



**Ports and  
Logistics**

**Letter No.: APDPPL-EHS/MOEF RO/EC Comp (III)/2021**

**Date: 19.05.2022**

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 **October, 2021 to March, 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 October 2021 to March 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, 8<sup>th</sup> 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: October 2021**

**To : March, 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: OCTOBER 2021 TO MARCH 2022)**

**BY**

**ADANI PETRONET (DAHEJ) PORT PVT. LTD**

**VILLAGE: LAKHIGAM, TALUKA: VAGRA,**

**DISTRICT: BHARUCH, GUJARAT- 392130**



**ADANI PETRONET (DAHEJ) PORT PVT. LTD**

**From: October 2021**

**To : March 2022**

**LIST OF APPENDIXES**

<b>S. No</b>	<b>Details</b>
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**

<b>Annexure 1</b>	:	CCA Copy
<b>Annexure 2</b>		Action taken report on PH points
<b>Annexure 3</b>	:	Environment Monitoring Report
<b>Annexure 4</b>	:	Compliance Status of EMP As Per EIA Report
<b>Annexure 5</b>	:	CSR Report from October 2021 to March, 2022
<b>Annexure 6</b>	:	Environment Management Cell
<b>Annexure 7</b>	:	Environmental Budget & Expenditure for FY 2021-2022
<b>Annexure 8</b>	:	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.	<b>Complied.</b> 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 <b>Annexure 1</b> .
(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.	<b>Noted.</b>
(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.	<b>Being Complied</b> 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.	<b>Complied.</b>
(v)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>No marine construction activities are carried out on marine front after September 2019.</li> <li>Reclamation of the area is being done as per the approval received.</li> <li>There is no dumping of any material outside the project area towards the shore.</li> <li>National Institute of Ocean Technology, Chennai has carried out study on shoreline changes in the vicinity of Dahej Port.</li> <li>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 indicates the dynamic nature of the coastline.</li> <li>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.</li> <li>As per the report no additional mitigation measure is required for shoreline protection</li> </ul>
(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.	<b>Complied.</b> All the commitments made during the public hearing have been complied with. An action taken report is enclosed as <b>Annexure 2</b> .
(vii)	All the conditions stipulated in the earlier Clearance including the	<b>Being Complied</b> <ul style="list-style-type: none"> <li>All conditions stipulated in the EC and CRZ</li> </ul>

**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&amp;CC and other authorities.</p> <ul style="list-style-type: none"> <li>• All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied.</li> <li>• 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 29.04.2022. Last revision in the DMP was done on 20.04.2022.</li> </ul>
(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><b>Being Complied</b></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><b>Being Complied</b></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><b>Dust control measures details: -</b></p> <ul style="list-style-type: none"> <li>• 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"> <li>➤ Reduction of coal losses in open yard</li> <li>➤ Saves water for dust suppression</li> <li>➤ Improves the living conditions of local residents</li> <li>➤ Improves the working conditions of the on-site staff</li> </ul> </li> </ul> <p>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 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"> <li>• 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.</li> <li>• APDPPL has installed a truck tyre washing system within the port premises, which washes the tyre of trucks exiting the port area.</li> <li>• Green belt is being developed in an area of 22.86 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.</li> </ul>
(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.	<p><b>Noted for Compliance.</b> 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.</p>
(xi)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.	<p><b>Being Complied</b> 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 APDPPL.</p> <p><b>Road cleaning by sweeping machine:</b> APDPPL, 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><b>Manual Road Cleaning:</b> 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> <p>Regular water sprinkling is carried out by two mobile water tankers.</p>
(xii)	The mangrove plantation of 50 ha shall be under taken in consultation with Gujarat Ecology Commission / State Forest Department.	<p><b>Complied.</b> Mangrove afforestation has been carried out in an area of 400 ha Phase I &amp; II (200 Ha for both). And additional 50 Ha for Phase –III. Details of the same are given below.</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
		<ol style="list-style-type: none"> <li>100 ha near village Dandi, Dist Surat– 2011</li> <li>50 ha near village Jakhau, Dist Kutch – 2011</li> <li>50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I &amp; II EC &amp;CRZ clearance)</li> <li>50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &amp;CRZ clearance)</li> </ol> <p>Reports of 400 Ha Mangrove afforestation (Developed in Phase I &amp; II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I &amp; 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><b>Being Complied</b></p> <ul style="list-style-type: none"> <li>At mechanized berth of APDPPL, 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.</li> <li>After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.</li> </ul>
(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><b>Being Complied</b></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><b>Complied.</b></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><b>Complied.</b></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, 2021 to September, 2021)		Type of STP	
		80KLD	22.04 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 October 2021 to March 2022 as mentioned below.				
		Parameters	Unit	Min	Max	Perm. Limit
		PH	-	7.26	7.52	6.5- 8.5
		TSS	mg/L	17	26	30
		BOD (3 Days @ 27 °C	mg/L	13	18	20
		Residual Free Chlorine	mg/L	0.6	0.8	0.5(Min)
		Oil & Grease	mg/L	2.1	4.5	-
		• 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.	<b>Complied.</b> 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.				
(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.	<b>Complied.</b> 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, 2021 to September, 2021 are enclosed as <b>Annexure 3C and 3D.</b>				
(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.	<b>Being Complied</b> <ul style="list-style-type: none"><li>No waste or dredged material is dumped so as to disturb the marine ecology</li><li>Marine ecology is being monitored through NABL accredited &amp; MoEF&amp;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, 2021 to September, 2021 are enclosed as <b>Annexure 3C and 3D.</b></li></ul>				
(xx)	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.	<b>Complied.</b> Marine ecology is being monitored through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Reports show that				

<b>Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		there are no significant changes in the marine ecology indicators. Reports for the period of April, 2021 to September, 2021 are enclosed as <b>Annexure 3C and 3D.</b>
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	<b>Complied.</b> <ul style="list-style-type: none"> <li>Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012.</li> <li>Resubmitted Oil Spill Contingency plan to The chairman, NOS-DCP, Central Coordinating authority, Coast Guard Headquarters, National stadium Complex, New Delhi &amp; Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018</li> <li>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 &amp; Coast Guard, Gandhinagar vide letter dated 16/09/2020.</li> <li>There is no Oil spill reported during the compliance period of October 2021 to March 2022. Periodic Mock drills are conducted. Latest mock drill was conducted on 29.04.2022.</li> </ul>
(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.	<b>Being Complied</b> All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied.
(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.	<b>Being Complied</b> 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.
(xxiv)	Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.	<b>Complied.</b> <ul style="list-style-type: none"> <li>The D.G set are only used in case of power failure</li> <li>DG sets are installed as per the approval. Monitoring of DG set Stack emission &amp; noise is being carried out by M/s Pollucon Laboratories, a NABL accredited and MoEF&amp;CC recognised laboratory.</li> <li>Test reports of emission from DG sets are enclosed as <b>Annexure 3H.</b></li> </ul>
(xxv)	All the mechanized handling systems and other associated equipment's such	<b>Being Complied</b> <ul style="list-style-type: none"> <li>APDPPL has constructed 10 KM long fully</li> </ul>

**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
	as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.	<p>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.</p> <ul style="list-style-type: none"> <li>After mechanization of south berth, desired pollution control measures shall be made as a part of material handling system.</li> </ul>
(xxvi)	No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.	<p><b>Complied.</b></p> <p>APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval &amp; CRZ notification 2011.</p>
(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.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>Details regarding STP are given in point number-XVI (Refer above point). Monitoring Reports for the period of October 2021 to March 2022 is enclosed as <b>Annexure 3F</b>.</li> </ul>
(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.	<p><b>Being Complied</b></p> <ul style="list-style-type: none"> <li>All the recommendations and suggestions given by NIO, M/s Choramandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 4</b>.</li> </ul>
(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.	<p><b>Complied.</b></p> <p>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.</p>
(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.	<p><b>Complied.</b></p> <p>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 October 2021 to March 2022 is attached as <b>Annexure – 5</b>.</p>
(xxxi)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	<p><b>Complied.</b></p> <p>APDPPL 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 <b>Annexure – 6</b>.</p>
(xxxii)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>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</li> </ul>

<b>Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		2021-22 was approx. Rs. 374.6 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –7.</b>
(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.	<b>Being Complied</b> 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 <b>Annexure – 4.</b>
(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.	<b>Complied</b> <ul style="list-style-type: none"> <li>APDPPL 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.</li> <li>Complete set of operating manual is available at site.</li> <li>Regular awareness sessions are organized for each level of employee as per the training need identification (TNI) done by HR department.</li> <li>All the schedules and results of environmental monitoring are available at EHS department at project site.</li> </ul>
(xxxv)	Corporate Social Responsibility: <ol style="list-style-type: none"> <li>The Company shall have a well laid down Environment Policy approved by the Board of Directors.</li> <li>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.</li> <li>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.</li> <li>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 shareholders or stakeholders at large.</li> </ol>	<b>Being Complied</b> <ul style="list-style-type: none"> <li>Company has an Environment Policy.</li> <li>All the requirements mention in the condition are being met through Environment Management System (ISO 14001:2015).</li> <li>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 <b>Annexure – 6.</b></li> <li>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.</li> </ul>
<b>B. General Conditions.</b>		
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	<b>Being Complied</b> 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



<b>Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		are enclosed as <b>Annexure 3B</b> .
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.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Whenever any authorities such as MoEF&amp;CC, GPCB and GMB etc. visit the APDPPL full support is extended and APDPPL provides all additional information seek by them during the inspection.</li> <li>• No officer of MoEF&amp;CC, regional office Bhopal and CPCB visited the site during the compliance period.</li> <li>• Latest visit of Gujarat Pollution Control Board during the compliance period was on 01.02.2022.</li> </ul>
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.	<b>Noted and Complied.</b> 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	<b>Noted and Agreed.</b>
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.	<b>Noted &amp; Agreed.</b>
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.	<b>Complied</b> 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.	<b>Complied</b> <ul style="list-style-type: none"> <li>• Financial closure date for the project is 29/10/2014.</li> <li>• 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. &amp; its amendment AWH – 116434 dated 09.03.2022 attached as <b>Annexure 1</b>.</li> <li>• Start of land development (23 Ha. reclamation) work 17.10.2017.</li> </ul>
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.	<b>Complied</b> 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-

<b>Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		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	<b>Complied</b> 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.	<b>Noted &amp; Agreed</b>
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.	<b>Complied</b> <ul style="list-style-type: none"> <li>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.</li> <li>EC Clearance from MOEF was obtained vide letter no. vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III.</li> <li>Fire NOC: Not Applicable.</li> <li>Civil Aviation: Not Applicable.</li> <li>Permission under Wildlife (Protection) Act, 1972: Not Applicable.</li> </ul>
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 at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . 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.	<b>Complied</b> <ul style="list-style-type: none"> <li>Environment clearance letter is published in "Indian Express" and "Gujarat Guardian" newspapers on dated 25<sup>th</sup> October 2016 which is within 7 days of from the date of the receipt of clearance letter.</li> <li>Copy of advertisement has been submitted to Regional Office MOEF on 28<sup>th</sup> 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-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.</li> </ul>
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	<b>Noted.</b>

**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
	2004 as may be applicable to this project.	
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<b>Complied.</b> The status of environment clearance conditions is available on company website that i.e., <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a>
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.	<b>Complied</b> <ul style="list-style-type: none"> <li>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. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> </ul>
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.	<b>Complied</b> Compliance report of EC conditions is uploaded regularly & Same is being regularly submitted to concerned authorities. <ul style="list-style-type: none"> <li>Compliance reports along with monitored data are available on company website i.e., <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a>.</li> </ul>
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.	<b>Complied</b> <ul style="list-style-type: none"> <li>Environment statement regularly being submitted to Gujarat Pollution Control Board. Last statement was submitted dated 28.05.2021. Copy of environment statement is also available on company website i.e., <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> <li>Same has been sent by email to RO, GPCB, Bharuch, MS, GPCB(Gandhinagar) Regional office, Bhopal, MoEF &amp; CC on 24.05.2021.</li> </ul>

**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	<b>Complied.</b> <ul style="list-style-type: none"> <li>All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006.</li> <li>No activity or work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.</li> </ul>
2	The APDPPL shall ensure that there shall not be any blockage of creek and free flow of water is maintained	<b>Complied.</b> <ul style="list-style-type: none"> <li>APDPPL ensured no creeks are blocked due to project activity.</li> </ul>
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.	<b>Complied.</b> <p>Re-routing of the pipeline of GACL has been completed and all expenditure has been borne by APDPPL.</p>
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.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval &amp; CRZ notification 2011.</li> <li>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 29.04.2022. Last revision in the DMP was done on 20.04.2022.</li> </ul>
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	<b>Complied</b>
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.	<b>Complied</b> <p>There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.</p>
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.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 4</b>.</li> </ul>
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.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>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.</li> <li>Gujarat Maritime Board is regularly monitoring the project progress.</li> </ul>
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	<b>Complied</b> <ul style="list-style-type: none"> <li>No debris or other construction waste is being disposed into the sea, creek or in CRZ areas.</li> <li>Reclamation of the area is being done as per</li> </ul>

<b>Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
	immediately after the construction is over.	the 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.	<b>Complied</b> 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.	<b>Complied</b> <ul style="list-style-type: none"> <li>Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012.</li> <li>Resubmitted Oil Spill Contingency plan prepared and submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi &amp; Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018</li> <li>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 &amp; Coast Guard, Gandhinagar vide letter dated 16/09/2020</li> <li>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 29.04.2022. Last revision in the DMP was done on 20.04.2022.</li> </ul>
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.	<b>Noted and shall be complied.</b>
13	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction	<b>Complied.</b> 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.	<b>Complied.</b> Ground water is not tapped in CRZ area for the project. Water requirement is been met through GIDC water supply.
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.	<b>Complying with.</b> Green belt is being developed in an area of 22.86 ha including periphery of the project boundary. Detailed plan of the green belt development plan is enclosed as <b>Annexure - 8</b> .
16	Mangrove plantation in 50 Ha. Shall be carried out in consultation with the Gujarat	<b>Complied.</b>

<b>Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
	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.	<p>Mangrove afforestation has been carried out in an area of 400 ha Phase I &amp; II (200 Ha for both). And additional 50 Ha for Phase –III. Details of the same are given below.</p> <ol style="list-style-type: none"> <li>100 ha near village Dandi, Dist Surat– 2011</li> <li>50 ha near village Jakhau, Dist Kutch – 2011</li> <li>50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I &amp; II EC &amp;CRZ clearance)</li> <li>50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &amp;CRZ clearance)</li> </ol> <p>Reports of 400 Ha Mangrove afforestation (Developed in Phase I &amp; II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I &amp; 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>
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.	<p><b>Being Complied</b></p> <ul style="list-style-type: none"> <li>Area identification for Bio shield project is done at Malpur and Isanpur village, Jambusar Taluka, Bharuch district is completed.</li> <li>M/s. Saline Area Vitalization Enterprise Limited (SAVE) is carrying out Bio Shield development programme in collaboration with local villagers.</li> </ul> <p>Some highlights of project are as below;</p> <ul style="list-style-type: none"> <li>Area to be developed: 20ha</li> <li>Width: 200 – 300 mt. Length: 1,000 mt. (01 Km)</li> <li>Plants: Mangroves, Pilu (Salvadora, Unt Morad and local grass species</li> <li>Completion Period: 36 Months</li> <li>A mangrove nursery having 35150 saplings has been developed by SAVE in association with village women, these women will be executing the process of</li> </ul>

<b>Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		<p>Bio shield right from plantation to gap filling and maintenance.</p> <ul style="list-style-type: none"> <li>• In the period from December- January, the sapling counting of the Nursery was done and it was found that 27110 Plants are living, which is around 77% survival</li> <li>• In the period from June – July, 2020 mangrove plants counting work done and it was found that 7430 plants are living</li> <li>• February end total Mangrove Plantation of 8,000 Plants have been done</li> <li>• Final report will be submitted along with compliance on completion of Bio Shield development Programme.</li> </ul>
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.	<p><b>Complied.</b></p> <p>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 October 2021 to March, 2022 is attached as <b>Annexure – 5.</b></p>
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove 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.	<p><b>Complied.</b></p> <p>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 2021-22 was approx. Rs. 374.6lacs. Details of the environmental budget and expenditures for the past 3 years is enclosed as <b>Annexure –7.</b></p>
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	<p><b>Complied.</b></p> <p>APDPPL 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 <b>Annexure – 6.</b></p>
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.	<p><b>Being Complied</b></p> <p>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.</p> <p>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 from October 2021 to March 2022 as attached as <b>Annexure 3A &amp; 3G.</b></p> <p>The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise</p>

<b>Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III</b>		
<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
		<p>monitoring results during compliance period form October 2021 to March 2022 as attached as <b>Annexure 3G</b>.</p> <p>Piezometer's analysis results during compliance period form October 2021 to March 2022 as attached as <b>Annexure 3B</b>.</p> <p>Report confirms that there is no significant change in the quality in comparison to base line (wherever available)</p>
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.	<p><b>Complying with.</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Last Compliance report including results of monitoring data for the period of April 2021 to September, 2021 was submitted to MoEF&amp;CC, New Delhi, Regional Office of MoEF&amp;CC, Bhopal, Zonal Office of CPCB, Baroda, GPCB, Gandhinagar and RO Office, GPCB, Bharuch etc. vide letter no APPPL-EHS/MOEF RO/EC Comp (III) dated 30.11.2021 in soft copy via mail dated 30.11.2021</li> <li>• Compliance reports along with monitored data are available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> <li>• Same is being regularly submitted to concerned authorities.</li> </ul>
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.	<p><b>Noted and agreed to comply with.</b></p> <p>.</p>





# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

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.

*Clean Gujarat Green Gujarat*

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.



# GUJARAT POLLUTION CONTROL BOARD

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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 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 <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	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.

<b>Sr. No.</b>	<b>Type of Waste</b>	<b>Quantity</b>	<b>Category</b>	<b>Mode of disposal</b>
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



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : [www.gpcb.gov.in](http://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.

