ND*	ND*	ND*	0.73	ND*	20.64	11.20	23.44	14.24
35	29/07/2022	73.52	38.60	ND*	ND*	ND*	ND*	0.18	ND*	37.97	8.68	31.51	18.41
36	02/08/2022	60.52	30.29	ND*	ND*	ND*	ND*	0.62	ND*	16.38	22.67	40.73	13.53
37	05/08/2022	67.36	24.30	ND*	ND*	ND*	ND*	0.42	ND*	27.68	17.27	35.36	25.99
38	09/08/2022	63.76	37.36	ND*	ND*	ND*	ND*	0.69	ND*	24.95	15.64	23.62	22.36
39	12/08/2022	73.23	31.59	ND*	ND*	ND*	ND*	0.37	ND*	32.66	10.52	26.44	20.67
40	16/08/2022	57.03	34.65	ND*	ND*	ND*	ND*	0.44	ND*	18.48	18.30	22.55	11.6
41	19/08/2022	64.58	25.33	ND*	ND*	ND*	ND*	0.38	ND*	21.94	16.34	29.45	15.36
42	23/08/2022	69.74	35.62	ND*	ND*	ND*	ND*	0.68	ND*	20.57	14.34	38.45	10.56
43	26/08/2022	45.43	18.30	ND*	ND*	ND*	ND*	0.26	ND*	14.51	19.43	33.63	18.33
44	30/08/2022	66.23	26.56	ND*	ND*	ND*	ND*	0.63	ND*	45.81	11.44	17.52	23.45
45	02/09/2022	61.17	32.43	ND*	ND*	ND*	ND*	0.26	ND*	31.28	14.20	19.55	18.31
46	06/09/2022	47.58	20.36	ND*	ND*	ND*	ND*	0.65	ND*	23.52	19.14	28.48	30.36
47	09/09/2022	59.36	28.44	ND*	ND*	ND*	ND*	0.31	ND*	26.38	17.40	37.27	19.52
48	13/09/2022	75.25	40.57	ND*	ND*	ND*	ND*	0.54	ND*	19.53	9.73	24.54	16.8
49	16/09/2022	64.53	30.24	ND*	ND*	ND*	ND*	0.21	ND*	21.91	16.10	35.41	20.57
50	20/09/2022	46.21	21.24	ND*	ND*	ND*	ND*	0.45	ND*	15.62	13.14	22.25	22.37
51	23/09/2022	70.55	38.46	ND*	ND*	ND*	ND*	0.50	ND*	13.55	11.55	32.53	28.23
52	27/09/2022	63.52	31.59	ND*	ND*	ND*	ND*	0.38	ND*	16.56	15.71	38.62	21.16
53	30/09/2022	57.55	35.64	ND*	ND*	ND*	ND*	0.41	ND*	25.35	18.31	33.58	13.75

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: $0.1 \mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: $0.1 \text{ mg}/\text{m}^3$, Benzene as C_6H_6 : $2 \mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: $0.5 \text{ ng}/\text{m}^3$, Arsenic as As: $2 \text{ ng}/\text{m}^3$, Nickel as Ni: $5 \text{ ng}/\text{m}^3$

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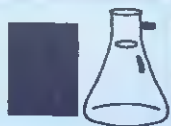


Table No.: 1.3 - Ambient Air Quality Monitoring Results At Sub-Station-7B Building

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	55.63	26.46	ND*	ND*	ND*	ND*	0.45	ND*	12.46	16.56	19.21	11.26
2	05/04/2022	76.51	35.28	ND*	ND*	ND*	ND*	0.71	ND*	20.33	12.60	23.68	17.25
3	08/04/2022	64.22	31.51	ND*	ND*	ND*	ND*	0.65	ND*	16.52	6.84	18.25	14.65
4	12/04/2022	73.46	42.45	ND*	ND*	ND*	ND*	0.85	ND*	24.53	9.54	14.54	20.21
5	15/04/2022	67.52	30.55	ND*	ND*	ND*	ND*	0.56	ND*	33.44	20.18	28.44	22.3
6	19/04/2022	47.68	18.53	ND*	ND*	ND*	ND*	0.60	ND*	37.54	15.20	25.73	15.35
7	22/04/2022	57.53	29.42	ND*	ND*	ND*	ND*	0.30	ND*	19.81	11.54	22.44	13.86
8	26/04/2022	77.52	41.36	ND*	ND*	ND*	ND*	0.24	ND*	23.61	13.87	33.45	18.53
9	29/04/2022	51.87	25.45	ND*	ND*	ND*	ND*	0.16	ND*	14.06	10.44	20.58	12.68
10	03/05/2022	50.33	22.29	ND*	ND*	ND*	ND*	0.50	ND*	13.57	8.62	16.34	21.64
11	06/05/2022	61.54	32.47	ND*	ND*	ND*	ND*	0.33	ND*	14.86	13.26	30.53	11.56
12	10/05/2022	44.36	16.65	ND*	ND*	ND*	ND*	0.70	ND*	20.25	18.44	21.24	17.22
13	13/05/2022	51.54	24.83	ND*	ND*	ND*	ND*	0.25	ND*	11.62	6.26	23.18	19.56
14	17/05/2022	42.27	14.85	ND*	ND*	ND*	ND*	0.31	ND*	32.77	15.35	32.42	20.27
15	20/05/2022	80.68	38.42	ND*	ND*	ND*	ND*	0.39	ND*	18.48	7.35	15.46	23.32
16	24/05/2022	60.56	33.18	ND*	ND*	ND*	ND*	0.63	ND*	28.66	9.74	24.66	25.44
17	27/05/2022	54.37	23.14	ND*	ND*	ND*	ND*	0.32	ND*	37.38	12.41	17.75	15.54
18	31/05/2022	67.66	26.94	ND*	ND*	ND*	ND*	0.62	ND*	25.24	14.68	22.97	13.35
19	03/06/2022	56.20	17.55	ND*	ND*	ND*	ND*	0.82	ND*	15.23	7.73	18.31	20.62
20	07/06/2022	60.21	31.53	ND*	ND*	ND*	ND*	0.54	ND*	18.51	14.95	22.31	18.02
21	10/06/2022	53.12	28.26	ND*	ND*	ND*	ND*	0.40	ND*	22.78	19.29	29.44	15.67
22	14/06/2022	64.54	36.26	ND*	ND*	ND*	ND*	0.38	ND*	27.82	16.07	19.92	21.75
23	17/06/2022	74.56	44.72	ND*	ND*	ND*	ND*	0.41	ND*	17.06	9.79	25.60	12.84
24	21/06/2022	55.67	33.54	ND*	ND*	ND*	ND*	0.24	ND*	12.67	11.92	21.22	14.54
25	24/06/2022	43.15	18.45	ND*	ND*	ND*	ND*	0.17	ND*	24.25	6.40	15.62	16.33
26	28/06/2022	68.23	26.36	ND*	ND*	ND*	ND*	0.47	ND*	14.57	17.04	28.23	19.53
27	01/07/2022	75.78	35.78	ND*	ND*	ND*	ND*	0.39	ND*	18.21	16.58	23.25	23.34
28	05/07/2022	58.31	20.22	ND*	ND*	ND*	ND*	0.48	ND*	12.26	8.24	32.69	16.87

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29	08/07/2022	42.55	18.61	ND*	ND*	ND*	ND*	0.84	ND*	33.91	11.97	20.33	20.13
30	12/07/2022	53.21	22.81	ND*	ND*	ND*	ND*	0.52	ND*	22.82	9.34	24.58	12.47
31	15/07/2022	67.26	30.89	ND*	ND*	ND*	ND*	0.23	ND*	26.56	12.64	31.12	18.2
32	19/07/2022	70.22	24.19	ND*	ND*	ND*	ND*	0.68	ND*	14.67	15.25	27.64	15.35
33	22/07/2022	51.55	17.48	ND*	ND*	ND*	ND*	0.42	ND*	23.64	13.52	16.47	19.63
34	26/07/2022	47.25	21.51	ND*	ND*	ND*	ND*	0.21	ND*	29.82	10.79	30.53	21.22
35	29/07/2022	64.28	28.30	ND*	ND*	ND*	ND*	0.41	ND*	17.33	6.43	21.62	14.58
36	02/08/2022	67.55	38.66	ND*	ND*	ND*	ND*	0.45	ND*	25.68	18.44	26.53	18.66
37	05/08/2022	52.34	22.79	ND*	ND*	ND*	ND*	0.31	ND*	26.95	6.86	18.27	22.44
38	09/08/2022	47.81	20.22	ND*	ND*	ND*	ND*	0.50	ND*	14.12	13.58	25.45	25.37
39	12/08/2022	61.56	24.52	ND*	ND*	ND*	ND*	0.47	ND*	19.01	20.48	33.58	14.35
40	16/08/2022	46.58	28.48	ND*	ND*	ND*	ND*	0.54	ND*	20.66	14.55	27.57	17.26
41	19/08/2022	60.17	19.62	ND*	ND*	ND*	ND*	0.36	ND*	11.67	19.62	22.44	20.43
42	23/08/2022	66.14	31.55	ND*	ND*	ND*	ND*	0.29	ND*	30.26	10.24	34.59	24.32
43	26/08/2022	50.23	23.43	ND*	ND*	ND*	ND*	0.18	ND*	22.28	12.37	13.28	12.67
44	30/08/2022	55.58	27.52	ND*	ND*	ND*	ND*	0.39	ND*	32.05	7.62	16.80	15.62
45	02/09/2022	70.58	37.62	ND*	ND*	ND*	ND*	0.17	ND*	26.56	9.58	16.83	13.53
46	06/09/2022	65.37	29.45	ND*	ND*	ND*	ND*	0.25	ND*	14.37	14.35	24.27	19.31
47	09/09/2022	43.54	17.50	ND*	ND*	ND*	ND*	0.76	ND*	17.56	10.89	17.26	24.63
48	13/09/2022	66.28	36.28	ND*	ND*	ND*	ND*	0.61	ND*	15.98	6.61	19.82	17.81
49	16/09/2022	58.27	26.32	ND*	ND*	ND*	ND*	0.36	ND*	11.55	8.54	30.15	14.38
50	20/09/2022	63.57	28.29	ND*	ND*	ND*	ND*	0.44	ND*	18.37	11.31	26.17	12.14
51	23/09/2022	50.22	23.43	ND*	ND*	ND*	ND*	0.60	ND*	22.46	7.83	15.62	16.54
52	27/09/2022	41.53	19.56	ND*	ND*	ND*	ND*	0.42	ND*	19.66	20.30	28.51	18.96
53	30/09/2022	53.41	25.37	ND*	ND*	ND*	ND*	0.53	ND*	23.81	16.50	22.44	20.78

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: $0.1 \mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: $0.1 \text{ mg}/\text{m}^3$, Benzene as C_6H_6 : $2 \mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: $0.5 \text{ ng}/\text{m}^3$, Arsenic as As: $2 \text{ ng}/\text{m}^3$, Nickel as Ni: $5 \text{ ng}/\text{m}^3$

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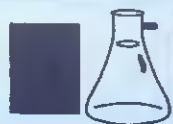
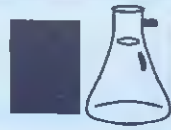


Table No.: 1.4 - Ambient Air Quality Monitoring Results At GCPTL Gate

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	42.42	17.56	ND*	ND*	ND*	ND*	0.38	ND*	13.83	12.46	25.33	19.44
2	05/04/2022	50.34	20.58	ND*	ND*	ND*	ND*	0.44	ND*	17.03	15.81	18.59	12.96
3	08/04/2022	55.47	28.69	ND*	ND*	ND*	ND*	0.21	ND*	10.25	19.48	32.47	11.36
4	12/04/2022	70.22	43.67	ND*	ND*	ND*	ND*	0.34	ND*	21.45	13.41	29.37	18.33
5	15/04/2022	56.57	19.64	ND*	ND*	ND*	ND*	0.14	ND*	12.52	8.81	15.68	24.85
6	19/04/2022	60.37	31.21	ND*	ND*	ND*	ND*	0.47	ND*	23.68	16.99	22.44	10.66
7	22/04/2022	48.68	18.52	ND*	ND*	ND*	ND*	0.19	ND*	15.83	9.82	26.83	16.33
8	26/04/2022	58.66	25.44	ND*	ND*	ND*	ND*	0.24	ND*	11.32	14.82	17.17	14.58
9	29/04/2022	51.96	27.84	ND*	ND*	ND*	ND*	0.22	ND*	14.32	10.22	24.37	17.39
10	03/05/2022	65.38	29.54	ND*	ND*	ND*	ND*	0.18	ND*	34.56	13.51	31.52	24.27
11	06/05/2022	57.61	26.46	ND*	ND*	ND*	ND*	0.52	ND*	15.36	9.36	22.46	15.64
12	10/05/2022	67.53	31.54	ND*	ND*	ND*	ND*	0.57	ND*	26.54	7.50	16.41	21.25
13	13/05/2022	60.36	33.57	ND*	ND*	ND*	ND*	0.22	ND*	18.72	17.26	26.45	12.78
14	17/05/2022	47.85	16.57	ND*	ND*	ND*	ND*	0.48	ND*	23.63	14.50	23.66	14.27
15	20/05/2022	64.33	25.69	ND*	ND*	ND*	ND*	0.58	ND*	25.42	15.44	30.74	16.84
16	24/05/2022	51.34	23.53	ND*	ND*	ND*	ND*	0.40	ND*	16.57	18.71	19.27	18.68
17	27/05/2022	72.03	36.42	ND*	ND*	ND*	ND*	0.44	ND*	32.98	11.98	21.39	13.66
18	31/05/2022	56.88	32.48	ND*	ND*	ND*	ND*	0.53	ND*	29.44	8.78	15.73	19.85
19	03/06/2022	43.67	14.69	ND*	ND*	ND*	ND*	0.44	ND*	21.72	16.97	23.16	12.93
20	07/06/2022	56.34	22.79	ND*	ND*	ND*	ND*	0.49	ND*	26.26	8.63	28.52	25.43
21	10/06/2022	73.16	32.67	ND*	ND*	ND*	ND*	0.46	ND*	14.64	15.25	25.16	19.25
22	14/06/2022	48.87	19.48	ND*	ND*	ND*	ND*	0.36	ND*	24.77	20.03	33.37	24.53
23	17/06/2022	54.27	30.17	ND*	ND*	ND*	ND*	0.65	ND*	20.17	13.58	21.52	16.22
24	21/06/2022	49.21	28.48	ND*	ND*	ND*	ND*	0.18	ND*	27.32	6.39	19.75	23.53
25	24/06/2022	64.65	25.70	ND*	ND*	ND*	ND*	0.39	ND*	30.48	11.80	31.22	11.48
26	28/06/2022	58.73	23.42	ND*	ND*	ND*	ND*	0.56	ND*	25.31	9.27	34.56	20.23
27	01/07/2022	66.34	25.20	ND*	ND*	ND*	ND*	0.82	ND*	13.15	11.58	26.48	26.32
28	05/07/2022	41.33	14.49	ND*	ND*	ND*	ND*	0.65	ND*	14.86	7.66	17.55	24.2

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29	08/07/2022	50.64	20.31	ND*	ND*	ND*	ND*	0.25	ND*	17.92	9.28	23.51	15.17
30	12/07/2022	58.62	30.09	ND*	ND*	ND*	ND*	0.77	ND*	28.91	15.37	28.61	17.87
31	15/07/2022	52.62	26.52	ND*	ND*	ND*	ND*	0.56	ND*	31.25	18.59	24.86	12.26
32	19/07/2022	54.27	18.41	ND*	ND*	ND*	ND*	0.30	ND*	16.27	12.43	20.47	10.95
33	22/07/2022	40.24	15.58	ND*	ND*	ND*	ND*	0.27	ND*	29.26	16.30	21.25	13.57
34	26/07/2022	35.64	17.53	ND*	ND*	ND*	ND*	0.69	ND*	24.23	8.46	16.66	19.44
35	29/07/2022	59.24	24.56	ND*	ND*	ND*	ND*	0.64	ND*	22.96	14.26	27.54	16.64
36	02/08/2022	71.67	35.34	ND*	ND*	ND*	ND*	0.53	ND*	28.34	12.52	32.17	24.24
37	05/08/2022	42.62	21.64	ND*	ND*	ND*	ND*	0.56	ND*	17.26	9.58	21.26	14.51
38	09/08/2022	56.88	27.53	ND*	ND*	ND*	ND*	0.30	ND*	20.03	18.61	36.42	17.51
39	12/08/2022	65.98	38.58	ND*	ND*	ND*	ND*	0.21	ND*	22.18	13.67	22.23	21.24
40	16/08/2022	50.65	22.66	ND*	ND*	ND*	ND*	0.49	ND*	13.15	11.61	16.56	13.18
41	19/08/2022	46.96	15.69	ND*	ND*	ND*	ND*	0.27	ND*	31.55	21.69	33.11	11.55
42	23/08/2022	54.38	18.66	ND*	ND*	ND*	ND*	0.60	ND*	24.01	8.68	28.87	26.42
43	26/08/2022	40.77	25.37	ND*	ND*	ND*	ND*	0.22	ND*	11.85	17.31	25.14	16.25
44	30/08/2022	60.27	23.53	ND*	ND*	ND*	ND*	0.74	ND*	29.34	10.82	19.34	20.39
45	02/09/2022	49.53	21.57	ND*	ND*	ND*	ND*	0.37	ND*	14.52	13.53	27.58	21.25
46	06/09/2022	54.38	23.49	ND*	ND*	ND*	ND*	0.18	ND*	18.26	16.36	19.47	13.18
47	09/09/2022	47.56	25.63	ND*	ND*	ND*	ND*	0.14	ND*	10.65	20.42	35.38	10.24
48	13/09/2022	57.56	29.57	ND*	ND*	ND*	ND*	0.52	ND*	12.66	8.61	16.29	26.66
49	16/09/2022	51.53	20.71	ND*	ND*	ND*	ND*	0.32	ND*	24.66	10.25	26.21	11.57
50	20/09/2022	42.47	13.59	ND*	ND*	ND*	ND*	0.71	ND*	22.56	14.80	31.54	20.67
51	23/09/2022	46.21	19.36	ND*	ND*	ND*	ND*	0.55	ND*	15.85	9.63	25.35	18.24
52	27/09/2022	53.66	26.35	ND*	ND*	ND*	ND*	0.30	ND*	13.28	12.45	23.44	23.63
53	30/09/2022	67.52	38.65	ND*	ND*	ND*	ND*	0.19	ND*	11.64	11.24	18.63	15.36

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3

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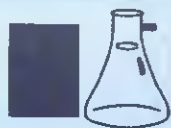


Table No.: 1.5 - Ambient Air Quality Monitoring Results At Near Silo Porta Cabin

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	45.32	18.42	ND*	ND*	ND*	ND*	0.55	ND*	20.64	9.61	16.52	18.26
2	05/04/2022	55.46	21.22	ND*	ND*	ND*	ND*	0.36	ND*	26.36	15.81	37.44	12.46
3	08/04/2022	47.57	16.36	ND*	ND*	ND*	ND*	0.46	ND*	30.56	10.50	17.53	19.31
4	12/04/2022	66.31	36.41	ND*	ND*	ND*	ND*	0.18	ND*	34.54	7.23	29.47	26.74
5	15/04/2022	70.22	39.20	ND*	ND*	ND*	ND*	0.57	ND*	15.65	14.83	24.22	20.58
6	19/04/2022	42.37	20.33	ND*	ND*	ND*	ND*	0.33	ND*	22.43	8.25	15.32	13.39
7	22/04/2022	50.31	24.56	ND*	ND*	ND*	ND*	0.44	ND*	28.52	17.61	19.51	16.25
8	26/04/2022	72.41	40.25	ND*	ND*	ND*	ND*	0.32	ND*	16.23	6.53	27.51	11.61
9	29/04/2022	67.51	37.64	ND*	ND*	ND*	ND*	0.41	ND*	19.33	12.46	23.45	25.8
10	03/05/2022	56.27	35.44	ND*	ND*	ND*	ND*	0.29	ND*	24.52	6.56	24.33	12.61
11	06/05/2022	48.66	22.53	ND*	ND*	ND*	ND*	0.26	ND*	12.53	18.22	27.57	22.62
12	10/05/2022	62.64	25.45	ND*	ND*	ND*	ND*	0.61	ND*	23.87	16.13	32.73	15.39
13	13/05/2022	55.67	27.63	ND*	ND*	ND*	ND*	0.45	ND*	15.46	12.70	19.77	24.32
14	17/05/2022	60.22	24.48	ND*	ND*	ND*	ND*	0.21	ND*	19.55	9.54	36.39	18.24
15	20/05/2022	76.07	33.48	ND*	ND*	ND*	ND*	0.65	ND*	10.34	11.65	26.52	14.52
16	24/05/2022	47.76	18.43	ND*	ND*	ND*	ND*	0.30	ND*	13.78	13.66	28.63	19.44
17	27/05/2022	65.38	26.54	ND*	ND*	ND*	ND*	0.46	ND*	38.68	8.24	16.65	21.88
18	31/05/2022	53.54	29.30	ND*	ND*	ND*	ND*	0.23	ND*	21.23	10.88	31.74	23.97
19	03/06/2022	51.20	22.32	ND*	ND*	ND*	ND*	0.60	ND*	25.74	13.48	20.27	16.54
20	07/06/2022	40.21	16.46	ND*	ND*	ND*	ND*	0.77	ND*	21.66	16.36	31.57	21.47
21	10/06/2022	57.54	24.56	ND*	ND*	ND*	ND*	0.52	ND*	26.65	8.78	18.61	11.14
22	14/06/2022	53.53	29.57	ND*	ND*	ND*	ND*	0.32	ND*	16.42	6.52	23.89	19.41
23	17/06/2022	58.43	23.53	ND*	ND*	ND*	ND*	0.61	ND*	11.84	17.55	29.32	23.37
24	21/06/2022	44.43	21.65	ND*	ND*	ND*	ND*	0.21	ND*	17.84	10.92	34.30	26.29
25	24/06/2022	55.36	14.60	ND*	ND*	ND*	ND*	0.22	ND*	15.51	7.52	24.22	15.34
26	28/06/2022	50.20	20.16	ND*	ND*	ND*	ND*	0.89	ND*	12.76	12.65	15.32	12.45
27	01/07/2022	54.94	21.79	ND*	ND*	ND*	ND*	0.47	ND*	11.21	14.63	17.35	18.56
28	05/07/2022	62.67	30.20	ND*	ND*	ND*	ND*	0.57	ND*	18.33	12.16	29.93	12.63