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- 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 30<sup>th</sup> for the period ensuring 31<sup>st</sup> 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 14<sup>th</sup> 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



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

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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



**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 31.03.2022
1.	Shri Manaharbhair Gohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> <li>Participating the public hearing he said that, he has studied the EIA report which is misleading.</li> <li>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.</li> <li>All the improvements made by the unit are only during last three months.</li> <li>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"> <li>Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road.</li> <li>Transportation of coal through trucks should be stopped.</li> <li>Precautions should be taken to avoid fire in coal storage area.</li> <li>"Court Commission" should be appointed for evaluation of current</li> </ol> </li> </ul>		After completing his representation, he immediately left the venue.	Reply sent on 18 <sup>th</sup> 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 31.03.2022
		<p>environmental condition of the company.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>			
2.	Shri Pushkarsinh Rana, Village Dahej	<ul style="list-style-type: none"> <li>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</li> <li>He asked that how many pages are used in EIA report and in comparison how many pages are used in Executive summary.</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>Executive Summary is prepared as per the guidelines under EIA Notification. The more pages are due to various annexures.</li> </ul>	<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</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 31.03.2022
		<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"> <li>• 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?</li> <li>• What is meaning of MOEF?</li> <li>• 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</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• The Project Proponent replied that MOEF stands for Ministry of Forest and Environment, Government of India</li> <li>• The project proponent replied that there is no habitation in the inter tidal land, proposed for reclamation</li> </ul>	<p>made in the draft EIA 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 31.03.2022
		<ul style="list-style-type: none"> <li>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</li> <li>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.</li> <li>Executive Summary includes widening of the Road and he asked which roads are to be widened.</li> <li>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?</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that verification will be done for Hindalco and Birla Copper and necessary changes will be made if, any.</li> <li>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</li> <li>The project proponent replied that proposal includes widening of the existing rubble bund which is inside the port.</li> <li>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</li> </ul>	<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 31.03.2022
		<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>Will there be any increase of capacity of railway loading silo and related infrastructure?</li> </ul>	<p>whereas In South jetty transportation of coal up to storage 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"> <li>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.</li> <li>The Project Proponent replied that Belt conveyor capacity is adequate and silo will be developed at the same place</li> </ul>	<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 31.03.2022
		<ul style="list-style-type: none"> <li>No employment is given to land looser of railway yard. Company should give</li> <li>Assurance for employment to land losers.</li> <li>The responsible officers of GIDC should also be required to remain present during Public Hearing.</li> <li>I am unable to understand data shown in 3.1 w.r.t. ambient air quality therefore, I request to explain</li> <li>He pointed out that as per Executive</li> </ul>	<p>where one silo already exists. There is no requirement of new land for this purpose.</p> <ul style="list-style-type: none"> <li>Shri. Amish Trivedi, Representative of the project proponent replied that GIDC has allotted land on ROU basis and land for S&amp;S yard given on lease basis. The Land acquisition is done as per agreement between land owner and GIDC.</li> <li>Company representative Mr. P. N. Roy chowdhury replied that there is no employment policy for land looser of ROU land.</li> <li>Only GIDC can answer on this issue.</li> <li>The project proponent replied that in India, norms of ambient air quality are already decided and parameters like PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>NO<sub>x</sub> etc 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.</li> <li>The project proponent replied that as</li> </ul>		<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 31.03.2022
		<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"> <li>As per Executive summary it is mentioned that tyre washing of vehicles is done but same is not being carried out.</li> <li>Company is doing transportation of coal through rail and truck. Dahej – IPCL road used for transportation of coal is passing</li> </ul>	<p>per the data of Gujarat, fisheries 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. 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"> <li>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 1<sup>st</sup> June, 2015.</li> <li>Project proponent replied that we welcome your suggestions. Necessary survey will be done and appropriate steps will be taken.</li> </ul>		<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>

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 31.03.2022
		<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"> <li>I wish good luck to company with hope to do better work for environment.</li> </ul>	<ul style="list-style-type: none"> <li>Project proponent conveyed thanks for his encouraging words.</li> </ul>		No further action required.
3.	Shri Jayatibhai Ahir Village - Luvara	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		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 31.03.2022
		sanctioned to build 55 houses out of 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"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	Written representation made by Shri Dahya bhai is accepted.	No further action required.
5.	Mayurdhvajsinh Village - Dahej	<ul style="list-style-type: none"> <li>Officers of Adani Company are fooling villagers.</li> </ul>			
6.	Shri Nareshbhai Village - Lakhigam	<ul style="list-style-type: none"> <li>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?</li> <li>As shown in the report, monitoring is done at which locations in the village.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>		

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 31.03.2022
		<ul style="list-style-type: none"> <li>Pollution reaches to our houses and dust can be seen on the utensils for drinking water. Adani has manipulated with official record.</li> <li>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.</li> <li>Company should think about high pollution levels.</li> </ul>	<ul style="list-style-type: none"> <li>This is false allegation and not acceptable to us.</li> <li>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.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>		<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"> <li>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.</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		<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 31.03.2022
		<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		No further action required.
8	Shri Bhagwanbhai Gohil, Village Paniyadara	<ul style="list-style-type: none"> <li>At which locations EIA reports should be made available</li> <li>EIA report is published on GPCB website is in English. Why it is not published in Gujarati. It should be also given in villages.</li> <li>What will happen If, concentration of PM<sub>10</sub> in ambient air will increase from its limit of 100 mg/cum? Who will be responsible if, health of people will deteriorate.</li> <li>How much pollution will increase if, handling capacity increase from 11.7 MMTA to 23 MMTA.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	<p>Regional officer of GPCB replied that EIA report is made available at following offices</p> <ol style="list-style-type: none"> <li>District collector office, Bharuch</li> <li>District Development office, Bharuch</li> <li>District Industries Centre, Bharuch</li> <li>Taluka Development office, Tal. VagraDist.Bharuch</li> <li>Chief Conservator of Forest, Bhopal</li> <li>Regional officer, GPCB, Bharuch</li> </ol>	<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</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 31.03.2022
		<ul style="list-style-type: none"> <li>It is shown in the presentation that employment will be given to 1000-1300 people. We request that 85% of employment should be given to locals.</li> <li>As per page No.53 of EIA report it is mentioned that there is no tourism place in this area. Whereas, Lakhbava temple is already exist than why it is not shown in report?</li> <li>It is requested to announce that problem of coal dust in Lakhbava temple should be controlled</li> <li>As per Sr.10 page No.53 of EIA report, it is mentioned that there are 50 fishermen</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that any 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.</li> <li>The project proponent replied that EIA report included tourism places as per records of Gujarat Govt. Lakhbava 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.</li> <li>The project proponent replied that we are having sympathy with your feelings. We have already taken maximum measures for Lakhbava temple as well as carried plantations of trees and cleaning activities in that area. We accept your suggestion.</li> <li>The project proponent replied that we have collected these data from fisheries department.</li> </ul>		<p>locals.</p> <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 31.03.2022
		are in Jageshwar village but fishermen are 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"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	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"> <li>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.</li> </ul>		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"> <li>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.</li> </ul>		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 31.03.2022
12	Shri Sanjaybhai Gohil Village: Lakhigam	<ul style="list-style-type: none"> <li>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</li> </ul>			No action required from company.
13	Shri Yogeshbhai Patel Village: Lakhigam	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Standards are defined for Noise pollution and measurements are also within the limits, GPCB may also do necessary inquiry.</li> </ul>	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"> <li>Adani foundation has provided support for raising the level of our houses and also constructed anganwadi</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> <li>There will not be any impact on fish due to this proposed expansion</li> </ul>		<p>No further action required</p> <p>No further action required</p>
15	Shri Kishorbhai Rana Village: Dahej	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>		There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There

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 31.03.2022
		<p>Neem tries are planted where foot prints of coal dust is being observed while going to temple.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>			<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"> <li>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</li> <li>Company is carrying out the transportation of coal by over loading of the rail rack. There are no established rules and regulations for this.</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that issue is pertaining to Railway authority and the importer client.</li> <li>You may make representation before railway authority.</li> </ul>		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 31.03.2022
		<p>impact is occurring to their health.</p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>As per our suggestions, problems of ambient air quality have been reduced in one of the company in Ankleshwar.</li> <li>We are with the project but being Gujarati businessman you should take care of Gujarat</li> <li>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</li> <li>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</li> </ul>			



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 31.03.2022
		<ul style="list-style-type: none"> <li>Since, the time of IPCL request for the development of Hospital is made but till date it is on the paper</li> <li>No additional quantity of drinking water is given to village people by GIDC but at the same time industries are provided more water</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent requested the representative to mention the village to which he belongs.</li> </ul>	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"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent expressed thanks for her appreciation</li> </ul>		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 31.03.2022
18	Shri Rakesh Gohil Village: Lahigam	<ul style="list-style-type: none"> <li>Who has prepared the EIA report and who has certified it</li> <li>No physical survey is carried out and during visit permission from Sarpanch should be taken</li> <li>How the mistake like mentioning the name of companies Hindalco and Birla Copper? I am not aware about their visit for physical survey</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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</li> <li>There is adequate information covered in the report and survey is done as per the required procedure.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	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"> <li>We are thankful to Adani Company for providing us the training on beauty parlour.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent expressed thanks for appreciation</li> </ul>		No further action required



**Environment Monitoring Report for the period from October-21 to March-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 <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	79.34	36.51	ND*	ND*	ND*	ND*	1.01	ND*	29.37	19.83	38.57	23.67
2	05/10/2021	87.57	46.95	ND*	ND*	ND*	ND*	0.47	ND*	41.27	24.77	40.26	20.35
3	08/10/2021	73.35	35.69	ND*	ND*	ND*	ND*	0.66	ND*	37.93	17.61	32.46	28.73
4	12/10/2021	83.44	48.44	ND*	ND*	ND*	ND*	0.82	ND*	44.56	25.37	37.63	18.96
5	15/10/2021	94.33	52.44	0.65	ND*	2.36	10.64	0.65	ND*	35.24	22.78	45.37	24.52
6	19/10/2021	89.38	45.47	ND*	ND*	ND*	ND*	0.98	ND*	38.48	27.24	41.23	27.36
7	22/10/2021	78.32	39.44	ND*	ND*	ND*	ND*	1.02	ND*	43.48	21.40	30.46	26.57
8	26/10/2021	93.55	50.34	0.72	ND*	2.52	10.86	0.94	ND*	24.65	13.22	36.93	29.34
9	29/10/2021	86.25	47.55	ND*	ND*	ND*	ND*	0.87	ND*	33.15	20.34	42.33	25.38
10	02/11/2021	94.34	52.64	0.76	ND*	2.62	10.32	0.65	ND*	43.95	24.32	37.61	24.35
11	06/11/2021	82.68	47.54	ND*	ND*	ND*	ND*	0.77	ND*	36.34	26.39	42.24	19.46
12	09/11/2021	93.62	53.45	0.65	ND*	2.58	10.63	0.88	ND*	32.58	20.64	34.24	21.36
13	12/11/2021	86.64	45.63	ND*	ND*	ND*	ND*	0.62	ND*	28.82	23.45	38.15	28.95
14	16/11/2021	73.62	31.35	ND*	ND*	ND*	ND*	0.84	ND*	33.45	25.70	44.33	30.54
15	19/11/2021	83.42	43.52	ND*	ND*	ND*	ND*	0.64	ND*	41.42	15.36	36.47	26.87
16	23/11/2021	77.67	36.49	ND*	ND*	ND*	ND*	0.87	ND*	35.42	19.25	40.55	29.41
17	26/11/2021	84.77	46.55	ND*	ND*	ND*	ND*	0.78	ND*	42.66	22.69	31.53	27.57
18	30/11/2021	91.28	50.30	0.86	ND*	2.35	10.51	0.73	ND*	48.54	18.64	28.35	23.83
19	03/12/2021	90.26	51.23	0.65	ND*	2.76	10.37	0.22	ND*	26.42	18.28	40.22	25.66
20	07/12/2021	75.36	38.42	ND*	ND*	ND*	ND*	0.56	ND*	31.44	16.20	32.62	29.34
21	10/12/2021	80.25	46.32	ND*	ND*	ND*	ND*	0.52	ND*	40.27	24.61	42.48	20.34
22	14/12/2021	76.55	42.66	ND*	ND*	ND*	ND*	0.74	ND*	35.46	19.74	36.36	27.54
23	17/12/2021	91.23	53.54	0.73	ND*	2.46	10.68	0.90	ND*	44.55	26.30	41.58	19.37
24	21/12/2021	84.23	47.63	ND*	ND*	ND*	ND*	0.77	ND*	30.62	22.38	39.26	30.86
25	24/12/2021	89.48	52.19	0.61	ND*	2.54	10.84	0.94	ND*	41.26	15.48	33.55	21.65

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26	28/12/2021	78.66	36.42	ND*	ND*	ND*	ND*	0.65	ND*	34.34	20.83	44.24	28.62
27	04/01/2022	93.46	50.21	0.85	ND*	2.82	10.50	0.71	ND*	19.42	22.55	44.61	28.36
28	07/01/2022	76.96	41.26	ND*	ND*	ND*	ND*	0.85	ND*	24.85	18.65	24.21	24.33
29	11/01/2022	90.36	49.42	ND*	ND*	ND*	ND*	0.96	ND*	37.55	21.58	31.83	29.24
30	14/01/2022	85.85	44.55	ND*	ND*	ND*	ND*	0.44	ND*	21.27	25.32	42.21	21.85
31	18/01/2022	92.25	51.18	0.65	ND*	2.76	10.37	0.72	ND*	39.44	23.42	34.57	26.87
32	21/01/2022	77.68	39.44	ND*	ND*	ND*	ND*	0.97	ND*	35.78	17.74	37.58	19.78
33	25/01/2022	94.55	53.47	0.72	ND*	2.64	10.68	0.65	ND*	33.64	24.37	32.57	23.33
34	28/01/2022	82.73	45.38	ND*	ND*	ND*	ND*	0.81	ND*	26.94	16.45	38.88	30.28
35	01/02/2022	80.38	46.50	0.72	ND*	2.56	10.85	0.97	ND*	46.18	20.14	36.54	29.57
36	04/02/2022	86.37	49.69	ND*	ND*	ND*	ND*	0.64	ND*	34.46	25.43	42.57	26.55
37	08/02/2022	79.54	41.55	0.84	ND*	2.46	10.66	0.81	ND*	27.82	15.69	38.45	22.47
38	11/02/2022	71.56	38.45	ND*	ND*	ND*	ND*	0.87	ND*	37.46	24.35	33.45	15.94
39	15/02/2022	67.65	29.22	ND*	ND*	ND*	ND*	0.65	ND*	41.76	21.56	37.53	21.53
40	18/02/2022	76.52	43.58	ND*	ND*	ND*	ND*	0.48	ND*	23.57	19.64	29.35	24.75
41	22/02/2022	88.47	51.43	0.86	ND*	2.22	10.48	0.76	ND*	39.74	16.83	41.63	28.41
42	25/02/2022	83.42	47.55	ND*	ND*	ND*	ND*	0.57	ND*	48.52	22.43	35.21	31.23
43	01/03/2022	74.57	44.55	ND*	ND*	ND*	ND*	0.84	ND*	38.44	19.31	30.37	21.57
44	04/03/2022	80.56	47.53	0.64	ND*	2.36	10.21	0.93	ND*	26.35	22.34	33.32	23.57
45	08/03/2022	76.55	36.61	ND*	ND*	ND*	ND*	1.00	ND*	35.46	25.39	40.27	26.53
46	11/03/2022	86.68	50.74	0.68	ND*	2.22	10.83	0.61	ND*	23.27	16.20	36.33	14.74
47	15/03/2022	77.54	40.34	ND*	ND*	ND*	ND*	0.56	ND*	31.82	14.44	39.36	20.65
48	18/03/2022	90.47	51.36	0.74	ND*	2.56	10.90	0.76	ND*	25.37	23.49	41.53	27.96
49	22/03/2022	70.63	38.13	ND*	ND*	ND*	ND*	0.57	ND*	29.52	15.36	35.53	29.63
50	25/03/2022	78.44	42.33	ND*	ND*	ND*	ND*	0.68	ND*	33.82	21.25	37.65	25.87
51	29/03/2022	83.57	45.36	ND*	ND*	ND*	ND*	0.95	ND*	21.58	27.86	42.58	28.89

**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  $\text{C}_6\text{H}_6$ :  $2\mu\text{g}/\text{m}^3$ , 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:  $5\text{ ng}/\text{m}^3$



**Authorized Signatory**



● FSSAI Approved Lab

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

● GPCB approved  
schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001





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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	71.15	33.57	ND*	ND*	ND*	ND*	0.42	ND*	20.65	9.26	23.45	24.25
2	05/10/2021	79.63	36.33	ND*	ND*	ND*	ND*	0.76	ND*	27.58	18.25	27.63	13.45
3	08/10/2021	63.34	28.65	ND*	ND*	ND*	ND*	0.63	ND*	30.33	13.74	30.32	19.54
4	12/10/2021	58.32	31.66	ND*	ND*	ND*	ND*	1.03	ND*	18.57	11.82	28.43	26.47
5	15/10/2021	77.68	41.27	ND*	ND*	ND*	ND*	0.49	ND*	15.35	19.32	36.45	21.63
6	19/10/2021	56.38	26.57	ND*	ND*	ND*	ND*	0.78	ND*	26.24	24.49	32.29	16.41
7	22/10/2021	61.93	32.47	ND*	ND*	ND*	ND*	0.58	ND*	31.82	14.38	20.70	22.39
8	26/10/2021	73.86	40.33	ND*	ND*	ND*	ND*	0.64	ND*	16.12	17.40	29.32	20.81
9	29/10/2021	68.47	34.56	ND*	ND*	ND*	ND*	0.38	ND*	23.74	15.58	35.33	23.54
10	02/11/2021	73.68	40.37	ND*	ND*	ND*	ND*	0.33	ND*	16.85	15.80	26.44	16.89
11	06/11/2021	69.37	28.48	ND*	ND*	ND*	ND*	0.56	ND*	19.64	19.62	29.67	12.69
12	09/11/2021	82.44	35.43	ND*	ND*	ND*	ND*	0.25	ND*	26.86	12.54	23.62	18.31
13	12/11/2021	50.25	18.64	ND*	ND*	ND*	ND*	0.55	ND*	12.88	9.53	19.74	24.22
14	16/11/2021	56.35	22.60	ND*	ND*	ND*	ND*	0.24	ND*	23.65	17.88	32.45	28.34
15	19/11/2021	71.52	34.81	ND*	ND*	ND*	ND*	0.18	ND*	27.65	11.39	18.91	22.62
16	23/11/2021	54.64	26.56	ND*	ND*	ND*	ND*	0.63	ND*	21.35	10.29	33.56	15.18
17	26/11/2021	70.36	38.69	ND*	ND*	ND*	ND*	0.26	ND*	33.63	16.61	22.64	23.37
18	30/11/2021	76.53	41.52	ND*	ND*	ND*	ND*	0.61	ND*	43.55	13.54	25.67	11.68
19	03/12/2021	70.62	47.55	ND*	ND*	ND*	ND*	0.17	ND*	17.58	10.73	29.35	10.35
20	07/12/2021	51.87	26.36	ND*	ND*	ND*	ND*	0.27	ND*	13.73	6.52	15.67	15.35
21	10/12/2021	67.86	36.37	ND*	ND*	ND*	ND*	0.39	ND*	31.55	20.35	38.66	13.69
22	14/12/2021	62.84	30.55	ND*	ND*	ND*	ND*	0.63	ND*	23.46	14.28	31.29	17.34
23	17/12/2021	71.53	39.22	ND*	ND*	ND*	ND*	0.34	ND*	33.45	21.68	34.35	25.39
24	21/12/2021	78.38	42.45	ND*	ND*	ND*	ND*	0.31	ND*	22.27	19.82	36.51	18.55
25	24/12/2021	65.74	37.32	ND*	ND*	ND*	ND*	0.33	ND*	30.45	12.29	18.97	26.33
26	28/12/2021	53.47	27.06	ND*	ND*	ND*	ND*	0.47	ND*	26.23	23.09	40.31	21.25
27	04/01/2022	82.62	37.66	ND*	ND*	ND*	ND*	0.61	ND*	14.35	17.27	40.63	15.63
28	07/01/2022	65.64	33.57	ND*	ND*	ND*	ND*	0.36	ND*	20.32	15.39	18.94	18.21

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29	11/01/2022	78.53	46.41	ND*	ND*	ND*	ND*	0.14	ND*	25.73	18.46	28.93	22.63
30	14/01/2022	72.94	40.32	ND*	ND*	ND*	ND*	0.34	ND*	10.92	20.76	32.94	26.67
31	18/01/2022	85.63	47.56	ND*	ND*	ND*	ND*	0.41	ND*	34.65	12.43	29.89	23.42
32	21/01/2022	53.63	28.62	ND*	ND*	ND*	ND*	0.23	ND*	31.07	14.37	34.27	14.56
33	25/01/2022	81.53	44.51	ND*	ND*	ND*	ND*	0.77	ND*	17.52	19.37	23.53	12.26
34	28/01/2022	71.95	32.34	ND*	ND*	ND*	ND*	0.32	ND*	35.45	10.75	31.25	17.53
35	01/02/2022	68.30	35.70	ND*	ND*	ND*	ND*	0.86	ND*	15.72	16.61	33.22	12.88
36	04/02/2022	76.56	30.27	ND*	ND*	ND*	ND*	0.40	ND*	26.13	19.76	37.65	24.85
37	08/02/2022	70.34	38.63	ND*	ND*	ND*	ND*	0.22	ND*	23.78	7.73	23.62	21.67
38	11/02/2022	49.23	20.60	ND*	ND*	ND*	ND*	0.52	ND*	20.45	15.21	27.27	14.33
39	15/02/2022	62.43	26.34	ND*	ND*	ND*	ND*	0.71	ND*	30.87	10.79	24.26	19.76
40	18/02/2022	71.34	41.87	ND*	ND*	ND*	ND*	0.41	ND*	17.58	12.61	21.42	10.73
41	22/02/2022	78.35	33.57	ND*	ND*	ND*	ND*	0.44	ND*	19.26	14.67	34.27	15.32
42	25/02/2022	69.34	37.23	ND*	ND*	ND*	ND*	0.24	ND*	42.88	9.54	26.47	20.77
43	01/03/2022	50.55	23.87	ND*	ND*	ND*	ND*	0.37	ND*	11.46	13.53	18.68	16.65
44	04/03/2022	73.18	40.35	ND*	ND*	ND*	ND*	0.53	ND*	21.24	18.95	27.52	28.05
45	08/03/2022	66.55	33.64	ND*	ND*	ND*	ND*	0.36	ND*	22.98	16.88	35.48	17.85
46	11/03/2022	59.37	37.52	ND*	ND*	ND*	ND*	0.46	ND*	12.47	12.26	21.65	20.46
47	15/03/2022	67.54	28.52	ND*	ND*	ND*	ND*	0.18	ND*	18.34	9.49	23.53	15.65
48	18/03/2022	78.62	42.86	ND*	ND*	ND*	ND*	0.50	ND*	20.56	15.62	33.53	18.94
49	22/03/2022	62.12	30.56	ND*	ND*	ND*	ND*	0.69	ND*	13.44	11.48	30.56	26.33
50	25/03/2022	49.54	22.42	ND*	ND*	ND*	ND*	0.41	ND*	24.98	17.34	34.92	12.23
51	29/03/2022	63.48	34.83	ND*	ND*	ND*	ND*	0.63	ND*	15.92	21.76	36.54	19.28

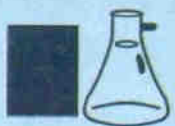
**Observation:** Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I Dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

**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  $\text{C}_6\text{H}_6$ : 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 <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	49.33	20.47	ND*	ND*	ND*	ND*	0.62	ND*	11.47	15.43	18.32	11.16
2	05/10/2021	57.44	29.55	ND*	ND*	ND*	ND*	0.46	ND*	19.24	11.56	22.33	15.56
3	08/10/2021	48.68	24.54	ND*	ND*	ND*	ND*	0.73	ND*	15.42	6.26	15.65	13.33
4	12/10/2021	54.54	30.26	ND*	ND*	ND*	ND*	0.95	ND*	34.34	14.64	24.70	17.31
5	15/10/2021	71.35	33.18	ND*	ND*	ND*	ND*	0.24	ND*	22.36	8.61	32.86	27.64
6	19/10/2021	78.33	37.28	ND*	ND*	ND*	ND*	0.71	ND*	21.37	19.72	28.66	21.72
7	22/10/2021	68.64	26.36	ND*	ND*	ND*	ND*	0.21	ND*	16.87	12.63	25.34	12.09
8	26/10/2021	53.46	32.52	ND*	ND*	ND*	ND*	0.55	ND*	13.57	10.26	19.47	16.15
9	29/10/2021	56.34	28.29	ND*	ND*	ND*	ND*	0.22	ND*	20.35	13.93	31.74	19.85
10	02/11/2021	84.55	33.67	ND*	ND*	ND*	ND*	0.58	ND*	13.46	8.84	15.53	20.63
11	06/11/2021	64.94	36.44	ND*	ND*	ND*	ND*	0.52	ND*	14.85	15.67	27.75	11.36
12	09/11/2021	58.62	25.63	ND*	ND*	ND*	ND*	0.37	ND*	19.52	10.29	20.45	17.55
13	12/11/2021	71.78	29.24	ND*	ND*	ND*	ND*	0.46	ND*	17.65	7.88	14.87	19.25
14	16/11/2021	45.33	16.28	ND*	ND*	ND*	ND*	0.41	ND*	11.38	13.50	21.34	16.71
15	19/11/2021	53.62	21.63	ND*	ND*	ND*	ND*	0.15	ND*	31.32	17.60	29.37	18.29
16	23/11/2021	46.72	18.65	ND*	ND*	ND*	ND*	0.50	ND*	27.56	9.12	22.47	23.54
17	26/11/2021	65.64	34.18	ND*	ND*	ND*	ND*	0.45	ND*	24.34	14.27	18.33	12.84
18	30/11/2021	52.46	24.86	ND*	ND*	ND*	ND*	0.11	ND*	35.67	6.49	16.33	14.34
19	03/12/2021	64.36	35.86	ND*	ND*	ND*	ND*	0.11	ND*	14.55	7.79	16.37	19.67
20	07/12/2021	46.36	23.93	ND*	ND*	ND*	ND*	0.32	ND*	17.26	14.53	20.42	17.66
21	10/12/2021	70.32	28.53	ND*	ND*	ND*	ND*	0.49	ND*	21.87	17.25	26.32	11.56
22	14/12/2021	52.78	25.40	ND*	ND*	ND*	ND*	0.23	ND*	12.67	11.68	23.68	13.72
23	17/12/2021	77.62	48.12	ND*	ND*	ND*	ND*	0.58	ND*	26.38	15.31	18.64	20.64
24	21/12/2021	69.15	38.88	ND*	ND*	ND*	ND*	0.29	ND*	16.24	9.87	32.31	12.44
25	24/12/2021	56.82	29.71	ND*	ND*	ND*	ND*	0.42	ND*	23.96	6.63	14.53	15.63
26	28/12/2021	61.42	33.48	ND*	ND*	ND*	ND*	0.26	ND*	18.96	13.44	22.74	10.75
27	04/01/2022	65.37	27.53	ND*	ND*	ND*	ND*	0.47	ND*	17.26	16.76	22.34	21.52
28	07/01/2022	58.62	24.39	ND*	ND*	ND*	ND*	0.21	ND*	11.35	13.52	29.11	15.35

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29	11/01/2022	67.16	34.44	ND*	ND*	ND*	ND*	0.62	ND*	31.84	11.34	21.31	18.65
30	14/01/2022	79.08	31.67	ND*	ND*	ND*	ND*	0.57	ND*	13.77	15.73	25.67	14.45
31	18/01/2022	74.23	37.55	ND*	ND*	ND*	ND*	0.38	ND*	21.53	7.73	19.62	12.66
32	21/01/2022	48.35	23.48	ND*	ND*	ND*	ND*	0.70	ND*	24.32	12.45	30.45	17.25
33	25/01/2022	68.74	26.85	ND*	ND*	ND*	ND*	0.33	ND*	22.64	8.94	15.34	20.52
34	28/01/2022	60.24	29.50	ND*	ND*	ND*	ND*	0.58	ND*	16.54	6.65	20.23	25.62
35	01/02/2022	63.52	31.26	ND*	ND*	ND*	ND*	0.21	ND*	23.82	6.66	17.57	17.53
36	04/02/2022	71.52	36.44	ND*	ND*	ND*	ND*	0.15	ND*	25.17	17.94	24.59	21.45
37	08/02/2022	59.45	27.68	ND*	ND*	ND*	ND*	0.33	ND*	13.47	12.56	29.48	23.23
38	11/02/2022	54.55	22.40	ND*	ND*	ND*	ND*	0.68	ND*	11.63	8.89	21.63	18.03
39	15/02/2022	48.66	15.58	ND*	ND*	ND*	ND*	0.42	ND*	18.94	19.25	31.44	14.76
40	18/02/2022	55.65	32.72	ND*	ND*	ND*	ND*	0.14	ND*	20.14	13.27	26.84	16.38
41	22/02/2022	66.36	28.65	ND*	ND*	ND*	ND*	0.23	ND*	28.35	10.33	19.58	22.35
42	25/02/2022	51.24	23.77	ND*	ND*	ND*	ND*	0.49	ND*	30.95	7.49	25.58	13.68
43	01/03/2022	67.72	30.44	ND*	ND*	ND*	ND*	0.64	ND*	24.38	9.56	15.52	12.35
44	04/03/2022	55.63	25.33	ND*	ND*	ND*	ND*	0.48	ND*	12.77	14.19	22.68	18.65
45	08/03/2022	45.35	21.58	ND*	ND*	ND*	ND*	0.25	ND*	19.77	10.62	16.99	22.58
46	11/03/2022	56.23	28.48	ND*	ND*	ND*	ND*	0.13	ND*	17.34	18.77	24.85	11.52
47	15/03/2022	61.22	24.56	ND*	ND*	ND*	ND*	0.23	ND*	15.56	6.67	18.18	21.44
48	18/03/2022	71.58	39.23	ND*	ND*	ND*	ND*	0.45	ND*	11.54	19.84	27.04	13.63
49	22/03/2022	54.35	27.38	ND*	ND*	ND*	ND*	0.15	ND*	18.25	7.54	14.83	15.33
50	25/03/2022	63.65	31.33	ND*	ND*	ND*	ND*	0.11	ND*	22.63	15.17	19.66	19.57
51	29/03/2022	74.25	41.42	ND*	ND*	ND*	ND*	0.30	ND*	20.25	8.74	21.49	16.53

**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  $\text{C}_6\text{H}_6$ : 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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● PSSAI Approved Lab

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

● GPCB approved schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001





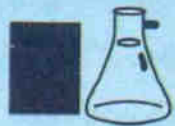
**Table No.: 1.4 - Ambient Air Quality Monitoring Results At GCPTL Gate**

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	58.18	25.70	ND*	ND*	ND*	ND*	0.90	ND*	24.33	17.67	31.29	14.92
2	05/10/2021	68.73	32.47	ND*	ND*	ND*	ND*	0.34	ND*	22.48	6.50	25.69	10.72
3	08/10/2021	42.68	20.39	ND*	ND*	ND*	ND*	0.85	ND*	25.38	8.30	21.54	16.25
4	12/10/2021	65.47	35.33	ND*	ND*	ND*	ND*	0.32	ND*	28.42	16.86	30.15	11.82
5	15/10/2021	53.48	26.35	ND*	ND*	ND*	ND*	0.44	ND*	16.54	14.28	26.34	20.73
6	19/10/2021	64.54	33.42	ND*	ND*	ND*	ND*	0.57	ND*	18.68	11.69	37.18	18.67
7	22/10/2021	56.62	29.33	ND*	ND*	ND*	ND*	0.84	ND*	21.86	7.67	27.39	21.54
8	26/10/2021	69.34	36.55	ND*	ND*	ND*	ND*	0.61	ND*	11.22	9.49	33.27	15.34
9	29/10/2021	52.46	23.86	ND*	ND*	ND*	ND*	0.23	ND*	29.92	12.85	28.56	17.47
10	02/11/2021	67.56	27.54	ND*	ND*	ND*	ND*	0.27	ND*	32.44	12.25	29.44	23.48
11	06/11/2021	55.15	25.47	ND*	ND*	ND*	ND*	0.48	ND*	21.08	9.27	20.82	26.29
12	09/11/2021	75.22	39.45	ND*	ND*	ND*	ND*	0.39	ND*	16.66	7.64	15.65	20.36
13	12/11/2021	61.54	36.53	ND*	ND*	ND*	ND*	0.57	ND*	24.86	14.72	28.52	15.25
14	16/11/2021	50.45	18.33	ND*	ND*	ND*	ND*	0.31	ND*	15.32	16.39	24.88	12.32
15	19/11/2021	65.63	31.58	ND*	ND*	ND*	ND*	0.30	ND*	22.48	13.12	21.52	14.68
16	23/11/2021	72.63	33.53	ND*	ND*	ND*	ND*	0.40	ND*	17.77	17.52	18.65	25.88
17	26/11/2021	60.42	30.25	ND*	ND*	ND*	ND*	0.34	ND*	28.66	8.55	14.26	18.64
18	30/11/2021	68.66	28.89	ND*	ND*	ND*	ND*	0.32	ND*	31.53	11.87	19.53	13.35
19	03/12/2021	56.36	29.17	ND*	ND*	ND*	ND*	0.50	ND*	20.38	16.23	21.56	12.67
20	07/12/2021	67.57	19.23	ND*	ND*	ND*	ND*	0.21	ND*	25.32	8.73	26.88	24.69
21	10/12/2021	61.54	15.79	ND*	ND*	ND*	ND*	0.44	ND*	14.28	14.76	23.43	21.44
22	14/12/2021	48.64	23.05	ND*	ND*	ND*	ND*	0.69	ND*	26.56	6.74	18.35	16.58
23	17/12/2021	57.68	32.55	ND*	ND*	ND*	ND*	0.64	ND*	23.38	19.34	30.86	22.38
24	21/12/2021	50.24	20.82	ND*	ND*	ND*	ND*	0.46	ND*	19.37	15.73	22.48	15.72
25	24/12/2021	77.16	34.76	ND*	ND*	ND*	ND*	0.38	ND*	27.52	11.22	28.44	10.25
26	28/12/2021	58.55	24.24	ND*	ND*	ND*	ND*	0.40	ND*	15.47	7.62	15.34	23.49
27	04/01/2022	75.88	30.43	ND*	ND*	ND*	ND*	0.15	ND*	12.66	10.95	24.88	24.72
28	07/01/2022	47.68	21.53	ND*	ND*	ND*	ND*	0.30	ND*	14.53	6.49	21.22	22.74

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29	11/01/2022	59.73	31.50	ND*	ND*	ND*	ND*	0.66	ND*	17.45	8.60	25.31	14.23
30	14/01/2022	65.34	25.64	ND*	ND*	ND*	ND*	0.11	ND*	15.68	17.38	19.54	10.74
31	18/01/2022	69.25	33.49	ND*	ND*	ND*	ND*	0.52	ND*	27.45	14.62	16.22	16.32
32	21/01/2022	58.67	27.53	ND*	ND*	ND*	ND*	0.26	ND*	29.16	7.68	23.64	11.6
33	25/01/2022	49.24	23.40	ND*	ND*	ND*	ND*	0.22	ND*	26.34	15.65	20.62	17.16
34	28/01/2022	66.34	38.43	ND*	ND*	ND*	ND*	0.17	ND*	21.47	13.17	27.33	15.43
35	01/02/2022	51.56	26.57	ND*	ND*	ND*	ND*	0.45	ND*	26.45	9.94	20.43	23.54
36	04/02/2022	58.66	29.46	ND*	ND*	ND*	ND*	0.61	ND*	16.24	11.55	30.88	13.76
37	08/02/2022	62.64	32.88	ND*	ND*	ND*	ND*	0.19	ND*	19.77	13.64	19.27	16.19
38	11/02/2022	44.58	17.53	ND*	ND*	ND*	ND*	0.56	ND*	28.43	20.45	31.55	11.22
39	15/02/2022	53.43	22.19	ND*	ND*	ND*	ND*	0.37	ND*	21.54	12.34	21.57	20.69
40	18/02/2022	61.25	35.41	ND*	ND*	ND*	ND*	0.30	ND*	12.57	6.88	15.93	12.74
41	22/02/2022	71.57	24.37	ND*	ND*	ND*	ND*	0.62	ND*	22.64	8.62	27.54	24.42
42	25/02/2022	60.24	28.54	ND*	ND*	ND*	ND*	0.36	ND*	27.48	10.51	18.57	17.66
43	01/03/2022	42.42	17.56	ND*	ND*	ND*	ND*	0.38	ND*	13.83	12.46	25.33	19.44
44	04/03/2022	50.34	20.58	ND*	ND*	ND*	ND*	0.44	ND*	17.03	15.81	18.59	12.96
45	08/03/2022	55.47	28.69	ND*	ND*	ND*	ND*	0.21	ND*	10.25	19.48	32.47	11.36
46	11/03/2022	70.22	43.67	ND*	ND*	ND*	ND*	0.34	ND*	21.45	13.41	29.37	18.33
47	15/03/2022	56.57	19.64	ND*	ND*	ND*	ND*	0.14	ND*	12.52	8.81	15.68	24.85
48	18/03/2022	60.37	31.21	ND*	ND*	ND*	ND*	0.47	ND*	23.68	16.99	22.44	10.66
49	22/03/2022	48.68	18.52	ND*	ND*	ND*	ND*	0.19	ND*	15.83	9.82	26.83	16.33
50	25/03/2022	58.66	25.44	ND*	ND*	ND*	ND*	0.24	ND*	11.32	14.82	17.17	14.58
51	29/03/2022	51.96	27.84	ND*	ND*	ND*	ND*	0.22	ND*	14.32	10.22	24.37	17.39

**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  $\text{C}_6\text{H}_6$ : 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.: 1.5 - Ambient Air Quality Monitoring Results At Near Silo Porta Cabin**

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	44.35	22.34	ND*	ND*	ND*	ND*	0.50	ND*	19.53	7.47	15.33	17.54
2	05/10/2021	52.92	24.74	ND*	ND*	ND*	ND*	0.37	ND*	25.46	14.60	34.53	12.16
3	08/10/2021	38.67	17.56	ND*	ND*	ND*	ND*	0.14	ND*	28.33	10.59	19.34	18.82
4	12/10/2021	70.34	37.57	ND*	ND*	ND*	ND*	0.69	ND*	21.98	13.48	16.83	13.11
5	15/10/2021	64.34	29.32	ND*	ND*	ND*	ND*	0.26	ND*	11.58	11.54	29.46	23.46
6	19/10/2021	73.68	39.45	ND*	ND*	ND*	ND*	0.11	ND*	14.75	17.88	26.48	20.43
7	22/10/2021	50.77	20.37	ND*	ND*	ND*	ND*	0.39	ND*	26.36	16.31	21.67	15.16
8	26/10/2021	58.52	23.44	ND*	ND*	ND*	ND*	0.29	ND*	17.93	8.93	23.56	25.62
9	29/10/2021	47.56	21.64	ND*	ND*	ND*	ND*	0.48	ND*	15.65	6.82	17.64	16.8
10	02/11/2021	79.38	30.33	ND*	ND*	ND*	ND*	0.42	ND*	23.25	10.61	23.43	11.54
11	06/11/2021	50.33	33.51	ND*	ND*	ND*	ND*	0.23	ND*	12.62	17.19	25.42	20.43
12	09/11/2021	68.68	28.62	ND*	ND*	ND*	ND*	0.21	ND*	22.64	15.49	30.27	14.93
13	12/11/2021	56.33	31.53	ND*	ND*	ND*	ND*	0.36	ND*	14.28	6.90	24.38	12.55
14	16/11/2021	62.37	25.37	ND*	ND*	ND*	ND*	0.44	ND*	19.35	12.20	18.15	22.33
15	19/11/2021	58.64	27.51	ND*	ND*	ND*	ND*	0.38	ND*	15.76	9.53	33.46	16.27
16	23/11/2021	65.36	21.81	ND*	ND*	ND*	ND*	0.54	ND*	13.66	7.57	26.35	18.45
17	26/11/2021	52.64	24.66	ND*	ND*	ND*	ND*	0.19	ND*	20.38	13.12	29.28	21.86
18	30/11/2021	61.56	37.23	ND*	ND*	ND*	ND*	0.22	ND*	36.42	8.53	15.35	19.53
19	03/12/2021	47.63	25.75	ND*	ND*	ND*	ND*	0.24	ND*	24.52	14.36	17.28	15.44
20	07/12/2021	40.12	15.66	ND*	ND*	ND*	ND*	0.15	ND*	20.88	12.60	28.62	19.46
21	10/12/2021	53.65	19.52	ND*	ND*	ND*	ND*	0.82	ND*	25.67	7.34	16.58	10.64
22	14/12/2021	57.24	33.81	ND*	ND*	ND*	ND*	0.14	ND*	17.83	10.52	29.44	22.46
23	17/12/2021	61.28	26.60	ND*	ND*	ND*	ND*	0.54	ND*	15.37	6.33	22.37	24.56
24	21/12/2021	55.56	30.88	ND*	ND*	ND*	ND*	0.25	ND*	11.53	16.37	27.55	21.13
25	24/12/2021	59.34	24.86	ND*	ND*	ND*	ND*	0.45	ND*	14.64	8.55	23.57	14.17
26	28/12/2021	42.53	17.57	ND*	ND*	ND*	ND*	0.70	ND*	23.56	18.60	18.72	16.86
27	04/01/2022	59.38	23.35	ND*	ND*	ND*	ND*	0.69	ND*	10.57	13.70	16.32	17.65
28	07/01/2022	53.33	29.44	ND*	ND*	ND*	ND*	0.39	ND*	17.67	11.68	27.66	21.25

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29	11/01/2022	48.64	26.51	ND*	ND*	ND*	ND*	0.53	ND*	23.64	16.21	31.57	25.34
30	14/01/2022	54.64	22.36	ND*	ND*	ND*	ND*	0.24	ND*	18.93	7.52	28.66	18.87
31	18/01/2022	60.33	27.66	ND*	ND*	ND*	ND*	0.18	ND*	13.27	9.75	23.32	14.16
32	21/01/2022	65.67	31.23	ND*	ND*	ND*	ND*	0.13	ND*	19.94	12.55	26.36	12.39
33	25/01/2022	72.62	36.64	ND*	ND*	ND*	ND*	0.68	ND*	12.23	10.57	17.53	10.35
34	28/01/2022	50.28	25.33	ND*	ND*	ND*	ND*	0.50	ND*	15.32	8.78	22.42	13.15
35	01/02/2022	57.52	29.56	ND*	ND*	ND*	ND*	0.32	ND*	19.43	7.63	24.32	19.52
36	04/02/2022	66.26	32.45	ND*	ND*	ND*	ND*	0.27	ND*	13.25	16.52	18.65	11.66
37	08/02/2022	54.27	24.30	ND*	ND*	ND*	ND*	0.39	ND*	21.48	9.59	26.36	17.23
38	11/02/2022	60.38	27.52	ND*	ND*	ND*	ND*	0.31	ND*	25.65	11.19	19.64	10.63
39	15/02/2022	42.66	18.83	ND*	ND*	ND*	ND*	0.25	ND*	14.87	15.34	27.84	22.54
40	18/02/2022	50.26	28.50	ND*	ND*	ND*	ND*	0.58	ND*	18.36	10.25	17.69	14.53
41	22/02/2022	61.28	26.63	ND*	ND*	ND*	ND*	0.34	ND*	15.96	6.58	14.58	12.66
42	25/02/2022	46.37	15.62	ND*	ND*	ND*	ND*	0.18	ND*	24.26	13.60	20.23	21.32
43	01/03/2022	55.68	27.53	ND*	ND*	ND*	ND*	0.49	ND*	18.56	10.44	22.96	15.17
44	04/03/2022	67.56	33.46	ND*	ND*	ND*	ND*	0.16	ND*	14.53	7.80	16.56	10.57
45	08/03/2022	51.52	23.64	ND*	ND*	ND*	ND*	0.27	ND*	11.66	13.27	20.13	21.24
46	11/03/2022	64.53	40.26	ND*	ND*	ND*	ND*	0.86	ND*	20.76	6.34	14.55	12.46
47	15/03/2022	50.38	26.54	ND*	ND*	ND*	ND*	0.31	ND*	27.35	11.37	28.54	17.47
48	18/03/2022	66.37	34.61	ND*	ND*	ND*	ND*	0.42	ND*	13.26	17.65	31.56	22.42
49	22/03/2022	59.67	21.85	ND*	ND*	ND*	ND*	0.17	ND*	23.47	12.29	21.57	24.54
50	25/03/2022	42.67	28.38	ND*	ND*	ND*	ND*	0.26	ND*	19.54	9.96	25.55	16.48
51	29/03/2022	47.52	25.06	ND*	ND*	ND*	ND*	0.55	ND*	17.54	15.44	17.64	13.31