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29	08/07/2022	46.27	27.49	ND*	ND*	ND*	ND*	0.74	ND*	24.35	17.65	31.20	27.54
30	12/07/2022	43.13	18.49	ND*	ND*	ND*	ND*	0.19	ND*	13.82	19.36	25.32	15.44
31	15/07/2022	56.56	22.58	ND*	ND*	ND*	ND*	0.40	ND*	20.36	11.62	28.24	10.66
32	19/07/2022	49.25	14.62	ND*	ND*	ND*	ND*	0.76	ND*	19.44	7.54	30.29	19.23
33	22/07/2022	45.65	23.18	ND*	ND*	ND*	ND*	0.46	ND*	12.71	10.67	18.64	14.37
34	26/07/2022	40.65	19.53	ND*	ND*	ND*	ND*	0.60	ND*	10.58	15.33	21.75	17.33
35	29/07/2022	51.58	20.38	ND*	ND*	ND*	ND*	0.44	ND*	16.31	13.40	24.63	11.29
36	02/08/2022	56.27	25.45	ND*	ND*	ND*	ND*	0.19	ND*	20.38	17.45	23.55	20.85
37	05/08/2022	48.63	18.52	ND*	ND*	ND*	ND*	0.25	ND*	14.22	11.59	26.71	11.9
38	09/08/2022	43.41	14.53	ND*	ND*	ND*	ND*	0.41	ND*	23.22	9.31	28.72	19.53
39	12/08/2022	57.84	20.65	ND*	ND*	ND*	ND*	0.65	ND*	15.03	16.19	30.36	23.87
40	16/08/2022	40.36	15.48	ND*	ND*	ND*	ND*	0.32	ND*	19.83	8.18	19.52	15.23
41	19/08/2022	53.57	22.42	ND*	ND*	ND*	ND*	0.40	ND*	27.37	14.24	32.51	10.86
42	23/08/2022	62.67	24.56	ND*	ND*	ND*	ND*	0.34	ND*	16.21	6.55	15.52	13.23
43	26/08/2022	58.16	31.64	ND*	ND*	ND*	ND*	0.46	ND*	21.82	13.25	20.57	21.86
44	30/08/2022	50.21	19.59	ND*	ND*	ND*	ND*	0.23	ND*	26.38	12.40	22.66	24.56
45	02/09/2022	45.23	24.53	ND*	ND*	ND*	ND*	0.62	ND*	19.21	10.56	24.64	16.62
46	06/09/2022	39.36	15.65	ND*	ND*	ND*	ND*	0.33	ND*	16.34	7.60	17.55	10.91
47	09/09/2022	56.41	20.63	ND*	ND*	ND*	ND*	0.24	ND*	11.71	14.67	22.53	23.51
48	13/09/2022	61.24	33.42	ND*	ND*	ND*	ND*	0.49	ND*	28.96	11.69	31.83	18.46
49	16/09/2022	48.63	18.62	ND*	ND*	ND*	ND*	0.15	ND*	13.77	18.16	33.36	24.19
50	20/09/2022	51.53	25.30	ND*	ND*	ND*	ND*	0.56	ND*	21.38	6.45	15.59	13.42
51	23/09/2022	64.23	31.23	ND*	ND*	ND*	ND*	0.23	ND*	24.33	13.23	23.56	25.58
52	27/09/2022	49.31	22.64	ND*	ND*	ND*	ND*	0.34	ND*	18.53	16.19	18.55	14.54
53	30/09/2022	62.48	32.42	ND*	ND*	ND*	ND*	0.93	ND*	20.37	8.35	27.21	17.52

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3


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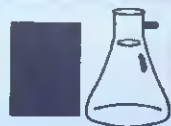
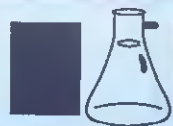


Table No.: 1.6 - Ambient Air Quality Monitoring Results At JS – 2 Junction

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2022	70.23	35.49	ND*	ND*	ND*	ND*	0.94	ND*	38.46	12.58	35.37	21.55
2	05/04/2022	83.21	43.65	0.61	ND*	2.34	10.34	1.01	ND*	34.23	20.33	39.44	19.21
3	08/04/2022	68.43	36.53	ND*	ND*	ND*	ND*	1.09	ND*	37.67	16.27	29.86	26.80
4	12/04/2022	79.51	45.35	ND*	ND*	ND*	ND*	1.05	ND*	43.52	18.67	32.44	29.43
5	15/04/2022	85.46	49.64	0.52	ND*	2.18	10.40	0.72	ND*	39.53	22.67	36.23	14.22
6	19/04/2022	62.68	25.64	ND*	ND*	ND*	ND*	1.08	ND*	42.62	19.20	34.82	20.43
7	22/04/2022	72.41	37.55	ND*	ND*	ND*	ND*	0.54	ND*	31.85	21.21	37.66	15.49
8	26/04/2022	82.46	46.25	0.58	ND*	2.24	10.22	0.37	ND*	19.43	10.77	40.23	23.61
9	29/04/2022	74.51	42.43	ND*	ND*	ND*	ND*	0.89	ND*	24.24	15.21	33.27	28.39
10	03/05/2022	78.53	44.27	0.71	ND*	2.34	10.34	0.54	ND*	42.54	21.44	37.58	15.48
11	06/05/2022	71.22	38.33	ND*	ND*	ND*	ND*	0.60	ND*	23.58	16.22	36.25	24.56
12	10/05/2022	57.34	28.35	ND*	ND*	ND*	ND*	0.94	ND*	32.43	18.34	30.23	13.49
13	13/05/2022	73.42	35.34	ND*	ND*	ND*	ND*	0.71	ND*	30.25	10.24	39.26	27.52
14	17/05/2022	65.68	26.06	ND*	ND*	ND*	ND*	0.81	ND*	18.65	7.43	28.51	16.52
15	20/05/2022	85.34	43.58	0.64	ND*	2.45	10.28	0.73	ND*	20.52	22.46	35.21	28.57
16	24/05/2022	70.37	41.75	ND*	ND*	ND*	ND*	0.84	ND*	36.35	11.58	38.48	23.85
17	27/05/2022	83.25	45.72	0.52	ND*	2.12	10.41	0.95	ND*	44.13	9.20	15.25	18.47
18	31/05/2022	72.27	36.05	ND*	ND*	ND*	ND*	0.72	ND*	40.46	19.65	27.46	21.13
19	03/06/2022	60.30	25.22	ND*	ND*	ND*	ND*	1.07	ND*	37.14	22.56	36.21	25.65
20	07/06/2022	65.22	28.31	ND*	ND*	ND*	ND*	0.72	ND*	29.06	10.78	25.28	22.77
21	10/06/2022	78.62	44.84	0.53	ND*	2.18	10.48	0.62	ND*	38.72	13.52	22.14	20.33
22	14/06/2022	68.73	42.85	ND*	ND*	ND*	ND*	0.84	ND*	42.77	24.54	41.58	28.48
23	17/06/2022	79.85	47.05	0.66	ND*	2.36	10.29	0.97	ND*	26.57	15.21	32.93	11.93
24	21/06/2022	73.77	37.62	0.55	ND*	2.42	10.37	0.29	ND*	30.25	18.44	28.98	15.45
25	24/06/2022	58.76	31.91	ND*	ND*	ND*	ND*	0.63	ND*	39.21	9.57	26.22	26.35
26	28/06/2022	71.27	29.42	0.64	ND*	2.06	10.15	0.58	ND*	21.87	16.25	23.46	17.26
27	01/07/2022	73.65	31.19	ND*	ND*	ND*	ND*	0.63	ND*	25.45	12.28	38.81	21.56
28	05/07/2022	78.63	40.81	0.56	ND*	2.42	10.26	0.88	ND*	31.37	17.25	35.45	28.73

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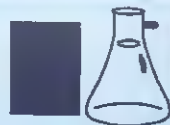
29	08/07/2022	63.57	29.50	ND*	ND*	ND*	ND*	0.72	ND*	41.24	14.31	29.33	22.13
30	12/07/2022	67.64	27.59	ND*	ND*	ND*	ND*	1.04	ND*	34.03	20.62	34.20	23.82
31	15/07/2022	70.68	33.42	0.62	ND*	2.21	10.37	0.79	ND*	27.44	10.37	26.24	26.48
32	19/07/2022	52.61	26.60	ND*	ND*	ND*	ND*	0.37	ND*	24.62	16.29	36.23	17.74
33	22/07/2022	64.54	30.48	ND*	ND*	ND*	ND*	0.92	ND*	32.35	19.46	31.76	24.54
34	26/07/2022	56.62	25.64	ND*	ND*	ND*	ND*	1.03	ND*	30.07	13.24	25.46	16.15
35	29/07/2022	69.32	34.23	ND*	ND*	ND*	ND*	0.50	ND*	19.34	9.66	28.35	25.17
36	02/08/2022	75.61	42.63	0.65	ND*	2.24	10.37	0.33	ND*	32.83	24.66	30.46	16.58
37	05/08/2022	60.34	34.32	ND*	ND*	ND*	ND*	0.64	ND*	24.14	14.85	33.46	19.37
38	09/08/2022	67.54	40.81	ND*	ND*	ND*	ND*	0.82	ND*	16.66	11.22	31.54	27.53
39	12/08/2022	76.97	28.95	0.75	ND*	2.65	10.21	0.55	ND*	39.53	18.58	38.16	30.84
40	16/08/2022	52.82	31.24	ND*	ND*	ND*	ND*	0.57	ND*	15.58	16.40	24.65	24.83
41	19/08/2022	68.21	29.60	ND*	ND*	ND*	ND*	0.52	ND*	35.23	23.66	26.62	13.47
42	23/08/2022	73.97	38.25	0.52	ND*	2.46	10.90	0.71	ND*	37.65	12.86	41.73	21.65
43	26/08/2022	61.23	35.57	ND*	ND*	ND*	ND*	0.88	ND*	29.95	20.20	28.57	25.44
44	30/08/2022	72.68	33.25	ND*	ND*	ND*	ND*	0.77	ND*	40.26	15.50	25.67	17.67
45	02/09/2022	65.43	27.58	0.58	ND*	2.16	10.18	1.02	ND*	35.28	17.51	29.45	24.26
46	06/09/2022	59.67	32.57	ND*	ND*	ND*	ND*	0.74	ND*	20.63	9.29	31.23	26.25
47	09/09/2022	52.65	19.56	ND*	ND*	ND*	ND*	0.64	ND*	31.88	24.81	40.26	30.57
48	13/09/2022	81.27	45.29	0.65	ND*	2.24	10.31	0.82	ND*	23.48	13.45	28.64	20.28
49	16/09/2022	71.52	34.54	ND*	ND*	ND*	ND*	0.29	ND*	17.45	22.42	42.82	15.46
50	20/09/2022	58.61	31.25	ND*	ND*	ND*	ND*	0.90	ND*	28.72	19.54	35.59	18.67
51	23/09/2022	76.53	41.55	0.51	ND*	2.36	10.23	0.46	ND*	26.94	10.49	27.67	22.45
52	27/09/2022	57.57	28.55	ND*	ND*	ND*	ND*	0.94	ND*	11.85	14.14	32.27	27.52
53	30/09/2022	75.33	42.57	ND*	ND*	ND*	ND*	0.68	ND*	32.82	20.32	36.75	11.68

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

Note: ND*: Not Detected, Detection Limit, Lead as Pb: $0.1 \mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: $0.1 \text{ mg}/\text{m}^3$, Benzene as C_6H_6 : $2 \mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: $0.5 \text{ ng}/\text{m}^3$, Arsenic as As: $2 \text{ ng}/\text{m}^3$, Nickel as Ni: $5 \text{ ng}/\text{m}^3$

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: April-22 To September-22****3B.1 Near Sub Station-7B**

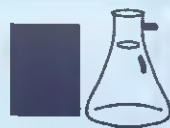
SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
1	Temperature	°C	30.7	30.3	30.1	29.8	28.9	30.1
2	pH	--	8.14	7.91	8.13	8.21	8.16	7.14
3	Total Dissolved Solids	mg/L	648	1093	1175	1208	1240	826
4	Salinity	ppt	0.140	0.250	0.263	0.280	0.240	0.310
5	Chloride as Cl	mg/L	76.97	1360	146	159	168	174
6	Depth of Water Level from Ground Level	meter	1.5	1.5	1.5	1.5	1.5	1.5
7	Status of Tide	--	Law Tide	Law Tide	Law Tide	Law Tide	Law Tide	Law Tide

3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
1	Temperature	°C	30.8	30.2	30.1	29.6	28.6	30.0
2	pH	--	8.12	7.96	8.05	8.17	8.24	7.37
3	Total Dissolved Solids	mg/L	656	1028	1093	1156	1164	658
4	Salinity	ppt	0.140	0.220	0.249	0.270	0.210	0.350
5	Chloride as Cl	mg/L	75.97	123	138	149	154	193
6	Depth of Water Level from Ground Level	meter	2.0	1.5	1.5	1.5	1.5	1.0
7	Status of Tide	--	Law Tide	Law Tide	Law Tide	Law Tide	Law Tide	Law Tide

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3C. SEA WATER (SURFACE & BOTTOM) QUALITY ANALYSIS MONITORING:-

Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period: April-22 To September-22:-

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			Apr-22		May-22		Jun-22		Jul-22		Aug-22		Sep-22	
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.15	8.1	8.14	8.1	8.19	8.12	8.27	8.24	8.35	8.30	7.98	7.87
2	Temperature	°C	30.5	30.4	30.3	30	30.2	30	30.3	30.1	29.7	29.6	29.5	29.3
3	Total Suspended Solids	mg/L	193	178	205	190	216	197	185	172	204	193	217	208
4	BOD (3 Days @ 27 °C)	mg/L	3.36	2.97	3.26	3.14	2.84	2.49	3.26	3.15	2.36	2.10	3.50	2.60
5	Dissolved Oxygen	mg/L	5.95	5.80	5.95	5.80	6.00	5.95	5.95	5.85	6.00	5.80	5.90	5.75
6	Salinity	ppt	34.52	34.86	35.20	35.56	34.97	35.28	34.28	34.97	34.58	34.72	33.70	34.28
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	µmol/L	3.29	3.14	3.54	3.40	2.83	2.67	3.14	2.93	2.63	2.41	3.56	3.40
9	Nitrite as NO ₂	µmol/L	0.95	0.87	0.67	0.53	0.64	0.58	0.79	0.65	0.28	0.20	0.41	0.35
10	Ammonical/Nitrogenas NH ₃	µmol/L	2.23	2.16	2.25	2.14	1.97	1.83	2.15	2.10	1.89	1.77	2.19	2.08
11	Phosphates as PO ₄	µmol/L	2.56	2.40	2.49	2.38	2.35	2.28	1.98	1.87	2.35	2.23	2.56	2.41
12	Total Nitrogen	µmol/L	6.47	6.17	6.46	6.07	5.44	5.08	6.08	5.68	4.80	4.38	6.16	5.83
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	35128	35946	36284	36612	36124	36408	35529	36125	35708	35914	34899	35478
15	COD	mg/L	14.95	13.68	14.30	13.46	12.38	10.64	14.68	13.24	9.10	7.60	13.60	11.70
A	Phytoplankton													
16.1	Chlorophyll	mg/m ³	2.63	2.56	2.67	2.38	2.37	2.13	2.53	2.48	2.29	2.24	2.53	2.48
16.2	Phaeophytin	mg/m ³	0.31	0.48	0.15	0.31	0.97	1.19	0.51	0.92	1.24	1.01	0.51	0.92
16.3	Cell Count	Unit x 10 ³ /L	178	124	172	114	210	162	220	178	196	164	214	174
16.4	Name of Group Number and name of group species of each group	--	Odontella sp., Cheatoceros sp., Thalassiothrix sp., Coscinodiscus sp.	Ceratium sp., Navicula sp., Nitzschia sp., Pleurosigma sp.	Amphora sp., Chaetoceros sp., Guinardia sp., Odontella sp.	Navicula sp., Ceratium sp., Pleurosigma sp., Tricodesmium sp.	Coscinodiscus sp., Nitzschia sp., Asterionella sp., Guinardia sp., Melosira sp.	Navicula sp., Cyclotella sp., Pleurosigma sp., Synderella sp.	Chaetoceros sp., Ceratium sp., Guinardia sp., Odontella sp., Melosira sp.	Navicula sp., Nitzschia sp., Pleurosigma sp., Rhizosolenia sp.	Odontella sp., Rhizosolenia sp., Chaetoceros sp., Guinardia sp., Pleurosigma sp., Fragillaria sp., Melosira sp.	Navicula sp., Tricodesmium sp., Pleurosigma sp., Guinardia sp., Fragillaria sp.	Coscinodiscus sp., Asterionella sp., Melosira sp., Spirulina sp., Thallasiosira sp.	Naviculasp., Nitzschia sp., Fragillaria sp., Closterium sp., Pleurosigma sp.
Continue...														

Continue...

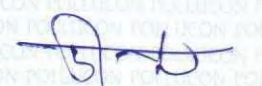
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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
			South Side	South Side	South Side	South Side	South Side	South Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	22	27	24	31	34	24
17.2	Name of Group Number and name of group species of each group	--	Cyclops, Polychaetes, Ostracods, Nauplius larvae.	Polychaetes , Bivalves, Gastropod , Copepods	Polychaetes , Bivalves, Gastropods	Polychaetes , Bivalves, Crustaceans, Copepods	Polychaetes , Decapods, Gastropod , Amphipods, Copepods	Cyclops, Nauplius larvae, Ostracods, Polychaetes
17.3	Total Biomass	ml/100 m ³	2.10	2.65	2.35	2.95	3.15	2.25
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2470	2420	2380	2250	2720	2610
18.2	Total Coliform	/ml	Present	Present	Present	Present	Present	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present	Present	Present	Present	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Water.


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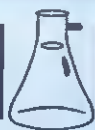


Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: April-22 To September-22:-

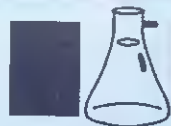
SR. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			Apr-22		May-22		Jun-22		Jul-22		Aug-22		Sep-22	
			26/04/22		28/05/22		30/06/22		29/07/22		26/08/22		14/09/22	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.17	8.12	8.19	8.16	8.23	8.18	8.29	8.25	8.40	8.35	7.99	7.92
2	Temperature	°C	30.6	30.4	30.4	30.1	30.3	30.1	30.2	30	29.8	29.6	29.7	29.5
3	Total Suspended Solids	mg/L	187	173	203	185	217	198	186	164	213	189	228	214
4	BOD (3 Days @ 27 °C)	mg/L	3.20	2.89	3.00	2.94	2.94	2.86	3.37	3.12	2.47	2.30	3.40	2.68
5	Dissolved Oxygen	mg/L	5.90	5.75	5.90	5.75	6.05	5.90	5.95	5.90	6.05	5.85	5.95	5.80
6	Salinity	ppt	34.60	34.98	35.32	35.94	34.86	35.32	34.49	34.80	34.68	34.96	33.67	34.39
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	µmol/L	3.35	3.25	3.46	3.30	2.91	2.70	3.08	2.84	2.48	2.37	3.29	3.18
9	Nitrite as NO ₂	µmol/L	0.89	0.81	0.65	0.59	0.62	0.57	0.71	0.69	0.23	0.16	0.55	0.47
10	Ammonical Nitrogen as NH ₃	µmol/L	2.34	2.28	2.37	2.30	2.18	2.03	2.37	2.28	1.95	1.83	2.27	2.18
11	Phosphates as PO ₄	µmol/L	2.47	2.36	2.28	2.20	2.31	2.24	2.15	2.07	2.27	2.19	2.39	2.25
12	Total Nitrogen	µmol/L	6.58	6.34	6.48	6.19	5.71	5.30	6.16	5.81	4.66	4.36	6.10	5.83
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	35706	36084	36380	36958	35990	36412	35674	35982	35804	36130	34893	35578
15	COD	mg/L	14.28	12.76	14.96	13.12	13.18	12.93	14.73	13.28	9.80	8.20	14.80	12.30
A	Phytoplankton													
16.1	Chlorophyll	mg/m ³	2.56	2.40	2.68	2.33	2.56	2.24	2.69	2.32	2.58	2.40	2.67	2.42
16.2	Phaeophytin	mg/m ³	0.44	0.23	0.13	0.30	0.76	0.97	0.54	0.84	0.38	1.04	0.56	0.82
16.3	Cell Count	Unit x 10 ³ /L	184	116	164	116	184	108	234	172	210	192	226	185
16.4	Name of Group Number and name of group species of each group	--	Melosira sp., Thalassionema sp., Coscinodiscus sp., Gyrodinium sp., Rhizosolenia sp.	Nitzschia sp., Asterionella sp., Navicula sp., Synedra sp., Cosmarium sp.	Guinar dia sp., Rhizosolenia sp., Coscinodiscus sp., Trichodesmium sp., Chaetoceros sp., Odontella sp.	Nitzschia sp., Navicula sp., Pleurosigma sp., Skelettonema sp., Syndra sp.	Syndra sp., Coscinodiscus sp., Guinar dia sp., Odontella sp.	Spirulina sp., Closterium sp., Navicula sp., Nitzschia sp.	Skelettonema sp., Coscinodiscus sp., Guinar dia sp., Trichodesmium sp., Rhizosolenia sp.	Nitzschia sp., Synedra sp., Cerati um sp., Synedra sp., Fragillaria sp.	Amphiprora sp., Guinar dia sp., Thalassiosira sp., Chaetoceros sp., Odontella sp.	Nitzschia sp., Trichodesmium sp., Melosira sp., Fragillaria sp.	Coscinodiscus sp., Asterionella sp., Spirulina sp., Odontella sp., Chaetoceros sp.	Navicula sp., Nitzschia sp., Pleurosigma sp., Thalassionema sp., Fragillaria sp.