**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  $\text{C}_6\text{H}_6$ : 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.: 1.6 - Ambient Air Quality Monitoring Results At JS – 2 Junction**

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	01/10/2021	65.13	28.44	ND*	ND*	ND*	ND*	0.80	ND*	37.56	11.76	33.62	20.67
2	05/10/2021	73.85	39.56	ND*	ND*	ND*	ND*	0.60	ND*	32.53	13.35	36.56	18.30
3	08/10/2021	53.68	31.59	ND*	ND*	ND*	ND*	0.36	ND*	20.43	15.64	27.58	26.14
4	12/10/2021	78.67	43.44	ND*	ND*	ND*	ND*	0.40	ND*	40.36	20.19	34.28	22.55
5	15/10/2021	89.54	45.65	0.56	ND*	2.22	10.37	0.56	ND*	29.47	17.76	39.48	30.42
6	19/10/2021	82.36	34.65	ND*	ND*	ND*	ND*	0.93	ND*	33.63	22.40	35.62	24.77
7	22/10/2021	72.65	37.54	ND*	ND*	ND*	ND*	0.70	ND*	28.68	19.47	38.65	19.43
8	26/10/2021	86.64	42.63	0.66	ND*	2.54	10.57	0.41	ND*	22.23	14.87	26.27	27.57
9	29/10/2021	77.57	38.60	ND*	ND*	ND*	ND*	0.27	ND*	18.88	10.90	37.54	29.47
10	02/11/2021	89.45	46.56	0.68	ND*	2.42	10.21	0.60	ND*	39.44	20.35	35.51	14.58
11	06/11/2021	76.35	43.55	ND*	ND*	ND*	ND*	0.80	ND*	22.28	21.56	32.61	23.61
12	09/11/2021	88.35	48.55	0.52	ND*	2.36	10.34	0.49	ND*	29.97	17.35	28.44	16.45
13	12/11/2021	75.20	38.61	ND*	ND*	ND*	ND*	0.89	ND*	19.87	19.61	33.49	13.47
14	16/11/2021	68.33	27.26	ND*	ND*	ND*	ND*	0.68	ND*	28.54	22.46	36.83	25.62
15	19/11/2021	77.52	37.52	ND*	ND*	ND*	ND*	0.70	ND*	18.58	7.94	39.88	19.31
16	23/11/2021	60.33	30.16	ND*	ND*	ND*	ND*	0.86	ND*	33.15	11.29	34.34	22.45
17	26/11/2021	75.42	41.27	ND*	ND*	ND*	ND*	0.53	ND*	37.43	18.58	25.39	24.66
18	30/11/2021	85.33	47.25	0.76	ND*	2.24	10.07	0.47	ND*	40.34	9.64	14.38	21.53
19	03/12/2021	78.22	40.56	0.61	ND*	2.34	10.60	0.30	ND*	35.64	21.51	32.44	23.67
20	07/12/2021	59.12	35.46	ND*	ND*	ND*	ND*	0.71	ND*	27.67	10.35	23.37	21.54
21	10/12/2021	75.48	32.95	ND*	ND*	ND*	ND*	0.60	ND*	36.45	12.34	20.38	19.57
22	14/12/2021	69.44	37.51	ND*	ND*	ND*	ND*	0.68	ND*	28.75	17.76	26.46	14.59
23	17/12/2021	84.27	50.35	0.71	ND*	2.12	10.59	0.78	ND*	40.54	23.52	38.47	27.34
24	21/12/2021	72.45	45.37	ND*	ND*	ND*	ND*	0.88	ND*	25.47	14.82	30.26	11.90
25	24/12/2021	82.67	48.26	0.57	ND*	2.26	10.78	0.62	ND*	37.53	9.31	24.57	24.27
26	28/12/2021	68.46	30.42	ND*	ND*	ND*	ND*	0.81	ND*	30.87	11.17	34.21	26.89
27	04/01/2022	87.62	45.31	0.76	ND*	2.56	10.37	0.73	ND*	23.47	19.51	36.46	19.66
28	07/01/2022	70.26	38.33	ND*	ND*	ND*	ND*	0.25	ND*	29.55	16.36	33.45	26.35

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29	11/01/2022	85.68	41.65	ND*	ND*	ND*	ND*	0.27	ND*	39.66	13.33	30.57	20.26
30	14/01/2022	60.35	34.55	ND*	ND*	ND*	ND*	0.49	ND*	24.45	18.44	38.32	16.88
31	18/01/2022	79.33	43.66	0.55	ND*	2.45	10.24	0.46	ND*	32.52	20.19	31.76	22.35
32	21/01/2022	71.26	36.56	ND*	ND*	ND*	ND*	0.60	ND*	26.72	11.14	25.48	24.53
33	25/01/2022	88.37	49.57	0.64	ND*	2.36	10.65	0.54	ND*	30.32	17.98	29.47	18.55
34	28/01/2022	76.26	42.26	ND*	ND*	ND*	ND*	0.90	ND*	18.34	15.56	35.34	23.64
35	01/02/2022	73.62	39.46	0.56	ND*	2.42	10.29	1.09	ND*	30.22	14.57	30.49	15.14
36	04/02/2022	81.23	45.40	ND*	ND*	ND*	ND*	0.95	ND*	22.77	23.28	27.67	18.44
37	08/02/2022	74.28	35.35	0.65	ND*	2.24	10.48	0.88	ND*	15.22	11.64	36.23	27.14
38	11/02/2022	65.57	33.59	ND*	ND*	ND*	ND*	0.98	ND*	32.24	19.52	24.65	13.35
39	15/02/2022	57.52	20.34	ND*	ND*	ND*	ND*	0.63	ND*	36.16	8.36	34.55	28.07
40	18/02/2022	66.26	38.17	ND*	ND*	ND*	ND*	0.74	ND*	14.46	16.33	23.36	21.82
41	22/02/2022	83.62	42.13	0.72	ND*	2.16	10.40	0.78	ND*	34.58	12.39	38.22	17.94
42	25/02/2022	64.56	32.51	ND*	ND*	ND*	ND*	1.01	ND*	37.75	17.54	31.66	25.22
43	01/03/2022	61.57	32.47	ND*	ND*	ND*	ND*	0.60	ND*	32.48	16.36	26.54	22.32
44	04/03/2022	77.65	44.23	0.56	ND*	2.06	10.13	0.80	ND*	19.67	10.41	29.48	25.31
45	08/03/2022	60.22	30.59	ND*	ND*	ND*	ND*	0.71	ND*	29.43	23.35	37.57	30.43
46	11/03/2022	80.23	46.27	0.62	ND*	2.18	10.36	0.33	ND*	26.48	20.75	33.88	17.24
47	15/03/2022	70.26	36.36	ND*	ND*	ND*	ND*	0.39	ND*	22.17	12.51	35.64	19.32
48	18/03/2022	86.52	48.18	0.70	ND*	2.42	10.44	0.54	ND*	16.56	21.92	39.52	23.43
49	22/03/2022	67.34	34.38	ND*	ND*	ND*	ND*	0.96	ND*	25.77	14.49	27.44	20.28
50	25/03/2022	71.54	37.43	ND*	ND*	ND*	ND*	0.74	ND*	30.82	19.42	32.84	24.25
51	29/03/2022	68.55	29.46	ND*	ND*	ND*	ND*	0.65	ND*	11.24	13.84	28.97	26.24

**Observation:** Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-1 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 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.1 mg/m<sup>3</sup>, Benzene as C<sub>6</sub>H<sub>6</sub>: 2 µg/m<sup>3</sup>, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m<sup>3</sup>, Arsenic as As: 2ng/m<sup>3</sup>, Nickel as Ni: 5 ng/m<sup>3</sup>

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● FSSAI Approved Lab

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

● GPCB approved  
schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001





### 3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -

**Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: October-21 to March-22**

#### 3B.1 Near Sub Station-7B

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/21	25/11/21	27/12/21	19/01/22	28/02/22	26/03/22
1	Temperature	°C	29.8	29.7	29.1	29.0	29.5	30.2
2	pH	--	8.11	7.95	7.75	7.50	7.74	7.85
3	Total Dissolved Solids	mg/L	1182	1272	1085	856	928	1017
4	Salinity	ppt	0.35	0.37	0.32	0.17	0.20	0.23
5	Chloride as Cl	mg/L	192	209	179	95	112	128
6	Depth of Water Level from Ground Level	meter	1.0	1.5	1.5	1.5	1.5	1.5
7	Status of Tide	--	Low Tide	High Tide	High Tide	Law Tide	High Tide	High Tide

#### 3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/21	25/11/21	27/12/21	19/01/22	28/02/22	26/03/22
1	Temperature	°C	29.9	29.9	29.3	29.1	29.6	30.0
2	pH	--	8.05	8.02	7.84	7.70	7.93	7.79
3	Total Dissolved Solids	mg/L	872	898	914	834	914	998
4	Salinity	ppt	0.13	0.14	0.15	0.15	0.20	0.21
5	Chloride as Cl	mg/L	74.00	79.00	84.90	83.97	108	114
6	Depth of Water Level from Ground Level	meter	1.5	2.0	1.8	2.0	1.8	1.8
7	Status of Tide	--	Low Tide	High Tide	High Tide	Law Tide	High Tide	High 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: October-21 to March-22:-**

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22	
			28/10/2021		25/11/2021		27/12/2021		19/01/2022		28/02/2022		26/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.13	8.04	8.09	8.02	8.15	8.12	7.99	7.95	7.95	7.90	8.03	7.97
2	Temperature	°C	29.9	29.8	29.8	29.6	29.7	29.6	29.6	29.4	29.7	29.4	30.3	30.1
3	Total Suspended Solids	mg/L	237	209	213	198	226	201	193	187	205	195	184	172
4	BOD (3 Days @ 27 °C)	mg/L	2.30	Not Detected	2.50	Not Detected	2.60	2.10	2.60	2.24	3.14	2.76	2.98	2.36
5	Dissolved Oxygen	mg/L	5.95	5.75	5.90	5.85	5.80	5.75	5.75	5.65	5.85	5.80	5.90	5.85
6	Salinity	ppt	30.42	30.86	31.39	31.62	30.46	30.98	33.86	34.28	34.42	34.78	34.68	34.94
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 <sub>3</sub>	µmol/L	2.79	2.64	2.43	2.29	2.56	2.41	3.14	2.99	3.28	3.14	3.08	2.91
9	Nitrite as NO <sub>2</sub>	µmol/L	1.12	0.93	0.86	0.73	0.93	0.87	0.65	0.53	0.97	0.85	0.87	0.75
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	1.98	1.84	2.1	2.04	1.88	1.79	2.86	2.47	2.56	2.4	2.31	2.24
11	Phosphates as PO <sub>4</sub>	µmol/L	2.83	2.7	2.43	2.35	2.16	2.08	2.69	2.53	2.34	2.29	2.16	2.08
12	Total Nitrogen	µmol/L	5.89	5.41	5.39	5.06	5.39	5.07	6.65	5.99	6.81	6.39	6.26	5.90
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	31864	32768	32764	32989	31490	32408	34546	34918	35134	35398	35278	35528
15	COD	mg/L	10.82	9.40	12.30	8.40	12.56	9.20	12.80	10.30	13.86	11.94	13.26	10.35
<b>A Phytoplankton</b>														
16.1	Chlorophyll	mg/m <sup>3</sup>	2.56	2.32	2.61	2.37	2.46	2.30	2.27	2.16	2.47	2.24	2.54	2.46
16.2	Phaeophytin	mg/m <sup>3</sup>	0.50	0.16	1.98	0.20	0.61	0.18	0.80	0.32	0.45	0.19	0.50	0.61
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	192	124	164	116	172	104	162	98	184	116	192	112
16.4	Name of Group Number and name of group species of each group	--	Asterionella sp. Amphora sp. Chaetoceros sp. Coscinodiscus sp. Ceratiolum sp. Skeletonema sp.	Caloneis sp. Navicula sp. Rhizosolenia sp. Pleurosigma sp. Guinardia sp.	Navicula sp. Skeletonema sp. Coscinodiscus sp. Thalassiosira sp.	Nitzschia sp. Rhizosolenia sp. Pleurosigma sp. Synedra sp.	Asterionella sp. Coscinodiscus sp. Spirulina sp. Thalassiosira sp.	Nitzschia sp. Navicula sp. Synedra sp. Rhizosolenia sp.	Ankistrodesmus sp. Coscinodiscus sp. Chaetoceros sp. Rhizosolenia sp.	Nitzschia sp. Navicula sp. Pleurosigma sp. Synedra sp.	Rhizosolenia sp. Thalassiosira sp. Skeletonema sp. Pleurosigma sp.	Nitzschia sp. Navicula sp. Synedra sp. Coscinodiscus sp.	Navicula sp. Skeletonema sp. Thalassiosira sp. Gyrodinium sp.	Nitzschia sp. Coscinodiscus sp. Pleurosigma sp. Melosira sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/2021	25/11/2021	27/12/2021	19/01/2022	28/02/2022	26/03/2022
			South Side	South Side	South Side	South Side	South Side	South Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	31	34	30	26	28	23
17.2	Name of Group Number and name of group species of each group	--	Polychaetes Crustaceums Decapods Nauplius larvae	Polychaetes Napulius larvae Bivalves Decapods	Polychaetes Decapods Cyclops Nauplius larvae	Polychaetes Decapods Nauplius Cyclops	Polychaetes Decapods Nauplius larvae Bivalves	Polychaetes Nauplius larvae Bivalves
17.3	Total Biomass	ml/100 m <sup>3</sup>	2.80	3.25	3.00	2.55	2.75	2.25
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2680	2440	2520	2470	2610	2510
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: October-21 to March-22:-**

SR. NO..	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22	
			28/10/2021		25/11/2021		27/12/2021		19/01/2022		28/02/2022		26/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.19	8.12	8.07	7.98	8.13	8.09	7.95	7.90	7.98	7.96	8.09	8.01
2	Temperature	°C	30.0	29.9	29.7	29.5	29.8	29.6	29.7	29.6	29.8	29.6	30.4	30.2
3	Total Suspended Solids	mg/L	248	237	216	203	234	218	206	187	219	201	173	168
4	BOD (3 Days @ 27 °C)	mg/L	2.50	Not Detected	2.70	Not Detected	2.85	2.30	2.49	2.16	2.94	2.60	2.83	2.45
5	Dissolved Oxygen	mg/L	5.90	5.85	5.85	5.70	5.80	5.75	5.75	5.65	5.80	5.75	5.95	5.80
6	Salinity	ppt	30.56	30.74	31.28	31.46	30.35	30.86	34.12	34.72	34.37	34.8	34.56	34.86
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 <sub>3</sub>	µmol /L	2.83	2.70	2.58	2.32	2.51	2.43	3.26	3.17	3.32	3.21	3.14	2.98
9	Nitrite as NO <sub>2</sub>	µmol /L	0.94	0.86	0.79	0.64	0.96	0.89	0.73	0.65	0.83	0.73	0.79	0.71
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol /L	1.82	1.74	2.15	2.06	1.89	1.82	2.64	2.50	2.37	2.29	2.43	2.39
11	Phosphates as PO <sub>4</sub>	µmol /L	2.56	2.49	2.38	2.23	2.23	2.15	2.73	2.59	2.28	2.24	2.31	2.27
12	Total Nitrogen	µmol /L	5.59	5.30	5.52	5.02	5.36	5.14	6.63	6.32	6.52	6.23	6.36	6.08
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	31984	32236	32678	32894	31374	31856	34782	35418	34980	35408	35172	35482
15	COD	mg/L	11.20	8.60	12.60	9.20	12.86	9.45	12.39	10.80	13.54	11.80	13.16	10.68
<b>A Phytoplankton</b>														
16.1	Chlorophyll	mg/m <sup>3</sup>	2.57	2.40	2.63	2.35	2.57	2.40	2.27	2.29	2.41	2.34	2.63	2.45
16.2	Phaeophytin	mg/m <sup>3</sup>	0.42	0.23	0.37	0.22	0.42	0.23	0.27	0.70	0.58	0.29	0.37	0.18
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	184	130	164	118	186	122	166	104	192	110	204	122
16.4	Name of Group Number and name of group species of each group	--	Amphora sp. Navicula sp. Coscinosphaera sp. Melosira sp. Ceratomyx sp. Pinnularia sp.	Nitzschia sp. Skeletonema sp. Pleurosigma sp. Rhizosolenia sp.	Pinnularia sp. Coscinosphaera sp. Thalassiosira sp. Rhizosolenia sp.	Nitzschia sp. Navicula sp. Biddulphia sp. Synedra sp.	Closterium sp. Thalassiosira sp. Ankistrodesmus sp. Coscinosphaera sp.	Nitzschia sp. Closterium sp. Navicula sp. Synedra sp.	Thalassiosira sp. Slenedermus sp. Melosira sp. Biddulphia sp.	Nitzschia sp. Navicula sp. Synedra sp. Chaetoceros	Biddulphia sp. Pleurosigma sp. Thalassiosira sp. Closterium sp.	Navicula sp. Synedra sp. Nitzschia sp. Pinnularia sp.	Skeletonema sp. Thalassiosira sp. Coscinosphaera sp. Rhizosolenia sp. Gyrodinium sp.	Navicula sp. Synedra sp. Cyclotella sp. Nitzschia sp. Pleurosigma sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSISNORTH SIDE					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/2021	25/11/2021	27/12/2021	19/01/2022	28/02/2022	26/03/2022
			North Side	North Side	North Side	North Side	North Side	North Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	33	30	34	28	29	24
17.2	Name of Group Number and name of group species of each group	--	Decapods Polychaetes Copepods Sagitta sp.	Decapods Polychaetes Napulius larvae	Decapods Isopods Navicula sp. Nauplius larvae	Nauplius larvae Decapods Polychaetes Copepods	Nauplius larvae Decapods Polychaetes Copepods	Amphipods Polychaetes  Chaetognathes
17.3	Total Biomass	ml/100 m <sup>3</sup>	3.05	2.95	3.35	2.65	2.80	2.45
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2540	2610	2640	2500	2580	2640
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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### 3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

**Table -Sea Sediment Quality Analysis (South Side) Results for the period: October-21 to March-22**

Sr. No	PARAMETERS	UNIT	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/2021	25/11/2021	27/12/2021	19/01/2022	28/02/2022	26/03/2022
1	Organic Matter	%	0.56	0.43	0.43	0.37	0.31	0.38
2	Phosphorus as P	µg/g	673	596	678	589	528	612
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	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	4.93	4.68	4.82	4.73	4.92	4.81
5.2	Total Chromium as Cr <sup>+3</sup>	µg/g	138	103	129	138	118	123
5.3	Manganese as Mn	µg/g	612	592	618	564	603	631
5.4	Iron as Fe	%	4.78	4.80	4.83	4.98	4.76	4.80
5.5	Nickel as Ni	µg/g	51.30	41.92	51.64	42.75	53.68	39.32
5.6	Copper as Cu	µg/g	37.60	45.83	37.23	46.39	39.20	47.65
5.7	Zinc as Zn	µg/g	103	129	108	117	128	107
5.8	Lead as Pb	µg/g	2.10	2.37	2.19	1.59	2.37	1.75
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Crustaceans Gastropods Polychaetes	Crustaceans Polychaetes Coelenterates	Bivalves Gastropods Polychaetes	Gastropods Polychaetes Amphipods	Gastropods Polychaetes Echinoderms	Bivalves Gastropods Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Nematodes	Foraminiferans Nematodes	Nematodes
6.3	Population	no/m <sup>2</sup>	439	351	380	322	409	382