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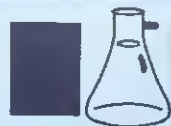


Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSISNORTH SIDE					
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
			North Side	North Side	North Side	North Side	North Side	North Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	20	28	25	30	36	29
17.2	Name of Group Number and name of group species of each group	--	Colpoda sp., Isopods, Polychaetes sp.	Polychaetes , Copepods, Gastropod	Polychaetes , Gastropods, Bivalves, Amphipods	Polychaetes, Crustaceans, Copepods	Bivalves, Gastropod, Copepods, Polychaetes	Polychaetes, Cyclops, Ostracods, Bivalves
17.3	Total Biomass	ml/100 m ³	2.05	2.75	2.45	2.90	3.45	2.70
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2710	2350	2610	2470	2550	2740
18.2	Total Coliform	/ml	Present	Present	Present	Present		Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present	Present	Present	Present	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Water.

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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis (South Side) Results for the period: April-22 To September-22

Sr. No	PARAMETERS	UNIT	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
1	Organic Matter	%	0.42	0.36	0.33	0.46	0.40	0.30
2	Phosphorus as P	µg/g	639	709	607	732	684	613
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.72	4.96	4.82	5.04	4.96	5.16
5.2	Total Chromium as Cr ⁺³	µg/g	108	107	129	113	135	124
5.3	Manganese as Mn	µg/g	573	586	614	672	594	639
5.4	Iron as Fe	%	4.70	4.92	4.68	4.89	4.69	4.83
5.5	Nickel as Ni	µg/g	44.86	47.63	53.76	42.35	37.39	43.95
5.6	Copper as Cu	µg/g	37.50	36.50	41.93	37.69	45.63	39.17
5.7	Zinc as Zn	µg/g	128	120	109	93.24	87.64	105
5.8	Lead as Pb	µg/g	2.68	2.79	2.07	1.73	2.14	1.83
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Crustaceans, Gastropods, Crustaceans, Polychaetes	Polychaetes, Gastropods, Bivalves, Amphipods	Polychaetes, Gastropods, Bivalves	Polychaetes, Amphipods, Crustaceans, Bivalves	Polychaetes, Bivalves, Amphipods	Echinoderms Molluscsans, Oligochaetes Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns	--	Foraminifera ns, Nematodes	--	Nematodes	Nematodes
6.3	Population	no/m ²	353	412	292	439	351	497

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Sediment.



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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table - Sea Sediment Quality Analysis Results (North Side) for the period: April-22 To September-22:-

Sr. No.	PARAMETERS	UNIT	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
1	Organic Matter	%	0.45	0.35	0.32	0.47	0.42	0.38
2	Phosphorus as P	mg/kg	606	673	620	709	689	713
3	Texture	—	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.61	4.92	4.87	4.98	5.13	5.29
5.2	Total Chromium as Cr ⁺³	mg/kg	103	128	112	95.27	109	135
5.3	Manganese as Mn	mg/kg	618	609	631	658	713	675
5.4	Iron as Fe	%	4.86	4.87	4.78	4.87	5.29	4.97
5.5	Nickel as Ni	mg/kg	46.73	49.91	55.62	43.98	53.68	48.29
5.6	Copper as Cu	mg/kg	40.18	43.85	40.13	35.29	47.34	41.75
5.7	Zinc as Zn	mg/kg	131	130	107	97.15	116	95.28
5.8	Lead as Pb	mg/kg	2.54	2.14	2.23	1.36	1.77	2.19
5.9	Mercury as Hg	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Crustaceans, Gastropods, Molluscs	Polychaetes, Gastropods, Amphipods	Polychaetes, Gastropods, Bivalves	Polychaetes, Gastropods, Amphipods, Bivalves	Polychaetes, Bivalves, Crustaceans	Echinoderm, Oligochaete, Crustaceans, Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns	Nematodes	Nematodes	Foraminifera ns	Nematodes	Foraminifera ns
6.3	Population	no/m ²	409	380	324	411	381	528

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Sediment.

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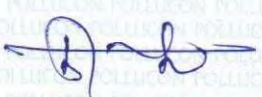


3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -

Table - Dump Pond Water Quality Analysis Results for the period: April-22 To September-22

Date			May-22	May-22	Aug-22	Aug-22
			28/05/2022	28/05/2022	26/08/2022	26/08/2022
Sr. No.	Test Parameters	Unit	Dump Pond Discharge - J3	Dump Pond Discharge (2)- J8	Dump Pond Discharge - J3	Dump Pond Discharge (2)- J8
1.	pH	--	8.67	8.7	8.65	8.85
2.	Total Dissolved Solids	mg/L	1809	2056	1621	1768
3.	Total Suspended Solids	mg/L	17	15	15	24
4.	Turbidity	NTU	3.28	2.27	3.11	2.56
5.	BOD (3 Days @ 27 °C)	mg/L	9.7	8.4	7	8
6.	Dissolved Oxygen	mg/L	6	5.9	5	6.1
7.	COD	mg/L	47	41	42	34
8.	Salinity	ppt	0.243	0.256	0.197	0.23
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO ₃	mg/L	603	592	549	574
11.	Fluoride as F	mg/L	0.54	0.33	0.56	0.48
12.	Chloride as Cl	mg/L	135	142	119	129
13.	Zinc as Zn	mg/L	0.23	0.18	0.15	0.12
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Dump Pond Discharge Water.


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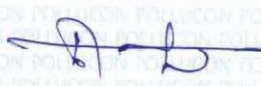


3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -

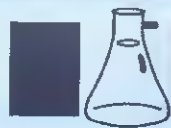
TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: APRIL-22 TO SEPTEMBER-22

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
			26/04/22	28/05/22	30/06/22	29/07/22	26/08/22	14/09/22
1.	pH	--	8.06	7.56	7.69	7.82	7.76	7.09
2.	Total Suspended Solids	mg/L	21	29	23	28	24	21
3.	BOD (3 Days @ 27 °C)	mg/L	14	17	15	18	16	17
4.	Residual Free Chlorine	mg/L	0.8	0.8	0.7	0.6	0.5	0.7
5.	Oil & Grease	mg/L	3.6	4.2	3.2	2.5	2.8	3.1

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of STP Treated Water.


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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 1 - Behind QHSE Office Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq [#]					
	01/04/2022	02/05/2022	01/06/2022	01/07/2022	01/08/2022	01/09/2022
6:00-7:00	55.8	55.6	60.7	64.5	60.8	69.5
7:00-8:00	61.0	60.5	63.7	66.1	63.5	62.1
8:00-9:00	62.1	63.6	66.9	70.4	59.1	68.8
9:00-10:00	52.4	62.8	65.2	69.8	66.4	69.8
10:00-11:00	62.2	65.6	61.4	65.2	69.2	65.2
11:00-12:00	55.0	61.3	58.9	63.5	65.3	63.5
12:00-13:00	54.2	60.6	64.6	58.7	62.1	58.7
13:00-14:00	46.3	55.7	60.5	64.2	61.4	64.2
14:00-15:00	65.1	58.9	62.5	66.8	54.5	66.8
15:00-16:00	59.5	63.7	67.8	71.4	67.3	71.4
16:00-17:00	58.3	67.8	70.4	73.2	70.5	73.2
17:00-18:00	60.9	71.3	68.5	65.1	66.8	65.1
18:00-19:00	50.8	62.4	65.6	61.6	59.5	61.6
19:00-20:00	45.8	70.2	66.7	71.2	73.6	71.2
20:00-21:00	57.1	66.7	71.5	68.7	69.5	68.7
21:00-22:00	51.7	62.5	59.5	63.6	64.3	63.6

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq [#]					
	01/04/2022 & 02/04/2022	02/05/2022 & 03/05/2022	01/06/2022 & 02/06/2022	01/07/2022 & 02/07/2022	01/08/2022 & 02/08/2022	01/09/2022 & 02/09/2022
22:00-23:00	54.9	56.7	54.2	56.9	60.2	52.5
23:00-00:00	51.9	50.1	56.3	60.4	47.8	57.6
00:00-01:00	55.3	54.3	59.7	55.1	51.4	51.4
01:00-02:00	56.2	59.1	62.5	58.6	55.1	53.3
02:00-03:00	48.6	52.8	56.8	54.1	52.3	50.5
03:00-04:00	43.2	56.3	60.2	64.3	50.4	61.2
04:00-05:00	47.1	50.2	54.6	51.6	48.9	47.5
05:00-06:00	45.5	58.9	63.4	60.5	61.3	58.9

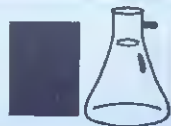
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables -2 - PMC Office Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	02/04/2022	03/05/2022	02/06/2022	02/07/2022	02/08/2022	02/09/2022
6:00-7:00	47.7	52.4	55.6	60.2	56.1	60.2
7:00-8:00	51.8	55.2	51.4	56.3	52.4	56.3
8:00-9:00	60.3	63.7	68.6	64.1	68.4	64.1
9:00-10:00	49.4	62.1	57.2	62.5	60.2	62.5
10:00-11:00	50.8	61.4	66.7	64.3	65.6	64.3
11:00-12:00	48.2	53.8	55.2	60.2	57.3	60.2
12:00-13:00	56.2	58.5	61.3	66.8	60.4	66.8
13:00-14:00	53.9	64.4	67.8	62.3	68.3	61.6
14:00-15:00	64.6	62.2	64.6	60.4	65.1	57.7
15:00-16:00	56.3	68.9	71.5	67.3	70.3	69.5
16:00-17:00	56.9	69.7	64.3	60.2	65.4	55.4
17:00-18:00	53.7	67.7	62.2	65.9	69.5	61.3
18:00-19:00	54.2	64.2	69.5	64.3	62.1	66.8
19:00-20:00	60.9	58.9	62.4	66.4	61.5	68.3
20:00-21:00	44.0	61.2	65.3	60.4	65.8	56.2
21:00-22:00	60.2	58.6	56.2	54.2	62.6	58.9

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	02/04/2022 & 03/04/2022	03/05/2022 & 04/05/2022	02/06/2022 & 03/06/2022	02/07/2022 & 03/07/2022	02/08/2022 & 03/08/2022	02/09/2022 & 03/09/2022
22:00-23:00	51.5	52.2	56.1	51.2	58.7	49.5
23:00-00:00	44.9	53.6	58.9	54.3	55.4	51.2
00:00-01:00	58.5	50.4	54.2	50.5	48.5	48.9
01:00-02:00	54.7	51.4	57.8	59.7	49.2	56.4
02:00-03:00	54.8	48.9	52.4	56.3	45.8	47.9
03:00-04:00	50.3	52.4	58.7	61.4	55.3	58.6
04:00-05:00	46.2	58.9	66.8	64.5	54.1	60.2
05:00-06:00	43.4	51.3	64.1	59.4	49.8	54.3

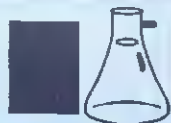
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 3 - Sub Station - 6 Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	04/04/2022	04/05/2022	03/06/2022	04/07/2022	03/08/2022	03/09/2022
6:00-7:00	45.6	51.4	56.3	61.5	54.5	66.3
7:00-8:00	45.0	54.6	58.7	65.4	60.6	64.4
8:00-9:00	58.0	57.6	62.2	59.6	62.4	54.1
9:00-10:00	52.0	61.8	58.4	55.4	65.7	59.7
10:00-11:00	44.3	53.2	56.1	51.1	56.2	53.4
11:00-12:00	52.4	53.7	56.7	61.3	59.8	66.7
12:00-13:00	48.2	59.1	63.7	66.9	69.4	62.5
13:00-14:00	41.3	72.6	69.5	64.5	70.1	60.6
14:00-15:00	44.9	64.3	70.4	66.2	68.2	69.5
15:00-16:00	54.9	60.7	64.3	61.4	61.5	59.4
16:00-17:00	48.7	63.6	60.2	55.8	66.3	60.2
17:00-18:00	49.5	68.4	65.3	70.2	68.0	73.5
18:00-19:00	51.4	50.1	56.2	52.2	55.6	54.3
19:00-20:00	56.8	54.3	52.2	58.7	57.5	61.7
20:00-21:00	59.3	47.3	52.8	55.1	51.4	52.8
21:00-22:00	48.3	56.3	60.4	65.4	59.4	67.3

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	04/04/2022 & 05/04/2022	04/05/2022 & 05/05/2022	03/06/2022 & 04/06/2022	04/07/2022 & 05/07/2022	03/08/2022 & 04/08/2022	03/09/2022 & 04/09/2022
22:00-23:00	47.6	56.8	58.3	62.2	49.3	58.7
23:00-00:00	52.8	68.9	61.3	66.5	57.2	61.3
00:00-01:00	55.4	51.2	62.4	66.9	54.1	60.2
01:00-02:00	49.5	50.3	59.8	56.4	52.8	51.1
02:00-03:00	43.1	48.9	51.1	58.4	50.4	52.6
03:00-04:00	48.7	58.8	49.7	52.1	57.6	47.7
04:00-05:00	45.3	52.3	52.3	57.0	58.8	50.8
05:00-06:00	51.4	56.9	63.4	66.4	57.3	61.7

*dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Authorized Signatory





Tables - 4 -Sub Station - 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	05/04/2022	05/05/2022	04/06/2022	05/07/2022	04/08/2022	05/09/2022
6:00-7:00	42.8	58.9	63.4	66.6	62.5	61.4
7:00-8:00	65.7	55.1	51.2	56.2	59.6	58.2
8:00-9:00	52.1	66.8	70.5	67.3	67.4	71.7
9:00-10:00	60.3	60.2	58.3	65.4	63.6	60.3
10:00-11:00	65.9	63.3	66.7	70.2	64.2	67.4
11:00-12:00	54.8	54.2	58.5	54.3	56.4	52.3
12:00-13:00	62.9	49.4	52.4	56.1	52.4	60.6
13:00-14:00	54.2	59.8	63.6	66.9	62.6	70.5
14:00-15:00	54.3	45.3	51.3	55.2	48.6	51.6
15:00-16:00	49.3	63.8	61.1	66.8	65.4	69.2
16:00-17:00	44.3	59.7	64.5	69.1	63.5	65.3
17:00-18:00	43.3	47.5	53.6	56.2	51.4	58.8
18:00-19:00	64.9	56.3	61.2	65.4	60.7	62.1
19:00-20:00	49.7	60.4	65.5	70.2	64.5	65.2
20:00-21:00	61.3	56.2	52.2	59.6	61.2	56.8
21:00-22:00	43.4	49.7	54.7	60.3	52.5	57.5

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	05/04/2022 & 06/04/2022	05/05/2022 & 06/05/2022	04/06/2022 & 05/06/2022	05/07/2022 & 06/07/2022	04/08/2022 & 05/08/2022	05/09/2022 & 06/09/2022
22:00-23:00	42.2	45.8	53.6	58.4	50.1	52.2
23:00-00:00	50.0	56.1	56.8	60.6	52.4	54.3
00:00-01:00	54.6	62.3	63.7	59.1	59.8	54.6
01:00-02:00	36.7	45.2	53.6	57.8	49.5	53.8
02:00-03:00	44.4	54.8	65.8	61.3	58.7	59.7
03:00-04:00	42.6	58.9	58.4	60.6	60.2	62.4
04:00-05:00	51.2	50.4	50.3	55.3	53.3	51.3
05:00-06:00	42.1	46.3	56.0	60.5	50.6	55.7

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Authorized Signatory





Tables - 5 - Near Sub Station-7B Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	06/04/2022	06/05/2022	06/06/2022	06/07/2022	05/08/2022	06/09/2022
6:00-7:00	56.1	56.3	59.5	64.6	63.8	67.5
7:00-8:00	41.1	65.4	61.3	68.4	61.2	69.6
8:00-9:00	41.4	62.5	66.7	70.1	66.7	68.4
9:00-10:00	44.2	58.4	64.2	71.5	55.4	67.6
10:00-11:00	55.2	49.3	52.4	56.2	53.2	52.4
11:00-12:00	50.9	57.6	63.6	66.8	62.1	63.6
12:00-13:00	48.0	56.1	59.2	62.5	52.2	58.2
13:00-14:00	45.4	71.4	69.5	62.6	68.1	66.1
14:00-15:00	44.0	67.9	72.4	67.5	72.5	60.3
15:00-16:00	56.9	53.4	57.1	62.4	59.8	67.0
16:00-17:00	51.5	51.2	55.5	60.3	56.3	54.1
17:00-18:00	56.4	56.8	62.6	66.3	60.2	61.2
18:00-19:00	49.7	50.4	55.4	61.5	51.4	63.3
19:00-20:00	50.1	65.3	70.3	67.8	62.0	64.8
20:00-21:00	52.5	54.1	60.2	63.7	59.6	68.2
21:00-22:00	49.9	51.6	56.4	62.4	54.3	57.5

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	06/04/2022 & 07/04/2022	06/05/2022 & 07/05/2022	06/06/2022 & 07/06/2022	06/07/2022 & 07/07/2022	05/08/2022 & 06/08/2022	06/09/2022 & 07/09/2022
22:00-23:00	47.4	43.2	45.2	49.7	46.6	45.2
23:00-00:00	46.0	49.8	59.4	56.1	48.4	50.8
00:00-01:00	45.6	42.1	52.4	50.5	45.3	45.5
01:00-02:00	45.1	44.8	56.3	60.3	51.6	54.9
02:00-03:00	42.7	61.3	64.1	61.2	59.8	56.4
03:00-04:00	40.6	51.7	60.7	65.9	54.3	59.7
04:00-05:00	42.6	47.3	48.3	52.2	51.5	45.5
05:00-06:00	40.0	55.2	58.5	61.4	56.8	63.6

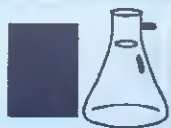
*dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Authorized Signatory





Tables - 6 - JS - 1 (Nr. Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	07/04/2022	07/05/2022	07/06/2022	07/07/2022	06/08/2022	07/09/2022
6:00-7:00	42.4	67.9	72.5	67.5	70.2	72.6
7:00-8:00	44.8	50.4	54.3	61.8	54.6	57.1
8:00-9:00	46.5	68.9	65.5	69.4	71.4	65.3
9:00-10:00	50.4	54.3	58.7	61.5	52.2	68.5
10:00-11:00	53.1	58.4	62.2	66.3	61.6	63.2
11:00-12:00	58.4	50.3	54.3	64.6	54.5	67.1
12:00-13:00	54.8	64.3	67.4	68.3	69.7	70.5
13:00-14:00	48.2	69.5	72.4	67.4	73.5	64.8
14:00-15:00	55.2	56.3	60.3	54.2	57.8	52.7
15:00-16:00	51.7	55.7	61.2	66.7	61.2	68.3
16:00-17:00	53.5	61.9	66.7	71.4	66.7	66.4
17:00-18:00	50.5	51.2	56.2	61.5	56.2	63.1
18:00-19:00	49.5	62.4	64.3	60.6	67.0	57.5
19:00-20:00	48.7	59.8	63.8	68.2	55.4	65.8
20:00-21:00	45.1	50.2	54.1	51.5	57.2	56.4
21:00-22:00	43.9	53.0	56.9	64.0	58.1	62.2

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	07/04/2022 & 08/04/2022	07/05/2022 & 08/05/2022	07/06/2022 & 08/06/2022	07/07/2022 & 08/07/2022	06/08/2022 & 07/08/2022	07/09/2022 & 08/09/2022
22:00-23:00	49.9	61.5	66.9	62.2	58.5	65.4
23:00-00:00	39.9	55.3	61.2	66.4	53.3	60.6
00:00-01:00	44.7	46.6	50.4	54.1	49.8	49.3
01:00-02:00	42.9	51.5	56.4	60.5	57.6	52.7
02:00-03:00	52.4	50.8	46.7	51.6	55.3	47.6
03:00-04:00	49.3	59.7	62.2	65.2	56.6	61.4
04:00-05:00	43.1	46.3	56.4	61.3	50.5	55.6
05:00-06:00	39.1	56.1	66.8	63.8	53.4	60.5

*dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables -7 - Behind S.S. - 11 (Silo) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	08/04/2022	09/05/2022	08/06/2022	08/07/2022	08/08/2022	08/09/2022
6:00-7:00	44.5	57.7	62.4	57.3	62.5	61.5
7:00-8:00	46.4	62.3	67.8	72.4	57.2	69.8
8:00-9:00	47.7	63.8	69.9	66.5	66.8	62.7
9:00-10:00	49.8	50.1	55.4	61.3	53.4	58.5
10:00-11:00	50.5	64.4	68.7	71.5	66.5	68.4
11:00-12:00	57.8	54.2	60.2	55.5	56.2	59.6
12:00-13:00	55.5	66.8	70.5	64.2	70.4	61.3
13:00-14:00	50.4	68.9	72.8	69.8	72.3	67.4
14:00-15:00	56.4	57.3	62.2	66.3	60.1	70.5
15:00-16:00	53.2	59.7	54.3	61.2	63.5	56.2
16:00-17:00	57.6	71.2	68.7	70.5	68.9	68.3
17:00-18:00	53.8	52.6	56.2	63.6	55.4	69.6
18:00-19:00	54.4	55.3	60.1	54.2	60.2	51.6
19:00-20:00	48.9	51.2	56.5	61.5	56.2	66.7
20:00-21:00	50.3	56.8	61.4	66.3	62.5	61.0
21:00-22:00	48.8	62.4	67.1	72.5	66.4	67.3

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	08/04/2022 & 09/04/2022	09/05/2022 & 10/05/2022	08/06/2022 & 09/06/2022	08/07/2022 & 09/07/2022	08/08/2022 & 09/08/2022	08/09/2022 & 09/09/2022
22:00-23:00	48.5	56.3	60.5	57.8	52.4	51.1
23:00-00:00	47.7	52.7	56.1	60.5	57.5	54.2
00:00-01:00	43.4	58.9	62.3	67.3	60.6	62.3
01:00-02:00	46.5	62.3	66.7	62.4	58.9	57.4
02:00-03:00	48.2	52.2	56.8	59.6	57.2	55.8
03:00-04:00	42.4	55.3	60.4	55.3	55.0	48.9
04:00-05:00	47.4	66.4	63.2	66.4	63.1	58.2
05:00-06:00	45.4	47.8	44.1	49.7	49.6	46.1