**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: October-21 to March-22:-**

Sr. No.	PARAMETERS	UNIT	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/2021	25/11/2021	27/12/2021	19/01/2022	28/02/2022	26/03/2022
1	Organic Matter	%	0.52	0.46	0.45	0.41	0.34	0.39
2	Phosphorus as P	mg/kg	640	582	653	572	541	673
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	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	4.98	4.79	4.89	4.68	4.87	4.69
5.2	Total Chromium as Cr <sup>+3</sup>	mg/kg	129	112	117	123	132	115
5.3	Manganese as Mn	mg/kg	634	586	623	576	610	651
5.4	Iron as Fe	%	4.82	4.72	4.76	4.92	4.86	4.72
5.5	Nickel as Ni	mg/kg	50.94	43.68	46.82	41.79	57.28	41.87
5.6	Copper as Cu	mg/kg	32.76	40.37	39.23	35.27	43.17	36.94
5.7	Zinc as Zn	mg/kg	114	135	116	129	139	118
5.8	Lead as Pb	mg/kg	2.17	2.49	2.24	1.78	2.14	1.75
5.9	Mercury as Hg	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Gastropods Isopods Crustaceans	Gastropods Crustaceans Decapods	Isopods Polychaetes Crustaceans	Polychaetes Gastropods Crustaceans	Amphipods Echinoderms Polychaetes	Crustaceans Gastropods Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	Nematodes	Foraminiferans	Nematodes	Foraminiferans	----
6.3	Population	no/m <sup>2</sup>	412	353	412	382	439	353

**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: October-21 to March-22**

Date			Nov-21	Nov-21	Feb-22	Feb-22
			25/11/2021	25/11/2021	28/02/2022	28/02/2022
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	--	8.65	8.81	8.79	8.82
2.	Total Dissolved Solids	mg/L	1712	1956	1483	2139
3.	Total Suspended Solids	mg/L	18	21	16	27
4.	Turbidity	NTU	3.56	3.45	2.40	2.78
5.	BOD (3 Days @ 27 °C)	mg/L	8.00	10.00	9.32	12.00
6.	Dissolved Oxygen	mg/L	6.00	6.20	5.95	6.00
7.	COD	mg/L	48	50	51	56
8.	Salinity	ppt	0.230	0.350	0.267	0.305
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO <sub>3</sub>	mg/L	618	744	572	673
11.	Fluoride as F	mg/L	0.56	0.59	0.39	0.48
12.	Chloride as Cl	mg/L	129	199	148	169
13.	Zinc as Zn	mg/L	0.19	0.21	0.17	0.28
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: OCTOBER-21 TO MARCH-22**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			28/10/2021	25/11/2021	27/12/2021	19/01/2022	28/02/2022	26/03/2022
1.	pH	--	7.26	7.52	7.44	7.32	7.38	7.49
2.	Total Suspended Solids	mg/L	21	26	19	17	23	18
3.	BOD (3 Days @ 27 °C)	mg/L	13	18	15	13	16	15
4.	Residual Free Chlorine	mg/L	0.8	0.8	0.6	0.8	0.7	0.7
5.	Oil & Grease	mg/L	3.0	2.1	3.5	2.9	3.1	4.5

**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 October-21 to March-22**

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	01/10/2021	01/11/2021	01/12/2021	01/01/2022	01/02/2022	01/03/2022
6:00-7:00	66.3	52.5	54.7	52.4	52.0	54.7
7:00-8:00	54.1	54.5	55.5	59.1	58.1	59.8
8:00-9:00	51.8	50.2	52.4	61.4	59.7	63.2
9:00-10:00	56.9	53.5	51.4	57.6	58.0	51.0
10:00-11:00	51.2	49.7	49.0	63.9	63.4	60.4
11:00-12:00	47.1	53.2	54.2	59.2	57.6	56.1
12:00-13:00	48.2	57.7	58.3	54.1	55.7	55.5
13:00-14:00	49.9	60.5	61.4	49.7	51.4	47.7
14:00-15:00	64.5	65.8	64.2	53.9	54.4	63.5
15:00-16:00	52.1	61.3	63.0	58.3	58.4	59.3
16:00-17:00	53.1	60.1	62.1	62.4	61.3	57.0
17:00-18:00	56.2	65.2	67.6	66.8	65.6	62.4
18:00-19:00	62.9	62.3	65.9	69.1	67.4	50.9
19:00-20:00	55.6	63.4	61.3	65.4	65.3	45.5
20:00-21:00	65.4	58.5	57.1	60.3	61.0	58.3
21:00-22:00	62.7	55.2	53.5	55.7	58.2	52.1

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	01/10/2021 & 02/10/2021	01/11/2021 & 02/11/2021	01/12/2021 & 02/12/2021	01/01/2022 & 02/01/2022	01/02/2022 & 02/02/2022	01/03/2022 & 02/03/2022
22:00-23:00	55.3	50.3	50.5	59.8	59.2	54.6
23:00-00:00	47.5	53.2	51.4	58.3	58.4	52.5
00:00-01:00	44.9	49.3	59.4	56.6	56.8	54.1
01:00-02:00	53.5	46.8	44.3	52.1	54.0	56.7
02:00-03:00	60.3	52.6	49.7	47.9	47.8	48.9
03:00-04:00	50.4	57.5	59.0	51.9	50.1	43.6
04:00-05:00	56.3	54.2	50.7	53.3	52.6	46.2
05:00-06:00	54.1	49.7	51.0	54.4	52.5	44.8

\*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.

  
Authorized Signatory







**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 October-21 to March-22**

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	02/10/2021	02/11/2021	02/12/2021	03/01/2022	02/02/2022	02/03/2022
6:00-7:00	65.8	67.2	65.9	47.9	49.6	49.2
7:00-8:00	69.8	63.7	62.9	51.4	50.8	53.6
8:00-9:00	61.3	60.2	61.8	55.6	57.1	60.1
9:00-10:00	68.5	59.7	61.3	58.7	58.3	50.6
10:00-11:00	62.4	58.3	55.8	54.8	54.7	51.2
11:00-12:00	67.5	62.1	61.4	50.1	49.9	48.9
12:00-13:00	56.8	65.8	66.1	55.3	53.4	56.0
13:00-14:00	66.2	66.5	64.7	58.5	59.7	54.3
14:00-15:00	67.8	63.2	63.9	60.7	58.9	62.7
15:00-16:00	53.4	58.6	56.1	63.9	62.1	57.5
16:00-17:00	65.3	53.9	53.7	67.4	66.5	58.7
17:00-18:00	67.4	59.3	60.8	71.5	71.3	52.5
18:00-19:00	69.4	64.2	62.5	66.3	67.3	55.2
19:00-20:00	64.3	60.5	60.7	62.9	62.2	61.1
20:00-21:00	62.1	57.9	56.7	57.8	58.7	43.1
21:00-22:00	70.6	56.2	58.3	52.3	53.9	59.7

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	02/10/2021 & 03/10/2021	02/11/2021 & 03/11/2021	02/12/2021 & 03/12/2021	03/01/2022 & 04/01/2022	02/02/2022 & 03/02/2022	02/03/2022 & 03/03/2022
22:00-23:00	51.1	63.2	62.4	61.9	62.4	52.8
23:00-00:00	53.4	59.5	56.7	59.3	60.6	43.7
00:00-01:00	48.7	54.2	54.8	55.2	57.1	59.1
01:00-02:00	45.6	56.3	57.6	56.7	55.2	56.6
02:00-03:00	41.6	51.6	45.2	60.2	61.6	54.2
03:00-04:00	51.4	48.8	57.9	55.2	56.2	50.7
04:00-05:00	56.6	43.7	48.5	50.7	52.4	46.0
05:00-06:00	55.2	47.3	59.9	46.1	46.8	42.1

\*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.

*[Signature]*

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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 October-21 to March-22,**

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	04/10/2021	03/11/2021	03/12/2021	04/01/2022	03/02/2022	03/03/2022
6:00-7:00	61.4	61.6	62.8	46.1	47.3	45.1
7:00-8:00	67.7	59.0	59.6	48.9	49.2	45.7
8:00-9:00	59.3	60.8	62.5	52.1	54.2	56.6
9:00-10:00	64.7	57.6	57.0	56.2	57.3	53.4
10:00-11:00	55.8	62.5	63.2	58.5	58.8	43.4
11:00-12:00	62.3	61.4	59.5	60.3	59.0	54.3
12:00-13:00	71.1	59.2	59.3	63.4	61.6	48.3
13:00-14:00	65.5	62.3	62.6	67.4	67.5	41.4
14:00-15:00	58.3	59.6	58.9	70.5	69.5	44.4
15:00-16:00	56.9	55.5	57.2	66.4	65.3	55.4
16:00-17:00	68.8	57.2	55.6	62.1	63.7	49.5
17:00-18:00	56.4	60.5	58.2	59.3	61.2	50.9
18:00-19:00	65.1	64.3	63.5	55.4	53.7	52.9
19:00-20:00	70.3	67.8	69.7	51.8	52.0	57.3
20:00-21:00	58.7	70.8	71.5	49.3	48.3	58.4
21:00-22:00	52.8	71.2	70.5	53.9	52.1	47.6

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	04/10/2021 & 05/10/2021	03/11/2021 & 04/11/2021	03/12/2021 & 04/12/2021	04/01/2022 & 05/01/2022	03/02/2022 & 04/02/2022	03/03/2022 & 04/03/2022
22:00-23:00	57.8	61.5	63.0	58.8	60.4	46.0
23:00-00:00	47.9	57.6	57.4	58.0	56.5	51.9
00:00-01:00	56.1	61.2	62.3	60.8	59.1	53.5
01:00-02:00	51.2	59.6	57.2	55.6	53.7	49.4
02:00-03:00	40.8	54.8	54.5	51.8	52.7	42.3
03:00-04:00	47.4	49.3	46.4	53.6	53.2	50.0
04:00-05:00	58.1	45.6	59.2	48.7	49.2	45.5
05:00-06:00	56.7	41.8	41.0	51.6	51.0	52.3

\*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.<sup>1</sup>

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



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**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 October-21 to March-22**


Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	05/10/2021	08/11/2021	04/12/2021	05/01/2022	04/02/2022	04/03/2022
6:00-7:00	54.6	54.7	55.3	53.2	54.2	41.9
7:00-8:00	55.4	58.7	60.5	58.3	59.1	65.4
8:00-9:00	60.1	61.2	61.5	62.3	63.0	52.0
9:00-10:00	58.8	63.5	63.8	65.9	65.8	59.6
10:00-11:00	65.4	58.8	57.5	60.1	58.6	66.7
11:00-12:00	70.5	59.3	60.4	56.4	58.2	53.2
12:00-13:00	62.8	62.3	64.2	51.3	52.4	62.7
13:00-14:00	58.4	67.5	65.2	54.5	54.0	55.5
14:00-15:00	62.2	70.2	68.2	48.6	48.3	54.6
15:00-16:00	66.7	65.2	64.8	72.4	57.1	48.2
16:00-17:00	65.2	60.2	61.9	67.3	54.7	43.7
17:00-18:00	70.2	62.2	60.1	63.8	49.9	44.4
18:00-19:00	56.7	57.6	57.0	57.9	53.8	63.1
19:00-20:00	69.9	54.3	54.8	53.4	56.7	49.6
20:00-21:00	56.3	55.8	57.8	50.3	51.8	61.4
21:00-22:00	59.6	53.7	53.8	45.7	44.4	42.9

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	05/10/2021 & 06/10/2021	08/11/2021 & 09/11/2021	04/12/2021 & 05/12/2021	05/01/2022 & 06/01/2022	04/02/2022 & 05/02/2022	04/03/2022 & 05/03/2022
22:00-23:00	60.1	48.3	41.7	49.5	48.9	42.9
23:00-00:00	44.2	51.2	47.7	52.7	52.2	48.7
00:00-01:00	65.1	56.4	50.6	59.9	58.9	53.9
01:00-02:00	50.0	60.4	54.3	48.4	46.9	37.2
02:00-03:00	44.6	55.6	49.2	57.2	59.1	45.4
03:00-04:00	51.2	52.6	46.5	50.5	51.3	43.7
04:00-05:00	47.8	47.6	43.8	55.8	55.7	49.3
05:00-06:00	43.2	43.7	40.9	43.7	42.9	41.1

\*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 - 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 October-21 to March-22**

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	06/10/2021	09/11/2021	06/12/2021	06/01/2022	05/02/2022	05/03/2022
6:00-7:00	68.4	53.7	55.6	52.3	52.4	55.8
7:00-8:00	58.2	57.0	57.6	59.3	60.2	41.8
8:00-9:00	57.6	62.3	63.8	56.3	58.2	42.6
9:00-10:00	47.8	66.8	65.0	53.2	54.9	44.8
10:00-11:00	56.2	70.3	69.5	50.2	52.0	54.9
11:00-12:00	61.1	66.5	65.2	52.0	51.4	52.6
12:00-13:00	68.1	63.4	64.5	49.3	50.6	49.4
13:00-14:00	57.2	60.4	58.9	66.3	65.1	46.4
14:00-15:00	53.3	58.9	57.0	62.5	61.9	45.8
15:00-16:00	50.3	56.3	57.3	69.8	49.5	56.8
16:00-17:00	59.9	59.8	58.4	66.4	55.3	49.9
17:00-18:00	53.1	62.5	61.1	62.1	51.0	55.4
18:00-19:00	55.2	63.5	63.2	58.1	46.2	51.6
19:00-20:00	52.7	65.4	65.1	55.4	60.6	50.8
20:00-21:00	49.9	62.8	62.7	51.0	50.2	51.4
21:00-22:00	53.2	58.6	57.5	43.9	44.9	48.7

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	06/10/2021 & 07/10/2021	09/11/2021 & 10/11/2021	06/12/2021 & 07/12/2021	06/01/2022 & 07/01/2022	05/02/2022 & 06/02/2022	05/03/2022 & 06/03/2022
22:00-23:00	44.2	52.8	51.2	42.8	41.0	46.6
23:00-00:00	48.3	48.3	52.3	55.1	53.7	45.2
00:00-01:00	40.3	44.4	46.5	45.4	45.6	45.8
01:00-02:00	58.1	49.5	41.3	48.0	48.6	44.2
02:00-03:00	50.0	54.3	43.0	58.3	57.2	43.2
03:00-04:00	55.8	59.2	54.7	54.2	53.7	42.0
04:00-05:00	51.2	55.6	41.8	53.2	52.2	40.9
05:00-06:00	56.2	50.4	41.2	51.8	50.4	41.5

\*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 -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 October-21 to March-22**

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	07/10/2021	10/11/2021	07/12/2021	07/01/2022	07/02/2022	07/03/2022
6:00-7:00	63.4	59.5	57.7	60.5	61.3	42.3
7:00-8:00	68.7	60.4	61.1	55.6	55.4	44.5
8:00-9:00	60.2	65.2	66.8	70.3	70.4	45.9
9:00-10:00	58.1	66.9	67.0	47.7	49.5	50.3
10:00-11:00	49.8	61.8	62.2	53.7	52.2	53.6
11:00-12:00	57.1	56.5	54.0	45.8	44.4	57.4
12:00-13:00	54.3	54.6	53.8	60.0	59.7	52.9
13:00-14:00	56.1	52.2	52.1	63.3	64.1	48.8
14:00-15:00	63.9	55.8	55.3	51.5	51.6	53.8
15:00-16:00	59.2	57.6	59.0	50.9	50.7	51.4
16:00-17:00	46.9	60.8	61.5	57.1	55.6	52.3
17:00-18:00	61.2	63.1	61.7	50.4	44.8	49.4
18:00-19:00	51.3	57.8	59.4	55.3	56.2	51.2
19:00-20:00	70.1	55.6	54.1	51.9	53.8	48.6
20:00-21:00	54.8	51.2	49.2	54.2	54.5	46.3
21:00-22:00	63.1	54.4	56.1	47.3	48.7	45.4

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	07/10/2021 & 08/10/2021	10/11/2021 & 11/11/2021	07/12/2021 & 08/12/2021	07/01/2022 & 08/01/2022	07/02/2022 & 08/02/2022	07/03/2022 & 08/03/2022
22:00-23:00	59.2	66.3	45.4	62.9	64.4	48.1
23:00-00:00	44.8	61.2	46.0	58.8	60.2	40.6
00:00-01:00	58.1	59.3	59.7	50.1	50.2	45.3
01:00-02:00	51.3	55.2	52.5	48.3	48.4	41.9
02:00-03:00	47.6	53.8	55.5	53.4	53.3	51.2
03:00-04:00	61.2	48.9	46.6	61.6	62.8	49.4
04:00-05:00	60.0	43.5	44.4	44.7	42.9	44.5
05:00-06:00	48.1	47.5	40.6	52.7	52.4	40.5

\*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 October-21 to March-22**

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	08/10/2021	11/11/2021	08/12/2021	08/01/2022	08/02/2022	08/03/2022
6:00-7:00	51.6	58.4	56.5	50.1	50.3	44.6
7:00-8:00	60.1	62.5	59.1	55.8	57.3	45.9
8:00-9:00	61.0	60.6	60.5	59.5	58.5	48.5
9:00-10:00	56.7	59.3	58.3	44.3	44.7	51.2
10:00-11:00	70.3	62.7	61.2	56.9	58.2	52.6
11:00-12:00	54.3	60.2	60.8	50.7	49.0	58.4
12:00-13:00	55.3	63.8	62.9	60.8	61.5	55.9
13:00-14:00	56.3	65.8	67.8	61.9	62.8	51.6
14:00-15:00	58.2	68.3	65.9	54.1	52.8	56.1
15:00-16:00	66.4	70.5	73.0	50.4	51.3	54.8
16:00-17:00	55.8	73.3	71.3	73.0	66.8	58.5
17:00-18:00	72.4	69.5	67.1	70.2	48.3	53.6
18:00-19:00	57.4	66.2	67.4	67.8	60.9	54.3
19:00-20:00	62.1	61.9	63.9	65.1	46.9	50.4
20:00-21:00	65.2	59.6	59.4	60.4	50.8	49.3
21:00-22:00	59.1	62.3	62.4	58.6	58.3	48.2

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	08/10/2021 & 09/10/2021	11/11/2021 & 12/11/2021	08/12/2021 & 09/12/2021	08/01/2022 & 09/01/2022	08/02/2022 & 09/02/2022	08/03/2022 & 09/03/2022
22:00-23:00	52.3	55.3	56.0	64.2	64.9	48.8
23:00-00:00	50.1	50.5	55.1	50.4	50.7	46.3
00:00-01:00	48.6	44.6	40.0	59.7	59.0	42.1
01:00-02:00	44.8	49.8	45.8	55.7	54.8	47.5
02:00-03:00	43.3	52.8	41.2	60.5	58.7	47.7
03:00-04:00	61.2	57.6	49.9	49.8	50.5	40.8
04:00-05:00	62.5	60.4	51.9	61.9	62.2	46.5
05:00-06:00	56.1	63.2	54.2	42.7	43.2	44.7

<sup>#</sup>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 October-21 to March-22**

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	09/10/2021	12/11/2021	09/12/2021	10/01/2022	09/02/2022	09/03/2022
6:00-7:00	65.5	70.2	71.3	57.8	58.7	54.1
7:00-8:00	59.2	67.2	68.0	51.7	52.4	43.0
8:00-9:00	57.2	64.3	64.4	59.9	61.7	43.7
9:00-10:00	70.9	65.8	68.3	48.8	48.0	56.8
10:00-11:00	63.1	63.5	63.6	52.8	52.5	61.1
11:00-12:00	55.4	60.3	61.6	61.1	61.6	59.2
12:00-13:00	65.6	57.9	57.3	50.9	49.4	61.5
13:00-14:00	50.3	56.3	57.9	56.8	58.3	63.7
14:00-15:00	59.7	51.1	49.8	45.8	46.6	65.4
15:00-16:00	61.3	54.3	55.3	54.5	52.6	59.8
16:00-17:00	56.1	58.6	60.1	53.6	53.9	62.5
17:00-18:00	72.5	61.5	59.9	70.1	47.8	73.3
18:00-19:00	66.5	65.3	64.2	65.5	49.1	60.0
19:00-20:00	59.3	70.1	67.5	61.7	59.7	44.6
20:00-21:00	60.5	66.8	66.1	56.7	55.1	44.1
21:00-22:00	70.1	63.8	61.7	60.8	61.1	59.3