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 8 -Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	09/04/2022	10/05/2022	09/06/2022	09/07/2022	09/08/2022	09/09/2022
6:00-7:00	56.0	54.3	61.5	65.4	52.4	68.7
7:00-8:00	41.7	49.8	54.6	59.1	53.2	63.2
8:00-9:00	44.2	66.3	70.4	67.3	69.3	63.1
9:00-10:00	57.8	53.3	56.4	60.1	57.4	55.2
10:00-11:00	62.3	56.8	61.2	66.6	56.2	61.3
11:00-12:00	59.1	65.4	68.9	70.4	65.1	68.7
12:00-13:00	61.4	45.5	51.8	56.3	50.5	52.3
13:00-14:00	62.4	62.4	66.7	69.8	67.3	64.7
14:00-15:00	65.6	52.8	56.2	60.1	57.8	63.6
15:00-16:00	59.3	56.7	61.3	66.7	61.3	70.4
16:00-17:00	64.3	59.4	65.1	67.8	62.2	62.5
17:00-18:00	74.0	50.2	54.2	59.5	47.3	55.2
18:00-19:00	60.3	54.2	61.3	66.5	58.5	63.6
19:00-20:00	44.8	64.3	69.5	73.4	69.6	69.1
20:00-21:00	42.7	60.1	65.4	61.5	55.8	57.4
21:00-22:00	60.1	67.8	72.9	67.4	64.5	69.2

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	09/04/2022 & 10/04/2022	10/05/2022 & 11/05/2022	09/06/2022 & 10/06/2022	09/07/2022 & 10/07/2022	09/08/2022 & 10/08/2022	09/09/2022 & 10/09/2022
22:00-23:00	48.1	54.2	59.8	62.4	56.6	57.5
23:00-00:00	50.7	47.1	52.6	55.6	52.1	52.4
00:00-01:00	47.4	51.0	56.3	60.1	58.8	53.0
01:00-02:00	54.3	42.9	46.7	50.2	46.5	59.8
02:00-03:00	46.8	53.6	56.9	63.3	58.4	58.6
03:00-04:00	54.1	49.8	54.2	61.5	53.2	56.2
04:00-05:00	41.0	61.2	58.3	54.2	58.7	49.8
05:00-06:00	46.5	51.9	56.4	61.8	54.5	64.7

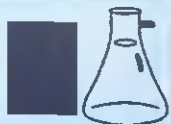
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	11/04/2022	11/05/2022	10/06/2022	11/07/2022	10/08/2022	10/09/2022
6:00-7:00	43.7	72.5	68.7	63.1	68.9	60.3
7:00-8:00	46.6	57.9	62.5	67.0	61.4	66.1
8:00-9:00	45.9	64.2	66.8	70.5	66.5	72.2
9:00-10:00	46.9	66.0	62.3	59.8	70.4	56.1
10:00-11:00	54.3	59.2	63.4	65.3	62.7	63.6
11:00-12:00	52.2	54.1	60.5	64.1	50.4	61.1
12:00-13:00	41.3	62.3	59.8	55.6	67.8	52.4
13:00-14:00	54.1	55.7	61.2	65.2	58.5	68.6
14:00-15:00	72.2	50.2	53.2	56.1	53.6	52.5
15:00-16:00	56.1	60.1	62.5	59.7	65.4	54.6
16:00-17:00	55.3	66.4	61.5	66.3	69.8	69.4
17:00-18:00	45.7	63.9	69.8	71.4	60.2	68.2
18:00-19:00	58.3	50.1	54.2	56.2	54.8	54.1
19:00-20:00	52.1	60.4	54.3	58.9	57.0	61.5
20:00-21:00	54.8	63.8	67.4	70.6	66.5	71.3
21:00-22:00	58.0	50.6	52.5	56.1	53.4	56.1

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	11/04/2022 & 12/04/2022	11/05/2022 & 12/05/2022	10/06/2022 & 11/06/2022	11/07/2022 & 12/07/2022	10/08/2022 & 11/08/2022	10/09/2022 & 11/09/2022
22:00-23:00	45.5	58.4	62.4	66.4	53.2	61.7
23:00-00:00	49.7	55.3	51.3	56.1	50.6	51.5
00:00-01:00	50.1	45.4	50.2	62.3	49.8	56.4
01:00-02:00	43.7	51.3	56.1	61.5	55.7	58.9
02:00-03:00	48.5	59.6	54.3	60.5	63.2	57.4
03:00-04:00	44.2	61.3	59.8	55.4	60.3	53.2
04:00-05:00	40.6	59.8	53.2	59.8	64.5	54.1
05:00-06:00	52.7	56.3	51.5	56.4	51.7	50.5

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 10 - Lakhi Village (Primary School) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	12/04/2022	12/05/2022	11/06/2022	12/07/2022	11/08/2022	12/09/2022
6:00-7:00	49.8	58.7	50.1	58.7	50.9	54.1
7:00-8:00	58.1	66.2	54.6	66.5	52.3	63.2
8:00-9:00	66.6	67.8	53.5	70.3	49.7	68.4
9:00-10:00	63.2	51.4	50.2	60.4	51.7	63.6
10:00-11:00	61.4	62.5	47.2	63.2	49.8	59.8
11:00-12:00	55.8	56.3	46.3	58.4	52.9	52.0
12:00-13:00	54.1	52.4	41.2	61.5	54.1	57.4
13:00-14:00	64.1	61.2	45.2	62.6	52.7	65.1
14:00-15:00	55.7	65.3	49.6	67.9	50.9	61.3
15:00-16:00	48.8	46.8	52.2	54.3	51.7	56.4
16:00-17:00	50.2	62.4	53.6	62.1	54.2	66.5
17:00-18:00	62.4	57.5	54.2	59.8	51.3	64.2
18:00-19:00	55.9	58.9	47.7	65.4	52.9	68.3
19:00-20:00	68.6	63.1	54.4	67.3	51.2	64.2
20:00-21:00	63.0	66.3	52.6	69.5	50.2	67.6
21:00-22:00	53.0	60.9	48.9	56.0	49.3	60.2

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	12/04/2022 & 13/04/2022	12/05/2022 & 13/05/2022	11/06/2022 & 12/06/2022	12/07/2022 & 13/07/2022	11/08/2022 & 12/08/2022	12/09/2022 & 13/09/2022
22:00-23:00	44.2	63.7	40.5	61.6	44.1	49.8
23:00-00:00	51.1	51.3	41.9	50.8	42.7	45.5
00:00-01:00	63.0	66.9	44.2	66.8	41.4	60.0
01:00-02:00	34.8	52.4	42.5	52.6	42.6	48.3
02:00-03:00	39.7	61.3	43.7	61.4	40.8	54.4
03:00-04:00	43.5	59.7	40.3	56.2	42.8	51.5
04:00-05:00	48.2	49.3	41.3	49.7	41.1	44.3
05:00-06:00	52.2	60.5	42.4	59.4	44.2	53.2

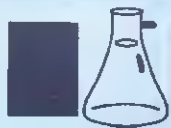
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Authorized Signatory





Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	13/04/2022	13/05/2022	13/06/2022	13/07/2022	12/08/2022	13/09/2022
6:00-7:00	46.2	52.8	57.8	62.2	57.4	65.9
7:00-8:00	47.5	63.6	66.8	70.4	66.1	67.2
8:00-9:00	50.6	50.8	54.2	56.1	53.3	60.5
9:00-10:00	52.2	52.7	56.3	60.2	56.4	55.1
10:00-11:00	56.3	58.6	62.4	65.8	60.2	61.3
11:00-12:00	55.6	54.3	60.5	54.1	57.8	52.2
12:00-13:00	63.1	56.1	62.8	66.3	51.6	60.4
13:00-14:00	63.8	56.3	61.1	68.9	60.4	73.2
14:00-15:00	67.7	48.9	52.6	57.2	50.4	52.8
15:00-16:00	64.0	51.5	56.1	54.3	54.3	59.6
16:00-17:00	69.3	60.8	65.7	69.5	63.8	63.3
17:00-18:00	70.3	57.3	60.5	64.3	55.4	59.5
18:00-19:00	67.8	51.4	56.4	60.8	56.3	54.1
19:00-20:00	66.7	49.9	54.2	59.4	52.4	53.8
20:00-21:00	65.6	51.1	56.6	61.9	57.8	59.7
21:00-22:00	63.7	54.7	60.2	57.4	57.9	52.1

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	13/04/2022 & 14/04/2022	13/05/2022 & 14/05/2022	13/06/2022 & 14/06/2022	13/07/2022 & 14/07/2022	12/08/2022 & 13/08/2022	13/09/2022 & 14/09/2022
22:00-23:00	63.4	51.4	48.5	52.2	54.0	47.7
23:00-00:00	59.3	46.3	51.3	56.4	47.5	59.8
00:00-01:00	57.8	59.7	55.4	59.8	63.7	63.5
01:00-02:00	62.0	45.5	50.6	54.2	49.6	51.6
02:00-03:00	52.6	61.2	65.8	61.4	63.3	64.6
03:00-04:00	54.2	54.0	59.7	55.1	59.4	59.7
04:00-05:00	47.3	46.3	50.3	52.4	50.2	46.2
05:00-06:00	46.4	54.8	61.4	63.9	51.7	58.5

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale which is relative to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	14/04/2022	14/05/2022	14/06/2022	14/07/2022	13/08/2022	14/09/2022
6:00-7:00	44.1	53.4	57.8	64.4	58.9	68.5
7:00-8:00	47.1	64.8	69.2	67.3	66.5	70.6
8:00-9:00	49.9	56.2	61.1	64.5	62.1	66.2
9:00-10:00	51.4	63.3	69.7	66.1	68.7	71.4
10:00-11:00	55.1	54.4	61.5	66.3	61.2	61.5
11:00-12:00	58.8	59.0	62.4	68.9	66.9	63.8
12:00-13:00	59.0	49.7	53.6	56.1	47.1	62.8
13:00-14:00	62.8	61.1	66.9	62.2	65.8	54.2
14:00-15:00	64.4	58.5	62.7	65.1	63.6	69.6
15:00-16:00	69.2	57.3	54.1	59.7	54.5	62.5
16:00-17:00	69.5	52.8	60.5	63.6	58.6	58.7
17:00-18:00	67.8	64.4	69.9	63.8	69.7	67.4
18:00-19:00	69.7	57.2	61.4	66.6	60.1	70.2
19:00-20:00	68.0	51.3	55.2	58.4	57.3	51.1
20:00-21:00	68.5	64.5	69.7	67.4	70.0	62.2
21:00-22:00	63.9	73.8	70.6	68.5	68.8	63.1

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	14/04/2022 & 15/04/2022	14/05/2022 & 15/05/2022	14/06/2022 & 15/06/2022	14/07/2022 & 15/07/2022	13/08/2022 & 14/08/2022	14/09/2022 & 15/09/2022
22:00-23:00	63.8	64.8	59.7	62.8	64.8	65.5
23:00-00:00	60.5	48.5	52.6	55.1	48.5	55.6
00:00-01:00	59.8	51.9	57.3	61.3	51.9	57.6
01:00-02:00	53.2	47.3	52.2	56.6	47.3	52.2
02:00-03:00	50.3	54.9	56.7	61.2	54.9	63.0
03:00-04:00	51.2	66.2	61.3	57.4	66.2	62.7
04:00-05:00	49.8	64.8	59.5	63.5	64.8	59.2
05:00-06:00	48.0	50.4	46.2	51.8	52.3	53.0

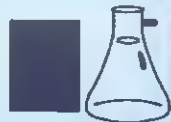
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 13 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	15/04/2022	16/05/2022	15/06/2022	15/07/2022	15/08/2022	15/09/2022
6:00-7:00	45.5	55.5	61.4	59.8	61.4	53.1
7:00-8:00	51.9	61.6	66.8	69.4	65.6	65.0
8:00-9:00	43.8	64.3	70.4	65.2	68.2	61.6
9:00-10:00	45.6	56.2	61.2	67.3	52.1	62.1
10:00-11:00	50.7	46.7	52.4	55.8	50.9	51.3
11:00-12:00	58.6	51.3	56.3	60.5	56.1	57.6
12:00-13:00	51.8	55.8	61.8	65.4	61.2	61.3
13:00-14:00	51.6	53.8	57.4	61.3	58.9	55.2
14:00-15:00	56.0	61.4	64.5	69.8	66.8	64.1
15:00-16:00	56.2	57.8	62.3	57.8	60.4	52.4
16:00-17:00	45.9	56.3	61.4	66.3	62.2	61.1
17:00-18:00	42.0	54.2	60.5	57.4	51.1	53.6
18:00-19:00	66.4	52.1	56.9	61.2	55.6	65.7
19:00-20:00	53.4	64.8	69.5	67.8	67.7	69.3
20:00-21:00	63.4	60.3	64.4	69.3	53.2	67.4
21:00-22:00	59.8	62.1	66.8	61.2	64.8	54.6

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	15/04/2022 & 16/04/2022	16/05/2022 & 17/05/2022	15/06/2022 & 16/06/2022	15/07/2022 & 16/07/2022	15/08/2022 & 16/08/2022	15/09/2022 & 16/09/2022
22:00-23:00	54.1	61.2	57.3	60.4	58.4	62.6
23:00-00:00	41.2	56.9	51.4	55.6	60.3	48.9
00:00-01:00	44.8	63.1	59.8	54.1	59.5	52.5
01:00-02:00	40.6	52.4	47.6	50.5	55.8	45.1
02:00-03:00	48.3	64.9	60.2	55.4	61.2	58.4
03:00-04:00	48.8	51.4	49.7	53.7	56.7	60.1
04:00-05:00	47.6	45.3	48.6	53.6	48.7	57.7
05:00-06:00	40.5	42.5	45.5	49.3	48.9	45.6

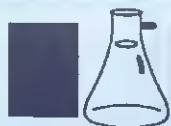
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

Authorized Signatory





Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq [#]					
	Date of Monitoring	16/04/2022	17/05/2022	16/06/2022	16/07/2022	16/08/2022
6:00-7:00	55.2	50.1	55.5	60.2	47.8	63.6
7:00-8:00	57.4	56.7	62.8	65.4	59.3	68.9
8:00-9:00	47.0	61.8	66.9	70.6	66.8	72.5
9:00-10:00	65.0	60.2	64.3	69.8	58.4	64.2
10:00-11:00	54.0	49.1	46.7	50.2	51.4	52.4
11:00-12:00	57.0	53.2	57.8	63.8	58.6	61.2
12:00-13:00	46.7	54.3	61.5	65.4	60.8	62.6
13:00-14:00	57.1	46.8	50.5	55.2	50.3	60.9
14:00-15:00	48.6	64.6	70.9	67.9	66.1	73.6
15:00-16:00	43.3	61.2	66.7	71.4	59.8	67.2
16:00-17:00	49.7	58.9	62.4	66.3	52.4	65.2
17:00-18:00	55.1	61.3	65.3	61.4	66.3	56.2
18:00-19:00	62.4	54.2	61.5	66.3	58.7	69.8
19:00-20:00	51.8	56.1	62.3	60.2	61.1	63.4
20:00-21:00	50.7	59.8	62.4	67.5	63.5	62.7
21:00-22:00	60.7	64.4	66.8	62.4	68.1	57.9

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	16/04/2022 & 17/04/2022	17/05/2022 & 18/05/2022	16/06/2022 & 17/06/2022	16/07/2022 & 17/07/2022	16/08/2022 & 17/08/2022	16/09/2022 & 17/09/2022
22:00-23:00	41.7	56.9	60.4	58.3	61.2	64.8
23:00-00:00	48.7	51.4	57.8	61.2	56.5	65.4
00:00-01:00	41.8	49.8	54.2	52.3	48.7	58.5
01:00-02:00	44.4	62.5	65.3	61.4	57.4	63.7
02:00-03:00	45.7	61.3	57.7	52.6	55.2	49.3
03:00-04:00	41.9	52.7	56.3	60.4	47.6	57.2
04:00-05:00	41.2	44.2	46.3	50.2	51.9	46.1
05:00-06:00	39.8	55.3	59.5	63.9	60.5	60.7

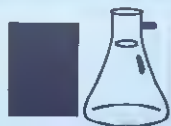
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 15 - Security Barrier Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	18/04/2022	18/05/2022	17/06/2022	18/07/2022	17/08/2022	17/09/2022
6:00-7:00	50.5	49.8	52.4	55.6	52.4	55.6
7:00-8:00	57.2	54.3	60.3	63.7	56.1	63.7
8:00-9:00	53.1	63.0	67.5	64.2	67.4	64.2
9:00-10:00	57.3	51.2	55.8	59.8	54.2	54.2
10:00-11:00	61.6	58.4	62.4	66.2	61.3	62.6
11:00-12:00	45.9	61.4	68.9	70.1	66.7	67.3
12:00-13:00	74.0	57.6	54.2	59.8	62.5	55.4
13:00-14:00	69.1	62.8	66.3	62.3	68.9	59.6
14:00-15:00	50.9	45.3	51.2	55.6	50.2	60.2
15:00-16:00	44.5	53.0	56.7	60.4	59.6	58.0
16:00-17:00	49.3	53.6	59.5	64.9	57.8	66.8
17:00-18:00	60.1	64.3	69.5	64.7	67.4	62.6
18:00-19:00	46.7	56.2	61.4	66.5	60.1	71.7
19:00-20:00	56.5	58.9	64.1	60.2	63.6	56.2
20:00-21:00	50.2	67.3	72.4	67.9	70.4	61.7
21:00-22:00	45.4	51.5	56.8	59.4	56.2	52.8

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	18/04/2022 & 19/04/2022	18/05/2022 & 19/05/2022	17/06/2022 & 18/06/2022	18/07/2022 & 19/07/2022	17/08/2022 & 18/08/2022	17/09/2022 & 18/09/2022
22:00-23:00	49.7	66.7	61.2	65.4	63.5	60.3
23:00-00:00	53.4	54.2	50.3	54.3	57.4	53.9
00:00-01:00	55.9	46.3	52.5	56.1	50.1	61.7
01:00-02:00	48.8	52.4	56.9	59.7	56.3	62.4
02:00-03:00	44.2	56.3	61.4	66.3	52.7	59.6
03:00-04:00	65.6	51.1	57.4	51.2	58.2	54.5
04:00-05:00	45.0	66.8	59.5	54.3	65.4	58.9
05:00-06:00	49.9	54.0	61.3	58.4	51.2	51.2

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq [#]					
	Date of Monitoring	19/04/2022	19/05/2022	18/06/2022	19/07/2022	18/08/2022
6:00-7:00	59.7	51.6	56.7	52.4	56.3	54.2
7:00-8:00	50.0	58.3	63.9	60.6	62.4	57.4
8:00-9:00	50.8	65.1	71.4	67.8	68.6	63.6
9:00-10:00	53.3	62.4	67.9	70.4	58.4	70.4
10:00-11:00	46.2	51.4	55.3	61.3	56.2	66.2
11:00-12:00	41.9	49.8	47.9	51.5	53.5	58.3
12:00-13:00	50.7	42.3	46.9	50.2	45.1	53.4
13:00-14:00	56.6	63.7	68.4	64.3	67.8	61.2
14:00-15:00	45.8	56.2	61.3	67.8	61.5	70.1
15:00-16:00	58.8	58.7	54.2	61.3	63.4	67.2
16:00-17:00	49.6	50.6	45.3	50.5	52.7	54.6
17:00-18:00	46.1	54.1	61.1	65.4	56.3	61.0
18:00-19:00	59.8	51.5	56.7	61.8	47.7	57.5
19:00-20:00	67.7	62.3	61.5	67.9	59.4	69.5
20:00-21:00	56.2	51.2	58.7	62.4	56.2	59.1
21:00-22:00	48.5	66.9	70.3	72.4	68.7	68.3

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	19/04/2022 & 20/04/2022	19/05/2022 & 20/05/2022	18/06/2022 & 19/06/2022	19/07/2022 & 20/07/2022	18/08/2022 & 19/08/2022	19/09/2022 & 20/09/2022
22:00-23:00	40.8	56.9	52.6	56.2	58.7	50.4
23:00-00:00	54.1	44.1	49.8	53.6	49.5	56.5
00:00-01:00	43.9	56.8	61.4	58.4	62.3	63.8
01:00-02:00	67.5	61.3	65.8	69.7	64.4	68.0
02:00-03:00	55.4	54.2	59.7	55.4	58.9	54.9
03:00-04:00	41.8	46.8	50.5	53.6	44.5	49.8
04:00-05:00	47.0	47.7	51.6	56.8	50.2	52.2
05:00-06:00	42.0	51.3	56.6	51.4	48.6	53.6

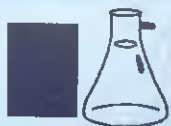
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	20/04/2022	20/05/2022	20/06/2022	20/07/2022	19/08/2022	20/09/2022
6:00-7:00	55.7	54.2	59.7	56.3	59.1	52.1
7:00-8:00	46.9	61.3	66.4	70.4	66.7	73.5
8:00-9:00	51.2	52.0	56.2	60.1	56.2	55.4
9:00-10:00	49.3	62.5	66.5	69.8	58.9	65.1
10:00-11:00	50.9	44.7	51.5	57.2	49.2	62.4
11:00-12:00	49.2	62.3	66.8	61.3	66.1	56.6
12:00-13:00	57.3	52.2	57.4	60.8	56.4	63.7
13:00-14:00	45.2	60.3	65.3	70.6	65.4	68.4
14:00-15:00	45.0	62.9	67.5	64.3	66.3	62.1
15:00-16:00	62.5	61.4	65.8	61.9	66.7	57.4
16:00-17:00	52.3	42.2	45.1	51.2	46.5	57.2
17:00-18:00	44.5	65.3	66.9	62.4	71.4	67.8
18:00-19:00	61.7	54.5	59.7	63.9	58.6	63.9
19:00-20:00	67.9	56.1	62.3	66.3	51.1	66.3
20:00-21:00	48.7	64.5	69.2	64.1	68.9	64.1
21:00-22:00	42.5	66.9	72.4	67.3	62.2	67.3

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	20/04/2022 & 21/04/2022	20/05/2022 & 21/05/2022	20/06/2022 & 21/06/2022	20/07/2022 & 21/07/2022	19/08/2022 & 20/08/2022	20/09/2022 & 21/09/2022
22:00-23:00	50.4	61.5	58.8	62.5	66.2	65.1
23:00-00:00	60.0	59.7	62.4	66.9	56.4	63.7
00:00-01:00	50.0	44.2	49.3	45.3	46.3	46.2
01:00-02:00	56.6	51.3	55.7	60.4	46.2	57.3
02:00-03:00	42.9	56.4	61.4	67.4	50.1	64.1
03:00-04:00	49.6	61.3	66.8	60.3	56.5	56.7
04:00-05:00	57.3	52.7	55.3	51.5	45.1	47.1
05:00-06:00	53.3	44.4	50.2	54.2	42.3	51.6

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables -18 - S and S Yard (South) and Open Storage Yard – 1 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	21/04/2022	21/05/2022	21/06/2022	21/07/2022	20/08/2022	21/09/2022
6:00-7:00	42.9	47.4	52.2	56.6	53.6	56.6
7:00-8:00	48.6	43.3	46.8	51.4	45.2	51.4
8:00-9:00	52.4	59.1	63.7	67.8	63.5	67.8
9:00-10:00	59.0	54.8	58.3	62.4	51.4	64.4
10:00-11:00	56.1	66.4	71.4	69.8	72.3	69.8
11:00-12:00	48.5	54.3	59.8	62.2	52.1	62.2
12:00-13:00	42.4	52.9	59.8	55.6	58.7	55.6
13:00-14:00	57.9	45.5	50.5	54.1	51.2	54.1
14:00-15:00	60.8	61.2	66.8	68.3	66.8	68.3
15:00-16:00	46.7	60.9	64.7	61.8	65.4	61.8
16:00-17:00	65.8	66.1	70.4	67.3	68.5	67.3
17:00-18:00	71.7	69.5	65.8	60.8	64.2	60.8
18:00-19:00	45.1	49.8	54.2	59.6	47.7	59.6
19:00-20:00	51.0	54.2	59.8	64.3	59.8	60.5
20:00-21:00	52.2	44.0	50.2	54.6	52.3	51.8
21:00-22:00	55.7	59.7	63.8	57.9	63.7	53.2

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	21/04/2022 & 22/04/2022	21/05/2022 & 22/05/2022	21/06/2022 & 22/06/2022	21/07/2022 & 22/07/2022	20/08/2022 & 21/08/2022	21/09/2022 & 22/09/2022
22:00-23:00	51.2	56.3	61.4	65.6	52.4	61.8
23:00-00:00	44.5	57.4	63.6	60.4	62.2	59.5
00:00-01:00	52.1	53.6	56.8	63.1	57.8	66.3
01:00-02:00	60.8	50.2	54.2	51.8	53.3	46.5
02:00-03:00	60.3	41.8	45.7	49.6	45.7	52.8
03:00-04:00	47.5	66.4	62.3	66.4	62.1	64.3
04:00-05:00	52.0	57.5	60.2	57.6	60.3	51.7
05:00-06:00	38.0	61.3	57.6	63.5	65.4	66.8

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables -19 -S & S Yard (North) Boundary Wall Loco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	22/04/2022	23/05/2022	22/06/2022	22/07/2022	22/08/2022	22/09/2022
6:00-7:00	61.8	64.3	69.8	71.4	67.5	67.5
7:00-8:00	66.1	51.3	56.2	60.3	57.4	62.6
8:00-9:00	46.4	63.8	67.8	64.5	68.2	61.7
9:00-10:00	47.4	53.2	59.5	54.3	56.3	52.3
10:00-11:00	59.8	50.1	54.3	60.2	47.5	59.8
11:00-12:00	60.4	52.6	56.4	61.5	54.8	68.9
12:00-13:00	51.0	61.3	65.5	62.4	65.9	56.2
13:00-14:00	46.6	64.8	70.6	66.9	69.4	68.7
14:00-15:00	48.3	59.8	63.4	61.9	63.2	59.3
15:00-16:00	59.4	67.6	72.4	68.3	70.2	60.5
16:00-17:00	50.3	56.3	61.5	65.4	60.1	66.8
17:00-18:00	57.7	62.2	63.8	59.7	66.6	53.4
18:00-19:00	47.0	51.0	56.8	62.2	56.3	58.1
19:00-20:00	46.5	63.6	67.4	70.4	66.7	72.2
20:00-21:00	45.7	56.9	61.2	66.9	61.2	60.7
21:00-22:00	48.2	51.2	56.8	54.2	53.4	51.1

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	22/04/2022 & 23/04/2022	23/05/2022 & 24/05/2022	22/06/2022 & 23/06/2022	22/07/2022 & 23/07/2022	22/08/2022 & 23/08/2022	22/09/2022 & 23/09/2022
22:00-23:00	49.5	54.6	51.3	56.9	50.1	53.0
23:00-00:00	54.2	57.8	60.4	54.3	52.5	50.4
00:00-01:00	57.2	52.2	58.9	62.2	47.3	65.9
01:00-02:00	63.4	49.7	45.7	49.1	45.6	45.7
02:00-03:00	46.5	53.6	49.5	54.5	49.8	49.8
03:00-04:00	43.8	46.8	53.6	56.6	51.3	51.9
04:00-05:00	56.2	60.2	61.3	59.8	58.4	54.4
05:00-06:00	52.4	54.3	48.7	52.4	56.1	57.3

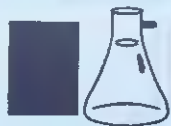
[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Tables - 20 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-22 To September-22

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	23/04/2022	24/05/2022	23/06/2022	23/07/2022	23/08/2022	23/09/2022
6:00-7:00	50.4	47.8	42.4	56.1	51.2	53.3
7:00-8:00	53.7	42.1	40.9	52.4	48.1	58.7
8:00-9:00	62.5	49.4	44.2	59.8	52.8	62.2
9:00-10:00	50.2	61.3	48.6	69.5	53.6	66.1
10:00-11:00	52.9	67.8	53.1	65.3	49.4	61.6
11:00-12:00	44.9	46.9	54.4	56.1	50.9	52.8
12:00-13:00	50.5	50.1	49.9	60.8	47.5	54.6
13:00-14:00	58.9	42.4	45.2	52.2	52.8	50.8
14:00-15:00	57.1	56.3	49.1	65.4	53.5	61.1
15:00-16:00	45.8	52.8	51.9	59.9	47.2	64.7
16:00-17:00	43.7	61.9	53.2	61.8	51.0	67.6
17:00-18:00	59.8	51.0	54.3	60.2	48.9	55.2
18:00-19:00	63.7	45.7	50.7	56.9	52.9	51.3
19:00-20:00	72.1	65.8	48.3	57.4	50.7	62.2
20:00-21:00	48.4	52.2	47.6	60.3	51.2	65.9
21:00-22:00	52.1	44.1	45.7	56.4	47.2	57.7

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	23/04/2022 & 24/04/2022	24/05/2022 & 25/05/2022	23/06/2022 & 24/06/2022	23/07/2022 & 24/07/2022	23/08/2022 & 24/08/2022	23/09/2022 & 24/09/2022
22:00-23:00	52.3	61.5	44.2	64.6	43.8	59.5
23:00-00:00	56.1	63.3	43.8	56.8	40.5	51.2
00:00-01:00	59.2	50.5	40.6	57.4	41.4	54.4
01:00-02:00	68.8	59.8	41.9	66.9	43.9	62.8
02:00-03:00	45.9	47.4	42.7	59.8	43.5	58.6
03:00-04:00	44.4	56.2	44.3	54.2	40.7	50.5
04:00-05:00	58.1	61.3	40.8	59.7	41.3	52.2
05:00-06:00	51.9	64.7	42.4	51.1	42.1	47.3

[#]dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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**3H. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -****Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: April-22 To September-22**

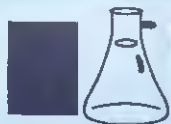
Sr. No.	Parameters	Unit	May-22				
			28/05/2022				
			DG Set # 1MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3Marine (SS8)	DG Set # 4Silo (SS11)	DG Set # 5 (SS7A)
1	Particulate Matter	mg/Nm ³	26.27	24.54	21.54	23.47	25.3
2	Sulphur Dioxide	ppm	3.63	4.57	4.02	8.45	7.55
3	Oxide of Nitrogen	ppm	33.44	35.62	30.26	36.55	32.5
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m ³	0.029	0.0173	0.0237	0.0317	0.0269

Table No.: 3H.2 – DG Sets Stack Emission Monitoring Results for the period: April-22 To September-22

Sr. No.	Parameters	Unit	August-22				
			26/08/2022				
			DG Set # 1MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3Marine (SS8)	DG Set # 4Silo (SS11)	DG Set # 5 (SS7A)
1	Particulate Matter	mg/Nm ³	22.61	27.53	24.35	28.83	21.55
2	Sulphur Dioxide	ppm	4.67	5.05	6.35	7.55	5.97
3	Oxide of Nitrogen	ppm	30.65	33.59	32.44	38.46	35.66
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m ³	0.0252	0.0202	0.0265	0.0398	0.0313

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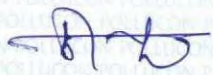




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Table No.: 3H.3 - DG Sets Noise Level Monitoring Results for the period: April-22 To September-22

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
		May-22	August-22
		28/05/2022	26/08/2022
1.	DG Set # 1MRSS (SS5)	72.6	70.5
2.	DG Set # 2 SS7B	69.5	72.1
3.	DG Set # 3Marine (SS8)	70.8	73.6
4.	DG Set # 4Silo (SS11)	73.2	71.5
5	DG Set # 5 (SS7A)	71.4	72.4


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● FSSAI Approved Lab

● Recognised by MoEF, New Delhi Under
Sec. 12 of Environmental (Protection) Act-1986

● GPCB apprved
schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001

**Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III
Expansion of Adani Petronet (Dahej) Port Pvt. Ltd.,**

S. No.	EMP Conditions	Compliance Status
A.	ENVIRONMENTAL MANAGEMENT PLAN (CONSTRUCTION PHASE)	
1.1	Air Quality Management Plan	
	Dust suppression systems will be installed for fugitive dust emission control while undertaking civil works.	Complying with. Water sprinkler and mist canon is being used to suppress the fugitive dust during construction activity.
	Regular wetting of roads will be undertaken on the paved and unpaved artillery roads.	Complying with. Regular wetting of roads is undertaken on the paved and unpaved arterial roads.
	Vehicle tyre washing facilities will be provided at the entrance to prevent spillover of dust sticking on tyre outside the facility.	Complied APDPPL has installed a truck tyre washing system within the port premises, which washes the tyre of trucks exiting the port area.
	Construction materials kept in open area will be provided with barrier in order to prevent wind carryover of dust.	Complying with. Construction material is being kept in a secure area.
	Construction materials transportation in and outside the port will be appropriately covered to prevent fugitive dust emissions.	Complying with. Material transportation is being done through trucks covered with tarpaulin.
	Civil and Mechanical fabrication works will be carried out within the port facility at an appropriate location to avoid impact on the local air quality at project construction site.	Complying with. Civil and Mechanical fabrication is being done within the port premises.
	All construction equipment's at site will be subjected to regular maintenance to minimize the vehicle exhaust.	Complying with. All vehicles are being regularly maintained to minimize the vehicle exhaust.
	All trucks deployed at site will be provided with fitness and pollution under control certificate.	Complying with. All vehicles are being checked for PUC Certificate.
	DG set with appropriate stack height as per CPCB guidelines for effective dispersion of pollutants shall be provided.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
1.2	Noise Quality Management Plan	
	DG set with acoustic enclosure will be installed for power supply to construction activities.	Complying with. All DG sets (standby source) are provided with acoustic enclosures.
	All high decibel noise generating equipment's should be repaired to meet the compliance noise level.	Complying with. Noise generating equipment's are provided with acoustic enclosures.
	No activity involving with high intensity and magnitude of operation should be deployed. Silencers will be provided in Vehicle exhaust.	Complying with. <ul style="list-style-type: none"> All construction and operation activities are in compliance with the Noise level Norms. Monitoring of noise level is being done by M/s Pollucon Laboratories, NABL accredited, and MoEF&CC recognized laboratory.

S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none"> Monitoring reports are presented in the Annexure 3G.
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none"> There is no occasion till date for exceeding the noise level at the port boundary. Persons working in the fabrication yard are provided with PPEs.
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipment's are provided with acoustic enclosures.
1.3	Sewage Management Plan	
	Sewage generated from the construction site will be treated in existing STP of 27 m ³ capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water conforming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from April, 2022 to September, 2022 are enclosed as Annexure -3F .
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
1.4	Solid and Hazardous Waste Management Plan	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	Complying with. <ul style="list-style-type: none"> All solid waste is being segregated for biodegradable and non-biodegradable. Biodegradable waste is being decomposed in vermicomposting yard and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.
	All hazardous waste generated will be categorized as per Hazardous Waste Management Rules, 2008.	Complying with. Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	Complying with. Recyclable waste such as used oil, Discarded drum etc. is being sold to authorize recyclers only.
1.5	Construction Phase Storm Water Runoff	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.
B.	ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)	
2.1	Air Quality Management Plan - Coal Handling and Stock Yard Area:	
	Appropriate stack height will be provided to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty,	Complying with.

S. No.	EMP Conditions	Compliance Status
	conveyor belt, transfer tower, and discharge point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	All dust control systems are maintained and operating well. APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly.
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	Complying with. <ul style="list-style-type: none"> • At coal stack yard, 130 sprinklers are maintained and operating well. • Pavement of the additional storage area is completed. Installation of water sprinklers and other DSS measures will be complete before storage of coal.
	To prevent wind carryover of dust from coal stack yard, wind barrier have been erected around the coal stock pile area at a height of 14m from the ground level. The wind barrier is of galvanized sheet with perforated holes to withstand high velocity wind has been fitted in the structural beams and erected in solid foundation thereby effectively control the wind carryover of dust from the stock piles.	Shall be complied. APPPL has installed wind breaking wall for dust pollution control in the open coal yard. The wind breaker wall is a porous perforated barrier. At the back of the wall, a low-velocity zone is formed. It effectively reduces the average wind speed, thereby prevents dust from moving, and achieves the purpose of dust suppression. The benefits include; <ul style="list-style-type: none"> ➤ Reduction of coal losses in open yard ➤ Saves water for dust suppression ➤ Improves the living conditions of local residents ➤ Improves the working conditions of the on-site staff Wind break walls have been erected around the coal stock pile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stockpiles. An amount of 58 crore is spent by APDPPL in erecting and maintaining the wind breaking wall around the coal yard Wind breaker of the same specification shall be provided in the additional storage area once completed.

S. No.	EMP Conditions	Compliance Status
	Road sweeping of dust is being undertaken using mobile van thereby preventing settled dust gets airborne due to movement of vehicles and high wind velocity and the same is recommended.	Complying with. Road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPPL. <ul style="list-style-type: none"> • Road cleaning by sweeping machine: APDPPL, have 02 nos. of large capacity road sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal. Manual Road Cleaning: In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by three team consisting of 5 members each. All the coal dust collected is sent to the coal yard.
	High-capacity vacuum cleaning machine installed at mobile truck is deployed for removal of dust settled on roads and the same practices will be implemented in the proposed project.	
	Regular wetting of the roads is undertaken through dedicated truck mounted spray arrangement with least water consumption. The same will be implemented in the proposed activities.	Complying with. Sprinkling of water is being done on the roads to control the dust.
2.2	Noise Control Management Plan	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	Shall be complied. Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	Complying with. DG sets installed in open area are provided with acoustic enclosure
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	Complying with. Compressor and DG sets & Pump house are installed in separate building and provided with acoustic enclosures.
	Movement of vehicles within the port will be restricted with speed control measures	Complying with. <ul style="list-style-type: none"> • Speed is limited within the port premises. • Proper signage also provided within the premises.
	Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port	Complying with. All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.

S. No.	EMP Conditions	Compliance Status
	Planting trees which act as barrier to arrest dispersion of noise levels along the internal roads and port boundary	Complying with. Green belt is being developed in an area of 23.39 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	Using electricity powered equipment inside the port instead of diesel-powered ones will be explored to the extent possible	Complying with. Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	Complying with. APDPPL is certified with the ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007. A proper change management process in place for any kind of deviation. However, there is no occurrence of noise level exceeding norms.
2.3	Storm Water Management Plan	
	Following areas will be provided with storm water drainage systems to prevent any surface run-off into the sea. <ul style="list-style-type: none"> • Reclamation of 23 Ha back up area • Coal stockpile development of 7.7 Ha area • Railway siding area 	Complying with. Coal stockpile and Railway siding area are provided with storm water drainage. Reclamation of 4 Ha area is being done. Remaining 19ha area will be developed phase wise, as per the future requirement.
	• The drainage water will be channeled through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains.	Complied with. Runoff from the coal storage is being routed through dump pond where all the particles settled down.
2.4	Solid & Hazardous Waste Management Plan	
	Port operator will prepare the robust waste management plan for the entire operations, process carried out during operation. As part of the plan, a scavenging boat will be anchored for collection of waste due to windblown into the sea.	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	Complying with. All the wastes are being managed in compliance to the respective waste management rules as amended.
	Solid Waste generated during port operations will be disposed as per Solid Waste (Management & Handling) Rules 2000. Wherever possible the recycle and reuse will be explored for possibilities of recovery of any useful material. Option for recycle/reuse if not economical, then the waste will be disposed as per the SWM Rules, 2000.	
2.5	Green Belt Development Plan:	

S. No.	EMP Conditions	Compliance Status
	It is proposed to develop nearly 6 ha. of green cover all along the boundary of the port. Green Buffer Zone is being implemented at Eastern project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	Complying with. Three tier green belt is being developed in an area of 23.39 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	It is proposed to develop further three tier greenbelt to increase efficiency of dust control.	
2.6	Community Development Plan	
	<p>The proposed CSR programs are based on the needs felt and socioeconomic indicators of the study. The proposed CSR programs can be initially implemented in the five villages of the study area that is Lakhigam, Luvara, Jageshwar, Ambetha and Dahej. Based on the outcome of the CSR programs, it can be expanded to the other villages apart from the study area. The proposed CSR Programs can be grouped into the following subheadings.</p> <p>Health Promotions Programs</p> <ul style="list-style-type: none"> ✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs ✓ Mobile Clinic 	Complied. The CSR activities are executed by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8.
	<p>Education Promotion Programs</p> <ul style="list-style-type: none"> ✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc ✓ Providing scholarship programs ✓ Sport Coaching centre 	
	<p>Economic Development Programs</p> <ul style="list-style-type: none"> ✓ Knowledge centre regarding various government schemes and latest technology ✓ Skill Development Training Programs 	
	<p>Women Empowerment</p> <ul style="list-style-type: none"> ✓ Sanitation Promotion Programs ✓ Construction and Maintenance of Sanitation complex ✓ Awareness Programs 	
	<p>Infrastructure development Programs</p> <ul style="list-style-type: none"> ✓ Developing internal roads of villages ✓ Developing drainage systems ✓ Solar Street Lights ✓ Construction / Maintenance of Community Halls ✓ Social Forestry 	
2.7	Village Specific Infrastructure Development Programs:	

S. No.	EMP Conditions		Compliance Status
	S. No.	Village	Programs
	1.	Luvara	Developing proper drainage system in the village.
	2.	Dahej	Providing Safe Drinking water Facilities in the schools
	3.	Dahej	Developing medical facilities in the PHC such as facilities for storage of perishable medicines,
	4.	Jageshwar	Developing Drainage System
	5.	Lakhigam	Developing Drainage System
	6.	Lakhigam Luvara Jageshwar	Developing Solar Street Light and Internal Village Roads
	7.	Ambetha	Developing Drainage System
	8.	Study Area Villages	Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.
	9.	Study Area Villages	Developing Safe Drinking facilities at Schools in the study area.
	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.
2.8	Environmental Management Cell		
	<p>APPPL has already established and maintained an Environmental Management Cell (EMC) with Head of Department (EHS), supported by field level executives and horticulturist for implementation of the compliance conditions as per Environmental Clearance obtained and GPCB Consent Conditions. Periodical monitoring activities are being undertaken by MoEF recognized and NABL accredited environmental laboratories. Environmental compliance reports are regularly submitted to MoEF regional office, Vadodara and New Delhi.</p>		<p>Complied. APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 9.</p>
	<p>EMC will be further strengthened in view of the proposed expansion by augmenting resources such as manpower and field equipments, for effective compliance of</p>		

S. No.	EMP Conditions	Compliance Status
	environmental clearance conditions. Environmental monitoring program will be undertaken by MoEF recognized and NABL accredited environmental laboratories as part of compliance report preparation and its submission to GPCB, MoEF Regional Office, Vadodara and New Delhi.	
2.9	Cost Estimates for Environmental Management Plan:	
	The estimated total cost of the proposed project is Rs.464.32 Crores. Under the project, about Rs.173.35 Crores is allocated towards pollution control equipment, implementation of environmental pollution control measures and environmental management programs.	Complied. Separate budget is allocated for Environmental Management activities. <ul style="list-style-type: none"> • Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 235 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6.