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	09/10/2021 & 10/10/2021	12/11/2021 & 13/11/2021	09/12/2021 & 10/12/2021	10/01/2022 & 11/01/2022	09/02/2022 & 10/02/2022	09/03/2022 & 10/03/2022
22:00-23:00	60.1	58.2	58.1	59.4	59.0	47.7
23:00-00:00	58.1	55.4	53.8	52.6	51.2	51.5
00:00-01:00	46.2	52.4	44.9	58.3	59.6	45.5
01:00-02:00	44.2	50.6	53.0	59.8	61.0	52.5
02:00-03:00	51.3	54.7	55.8	48.0	48.9	44.9
03:00-04:00	61.3	49.6	41.4	43.8	42.4	52.4
04:00-05:00	48.2	45.8	46.6	55.9	54.7	40.8
05:00-06:00	50.1	50.2	49.6	55.1	56.6	47.4

\*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 -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-21 to March-22**

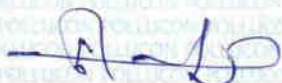
Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	11/10/2021	13/11/2021	10/12/2021	11/01/2022	10/02/2022	10/03/2022
6:00-7:00	69.6	61.4	59.7	68.5	67.1	45.6
7:00-8:00	67.1	60.1	62.7	51.2	52.9	45.5
8:00-9:00	64.8	64.8	66.4	59.4	59.2	47.5
9:00-10:00	56.8	69.5	71.1	51.1	57.2	46.1
10:00-11:00	65.8	66.5	65.8	59.7	54.6	55.6
11:00-12:00	55.7	63.5	65.4	48.9	50.3	51.5
12:00-13:00	61.1	60.6	61.5	56.9	58.3	42.1
13:00-14:00	67.3	60.8	62.2	51.5	52.4	53.2
14:00-15:00	51.4	57.5	59.4	45.9	45.7	71.2
15:00-16:00	55.2	59.7	57.5	52.5	53.6	55.8
16:00-17:00	64.4	62.2	62.8	61.4	63.0	55.9
17:00-18:00	60.2	60.3	58.1	61.2	59.6	45.2
18:00-19:00	65.3	58.2	58.7	44.9	45.3	57.3
19:00-20:00	60.6	53.0	53.1	55.6	54.3	52.2
20:00-21:00	65.4	57.3	58.9	57.9	58.1	53.3
21:00-22:00	55.6	60.2	60.8	53.6	53.7	56.9

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	11/10/2021 & 12/10/2021	13/11/2021 & 14/11/2021	10/12/2021 & 11/12/2021	11/01/2022 & 12/01/2022	10/02/2022 & 11/02/2022	10/03/2022 & 11/03/2022
22:00-23:00	46.3	60.3	57.9	63.0	63.4	44.2
23:00-00:00	50.8	55.3	52.6	56.9	56.4	49.8
00:00-01:00	61.1	50.1	47.8	59.4	59.2	49.1
01:00-02:00	51.3	45.4	44.6	53.6	54.3	43.8
02:00-03:00	63.6	48.1	43.6	62.4	64.3	47.2
03:00-04:00	47.3	46.3	40.9	56.0	54.2	42.4
04:00-05:00	56.8	49.8	45.9	55.1	53.2	39.2
05:00-06:00	50.7	46.2	43.3	44.4	44.5	52.6

\*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.

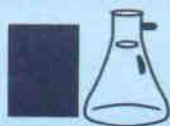
**Observation:** Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.



**Authorized Signatory**







**Tables - 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 October-21 to March-22**

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	12/10/2021	15/11/2021	11/12/2021	12/01/2022	11/02/2022	11/03/2022
6:00-7:00	66.7	54.1	54.9	50.7	51.1	49.3
7:00-8:00	68.1	56.4	57.7	60.2	60.6	57.2
8:00-9:00	57.8	61.1	59.4	61.6	62.2	66.9
9:00-10:00	50.9	65.9	64.7	46.2	46.8	61.4
10:00-11:00	61.2	69.2	67.0	54.7	53.8	62.8
11:00-12:00	57.1	65.1	63.8	52.2	51.3	56.4
12:00-13:00	62.2	61.4	60.5	48.4	48.7	55.1
13:00-14:00	53.2	57.1	56.6	51.9	57.3	63.8
14:00-15:00	60.9	52.6	58.4	56.8	61.3	53.9
15:00-16:00	53.1	56.8	59.1	60.9	44.2	49.6
16:00-17:00	58.7	60.3	63.7	65.7	58.6	51.1
17:00-18:00	61.5	65.3	66.7	71.3	52.4	60.6
18:00-19:00	69.7	62.4	62.7	68.3	53.0	56.2
19:00-20:00	71.1	60.8	63.1	64.8	54.2	67.6
20:00-21:00	69.5	59.2	57.5	60.6	59.8	64.8
21:00-22:00	62.6	55.5	54.6	65.9	52.0	52.7

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	12/10/2021 & 13/10/2021	15/11/2021 & 16/11/2021	11/12/2021 & 12/12/2021	12/01/2022 & 13/01/2022	11/02/2022 & 12/02/2022	11/03/2022 & 12/03/2022
22:00-23:00	50.1	47.3	45.0	57.8	59.7	43.3
23:00-00:00	58.1	52.7	52.4	53.7	52.1	50.4
00:00-01:00	44.2	55.9	45.7	60.7	59.7	61.3
01:00-02:00	56.2	59.7	48.1	50.2	50.4	35.5
02:00-03:00	61.1	64.2	60.0	48.6	49.2	41.1
03:00-04:00	43.7	60.8	44.8	54.3	53.9	44.5
04:00-05:00	43.9	56.8	50.6	42.9	43.4	47.1
05:00-06:00	46.1	51.9	52.9	53.6	52.3	53.5

\*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.

**Authorized Signatory**

● FSSAI Approved Lab

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

● GPCB approved  
schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001







**Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-21 to March-22**

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	13/10/2021	16/11/2021	13/12/2021	13/01/2022	12/02/2022	12/03/2022
6:00-7:00	58.9	57.6	57.5	58.9	47.8	45.2
7:00-8:00	62.3	60.2	60.6	59.5	58.8	46.4
8:00-9:00	65.7	63.2	65.7	55.7	44.9	50.9
9:00-10:00	58.6	62.4	59.9	51.8	48.7	51.1
10:00-11:00	59.5	61.2	60.5	48.6	53.6	55.3
11:00-12:00	54.2	64.7	63.1	50.4	48.2	56.2
12:00-13:00	62.5	67.8	65.3	53.7	49.2	62.1
13:00-14:00	66.9	71.5	70.2	57.8	52.1	62.7
14:00-15:00	55.9	66.9	66.8	61.4	43.9	65.9
15:00-16:00	61.7	63.8	65.6	65.8	46.8	65.7
16:00-17:00	56.9	60.5	59.5	70.5	55.7	67.6
17:00-18:00	65.1	58.6	59.3	66.9	53.4	68.4
18:00-19:00	63.8	57.5	56.5	63.8	45.7	69.3
19:00-20:00	70.4	59.4	58.9	60.7	43.6	65.5
20:00-21:00	63.2	63.1	60.4	56.9	45.8	67.1
21:00-22:00	65.9	60.8	62.5	52.7	45.6	62.6

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	13/10/2021 & 14/10/2021	16/11/2021 & 17/11/2021	13/12/2021 & 14/12/2021	13/01/2022 & 14/01/2022	12/02/2022 & 13/02/2022	12/03/2022 & 13/03/2022
22:00-23:00	42.8	56.3	46.4	50.6	51.6	63.5
23:00-00:00	55.6	59.7	61.2	55.9	55.7	59.6
00:00-01:00	42.3	57.4	48.6	57.1	55.3	57.4
01:00-02:00	52.8	54.4	52.3	47.8	47.6	60.5
02:00-03:00	50.0	50.2	42.8	57.9	57.4	52.0
03:00-04:00	54.2	48.2	49.4	56.7	57.6	52.3
04:00-05:00	63.1	44.6	42.6	43.3	41.7	48.1
05:00-06:00	55.1	49.4	50.7	50.9	49.3	46.6

<sup>#</sup>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 - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-21 to March-22**

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	14/10/2021	17/11/2021	14/12/2021	14/01/2022	14/02/2022	13/03/2022
6:00-7:00	61.6	55.6	55.0	46.4	47.2	44.8
7:00-8:00	65.6	59.8	58.9	58.8	59.0	45.2
8:00-9:00	64.3	64.9	63.9	52.8	53.0	50.1
9:00-10:00	63.8	59.6	60.1	61.4	60.3	50.9
10:00-11:00	66.2	64.6	65.0	48.5	48.3	55.4
11:00-12:00	67.8	67.2	68.5	52.6	52.9	58.5
12:00-13:00	69.4	69.2	71.7	52.2	51.2	58.9
13:00-14:00	58.7	64.2	65.3	54.7	56.3	61.6
14:00-15:00	66.9	62.3	61.9	53.1	53.4	64.1
15:00-16:00	62.2	66.4	63.8	50.1	50.9	67.9
16:00-17:00	58.5	70.1	65.1	49.6	47.7	68.0
17:00-18:00	67.1	67.5	68.9	60.9	62.1	67.4
18:00-19:00	63.4	63.6	63.4	45.9	50.4	68.1
19:00-20:00	56.8	58.6	61.0	47.0	47.4	69.0
20:00-21:00	59.8	60.7	63.2	61.3	59.7	67.7
21:00-22:00	61.4	57.6	56.5	70.6	70.4	64.0

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	14/10/2021 & 15/10/2021	17/11/2021 & 18/11/2021	14/12/2021 & 15/12/2021	14/01/2022 & 15/01/2022	14/02/2022 & 15/02/2022	13/03/2022 & 14/03/2022
22:00-23:00	60.1	42.8	40.8	57.7	57.8	65.5
23:00-00:00	58.4	44.5	52.1	53.0	51.1	60.9
00:00-01:00	54.1	47.3	60.5	55.6	55.1	61.0
01:00-02:00	52.5	50.3	57.4	44.3	43.6	55.0
02:00-03:00	55.2	54.6	57.8	60.6	61.4	50.8
03:00-04:00	48.2	59.1	55.6	60.5	61.5	51.6
04:00-05:00	41.1	55.4	53.0	58.5	59.2	49.4
05:00-06:00	50.0	51.2	48.3	48.0	47.1	49.9

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

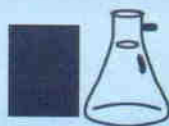
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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

**Authorized Signatory**







**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 October-21 to March-22**

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	15/10/2021	18/11/2021	15/12/2021	15/01/2022	15/02/2022	14/03/2022
6:00-7:00	51.2	56.3	54.3	48.2	49.5	46.3
7:00-8:00	55.3	60.3	58.6	53.7	57.9	53.3
8:00-9:00	69.7	62.7	62.2	56.6	58.4	45.7
9:00-10:00	69.9	61.3	62.6	51.4	51.8	45.8
10:00-11:00	66.3	59.8	61.8	54.1	43.3	49.2
11:00-12:00	65.7	57.2	54.9	58.6	48.1	60.2
12:00-13:00	53.6	60.5	61.9	62.8	53.3	52.6
13:00-14:00	56.5	65.3	63.4	66.2	47.9	50.3
14:00-15:00	63.2	67.1	65.8	69.4	57.8	57.1
15:00-16:00	70.1	72.1	73.6	72.6	52.0	55.3
16:00-17:00	59.3	67.8	65.4	67.8	51.7	44.2
17:00-18:00	53.4	62.8	63.1	64.8	49.4	40.5
18:00-19:00	68.2	59.5	59.3	60.2	49.7	66.2
19:00-20:00	52.4	58.1	59.5	58.1	59.3	53.2
20:00-21:00	57.4	59.3	61.0	54.0	52.8	64.1
21:00-22:00	61.3	60.1	61.6	57.4	56.5	58.1

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	15/10/2021 & 16/10/2021	18/11/2021 & 19/11/2021	15/12/2021 & 16/12/2021	15/01/2022 & 16/01/2022	15/02/2022 & 16/02/2022	14/03/2022 & 15/03/2022
22:00-23:00	63.1	46.4	46.7	55.3	54.1	55.1
23:00-00:00	50.0	50.2	54.7	46.8	46.0	39.4
00:00-01:00	58.3	53.6	54.0	54.7	55.6	45.2
01:00-02:00	53.9	55.0	56.1	49.3	48.8	41.5
02:00-03:00	44.1	57.4	65.6	58.7	59.0	46.6
03:00-04:00	64.0	54.6	41.8	53.5	54.1	50.2
04:00-05:00	52.7	51.4	52.2	51.3	49.7	47.9
05:00-06:00	61.2	55.8	53.2	43.6	43.5	39.1

<sup>#</sup>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 October-21 to March-22**

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	16/10/2021	19/11/2021	16/12/2021	17/01/2022	16/02/2022	15/03/2022
6:00-7:00	60.3	62.4	62.5	53.4	54.1	55.7
7:00-8:00	52.1	60.8	62.4	48.8	44.6	57.3
8:00-9:00	61.5	62.9	61.6	52.6	53.3	45.3
9:00-10:00	71.2	67.3	64.9	54.5	54.2	63.3
10:00-11:00	51.9	69.0	66.8	58.3	53.2	54.6
11:00-12:00	55.5	65.3	66.3	61.9	57.0	56.6
12:00-13:00	59.7	63.2	65.4	65.8	49.6	44.8
13:00-14:00	62.9	60.3	60.7	67.3	42.7	55.9
14:00-15:00	50.8	62.5	60.2	70.1	59.7	47.3
15:00-16:00	63.4	59.3	57.6	68.3	54.6	44.7
16:00-17:00	52.6	57.4	55.9	64.5	52.5	49.8
17:00-18:00	61.8	54.3	51.9	60.8	54.0	55.5
18:00-19:00	66.6	52.6	51.4	57.6	49.9	61.3
19:00-20:00	58.7	50.9	51.7	55.9	50.3	50.7
20:00-21:00	55.1	48.7	49.5	52.0	53.0	52.4
21:00-22:00	59.1	52.4	51.1	54.6	56.4	59.1

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	16/10/2021 & 17/10/2021	19/11/2021 & 20/11/2021	16/12/2021 & 17/12/2021	17/01/2022 & 18/01/2022	16/02/2022 & 17/02/2022	15/03/2022 & 16/03/2022
22:00-23:00	66.4	53.8	51.5	51.9	52.7	41.1
23:00-00:00	55.1	48.5	40.1	54.8	54.0	47.4
00:00-01:00	58.2	44.1	41.0	60.5	60.8	41.2
01:00-02:00	47.0	47.9	46.6	46.1	45.3	44.1
02:00-03:00	50.9	43.5	43.2	43.3	42.1	44.8
03:00-04:00	54.3	48.6	48.2	57.7	58.3	42.2
04:00-05:00	56.9	52.8	55.1	49.3	49.0	40.6
05:00-06:00	65.1	49.3	42.8	49.2	49.1	41.3

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

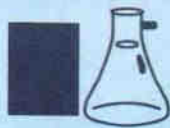
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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

  
**Authorized Signatory**







**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 October-21 to March-22**

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	18/10/2021	20/11/2021	17/12/2021	18/01/2022	17/02/2022	16/03/2022
6:00-7:00	65.1	54.8	52.9	52.6	56.3	50.4
7:00-8:00	55.6	58.6	57.1	47.3	47.4	56.5
8:00-9:00	60.1	56.8	55.0	51.8	53.4	52.2
9:00-10:00	62.1	59.4	59.6	54.7	46.1	55.8
10:00-11:00	70.2	63.8	64.3	56.3	50.7	60.5
11:00-12:00	56.2	68.1	67.5	60.5	54.6	47.3
12:00-13:00	45.9	70.2	69.1	64.2	52.8	72.3
13:00-14:00	47.5	68.3	67.1	66.9	55.4	67.5
14:00-15:00	68.1	65.2	66.4	68.3	50.9	50.5
15:00-16:00	57.2	61.2	58.9	71.5	44.9	44.8
16:00-17:00	51.6	56.7	57.4	69.5	46.4	48.8
17:00-18:00	66.7	55.6	57.9	65.1	56.2	58.2
18:00-19:00	64.2	57.1	56.2	62.4	50.8	46.6
19:00-20:00	71.8	60.1	59.2	57.6	52.9	55.3
20:00-21:00	62.7	62.5	63.1	53.6	61.7	50.7
21:00-22:00	65.2	66.1	67.8	49.1	45.9	44.3

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	18/10/2021 & 19/10/2021	20/11/2021 & 21/11/2021	17/12/2021 & 18/12/2021	18/01/2022 & 19/01/2022	17/02/2022 & 18/02/2022	16/03/2022 & 17/03/2022
22:00-23:00	51.3	42.6	42.1	59.5	60.6	49.8
23:00-00:00	68.1	46.3	52.7	44.4	43.7	53.1
00:00-01:00	67.3	50.2	51.2	53.9	52.8	57.2
01:00-02:00	53.4	49.3	48.5	51.0	49.4	47.1
02:00-03:00	56.7	47.8	48.1	46.6	46.7	43.1
03:00-04:00	40.5	49.2	46.1	47.8	48.9	66.2
04:00-05:00	58.1	54.6	47.6	60.1	61.3	44.2
05:00-06:00	54.8	59.2	65.6	58.0	57.0	51.5

\*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 - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-21 to March-22**

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	19/10/2021	22/11/2021	18/12/2021	19/01/2022	18/02/2022	17/03/2022
6:00-7:00	50.3	48.2	47.4	44.3	45.2	60.3
7:00-8:00	67.9	50.8	48.7	47.8	47.6	51.3
8:00-9:00	60.2	53.5	54.3	53.1	54.8	48.9
9:00-10:00	58.1	58.2	58.6	55.8	56.0	52.5
10:00-11:00	49.8	62.3	60.3	58.4	48.7	47.9
11:00-12:00	57.1	60.8	62.0	63.8	52.5	41.6
12:00-13:00	54.3	56.4	57.7	66.4	46.0	50.6
13:00-14:00	56.1	61.5	59.7	69.2	59.4	57.1
14:00-15:00	63.1	60.5	62.3	64.5	53.6	45.9
15:00-16:00	59.2	64.3	63.2	59.9	52.3	60.6
16:00-17:00	56.4	67.3	66.3	55.6	52.1	48.6
17:00-18:00	61.2	70.2	72.4	52.1	49.8	45.7
18:00-19:00	51.3	66.3	68.1	47.2	45.0	58.4
19:00-20:00	65.9	63.2	62.5	53.8	55.4	65.8
20:00-21:00	54.8	60.3	62.4	55.1	55.6	57.2
21:00-22:00	53.1	56.3	57.2	59.8	59.7	49.3

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	19/10/2021 & 20/10/2021	22/11/2021 & 23/11/2021	18/12/2021 & 19/12/2021	19/01/2022 & 20/01/2022	18/02/2022 & 19/02/2022	17/03/2022 & 18/03/2022
22:00-23:00	52.2	51.8	40.4	54.1	52.6	41.6
23:00-00:00	62.4	56.4	48.2	42.4	40.6	55.6
00:00-01:00	64.4	60.3	59.2	57.3	57.5	44.5
01:00-02:00	53.8	55.6	46.1	48.1	47.4	67.1
02:00-03:00	59.0	51.1	51.3	49.1	47.8	55.1
03:00-04:00	49.3	48.3	56.1	43.6	43.2	41.3
04:00-05:00	55.4	52.2	50.0	52.6	52.1	48.7
05:00-06:00	59.3	50.9	51.5	45.9	45.1	43.7

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

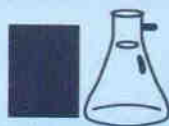
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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

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**Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-21 to March-22**

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	20/10/2021	23/11/2021	20/12/2021	20/01/2022	19/02/2022	18/03/2022
6:00-7:00	53.1	53.6	56.1	55.4	59.7	57.2
7:00-8:00	55.4	56.8	58.5	51.9	55.7	45.6
8:00-9:00	62.3	59.3	60.1	55.8	57.0	50.2
9:00-10:00	47.9	57.3	58.7	52.9	53.7	48.8
10:00-11:00	49.4	58.2	56.6	50.1	49.0	51.1
11:00-12:00	61.1	56.6	58.3	53.4	59.6	47.5
12:00-13:00	71.1	52.8	53.7	56.7	47.0	58.6
13:00-14:00	56.2	51.6	50.1	60.8	56.1	43.5
14:00-15:00	69.5	49.8	49.4	64.9	54.8	44.5
15:00-16:00	46.8	52.6	50.9	67.8	53.2	60.9
16:00-17:00	67.4	56.4	55.5	70.9	47.2	51.7
17:00-18:00	65.2	60.2	60.0	59.2	60.5	44.3
18:00-19:00	70.3	63.8	64.3	50.0	48.1	62.8
19:00-20:00	53.2	62.9	65.4	46.9	48.6	66.3
20:00-21:00	45.9	60.5	62.1	58.1	59.4	46.8
21:00-22:00	57.5	57.5	59.8	58.9	60.1	43.1

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	20/10/2021 & 21/10/2021	23/11/2021 & 24/11/2021	20/12/2021 & 21/12/2021	20/01/2022 & 21/01/2022	19/02/2022 & 20/02/2022	18/03/2022 & 19/03/2022
22:00-23:00	63.5	49.9	47.1	55.9	54.5	48.6
23:00-00:00	65.3	44.3	42.5	50.8	49.5	59.1
00:00-01:00	61.4	48.4	45.3	50.4	51.9	50.4
01:00-02:00	58.6	52.4	49.3	53.7	54.6	55.7
02:00-03:00	56.4	55.8	46.9	51.6	50.9	41.6
03:00-04:00	66.7	58.4	43.3	56.9	55.2	48.8
04:00-05:00	62.8	62.5	58.9	45.3	44.8	55.9
05:00-06:00	45.1	57.3	57.1	50.4	50.3	51.4

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

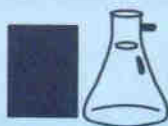
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am..