CSR DAHEJ
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EDUCATION

SDG Alignment

Sustainable Development Goal 4

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

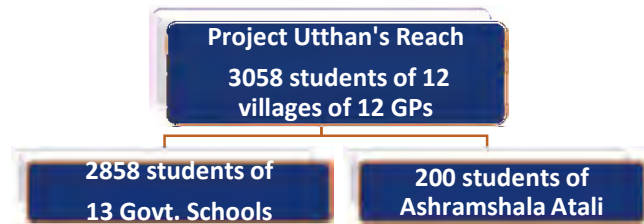
4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

4.1.1 Proportion of children and young people (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

4.2 By 2030, ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education

To foster students' learning abilities and achieve better learning outcomes at the grassroots, the Adani Foundation charted an innovative intervention in Year 2018-19 through Project Utthan at Mundra site. Same model is replicated at Dahej site. Adani Foundation, Dahej has signed an MoU with Department of Primary Education, Bharuch for implementation of project in 14 Govt. schools of project area. A separate MoU is signed with Ashramshala Atali. This comprehensive intervention entails:

- ✓ Adopting Government Primary Schools
- ✓ Tutoring Priya Vidyarthi (progressive learners)
- ✓ Arresting dropout rates
- ✓ Collaborating for teachers' capacity building
- ✓ Creating joyful learning spaces



Progressive Learners mainstreamed in Reading, Writing and Numeracy

Total 55 Progressive Learners out of 725 mainstreamed in Reading, Writing and Numeracy. In Reading: 19, Writing: 20 and Numeracy: 16. 725 Progressive learners identified out of 1561 students of 11 Schools from Class 3 to 6.

School Name	Number of progressive learners (Reading)	Mainstreamed (Reading)	Number of progressive learners (Writing)	Mainstreamed (Writing)	Number of progressive learners (Numeracy)	Mainstreamed (Numeracy)
Primary School Lakhigam	123	0	123	3	123	0
Primary School Luvara	69	3	69	2	69	1
Primary School Jageshwar	48	2	48	1	48	1
Primary School Ambetha	48	2	48	2	48	2
Primary School Dahej Kanyashala	112	2	112	2	112	2
Primary School Jolva	68	3	68	3	68	3
Primary School Suva	87	3	87	3	87	3
Primary School Ataliasharamshala	56	1	56	1	56	1
Primary School Koliyad	29	0	29	3	29	
Primary School Vegani	24	1	24	1	24	1
Primary School Kaladara	61	2	61	2	61	2
Total	725	19	725	20	725	16

English as a third language in Class 1- 4: Achievements

In Gujarat, the Government introduced English in class 4. Project Utthan initiated English as a third language to provide basics of English from class 1 with a structured syllabus. 530 students are covered so far.

S.N	School Name	Students	Teaching Activities	Remarks
1	Primary School Lakhigam	84	1.ABCD identification and utter the words	1. Students identifying the words
2	Primary School Luvara	38	2. Three letter words identification	2. Speaking ABCD without looking into books
3	Primary School Jageshwar	47	3.English Alphabet poem	3. Speak and write 1 to 10 numbers
4	Primary School Ambetha	37	4.Numbers identification from 1 to 10	
5	Dahej Kanyashala	77	Utthan Sahayaks taught students	
6	Primary School Jolva	53	- 3 letter words with phonetics	
7	Primary School Suva	52	- Matching 3 letter words with pictures	
8	Primary School Rahiyad	61	- Indoor games based on 3 letter words	
9	Primary School Vengni	18	- Free talk and counting numbers 1 to 50.	
10	Primary School Koliyad	22		
11	Primary School Kaladara	41		
12	Total	530		



Parental Engagement: Mothers' Meet

Project Utthan is conducting Mother's meet every month to discuss an academic and non- academic performance of the student.

Features of Mothers' meet

- Scheduled every second Saturday of each month.
- Pre decided agenda and status of action plan discussed at a length
- Meeting flow: Attendance - Prayer – Meeting agenda – action plan – recreational activities for mothers – Vote of thanks

S.N	Utthan Sahayak	Village Name	Home Visit	Become Regular	Mothers Meet	No of Mothers	Changes
1	Ankitaben	Lakhigam	35	4	8	36	1.Students seating at home for
2	Parulben	Luvara	37	1	5	28	homework and come with completed
3	Dineshbhai	Jageshwar	39	2	7	17	homework
4	Dimpalben	Ambetha	46	4	5	53	2. Mothers send their children regular
5	Arunaben	Dahej	76	2	6	23	to school
6	Alpaben	Jolva	51	3	6	32	3. The students come with neat and
7	Nilamben	Suva	61	3	7	67	clean at school
8	Dipikaben	Rahiyad	34	1	6	72	4. Mothers send their children regular
9	Sarojbhai	Vengni	48	1	5	31	to school
10	Renukaben	Kaladara	71	4	8	48	5. Nos of mother's participations is increased and regular follow up with Utthan Sahayaks
							6. Nos of mother's participations is increased and Mothers regular follow up with Utthan Sahayaks about her child progress.
		TOTAL	498	25	63	407	



Summer Activities sessions in Project Utthan

Summer Session activities organized with objective of to help the students to improve their academic foundation as well as develop new skill through innovative ideas. 15 days sessions were focused on scholastic (curricular) and co-scholastic (co-curricular) areas.

School Name	Home Visit	Students covered	Panchayat Member visited	SMC Member Visited
Primary School Lakhigam	12	163	1	1
Primary School Jageshwar	33	154	0	2
Primary School Koliyad	36	103	0	0
Primary School Vegni	05	84	1	0
Primary School Kaladara	69	119	0	1
Primary School Suva	10	137	1	0
Total	165	760	3	4



Reading Corners

The National Education Policy (NEP) 2020 emphasizes the importance of well-stocked school libraries and digital libraries to attain the goal of foundational literacy for all children by the year 2025. Reading corners are developed in schools where students enjoy book reading.

School Name	Books issued (Class 1 - 8)
Primary School Lakhigam	42
Primary School Luvara	26
Primary School Jageshwar	18
Primary School Ambetha	21
Dahej Kanyashala	52
Primary School Jolva	30
Primary School Suva	31
Primary School Rahiyad	34
Ashramshala Atali	33
Primary School Vengni	21
Primary School Kaladara	38
Total	346



SUPER MOM ACTIVITY

Supper Mom activity held in Utthan Project Schools (Lakhigam, Luvara, Jageshwar, Ambetha, Dahej Kanyashala, Jolva, Suva, Koliyad, Vengani and Kaladara Schools).

- Children expressed their feelings for mothers on piece of papers by drawing, slogans, paintings and poems
- Total 659 students participated from class 4 to 8th std
- Total 96 mothers also participated



OTHER ACTIVITIES

Balmela organized in 11 schools as extracurricular activity to help the students to identify different areas of interest, increase self- confidence and build leadership skill. 222 students participated in Balmela activities.

Class-room decoration activity organized in Utthan Schools with objective of creating ownership of class-room where they work and study. Total 110 students have participated from class 3 to 8th in class-room decoration activity like table decoration with flowers, birthday chart, 7 days of week chart, paper craft etc.



DAYS CELEBRATION

- **75 Independence Day celebrated** in Utthan schools. Total 1050 students participated in various programs : singing patriotic songs, dance and speeches on great freedom fighters
- **National Sports Day celebrated** in 14 Govt. Schools to honor the birth anniversary of hockey hero Late Shri. Major Dhyan Chand. Utthan Sahayaks shared a short biography of Shri Major Dhyan Chnad in morning assembly, mini sports tournament for mothers and students were held and sports quiz competition were also organized for class 5 to 8 students.
- **Rakshabhandahan** celebrated in 13 Schools. Class 1 to 8 participated in the biodegradable Rakhi making activities and tying with trees.
- **Teachers' Day Celebration:** Total 230 students of class 6 to 8 participated in playing role of teachers. 13 no. of students selected as Headmasters' role in the schools
- **Grand Parents Day Celebrated** with 233 grand parents. They were greeted in special morning assembly with roses and cards made by the students.
- **Hindi Diwas Celebrated** in 11 schools with 2001 students. Students of class 6 to 8 presented Dohas of SaintTulsidas & Saint Kabir and wrote essays.
- **World Yoga Day"** celebrated in 14 schools of Vagra taluka by various activities and celebrations were held from 14th June to 22nd June 2022 at different places in which a total of 1350 children participated enthusiastically.

GSA @ 60 CELEBRATION

Sh. Gautambhai Adani Sir's 60th Birthday celebrated in 31 schools of Bharuch district. 6000 sweet packets distributed among the students. On this occasion Govt. officials, teachers, utthan sahayaks and students sent their best wishes to GSA Sir.



SUSTAINABLE LIVELIHOOD DEVELOPMENT

PASHUDHAN PROGRAM

SDG Alignment: 2/1.1, 2.5

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants, and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

KEY HIGHLIGHTS

- Total 220 inseminations were done out of which 115 inseminations in cows i.e., 53% against total inseminations and remaining 105 in buffaloes i.e., 47% against total inseminations. Buffaloes are seasonal breeder therefore their breeding season will start from August onwards to January.
- Total 115 inseminations were done in cows out of which 66 inseminations were done w.e.f. April to September 2022 for which follow up was done for confirm pregnancy and 31 cows are found confirm pregnant. Conception rate in cows is 47%.
- Total 106 inseminations were done in buffaloes out of which 38 inseminations were done w.e.f. April to September 2022 for which follow up was done for confirm pregnancy and 19 buffaloes are found confirm pregnant. Conception rate in Buffaloes is 50.00%.
- Total 55 inseminations done in Gir cows and 45 non-descript cows inseminated with the use of pure Gir Semen.
- Highest number of inseminations were done in village Vengni - 83 where 37.72% against total number of inseminations during this period followed by Dahej and Lakhigam where 15% and 10.45% inseminations were done.
- On 100% Follow up basis 95 inseminations was completed which were done w.e.f. April to June 2022. Examination of 95 animals was done for confirm pregnancy out of which 50 animals were found confirm pregnant to overall conception rate is 52.63% nearly 53%.
- Total 92 calving reported during this period out of which 52 are in cows and 40 in buffaloes.
- Total 51 female calves are born out of 92 calving.

Cattle Breeding Center Village Wise Details April to September- 2022														
Village	AI			Pregnancy Diagnosis			Conform Pregnancy			Cow Calving		Buff Calving		Total
	Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total	Male	Female	Male	Female	
Lakhigam	15	18	33	20	30	50	16	16	32	8	5	3	4	20
Luvara	14	9	23	10	7	17	3	8	11	1	1	1	0	3
Jageshwar	3	11	14	9	21	30	6	9	15	2	2	1	1	6
Ambheta	0	10	10	2	11	13	1	7	8	0	0	0	1	1
Dahej	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jolva	0	4	4	0	4	4	0	1	1	0	0	0	1	1
Suva	1	18	19	2	13	15	2	4	6	0	0	0	2	2
Rahiyad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koliyad	1	7	8	0	12	12	0	6	6	0	2	3	3	8
Atali	68	15	83	92	22	114	35	10	45	7	8	0	2	17
Vegni	9	10	19	8	14	22	5	6	11	7	7	8	10	32
Kaladra	4	4	8	4	4	8	2	2	4	0	2	0	0	2
Total	115	106	221	147	138	285	70	69	139	25	27	16	24	92

SEX SORTED SEMEN

- During the year 2022-23 (up to September 2022), total 78 Artificial inseminations with the use of sex sorted semen were performed out of which follow up of 9 inseminations for confirm pregnancy was completed, 4 animals are found confirm pregnant
- During the year, total 11 calving reported and all 11 are female calves

CAPACITY BUILDING

5 nos. of trainings on animal management practices held in Suva, Rahiyad, Lakhigam, Vengani and Jageshwar villages. 225 farmers were trained out of which 169 were female participants and remaining 56 were males. These participants holds total 443 milking animals.

PROMOTION OF MINERAL MIXTURE

283kg mineral mixture was given to 113 farmers of 9 project villages

GREEN FODDER CULTIVATION

15 beneficiaries sowed green fodder stumps in 2.95 acres land. They have been receiving production continuously. Up to September 2022, the total production 134.10 ton and savings of 15 beneficiaries is **Rs. 3,74,580/-**.

IMPACT PERIOD: April to September 2022

S.N	Particular	Amount Rs.	Remarks
1	Calving of 05 Cow & Buffalos progenies are occurred till date. Assuming average milk production per lactating progeny will be 2000 liters. Accordingly, it is expected that they will produce total 9000 liters of milk which is being sold @ Cow Rs. 35 & Buffalo 55/litter	3,75,000	
2	Total 185 female calves are born in project villages whose age wise valuation as Asset Value is in attached sheet.	9,83,000	
3	Total 140 male calves are born in project villages whose age wise valuation as Asset Value is in attached sheet.	1,40,000	
Total Rs.		14,98,000	

Created Female Asset Value Report Period: - April -2022 to Sept-2022

S.N	Age (Month)	No of Female			Total Asset Value Rs.		Remarks
		Cows	Buffalo	Total	Total		
1	0 to 6	97	72	169	2,000	3,38,000	
2	6 to 12	-	-	-	6,000	-	-
3	12 to 18	-	-	-	15,000	-	-
4	18 to Up 36	-	-	-	20,000	-	-
5	36 & above	-	-	-	25,000	-	-
6	Progeny AI	2	2	4	30,000	1,20,000	Cow Rs.25000 + Buffalo Rs.30000
7	Progeny Pregnant	3	4	7	37,500	2,62,500	Cow Rs.35000 + Buffalo Rs.40000
8	Progeny Calving	3	2	5	52,500	2,62,500	Cow Rs.45000 + Buffalo Rs.60000
	TOTAL A	105	80	185	-	9,83,000	

BAIF Born Progeny Production Parameter April - September 2022						
S.N	Animal Species	No. of Animal in production	Average Milk Production in Lactation (in Litre)	Rate of Milk (in Rs.)	Total Milk Production (in litre)	Total Milk Income (in Rs.)
1	Cow	3	2000	35	6000	210000
2	Buffalo	2	1500	55	3000	165000
TOTAL B		5	3500	90	9000	375000
TOTAL A+B						13,50,000

Male Asset Value Report Period: - July-2022 to Sept-2022							
S. N	Age (Month)	No of Male			Market Rate Rs.	Total Value Rs	Remarks
		Cows	Buffalo	Total			
1	0 to 6	63	40	103	1,000	1,03,000	
2	6 to 12	-	-		2,000		-
3	12 to 18	-	-		5,000		-
4	18 to 36	-	-		8,000		-
5	36 to 48	-	-		15,000		-
6	48 to 60	-	-		25,000		-
Total		63	40	103	-	1.03.000	



PROJECT ANNAPURNA

Training on soil sample collection

AF team conducted theory and practical sessions on soil sample collection for soil test with 35 farmers of farmers of Koliyad and kaladara villages.

Points covered:

- Objective of the activity
- Suitable time for soil sample collection
- Farm preparation before soil sample collection
- Required tools
- What details should farmers mention with tag(Farmer name, land details, 2 contact numbers, Address, details of collect sample for how many land, last sowing crop)
- Selection of areas of the farm for sample collection

Smart Agriculture Activity

On 08 August'22 AF organized farmers' training on soil test report of farmers in Koliyad village. This training was conducted by Shri Lalit Patil- Agricultural Scientist Krishi Vigyan Kendra, Bharuch. 22 farmers participated in this training.

Points of discussion:

- Elements of soil analysis
- Recommendation of biological and chemical fertilizers as per crop report
- Micronutrients' importance in soil
- Discussion on green manure (green padwas)



Women Empowerment : Self Help Group: Achievements

S.N	Group	Members	Type of Business	Monthly Saving (In Rs.)	Total Savings (In Rs.)	Six Month income (In Rs.)
1	Shiv Shakti Sakhi Mandal, Jageshwar village	10	Bag making & face masks	1000/-	77566/-	1,36,750/-
2	Mahadev Mahila Sakhi Mandal, Luvara	11	Vermi compost	1100/-	57270/-	29,840/-
3	Sadhdada Mahila Sakhi Mandal, Lakhigam village	11	Amul Parlour & Snacks	5500/-	99,659/-	1,19,176/-
4	Ekta Mahila Sakhi Mandal, Jolva village	10		1000/-	13237/-	
5	Guashala Mahila Sakhi Mandal, Suva	10		1000/-	4000/-	
	Total	52				2.85,766/-

Vande Gujarat Exhibition

SHG Mahadev Mahila Sakhi Mandal, Luvara got an opportunity to participate in "Sakhi Melo and Vande Gujarat" exhibition organized by District Livelihood Mission. In one week long 28th June to 4th July 2022 50 SHGs were participated



Gram Bharti 2022 #Vocal for local

Adani Foundation had organized Gram Bharti 2022 to promote SHGs products at big platform. SHGs of 5 states –

1. Gujarat: Mundra, Dahej & Hazira

2. Maharashtra: Tiroda & Dighi

3. Tamilnadu: Kattupalli

4. Chhattisgarh: Surguja & Raipur

5. Uttar Pradesh: Varanasi participated in the exhibition held at Adani Corporate House, Ahmedabad from 26th to 28th September 2022.

Bharuch special SUJANI and bamboo craft items got a big platform @ ACH. Bamboo craft items made by Primitive Tribe Group of KOTWALIYA women of JAY DEVMOGRAMAA GROUP, Hathakundi village (Netrang taluka of Bharuch District got a good response.

Their total sale of 3 days: Rs.41000/- and they got an order of Rs.20000 from Adani Dahej Port.

Sujani is exquisitely woven into beautiful geometric designs and stuffed with clouds of cotton is made by Md. Mujakkir Sujaniwala and his family members. Total sale: Rs.20100/- and got an order of Rs. 25000/- from Adani group.



OTHER ACTIVITIES

Meeting with Shree Maharsingh Vaidik Gir Gaushala, Chandwara :

AF team visited Shree Maharsingh Vaidik Gir Gaushala, Chandwara Ta: Dabhoi, District: Vadodara and met Mr. Vipulbhai Rabari. He is a trained Panchadravya Therapist. This Gaushala works on objective of "Gay Thi Nirogi Jeevan". He would extend his support in training to SHGs, youths for jiwamrit, ghanamrit and other cow dung products and support in marketing of products.

Nurseries of Bharuch & Ankleshwar: Team paid visits to Rang Nursery, Vrindawan Nursery of Bharuch and Shri Nursery and other 3 for vermi compost selling produced by SHG.

Packaging units of GIDC, Bharuch: On 4th June 2022 AF team had meetings with G.Flexipack, Polymer Industries and Packaging Industries for different types of packaging materials for vermi compost bags at economical rate.



HON. CHAIRPERSON'S BIRTHDAY CELEBRATION by SHGs

On 29th Aug'22 Empowered SHG women celebrated birthday of 'Empowerment Icon' Dr. Priti G Adani Ma'am in Lakhigam village. 3 SHGs - Sadhdada Mahila Sakhi Mandal, Mahadev Mahila Sakhi Mandal & Shiv Shakti Sakhi Mandal invited AF team and old age women & other women for this great day. Experience sharing, cake cutting followed by garba were the main attraction. More than 80 women enjoyed the event.

- ✓ Birthday also celebrated in Project Utthan Schools. 1006 sweet packets distributed in Govt. Primary Schools as Primary School Lakhigam, Primary School Suva and Primary School Rahiyad. School students have sent birthday cards to respected Ma'am by post.



World Environment Day celebrated at Dahej Port and 5 tribal villages of Netrang taluka. 1375 nos. of plantation were done.

District Level Meeting for Van Mahotsav: AF participated in 73rd Vanmohotsav tree Plantation reference to Green Bharuch District-coordination meeting at Collector office Bharuch. Vanmohotsav objective & planning sharing by Ms. Urvashiben Deputy conservative forest Officer, Bharuch . District Collector Shri Tushar Sumera focused on microplanning to reach the target of tree plantation.

AF got appreciation letter from Forest Department for lead role in plantation in villages.



Jageshwar Panchayat Member visited AF Office

Sapanch – Naginbhai Rathod, PRI Members- Ranjitbhai Patel, Uday Patel, Arjunbhai Patel and Mukeshbhai visited AF office. Purpose of the visit was to get support from AF in village development through CSR activities. They appreciated CSR activities carried out in villages so far.

Jageshwar Panchayat discussed on

- Support to 20 marginalized fisherman of the villages
- New SHG formation
- Major role of AF in village development



Community Infrastructure Development

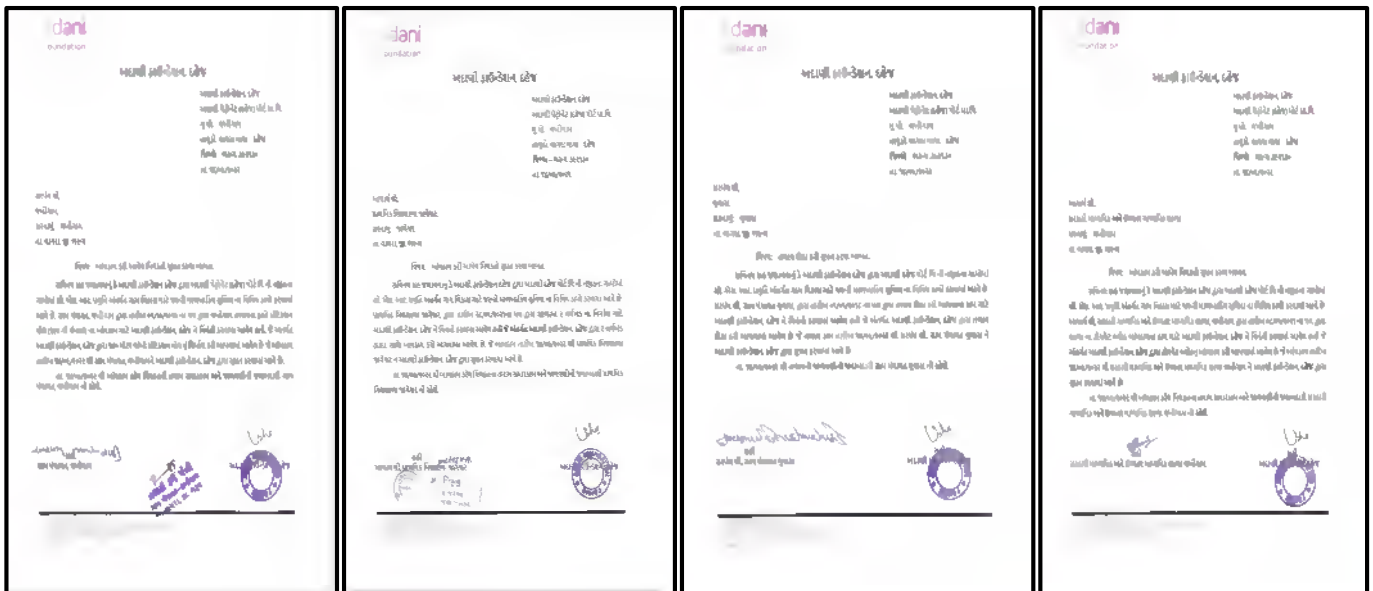
Work completed

- Library at Eklavya Vidyalaya, Thava, Ta. Netrang. Tribal area students of nearby 15 villages of Netrang and Dediapada will get benefitted. Seating capacity is 36 students
- Construction of 2 classrooms at Primary School, Jageshwar
- Construction of 140 m retention wall at Lakhigam pond
- Handover of structures:
 - ✓ 2 Classroom developed at Jageshwar School
 - ✓ Toilet block constructed at Lakhigam Secondary School
 - ✓ Construction of retention wall (140 m) at Lakhigam Pond
 - ✓ Bund strengthening of Luvara Pond



Thava Library, Netrang inaugurated by Sh. Capt. A.K.Singh, CEO – Dahej & Hazira Port

Classroom construction @ Primary School, Jageshwar



Work in Progress

- Green belt development around Luvara Pond
- Multi purpose hall, Lakhigam
- Play ground development @ Samatpora School



TRIBAL DEVELOPMENT INITIATIVES

Interventions in tribal area of Bharuch District started on regular basis. 18 villages are divided into 2 clusters: Mauja Cluster & Vankhunta Cluster. AF team met stakeholders of the villages

- 51 nos of interactions with SHGs' members held in 18 villages of tribal area - Dabhal, Mahudikhanch, Koliyapada, Madvi, Pada, Vankhuta, Mugaj, Machamadi, Vankol, Umakhada, Anjoli, Mauza, Umadabara, Hathkundi, Pujpujya, Navijamuni, Junijamuni and Kavachiya.
- Meeting with Mr. Hiren Patel, Block Resource Coordinator-Netrang, Department of Education, Govt. of Gujarat, for support in CSR interventions of Adani Foundation in 18 villages of Netrang.
- Meeting with Shantuben Vasava, Taluka Livelihood Manager of Mission Magalam promoted by Gujarat State Livelihoods Promotion Company for support in activation of SHGs' which are inactive.
- Meeting with Pinteshbhai Multipurpose Health Worker (MHW) of Moriyana PHC & (Community Health Officer) CHO Ms. Kinjalben Parmar Mauza village for the support in planned interventions of Adani foundation in the Taluka Netrang.
- Adani Foundation visited 18 village sarpanches, 41 PRI members, 21 Asha workers, 17 Talatis and 18 School Head Teachers for sharing AF's CSR initiatives



HRIM Consultancy & AF's visit

Sh. Kshitij Sharma, Head – Monitoring and Evaluation, AF HO Ahmedabad and Hrim Consultancy, Delhi team Mr. Yashwardhan Singh, Damini Singh and Ayesha along with AF Dahej team visited tribal villages of Netrang block, Bharuch.

Points Discussed

- Health issues of women, Agriculture problems of community, Education issues and major issues come out during the discussion were lack of irrigation facilities, drinking water facility and accessibility to health and education institutions.
- Netrang Block- TDO Mr. R.C. Malik focused on agriculture, animal husbandry and water conservation interventions.



Insights for intervention in EDUCATION

- Coaching for National Means cum Merit Scholarship (NMMS). School teachers can give coaching. (1200rs. Financial assistance from 9th class to 12th class).
- We can promote kabaddi, kho-kho and athletics as students are active and have interest. They can perform better if they get proper training and support of sports materials.

AF team visited **Hathakundi and Mauza School, KVK SHG group Chasvad village and Thava School- Netrang Block**

- Kotwalia is one of the **Particularly Vulnerable Tribal Groups (PTGs)** in southern Gujarat. They have expertise in bamboo craft which traditionally is the major source of income for them.
- Total 312 Kotwalia families are in Hathakundi, Punjpujiya, Mota Jamuniya, Pingot, Botangar, Varkhadi and Rupghant villages of Netrang taluka.

Insights for intervention:

- Need support in form of shed for baboo craft work in the village. They have the requirement of small machines for bamboo craft work.



Linkage with Govt. Schemes with objective Beneficiaries: Cattle dwellers, farmers & SHGs avail the benefits of Govt. schemes and get inclination towards natural farming

Adani Foundation, Dahej facilitated **23 dairy farmers** of 5 villages – Lakhigam, Luvara, Atali, Vengani & Kaladara to get register under Govt.'s Animal Husbandry scheme - **Mining assistance to pregnant cattle (cows / buffalos) of common breed breeders.** They will get benefit 100% written assistance for a total of 250 kg mining per beneficiary.

4 dairy farmers registered under scheme of Assistance to general caste cattle herders on purchase of power-driven **chaff cutter**. He will get benefit whichever is **75% subsidy** of the purchase price or Rs.18,000/- whichever is less. 2 beneficiaries have got the benefits.

2 dairy farmers registered under scheme of Plan for organizing the **best Animal Husbandry Award** Ceremony in the state. He will get benefit (1). Taluka Level Award - First Prize - Rs. 10000, Second Prize - Rs. 2000 (2). District Level - First Prize - Rs. 15000, Second Prize - Rs. 10000 (3). State Level Award - First Prize - Rs. 30,000, Second Prize - Rs. 30,000, third prize - Rs. 30,000 Total Prizes = 2

2 animal holder registered under scheme of Assistance on purchase of fodder after sterilization of cattle (cows / buffaloes) of common breeders. He will get benefit 100% per beneficiary for a total of 150 kg mining.



Meeting with District Livelihood mission: On 21st May AF team had a meeting with District Livelihood mission at Bharuch. Mr. Nilesh bhai Rathore, APM, Bharuch suggested income generation activities based on his field observations for Jolva village based SHG –

- Home made spices
- Banana & potato chips making
- Vegetables' selling

Jolva village has urbanized culture. Migrant workers in large nos. are residing here. There is a good scope for daily need items.

Meeting with officials of Farmers Training Center, Bharuch

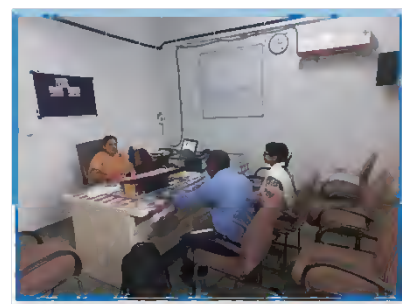
Mr. Suresh Panchal (ATMA Project Block Coordinator) and Mr. Imran bhai of training center shared about the details of training programs organize for farmers at village & district level.

Special training on Subhas Parekar Model of natural farming is also organized. In addition, exposure visits for farmers within district, out of district and out of state are also held.



Meeting with DIET, Bharuch Principal

- Ms. Komalben, Principal, DIET was happy with Project Utthan
- She focused on National Education Policy and Foundation Literacy and Numeracy.
- She referred the books I Meri Jadui Shala, Todo Chand, Diva Na Swapana for Utthan Sahayaks.
- She expressed her willingness to contribute to Project Utthan
- DIET will support in capacity building of Utthan Sahayaks



SUCCESS STORY

Silage effect on milk production

My name is Maheshbhai Haribhai Ahir. I live with my family at Atali village. Milk production and selling is our prime source of income. In my family we have 5 acres cultivable land and animal asset of 3 cows and 23 buffalos. At present 2 cows and 20 buffalos are in lactation period. This is our 2nd generation engaged in rearing of animals.

We face green fodder scarcity in summer as green fodder cultivation is affected due to lack of irrigation facility. In rainy season there is ample green fodder for the animals. Green fodder has an important role in milk production.

On 18.1.2022 Adani Foundation had conducted farmers meeting in our village. In this meeting we got information on – Silage making for animals feeding. Silage making would solve the problem of unavailability of green fodder in summer. In March 2022 I got 10 silage bags of 50kgs. Total silage: 500 kgs. After feeding of silage milk production increased by 2 litres per day (from current milk production 6 litres). Total increase in milk production 120 liters in 60 days and total increase in income Rs. 7200/- in just 60 days. I have compared my milk production of last year (2021) and this year (2022) of same season & same animal given in table.



Income-Production in year 2021			Income-Production in year 2022			Remarks (In Rs.)
Last Year milk production (Liter)	Rate of Milk (Rs)	Income from Milk (Rs)	This Year milk production (Liter)	Rate of Milk (Rs)	Income from Milk (Rs)	
300	60	18,000	480	60	28,800	10,800

I left Tobacco addiction: Illaben

My name is Illaben Vinodbhai Rathod, studying in class-6 at kanyaShala Dahej. My parents, Vinodbhai and mother Manjuben are daily wage workers. We live in small Indira Awas got under Government Scheme. My two sisters are doing house cleaning & labour work in Dahej area. My parents were not taking too much interest in my studies as both were engaged with earning bread and butter for the family. Every day I used to go to my Anuty's house to get ready for going to school but my Aunty was addicted with tobacco chewing and alcohol. I had to stay with my aunty Dariyaben as there was no other option. It was continued for almost 3 years. In between I became a tobacco addict. Rather going to school, I helped my aunt in her household work. I was an irregular student – attained the class only four or five times in a month that affected my learning ability.

One day Utthan Sahayaks, Arunaben came in my Rathod community for home visit. She had a small meeting with my classmates' mothers and making them realization of importance of education and benefit of school going. I was standing next to her, and she asked me "which class you are studying" I was not able to utter a single word. My neighbor Dadi says "she is not going to school and simply wondering with peer groups.

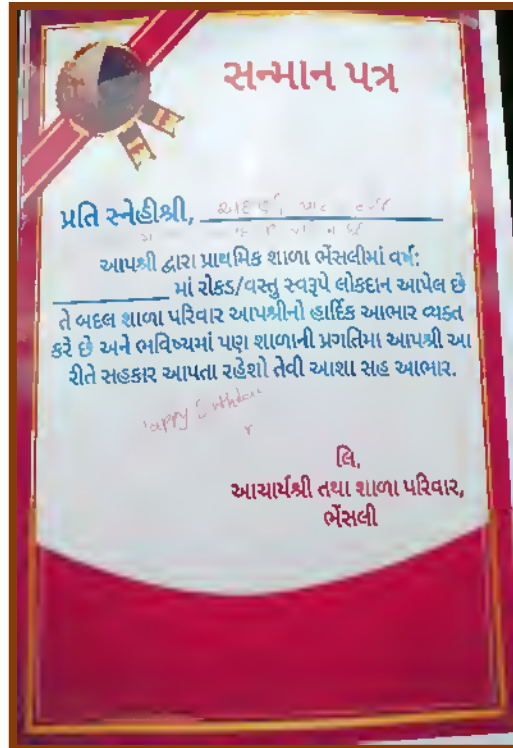
After knowing about me, Utthan Sahayak visited two times in a day to meet my parents and aunty to convince them about sending school. After her continuous efforts, she met with my parents and explained how absenteeism could affect learning ability of a child.

After long time I started going to school but my habit of taking tobacco chewing was continued. I didn't take tobacco during school time. I used to run away from school for taking tobacco to my Aunty's house. Utthan Sahayak, explained the difficulties of an addicted person. She spent full days with me in the school, it was almost for a week.

Today, I am a regular student and taking interest in learning. I totally stopped tobacco chewing and myself get ready for school. I am grateful to Utthan Sahayak for supporting in such conditions and educated me on de-addiction. Within a month I am able to identify the numbers and Gujarati alphabets. She admitted that it is only possible through Arunaben (Utthan Sahayak).



APPRECIATION



ANNEXURE 1: Villages

Adani Foundation- Dahej										
Villages around Dahej Port										
S.N.	Village	District	Taluka/Bloc k	Panchayat	Households	Populatio n	Gender		SC- Populatio n	ST- Population
							Male	Female		
1	Lakhigam	Bharuch	Vagra	Lakhigam	1217	4938	3144	1794	87	584
2	Luvara	Bharuch	Vagra	Luvara	385	1663	873	790	109	963
3	Jageshwar	Bharuch	Vagra	Jageshwar	383	1571	818	753	18	146
4	Ambheta	Bharuch	Vagra	Ambheta	347	1552	807	745	67	261
5	Dahej	Bharuch	Vagra	Dahej	3426	13495	8345	5150	542	2090
6	Jolva	Bharuch	Vagra	Jolva	338	1442	807	635	239	199
7	Suva	Bharuch	Vagra	Suva	413	1920	973	947	63	354
8	Rahiyad	Bharuch	Vagra	Rahiyad	355	1694	862	832	105	104
9	Koliyad	Bharuch	Vagra	Koliyad	152	676	321	355	57	323
10	Kaladara	Bharuch	Vagra	Kaladara	393	1663	934	729	108	570
11	Vengani	Bharuch	Vagra	Vengani	202	908	462	446	40	279
12	Atali	Bharuch	Vagra	Atali	239	1150	612	538	117	381
13	Akhod	Bharuch	Vagra	Akhod	174	831	435	396	69	305
14	Galenda	Bharuch	Vagra	Galenda	120	611	314	297	5	91
15	Janiadara	Bharuch	Vagra	Janiadara	150	729	361	368	25	248
16	Nadarkha	Bharuch	Vagra	Nadarkha	92	447	220	227	16	64
17	Narnavi	Bharuch	Vagra	Narnavi	151	692	349	343	64	140
18	Padariya	Bharuch	Vagra	Padariya	131	647	340	307	13	131
19	Pakhajan	Bharuch	Vagra	Pakhajan	255	1286	671	615	79	366
20	Samatpur	Bharuch	Vagra	Samatpur	79	367	182	185	4	49
21	Sambheti	Bharuch	Vagra	Sambheti	82	416	226	190	12	37
22	Vadadla	Bharuch	Vagra	Vadadla	201	822	419	403	76	341
23	Vav	Bharuch	Vagra	Vav	155	727	378	349	28	163
24	Kadodara	Bharuch	Vagra	Kadodara	420	1995	1018	977	48	511
25	Bhensali	Bharuch	Vagra	Bhensali	228	1123	582	541	45	415
26	Khojbal	Bharuch	Vagra	Khojbal	287	1513	782	731	40	425
27	Kothia	Bharuch	Vagra	Kothia	111	555	279	276	45	236
28	Nandida	Bharuch	Vagra	Nandida	160	719	383	336	64	267
29	Amleshwar	Bharuch	Bharuch	Amleshwar	494	2392	1261	1131	96	1233
30	Bhadbhut	Bharuch	Bharuch	Bhadbhut	786	3835	1953	1882	115	1036
31	Eksal	Bharuch	Bharuch	Eksal	194	938	467	471	47	285
32	Hinglot	Bharuch	Bharuch	Hinglot	395	2000	1037	963	109	261
33	Kasva	Bharuch	Bharuch	Kasva	272	1336	681	655	90	619
34	Kesrol	Bharuch	Bharuch	Kesrol	165	818	430	388	60	328
35	Mahegam	Bharuch	Bharuch	Mahegam	244	1235	656	579	21	246
36	Manad	Bharuch	Bharuch	Manad	233	1076	539	537	83	422
37	Navetha	Bharuch	Bharuch	Navetha	196	974	472	502	105	364
38	Vadva	Bharuch	Bharuch	Vadva	114	610	306	304	22	308
39	Vesdada	Bharuch	Bharuch	Vesdada	142	746	390	356	35	308
40	Desan	Bharuch	Bharuch	Desan	194	963	501	462	151	447
	Total				14075	63075	34590	28485	3119	15900

Jhagadia & Netrang Blcok tribal Village Detail												
Sl.	Village Name	Panchayat	Block	District	Household	Population	Gender		Caste			
							M	F	ST	SC	OBC	GEN
1	Anjoli	Anjoli	Netrang	Bharuch	288	1498	795	703	1498	0	0	0
2	Hathakundi	Mouza	Netrang	Bharuch	265	1349	671	678	1349	0	0	0
3	Punjpujiya	Kavachiya	Netrang	Bharuch	280	1142	574	568	1142	0	0	0
4	Dabhal	Dabhal	Jhagadia	Bharuch	153	844	416	428	844	0	0	0
5	Junijamuni-1	Mouza	Netrang	Bharuch	270	1265	650	615	1265	0	0	0
6	Kavachiya	Kavachiya	Netrang	Bharuch	530	1870	940	930	1870	0	0	0
7	Koliyapada	Vankol	Netrang	Bharuch	130	874	439	435	874	0	0	0
8	Machamadi	Vankhutha	Netrang	Bharuch	143	724	356	368	724	0	0	0
9	Madavi	Kantol	Jhagadia	Bharuch	78	296	153	143	296	0	0	0
10	Mahudikhach	Dabhal	Jhagadia	Bharuch	78	270	145	125	270	0	0	0
11	Mouza	Mouza	Netrang	Bharuch	248	1175	533	642	1175	0	0	0
12	Mugaj	Vankhutha	Netrang	Bharuch	132	511	259	252	511	0	0	0
13	Nava Jamuni-1	Mouza	Netrang	Bharuch	261	1000	450	550	1000	0	0	0
14	Pada	Vankhutha	Netrang	Bharuch	130	486	247	239	486	0	0	0
15	Umadabara	Mouza	Netrang	Bharuch	135	558	260	298	558	0	0	0
16	Umarkhada	Vankol	Netrang	Bharuch	172	883	468	415	883	0	0	0
17	Vankol	Vankol	Netrang	Bharuch	168	707	363	344	707	0	0	0
18	Vankhutha	Vankhutha	Netrang	Bharuch	268	852	440	412	852	0	0	0
	Grand Total				3729	16304	8159	8145	16304	0	0	0

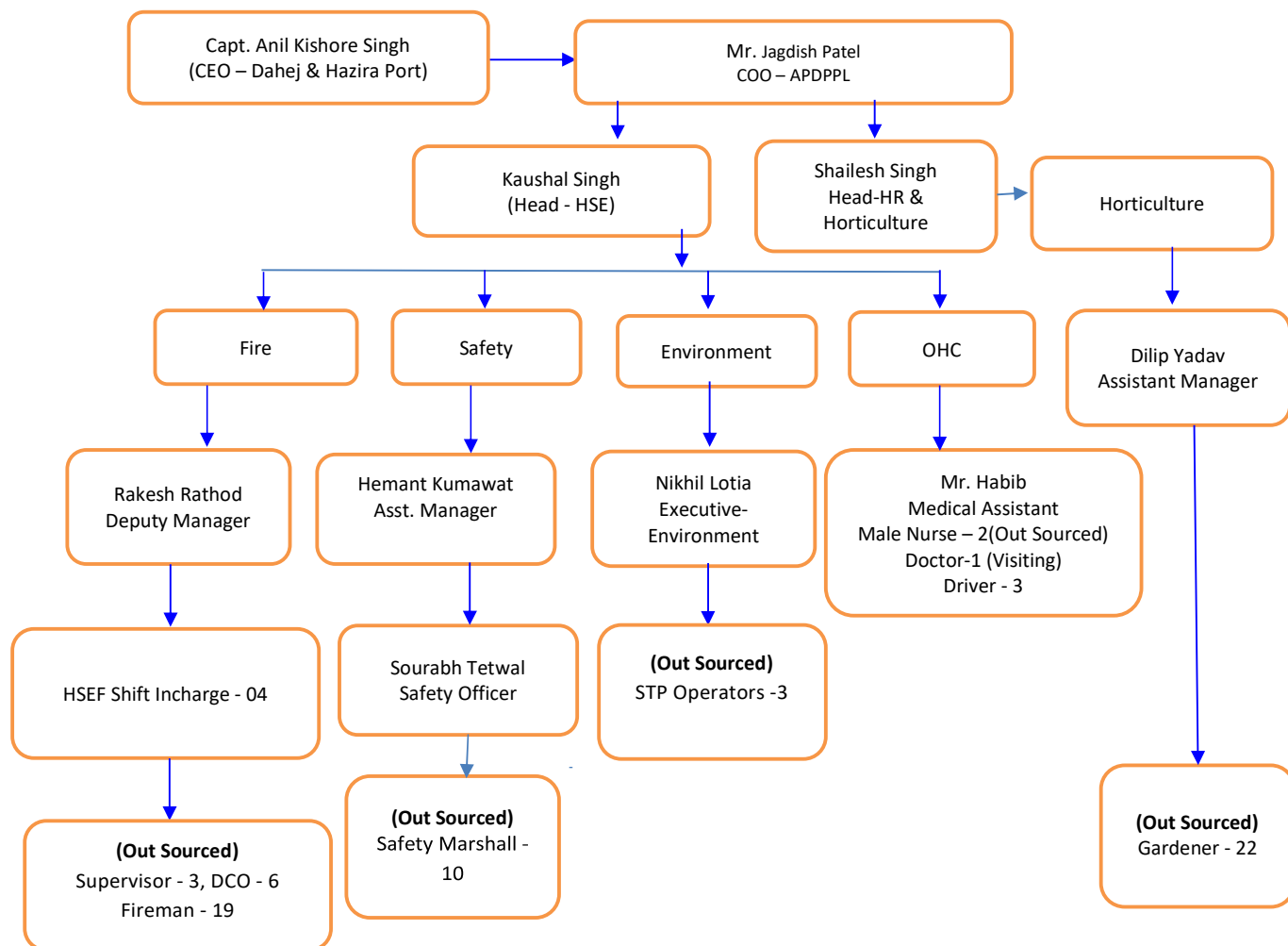
TOTAL POPULATION

							Gender		Caste	
S.N	District	Blocks	Village	Panchayat	Hoseholds	Population	Female	Male	SC	ST
1	Bharuch	Vagara	28	28	10646	46152	20255	25897	1991	8700
2	Bharuch	Bharuch	12	12	3429	16923	8230	8693	934	5857
3	Bharuch	Jhagadia	3	3	309	1410	696	714	0	1410
4	Bharuch	Netrang	15	5	3420	14894	7449	7445	0	14894
Total	1	4	58	48	17804	79379	36630	42749	2925	30861

Annexure - 6: Organogram of APDPPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT LTD.