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

**Authorized Signatory**







**Tables -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 October-21 to March-22**

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	21/10/2021	24/11/2021	21/12/2021	21/01/2022	21/02/2022	19/03/2022
6:00-7:00	56.1	63.3	64.0	50.5	50.8	44.0
7:00-8:00	58.2	59.1	60.2	46.9	46.3	48.7
8:00-9:00	60.1	54.8	57.0	49.7	55.7	50.5
9:00-10:00	70.1	51.9	51.3	47.6	46.0	60.8
10:00-11:00	61.5	55.6	56.5	50.4	60.3	55.1
11:00-12:00	50.3	58.1	57.3	54.9	59.9	47.1
12:00-13:00	59.1	56.8	57.5	57.4	47.3	40.6
13:00-14:00	47.8	52.3	51.4	60.3	49.5	58.4
14:00-15:00	51.3	56.3	57.6	64.0	53.1	60.4
15:00-16:00	54.3	60.9	62.7	68.4	51.8	47.2
16:00-17:00	60.2	65.2	66.9	59.7	60.1	66.8
17:00-18:00	49.2	69.3	71.3	61.0	62.4	70.4
18:00-19:00	57.2	64.1	64.5	56.4	42.9	44.9
19:00-20:00	49.9	69.8	71.4	52.1	50.2	50.6
20:00-21:00	56.3	74.3	71.8	48.2	48.2	52.3
21:00-22:00	59.2	69.2	69.0	47.1	51.2	56.8

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	21/10/2021 & 22/10/2021	24/11/2021 & 25/11/2021	21/12/2021 & 22/12/2021	21/01/2022 & 22/01/2022	21/02/2022 & 22/02/2022	19/03/2022 & 20/03/2022
22:00-23:00	61.6	45.3	43.7	52.1	50.5	51.5
23:00-00:00	53.3	48.2	45.1	59.2	61.0	44.2
00:00-01:00	59.7	52.8	40.9	47.2	47.3	50.3
01:00-02:00	54.6	56.4	49.5	56.6	55.0	61.8
02:00-03:00	63.2	60.8	57.3	43.7	45.2	59.6
03:00-04:00	47.2	57.4	51.1	60.2	61.9	47.2
04:00-05:00	58.5	52.6	47.8	50.9	51.8	53.8
05:00-06:00	52.4	47.2	42.7	55.5	54.0	39.9

\*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 -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 October-21 to March-22**

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	22/10/2021	25/11/2021	22/12/2021	22/01/2022	22/02/2022	21/03/2022
6:00-7:00	58.5	65.8	66.6	56.3	59.9	60.8
7:00-8:00	49.3	63.5	61.0	53.3	55.1	65.2
8:00-9:00	66.5	62.1	61.3	50.8	58.6	48.2
9:00-10:00	57.4	66.3	66.7	46.1	47.7	46.3
10:00-11:00	67.9	63.5	61.3	44.9	45.1	58.2
11:00-12:00	55.7	58.6	60.3	49.9	48.0	60.3
12:00-13:00	51.7	54.2	54.4	53.5	54.2	52.2
13:00-14:00	51.2	50.8	48.9	58.6	56.7	48.4
14:00-15:00	68.8	55.3	53.6	64.7	53.5	47.6
15:00-16:00	64.5	60.5	60.1	68.9	60.5	60.2
16:00-17:00	61.2	65.0	66.8	73.1	50.4	51.5
17:00-18:00	67.5	69.6	71.6	69.4	57.1	58.8
18:00-19:00	62.9	67.3	69.1	65.7	56.8	46.2
19:00-20:00	56.4	65.3	63.2	61.8	55.0	47.1
20:00-21:00	57.3	60.8	59.0	57.6	51.0	45.2
21:00-22:00	62.5	57.1	54.7	52.8	44.6	48.5

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	22/10/2021 & 23/10/2021	25/11/2021 & 26/11/2021	22/12/2021 & 23/12/2021	22/01/2022 & 23/01/2022	22/02/2022 & 23/02/2022	21/03/2022 & 22/03/2022
22:00-23:00	62.7	43.6	43.6	46.9	47.7	50.8
23:00-00:00	52.6	46.2	53.5	51.3	51.5	52.4
00:00-01:00	62.5	48.1	47.3	48.9	48.3	58.9
01:00-02:00	45.6	52.8	56.7	52.2	53.0	64.2
02:00-03:00	51.1	55.4	47.1	46.4	48.1	47.7
03:00-04:00	57.8	50.2	45.7	44.3	42.5	42.7
04:00-05:00	51.6	54.3	54.5	54.6	55.0	56.1
05:00-06:00	49.2	59.4	52.4	49.8	48.5	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 - 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 October-21 to March-22**

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	23/10/2021	26/11/2021	23/12/2021	23/01/2022	23/02/2022	22/03/2022
6:00-7:00	51.6	67.1	67.7	50.6	42.5	50.3
7:00-8:00	55.8	71.2	72.4	54.9	48.5	55.4
8:00-9:00	62.2	69.3	69.2	52.3	53.8	60.6
9:00-10:00	60.3	67.6	68.4	54.3	56.8	48.5
10:00-11:00	66.8	66.6	67.3	59.2	59.6	54.1
11:00-12:00	55.6	65.2	62.9	55.4	41.3	46.7
12:00-13:00	64.4	60.9	61.6	58.1	54.8	51.9
13:00-14:00	50.6	58.6	57.2	62.9	48.9	60.8
14:00-15:00	58.7	54.6	53.5	67.8	50.5	56.7
15:00-16:00	58.1	57.2	56.5	69.7	49.7	47.3
16:00-17:00	59.7	61.1	60.5	71.8	54.2	45.3
17:00-18:00	65.1	63.8	64.4	68.2	54.6	58.6
18:00-19:00	56.8	66.1	67.8	66.1	50.1	65.4
19:00-20:00	53.3	60.7	62.8	63.9	54.1	70.9
20:00-21:00	56.5	55.3	54.5	60.0	47.7	46.6
21:00-22:00	54.2	53.8	51.4	56.9	50.7	53.3

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	23/10/2021 & 24/10/2021	26/11/2021 & 27/11/2021	23/12/2021 & 24/12/2021	23/01/2022 & 24/01/2022	23/02/2022 & 24/02/2022	22/03/2022 & 23/03/2022
22:00-23:00	49.1	62.4	55.5	52.6	53.6	51.2
23:00-00:00	60.6	58.6	49.4	56.6	57.6	55.3
00:00-01:00	58.7	54.2	46.3	51.5	53.0	60.1
01:00-02:00	54.3	52.6	53.4	55.1	56.6	67.2
02:00-03:00	58.8	48.6	59.6	43.5	43.6	44.3
03:00-04:00	53.9	44.2	56.8	52.0	50.9	45.8
04:00-05:00	52.3	47.2	42.5	55.8	57.7	58.2
05:00-06:00	50.2	50.6	43.7	58.2	57.2	51.3

<sup>#</sup>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: October-21 to March-22**

Sr. No.	Parameters	Unit	November-21				
			25/11/2021				
			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 <sup>3</sup>	28.34	25.33	23.45	32.42	24.65
2	Sulphur Dioxide	ppm	3.64	4.07	3.71	6.72	5.87
3	Oxide of Nitrogen	ppm	32.48	29.44	26.44	28.38	33.62
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m <sup>3</sup>	0.0287	0.0176	0.0236	0.0310	0.0267

**Table No.: 3H.2 – DG Sets Stack Emission Monitoring Results for the period: October-21 to March-22**

Sr. No.	Parameters	Unit	February-22				
			20/02/2022				
			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 <sup>3</sup>	24.22	21.37	18.62	26.87	28.65
2	Sulphur Dioxide	ppm	4.25	5.41	4.38	7.68	6.72
3	Oxide of Nitrogen	ppm	36.50	31.55	28.66	30.45	34.54
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m <sup>3</sup>	0.0259	0.0132	0.0293	0.0310	0.0314

  
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**Table No.: 3H.3 - DG Sets Noise Level Monitoring Results for the period: October-21 to March-22**

Sr. No.	Sampling Location	DG Set Average Noise Level In Leq. dB(A)	
		At 1 m from the enclose outside	
	Sampling Date	November-21 25/11/2021	February-22 20/02/2022
1.	DG Set # 1MRSS (SS5)	68.3	70.5
2.	DG Set # 2 SS7B	72.5	71.1
3.	DG Set # 3Marine (SS8)	71.8	69.7
4.	DG Set # 4Silo (SS11)	67.9	72.6
5	DG Set # 5 (SS7A)	73.6	68.4

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● ISO 14001

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**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
<b>A.</b>	<b>ENVIRONMENTAL MANAGEMENT PLAN (CONSTRUCTION PHASE)</b>	
<b>1.1</b>	<b>Air Quality Management Plan</b>	
	Dust suppression systems will be installed for fugitive dust emission control while undertaking civil works.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complied</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
<b>1.2</b>	<b>Noise Quality Management Plan</b>	
	DG set with acoustic enclosure will be installed for power supply to construction activities.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>All construction and operation activities are in compliance with the Noise level Norms.</li> <li>Monitoring of noise level is being done by M/s Pollucon Laboratories, NABL accredited, and MoEF&amp;CC recognized laboratory.</li> </ul>

S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none"> <li>Monitoring reports are presented in the <b>Annexure 3G</b>.</li> </ul>
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	<b>Complying with.</b> 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.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>There is no occasion till date for exceeding the noise level at the port boundary.</li> <li>Persons working in the fabrication yard are provided with PPEs.</li> </ul>
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	<b>Complying with.</b> All noise generating equipment's are provided with acoustic enclosures.
<b>1.3</b>	<b>Sewage Management Plan</b>	
	Sewage generated from the construction site will be treated in existing STP of 27 m <sup>3</sup> capacity.	<b>Complying with.</b> 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 October, 2021 to March, 2022 are enclosed as <b>Annexure -3F</b> .
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
<b>1.4</b>	<b>Solid and Hazardous Waste Management Plan</b>	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	<b>Complying with.</b> <ul style="list-style-type: none"> <li>All solid waste is being segregated for biodegradable and non-biodegradable.</li> <li>Biodegradable waste is being decomposed in vermicomposting yard and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.</li> </ul>
	All hazardous waste generated will be categorized as per Hazardous Waste Management Rules, 2008.	<b>Complying with.</b> Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	<b>Complying with.</b> Recyclable waste such as used oil, Discarded drum etc. is being sold to authorize recyclers only.
<b>1.5</b>	<b>Construction Phase Storm Water Runoff</b>	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	<b>Complying with.</b> Storm water drainage system has been provided and regular maintenance is being done.
<b>B.</b>	<b>ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)</b>	
<b>2.1</b>	<b>Air Quality Management Plan - Coal Handling and Stock Yard Area:</b>	
	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.	<b>Complying with.</b> 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,	<b>Complying with.</b>



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.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>• At coal stack yard, 130 sprinklers are maintained and operating well.</li> <li>• Pavement of the additional storage area is completed. Installation of water sprinklers and other DSS measures will be complete before storage of coal.</li> </ul>
	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.	<b>Shall be complied.</b> 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"> <li>➤ Reduction of coal losses in open yard</li> <li>➤ Saves water for dust suppression</li> <li>➤ Improves the living conditions of local residents</li> <li>➤ Improves the working conditions of the on-site staff</li> </ul> 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.	<b>Complying with.</b> 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"> <li>• <b>Road cleaning by sweeping machine:</b> 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.</li> </ul> <b>Manual Road Cleaning:</b> 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.	<b>Complying with.</b> Sprinkling of water is being done on the roads to control the dust.
<b>2.2</b>	<b>Noise Control Management Plan</b>	
	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	<b>Shall be complied.</b> Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	<b>Complying with.</b> 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	<b>Complying with.</b> 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	<b>Complying with.</b> <ul style="list-style-type: none"> <li>• Speed is limited within the port premises.</li> <li>• Proper signage also provided within the premises.</li> </ul>
	Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port	<b>Complying with.</b> 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	<b>Complying with.</b> Green belt is being developed in an area of 22.86 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	<b>Complying with.</b> 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	<b>Complying with.</b> 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.
<b>2.3</b>	<b>Storm Water Management Plan</b>	
	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"> <li>• Reclamation of 23 Ha back up area</li> <li>• Coal stockpile development of 7.7 Ha area</li> <li>• Railway siding area</li> </ul>	<b>Complying with.</b> 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.	<b>Complied with.</b> Runoff from the coal storage is being routed through dump pond where all the particles settled down.
<b>2.4</b>	<b>Solid &amp; Hazardous Waste Management Plan</b>	
	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.	<b>Complying with.</b> 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.	<b>Complying with.</b> 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.	
<b>2.5</b>	<b>Green Belt Development Plan:</b>	

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.	<b>Complying with.</b> Three tier Green belt is being developed in an area of 22.86 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.	
<b>2.6</b>	<b>Community Development Plan</b>	
	<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><b>Health Promotions Programs</b></p> <ul style="list-style-type: none"> <li>✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs</li> <li>✓ Mobile Clinic</li> </ul>	<b>Complied.</b> 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 <b>Annexure – 4.</b>
	<p><b>Education Promotion Programs</b></p> <ul style="list-style-type: none"> <li>✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc</li> <li>✓ Providing scholarship programs</li> <li>✓ Sport Coaching centre</li> </ul>	
	<p><b>Economic Development Programs</b></p> <ul style="list-style-type: none"> <li>✓ Knowledge centre regarding various government schemes and latest technology</li> <li>✓ Skill Development Training Programs</li> </ul>	
	<p><b>Women Empowerment</b></p> <ul style="list-style-type: none"> <li>✓ Sanitation Promotion Programs</li> <li>✓ Construction and Maintenance of Sanitation complex</li> <li>✓ Awareness Programs</li> </ul>	
	<p><b>Infrastructure development Programs</b></p> <ul style="list-style-type: none"> <li>✓ Developing internal roads of villages</li> <li>✓ Developing drainage systems</li> <li>✓ Solar Street Lights</li> <li>✓ Construction / Maintenance of Community Halls</li> <li>✓ Social Forestry</li> </ul>	
<b>2.7</b>	<b>Village Specific Infrastructure Development Programs:</b>	



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.
<b>2.8</b>	<b>Environmental Management Cell</b>		
	<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><b>Complied.</b> 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 <b>Annexure – 5.</b></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	<b>Cost Estimates for Environmental Management Plan:</b>	
	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.	<p><b>Complied.</b> Separate budget is allocated for Environmental Management activities.</p> <ul style="list-style-type: none"> <li>• <b>Separate budget is allocated for Environmental Management.</b> 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 2020-21 was approx. Rs. 374.6 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –6.</b></li> </ul>





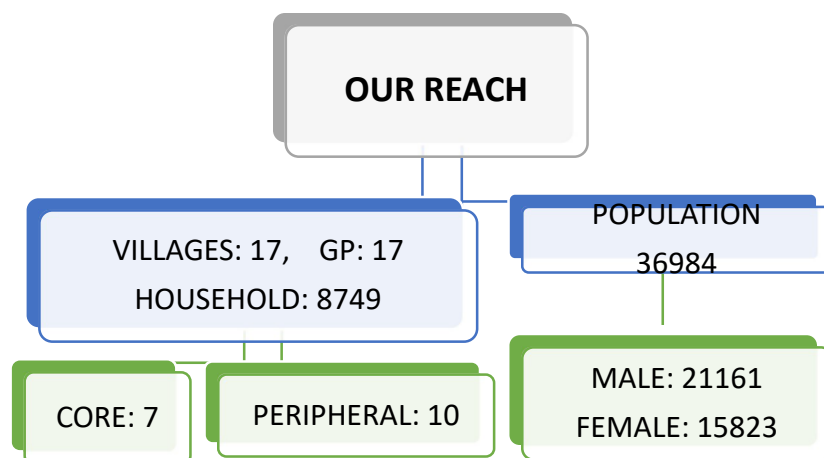
## CSR REPORT October 2021 – March 2022

### ADANI FOUNDATION, DAHEJ

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CORE VILLAGES					
S. N	Village	Household	Population	Male	Female
1	Lakhigam	1217	4938	3144	1794
2	Luvara	385	1663	873	790
3	Suva	413	1920	973	947
4	Jageshwar	383	1571	818	753
5	Dahej	3426	13495	8345	5150
6	Jolwa	338	1442	807	635
7	Ambheta	347	1552	807	745
	<b>Total</b>	<b>6509</b>	<b>26581</b>	<b>15767</b>	<b>10814</b>

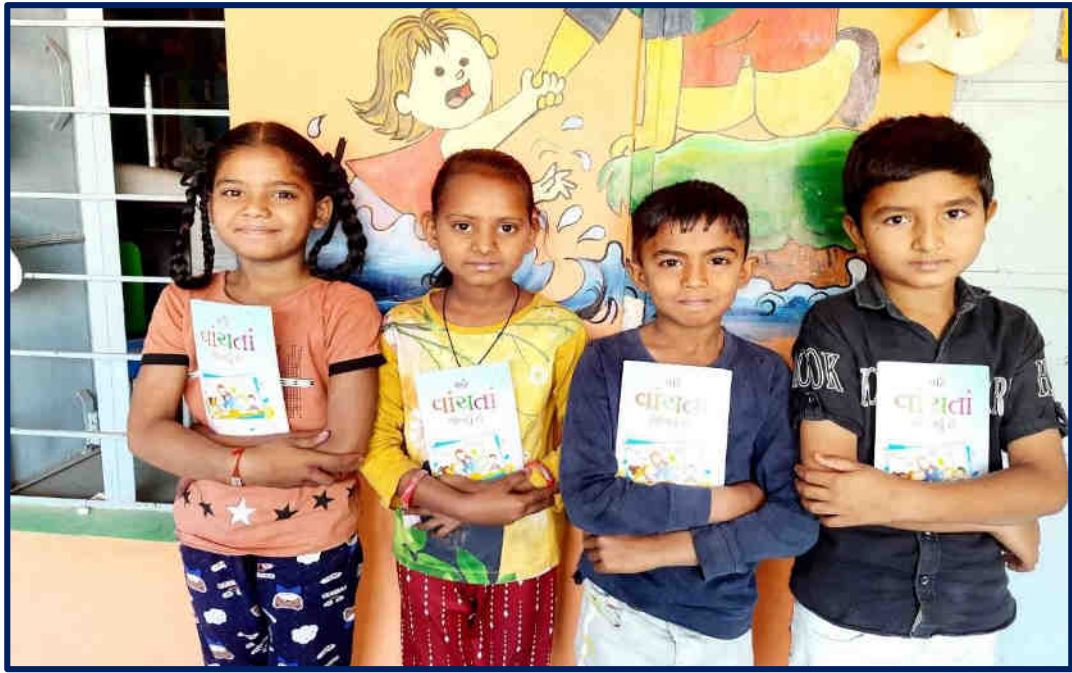
PERIPHERAL VILLAGES					
S.N	Village	Household	Population	Male	Female
1	Rahiad	355	1694	862	832
2	Kaladara	393	1663	934	729
3	Vengani	202	908	462	446
4	Koliad	152	676	321	355
5	Atali	239	1150	612	538
	<b>Total</b>	<b>1341</b>	<b>6091</b>	<b>3191</b>	<b>2900</b>

New Villages added in Pashudhan Program					
S. N	Village	Household	Male	Female	Total
1	Vav	155	378	347	725
2	Janiadara	150	361	368	729
3	Kododara	420	1018	977	1995
4	Sambheti	82	226	190	416
5	Nadarakh	92	220	227	447
	<b>Total</b>	<b>899</b>	<b>2203</b>	<b>2109</b>	<b>4312</b>