Department: QHSE Management Cell



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Associate Manager -HSE	Dip-Mech, PGDFS, NEBOSH	16 Years
2.	Rakesh Rathod	Deputy Manager - HSE	B.E. Mech., M. tech – Industrial Safety, PDIS	16 Years
3.	Dilip Yadav	Assistant Manager (Horticulture)	B. Tech Agriculture Science	14 Years
4.	Hemant Kumawat	Asst. Manager	Dip – Mech, Dip. In Fire & Safety, NEBOSH	13 Years
5.	Nikhil Lotia	Executive- (Environment)	B.E. Environment	7 Years

Annexure – 7: Environment Budget and Expenditure for the FY: 2022-23

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2020- 2021	2021-2022	2022-2023	2022-2023
1.	EHS Manpower	6.85	5.5	3.00	7.0
2.	Legal & Statutory Expenses	7.16	1.12	0.15	1.0
3.	Environmental Monitoring Services	16.52	14.71	5.50	16.0
4.	Cost for Water Consumption and use dust suppression	46.08	84.62	134.0	126.0
5.	Hazardous Waste Management & Disposal	2.72	1.32	2.00	3.0
6.	Greenbelt Development and Plantation	44.00	38.0	15.58	42.21
7.	O&M of Sewage Treatment Plant	6.77	5.99	3.00	6.0
8.	Environment Day Celebration	0.10	0.36	0.35	0.50
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	1.00	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	49.83	61.68	24.27	62.26
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	59.70	99.04	38.94	89.19
12.	Environmental Study / Audit and Consultancy	3.07	0.54	0.30	1.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	6.78	4.07	2.30	3.0
14.	Environment Display Board	5.36	0.39	0	1.0
Total Amount (In Lacs)		256.86	319.26	230.39	234.16

Annexure 8: Green Belt Details

Adani Petronet Dahej Port Pvt. Ltd., Dahej
Green Zone details up to September 2022

Sr. No.	Green Zone No	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm	Remarks	
1	68 (a)	CG-3	0.02	200	Ixora				Implimented	
			0.01	139	Hibiscus					
		0.03	270	Eranthemum						
		0.45	500	Delonix regia						
		0.23	250	cassia simia						
		0.20	450	Coconut spp.						
		0.10		Shrub	1000					
		0.15		Lawn		1500				
		0.020		Palm			50			
		0.008000	20	peltoferum						
	0.39	1300	Casurina Equisitifolia							
		0.27	600	Casurina Equisitifolia				Implimented		
Total			1.88	3120.00		1000.00	1500.00	50.00		
2	68 (b)	Gcptcl boudry wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia				Implimented	
		APPPPL office area (SS-7)	0.36	450	Delonix regia				Implimented	
		Gcptcl boudry wall site plantation (phase-1 a)	0.16	700	Delonix regia				Implimented	
			0.10		Shrub	1000				
			0.8		Lawn		8000			
			0.04		Palm			100		
			Total	2.81	7150.00		1000.00	8000.00	100.00	
3	68(C)	LNG Site Boundry wall site plantation	0.95	4200	Casurina Equisitifolia				Implimented	
			0.04		Palm			100		
4	68 (d)	Stack yard	0.72	3200	Casurina Equisitifolia				Implimented	
Total			1.71	7400.00		0.00	0.00	100.00		
5	68 (e)	Road site Avenue tree plantation	0.77	1700	Casurina Equisitifolia					
			1.53	1700	Conocarpus					
			1.08	1800	Conocarpus					
			0.30		Shrub	3000				
			0.02		Lawn		200			
			0.08		Palm			200		
			Total	3.78	5200.00		3000.00	200.00	200.00	
6	68 (f)	Main gate Area	Beautification from Main Gate to GCPL Divider (Bhutnama Temple)		0.39	2200.00	neerium			
			3.75	1500	Peltofouram					
			0.60	500	Azardirecta indica				Implimented	
			0.26	320	Conocarpus					
			0.32	810	Conocarpus					
			0.24	525	Casurina Equisitifolia					
			0.35	220	Conocarpus					
			0.23	500	Golden Bamboo					
			0.35		Shrub	3450				
			0.25		Lawn		2500			
Total			6.73	4375.00		3450.00	2500.00	0.00		
7	68 (g)	Railway yard area Phase 1	1.13	5000	Casurina Equisitifolia				Implimented	
			0.0175	175	Paltolferum					
			1.13	5000	Casurina Equisitifolia					
			0.15	255	Conocarpus					
			0.08		Palm			200	Implimented	
			Total	2.50	10430.00		0.00	0.00	200.00	
8	68 (h)	cg-2	0.05	500.00	Conocarpus					
			0.0130		neerium	130.00				
		Permenant Godown area	0.44	1680	Shrubs and forest tree plantation					
			0.15		Snub	1500				
			0.21		Lawn		2100			
			0.06		Palm			150		
			Coal Yard Area	1.23	3086	Conocarpus /Casurina				
		0.12		523	Conocarpus					
		0.03		120	peltolferum					
		0.12			Lawn	1200				
		0.72		3200	eucalyptus /conocarpus					
		Dahjei Rangji Temple Green belt	0.05		Shrub		500			
			0.24		Palm			150		
			0.72	800	Peltofouram /Azardirecta indica/ Conocarpus/ Palm					
Total			4.15	9409.00		2700.00	2600.00	300.00		
Total Green Zone Area			23.54	47084.00		11150.00	14800.00	950.00		

Bio-shield

Malpur village, Jambusar taluka, Bharuch district

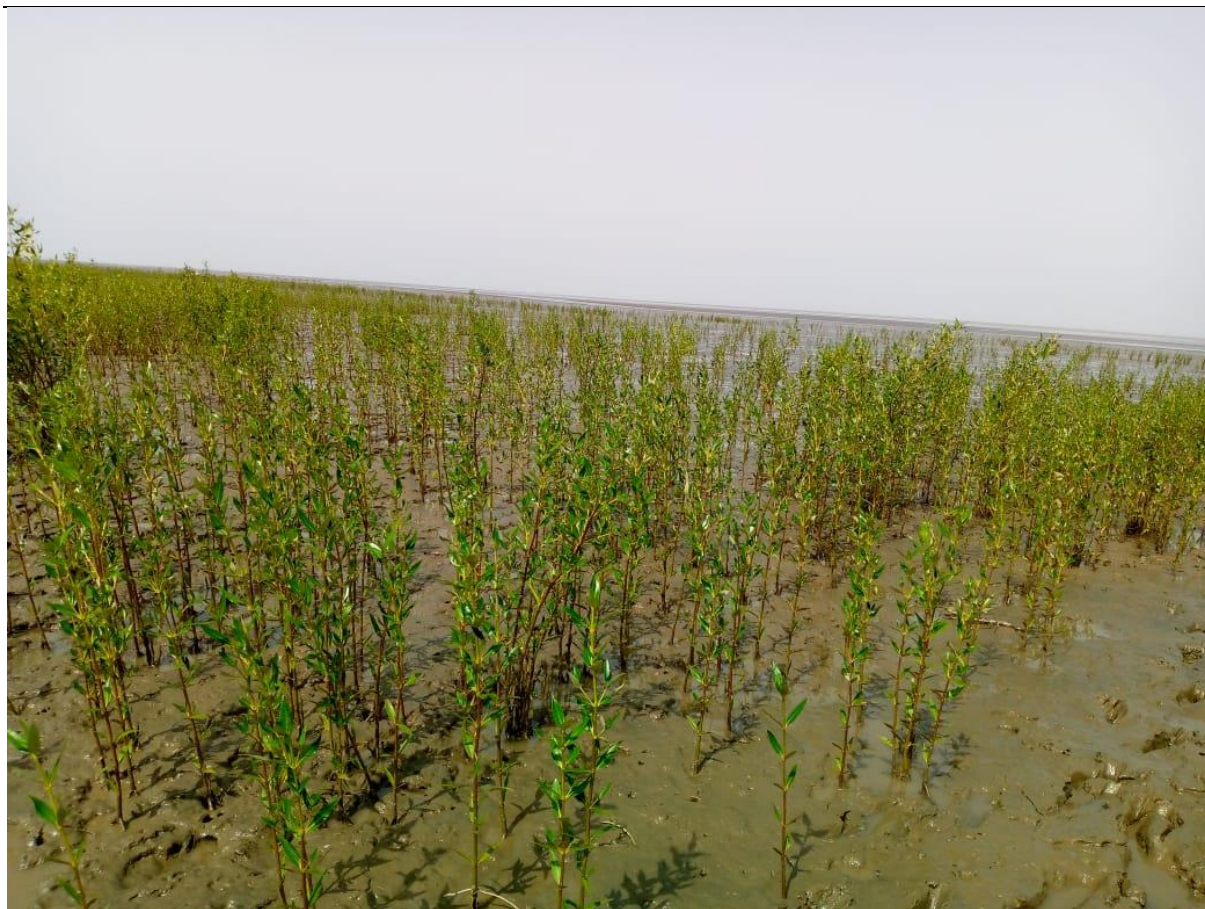
Service Order No: 5700270907 dated 26.06.2019

Project Period: 1st July, 2019 to 30th June, 2022

Project Supported by: Adani Petronet (Dahej) Port Pvt. Ltd.

Project Implemented by: SAVE – Saline Area Vitalization Enterprise Limited

Reporting Period: 1st July, 2019 to 30th June, 2022

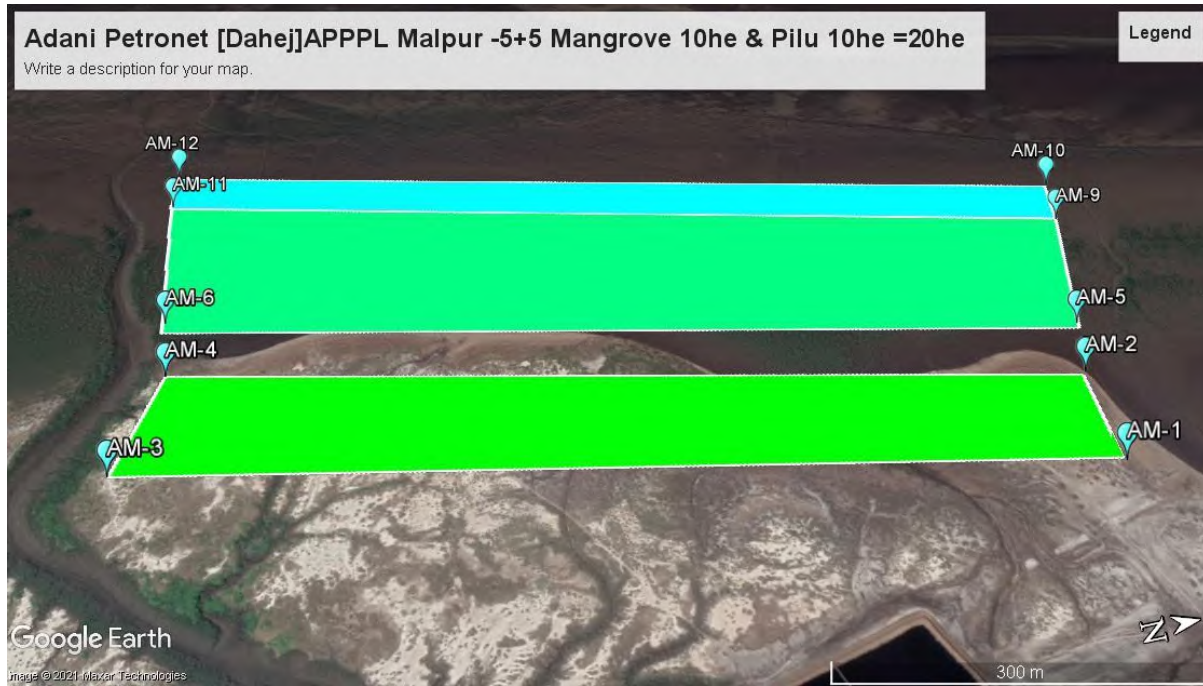


Saline Area Vitalization Enterprise Ltd. (Save) has started a Bioshield project in the year 2019 in Malpur village in Jambusar taluka of Bharuch district in collaboration with Adani Petronet (Dahej) Port Pvt. Ltd. In order to provide employment to the people of Rathod community and deprived community in this village as well as to protect the coastal environment, a committee has been formed to work with the local people for public participation.

SAVE Ltd. has developed a Bio-shield in the 20 hectare Coastal area of Tankari Village and between Malpur and Isanpur Villages in Jambusar Taluka in which Plantation of Mangroves and Pilu (*Salvadora persica*) has been done to prevent soil erosion as well as conserve marine life and to provide fodder to the cattle of this village. Thus SAVE Ltd. works to preserve the environment, prevention of Soil erosion and provide employment to the local community.

Background:

In the beginning the plantation plan was as under, wherein there were two 5Ha plots identified for Mangrove Plantation and then on the interior side a plot of 10Ha for *Salvadora*(Piludi) Plantation. However, Piludi Plantation failed in this area and then a decision was taken to do Piludi Plantation of 10Ha in Village Tankari Location. This decision was taken after Adani Team visit on 18th December 2020. The Maps and GPRS points are as under:



Malpur Bio -1 Mangrove & Pilu 20 ha.			
No	Code No.	N	E
1	AM-1	22° 1'57.10"N	72°31'25.90"E
2	AM-2	22° 1'57.80"N	72°31'22.00"E
3	AM-3	22° 1'26.80"N	72°31'19.50"E
4	AM-4	22° 1'28.20"N	72°31'15.30"E
5	AM-5	22° 1'58.70"N	72°31'19.70"E
6	AM-6	22° 1'28.00"N	72°31'12.50"E
7	AM-9	22° 2'0.90"N	72°31'13.90"E
8	AM-10	22° 2'1.60"N	72°31'11.70"E
9	AM-11	22° 1'27.80"N	72°31'5.30"E
10	AM-12	22° 1'27.90"N	72°31'3.20"E

Reason for failure of Pilu (*Salvadora persica*) Plantation at the above location :

1. **Presence of Salt Pans/Salinity** - High salinity, excessive heating of land, no other vegetation supported. In short pilu is not supported by type of saline land.

2. Change in tidal pattern - The sea water fails to reach pilu plantation (around 500mts from the coast) , observed during that time.

Hence, the decision was taken to relocate Pilu Plantation of 10 Ha to village Tankari.

Current status -

The Bioshield is 1000 mtr in length and 200-300 mtr in width. The Following Plants have been grown:

- Mangroves have been planted on Sea-side in 1000 mtr (L) x 200mtr (W).
- Piludi (*Salvadora persica*) is being planted towards Land-side in 1000 mtr (L) x 100 mtr (W).
- Pilu Plantation at Village Tankari Site (New Site):
- Pilu Plantation done in a 10 Hectare area, wherein 30,000 Plantation has been done:

Pilu Plantation:

Sr. No.	New Location	Area (Ha)	Total Plantation to be done (target)	Plantation of Pilu done in the year 2021	Total Number of surviving Pilu plants calculated in June 2022
1	Village Tankari	10	30,000	30,000	27,365

Note: In the year 2021-22, total 30,000 Pilu seedlings have been planted in 10 hectares area at the Tankari sea site area. As per the calculation in June-2022, the number of surviving seedlings is 27,365.

Mangrove Plantation at Malpur : -

Sr.	Approved area (in hectares)	Total Plantation (Target)	Number of seedlings planted in 2019-20	Plantation done in the year 2021	Final live plants after counting in June 2022
1	5	15,000	15,000	10,120	16,170
2	5	15,000	15,000	0	15,000
Total	10	30, 000	30,000	10,120	31,170

Note -

As per the counting done in June-2022

- In Plot No. 1 at Malpur Sea site 05 hectares area the number of surviving plants is 16,170

- In Plot No. 2 gap filling has been carried out in 05 hectares area. The number of surviving plants here is 15,000.

Visit of Plantation area by Adani Team members

A field visit was organized by the Adani Team on 30th June 2022. Mr. Nikhil Kumar and Mr. Kaushal Kumar from Adani had come for the site inspection and Kantibhai and Rameshbhai from SAVE Ltd were present at the site.

On Both the sites, it was observed that the plantation is good. It was observed that plant growth, height and survival rate, etc. are good.

Adani Petronet Team Visit 2019



Latest Photographs

Pilu Plantation





Mangrove Plantation Area





Mangrove Gap Filling Area



Photographs of Pilu Plantation site visit by ADANI Team on 30th June, 2022.



Mangrove Plantation area site visit



Gap Filling area site visit





COMPLETION CERTIFICATE:

The Completion Certificate is attached herewith along with the maps and GPRS Points.



SALINE AREA VITALIZATION ENTERPRISE LIMITED

ISHAVASYAM

Opp. Lajpatnagar, Eeshita Towers Road, Navrangpura, Navjeevan, Ahmedabad-380 014 INDIA
Tel/Fax.: 91-79 - 2640 3715, 2640 4263 email : saveld1995@gmail.com, website : www.divadandi.com

CIN - U74140GJ1995PLC027080

SAVE/APPPL/2019-2022

TO WHOMSOEVER IT MAY CONCERN

REF: Service Order No.5700270907 dated 26.06.2019

Saline Area Vitalization Enterprise Limited (SAVE) has successfully carried out Bioshield Plantation Work (Mangrove Plantation and Salvadora Plantation) of 20Ha area beginning in July 2019 and completion of the Project in June 2022.

The Project has been implemented by **Adani Petronet (Dahej) Port Pvt Ltd**, AT & PO Lakhigam, Taluka Vagra, via Dahej, BHARUCH - 392130, Gujarat State.

The Bioshield Plantation has been done in the Villages Malpur (10Ha Mangroves) and Tankari (10Ha Salvadora-Piludi), in Jambusar Taluka, Bharuch District, Gujarat State.

The details are mentioned below:

BIOSHIELD STATUS (JUNE 2022)				
Year	Location	Area(Ha)	Species	Remarks
2019-2022	Malpur	10.00	Avicennia marina (Mangroves)	Good Growth
	Tankari	10.00	Salvadora (Piludi in Gujarati)	Good Growth.

Place : Ahmedabad.

Date : 30th June, 2022.

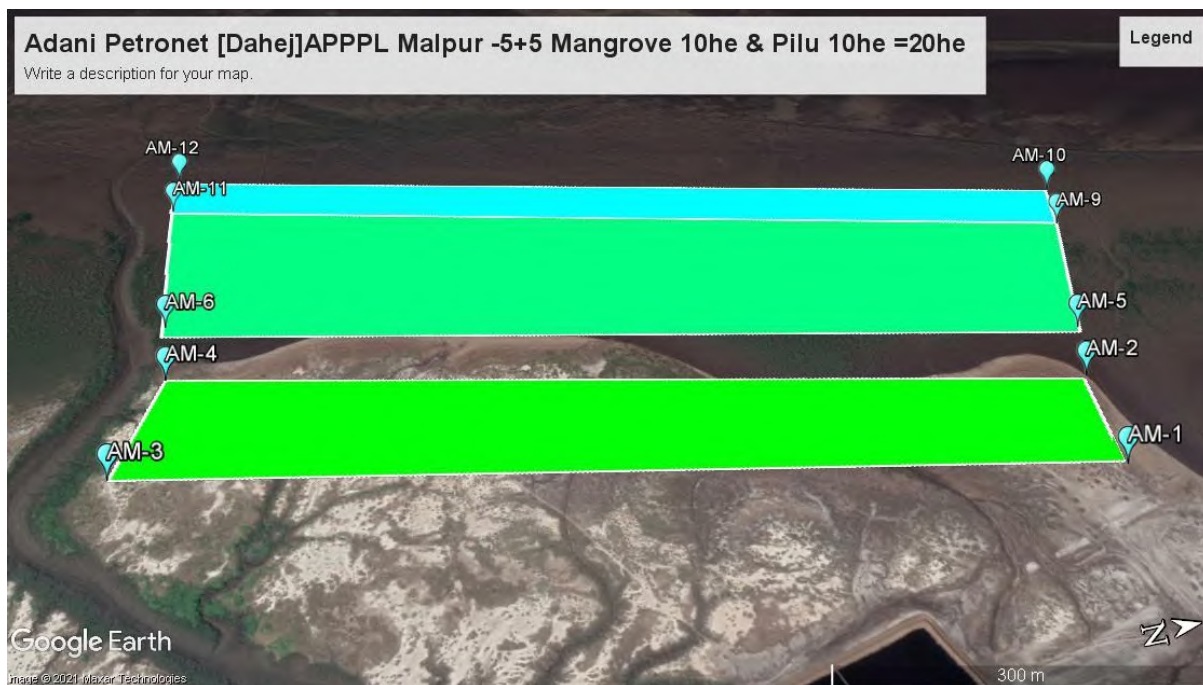
For Saline Area Vitalization Enterprise Ltd.,

Rajesh Shah
For, Saline Area Vitalization Enterprise Ltd.
Managing Director



Rajesh Shah
Managing Director

Encl: Location Maps and GPRS Points.



Malpur Bio -1 Mangrove & Pilu 20 ha.			
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9	AM-11	22° 1'27.80"N	72°31'5.30"E
10	AM-12	22° 1'27.90"N	72°31'3.20"E



Tankari Pilu 10 ha			
No	Code No	N	E
1	A-688	21°57'41.53"N	72°39'40.96"E
2	A-690	21°57'43.03"N	72°39'40.77"E
3	A-692	21°57'45.60"N	72°39'40.54"E
4	A-1869	21°57'42.28"N	72°39'49.59"E
5	A-1871	21°57'42.66"N	72°40'0.53"E
6	A-1872	21°57'44.01"N	72°40'0.21"E
7	A-1873	21°57'47.60"N	72°39'58.53"E
8	A-1874	21°57'50.35"N	72°39'57.06"E
9	A-1875	21°57'48.34"N	72°39'53.24"E
10	A-1876	21°57'46.81"N	72°39'53.74"E
11	A-1877	21°57'46.06"N	72°39'48.60"E
12	A-1878	21°57'46.30"N	72°39'45.55"E
13	A-1885	21°57'43.27"N	72°40'7.46"E
14	A-1886	21°57'42.61"N	72°40'7.53"E
15	A-1887	21°57'42.04"N	72°40'7.64"E
16	A-884	21°57'41.27"N	72°39'59.78"E
17	A-885	21°57'42.24"N	72°39'59.87"E
18	A-887	21°57'44.31"N	72°40'20.67"E
19	A-888	21°57'46.58"N	72°40'20.34"E