## Thematic Areas

1. Education
2. Community Health
3. Sustainable Livelihood Development
4. Community Infrastructure Development

## EDUCATION







## 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**

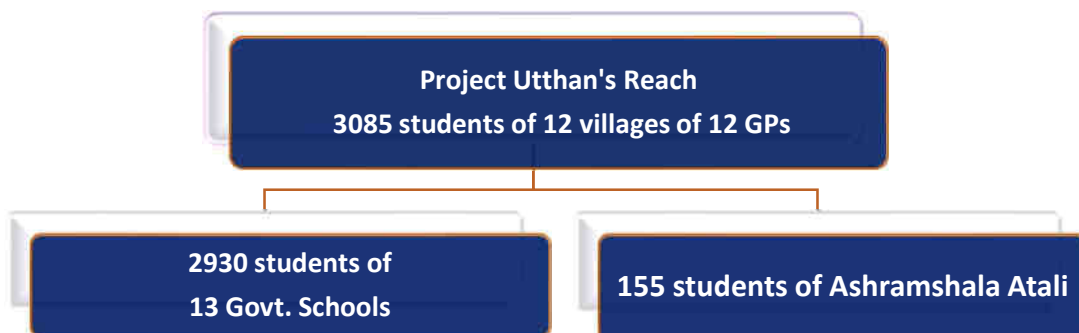
**4.1.1 Proportion of children and young people (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex**

**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 Uttan 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 13 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

### PROJECT UTTAN

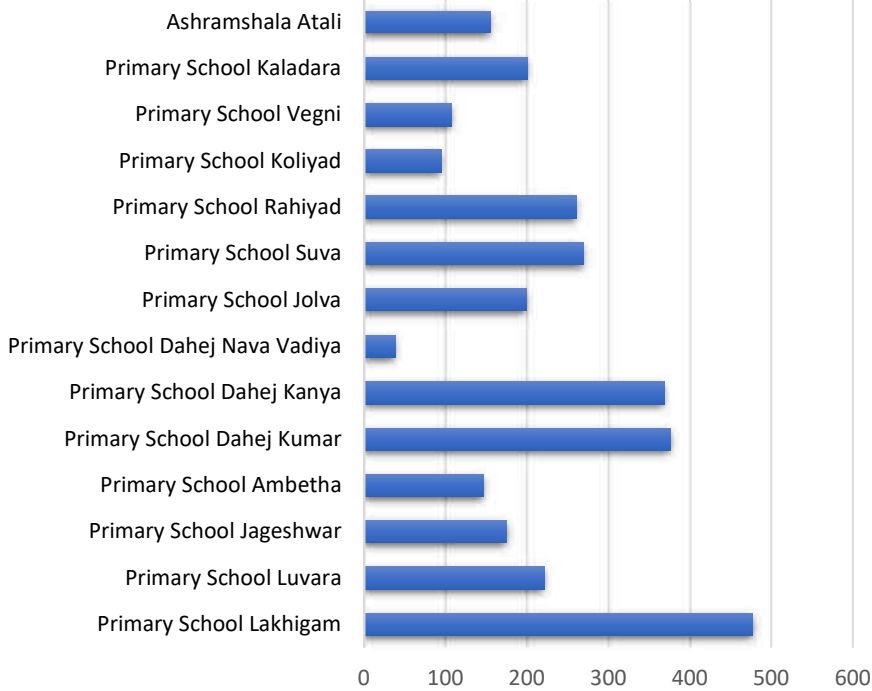


## SCHOOL DETAILS

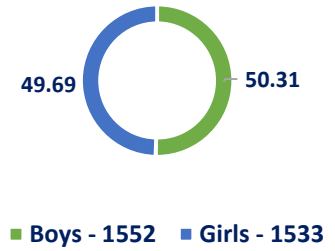
SI	School name	Village	School Strength	Classes	Name of Principal	No. of Teachers
1	Primary School Lakhigam	Lakhigam	477	1 to 8	Chetanaben R. Patel	12
2	Primary School Luvara	Luvara	221	1 to 8	Ushaben H. Patel	4
3	Primary School Jageshwar	Jageshwar	175	1 to 8	Sureshchandra G. Baria	6
4	Primary School Ambetha	Ambetha	146	1 to 8	Budhabhai L. Gohil	5
5	Primary School Dahej Kumar	Dahej	376	1 to 8	Devendrabhai R. Pandya	11
6	Primary School Dahej Kanya	Dahej	368	1 to 8	Monikaben V. Patel	12
7	Primary School Dahej Nava Vadiya	Dahej	38	1 to 5	Purnimaben H. Mistry	2
8	Primary School Jolva	Jolva	199	1 to 8	Shilpaben M. Mecwan	6
9	Primary School Suva	Suva	269	1 to 8	Anthony Mecwan	7
10	Primary School Rahiyad	Rahiyad	260	1 to 8	Kapilbhai N. Vasava	8
11	Primary School Koliyad	Koliyad	94	1 to 8	Rajeshbhai Patel	4
12	Primary School Vegni	Vegni	107	1 to 8	Chhatrasinh S. Solanki	5
13	Primary School Kaladara	Kaladara	200	1 to 8	Iliyashbhai Y. Kadva	7
14	Ashramshala Atali	Atali	155	1 to 8	Jaswant M. Prajapati	5
	<b>Total</b>		<b>3085</b>			



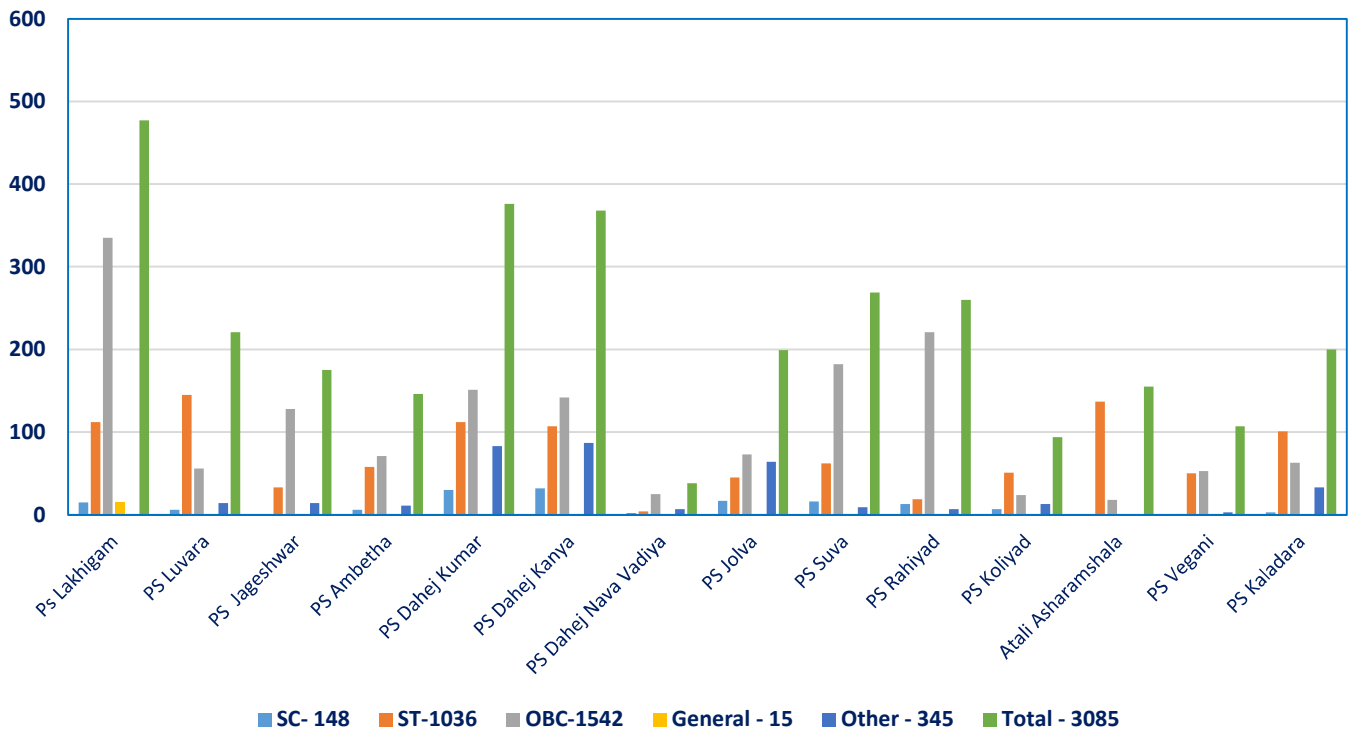
## School Strength



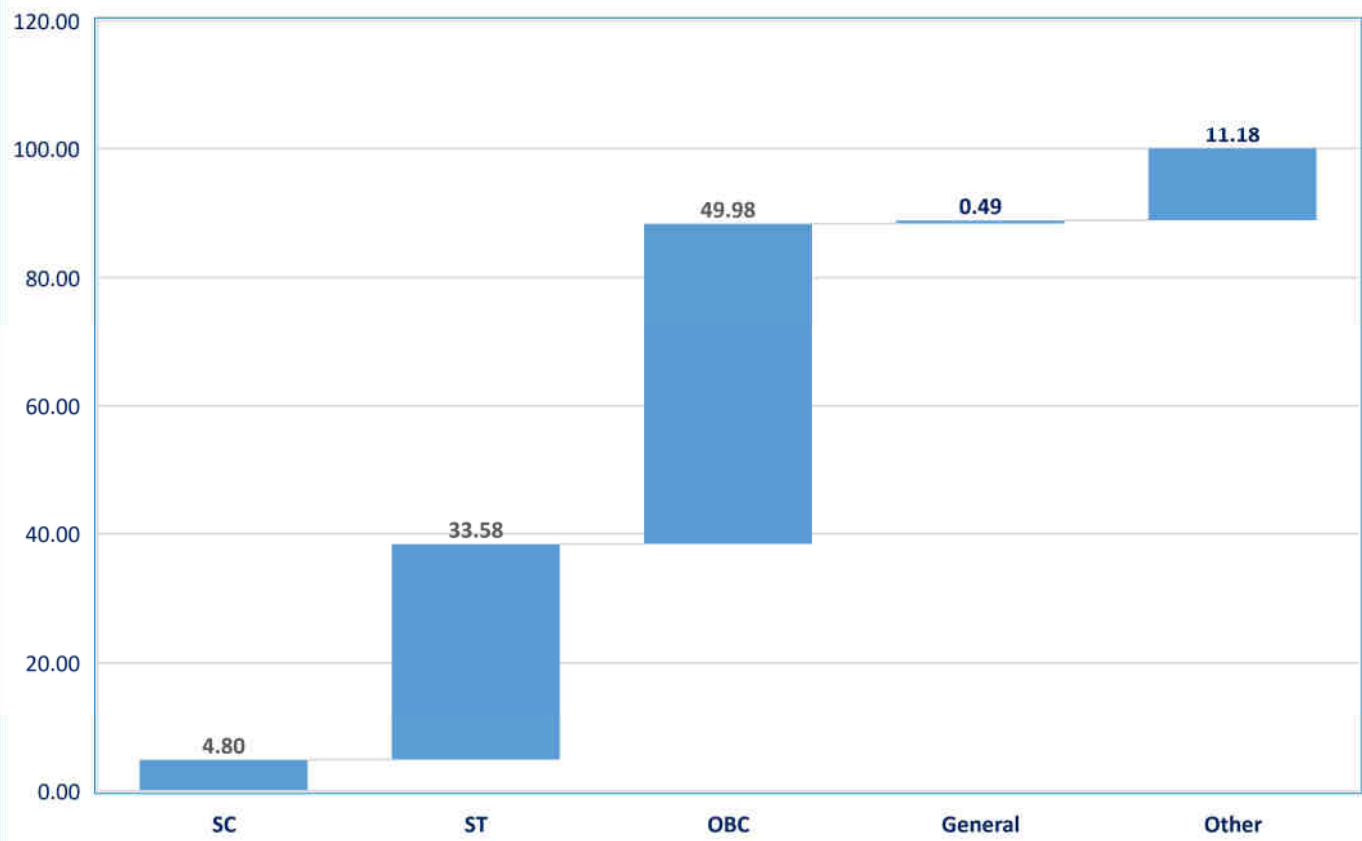
## Boys vs Girls Enrollment in Class 1 to 7



## School wise Community Details



**Details of Derpived Commuity**





## Project Launch Event

On 29th September 2021, Project Utthan formally launched at Dahej site, with objective of Enhancing the teaching learning outcomes by empowering Priya Vidyarthi (Progressive Learners) at Govt. Primary School, Lakhigam.

Project Utthan's objectives, Achievements and Way forward project ideas were shared. The project reaches 14 schools of 12 villages and coverage of 3085 students.

All School Principals, teachers and CRC welcomed Project Utthan and they conveyed they're thanks to Adani Foundation for innovative education project.



## Snehmihan program

The program objective is to build a professional relationship and create visibility of "Utthan project" in Govt. Schools.

14 School Head Teachers and Utthan teachers have participated in Snhehamilan program schools 14 from 12 Villages.

Positive achievements of projects shared with Head teachers and Utthan teachers' efforts during the Diwali vacation as Faliya learning activity, all teachers' efforts and support are appreciated, and gift of token given to them as Diwali gift.

Head teacher Virendrasinh Said "Project Utthan really an innovative approach of Adani Foundation in Govt. Schools.

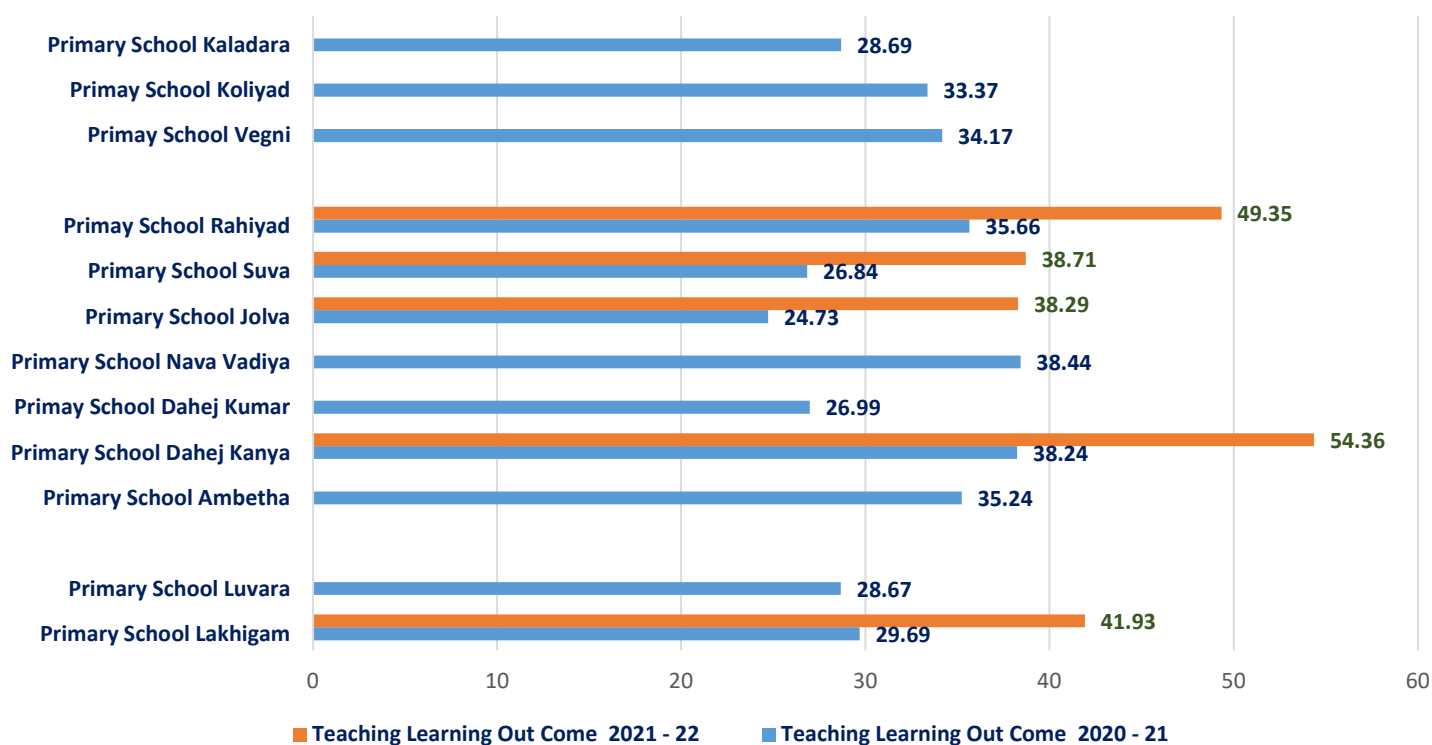


## Learning outcomes of Utthan Schools

Academic year	Numbers of school in grade				
	A+	A	B	C	D
Gunotsav 2020-21	0	0	11	2	0
Gunotsav 2021-22	1	0	4	0	0

\*Gunotsav report 2021-22 of 10 schools yet to be received

### Gunostav Data Analysis



## Achievement in introducing English as a third language in Class 1- 4 – Assisted 911 students



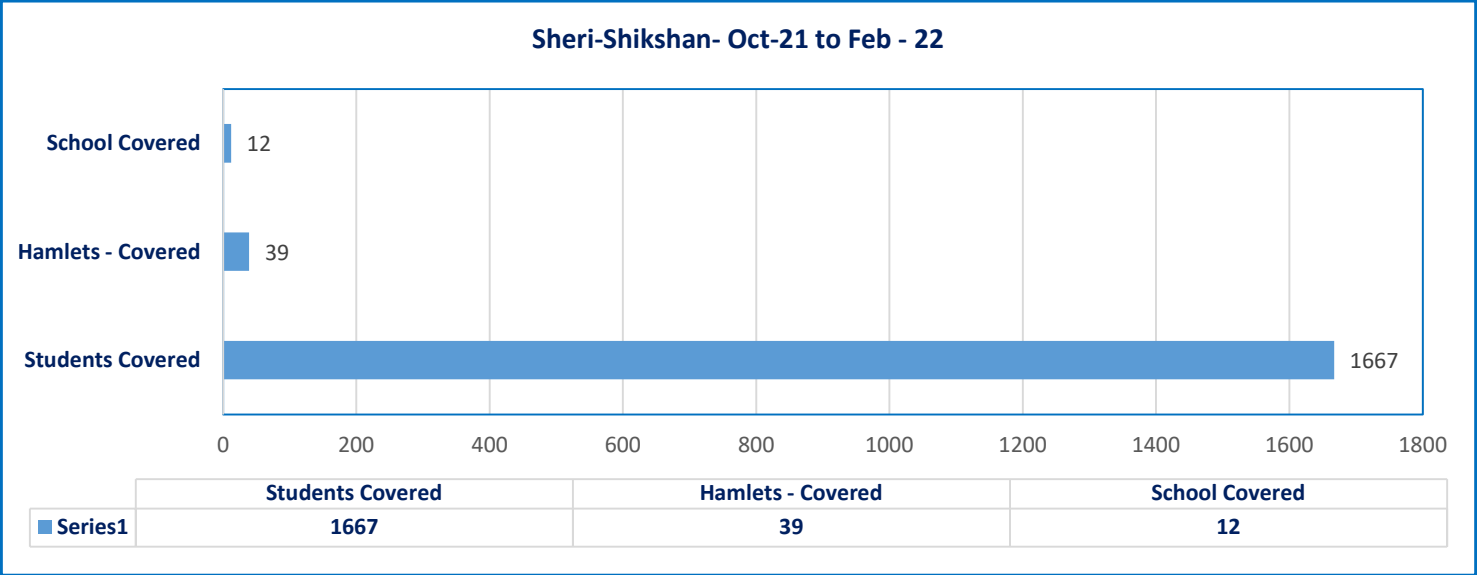
The English language plays a vital role in our lives as it helps in communication. It is the main language for studying any subject all over the world. English is important for students as it broadens their minds, develops emotional skills, and improves the quality of life by providing job opportunities. In Gujarat, the Government introduced English in class 4. Project Utthan initiated to provide basics of English from class 1 with a structured syllabus. 911 students are covered so far.

Class	Students are being taught
I	<ul style="list-style-type: none"> <li>✓ Standing line, sleeping line, Left Slanting line, Right Slanting line, Left Curve, Right Curve, Up Curve, Down Curve</li> <li>✓ Writing capital letter of A to Z, Identification of alphabet, Match alphabet with object</li> </ul>
II	<ul style="list-style-type: none"> <li>✓ Writing capital and small letters</li> <li>✓ Week, month, and numbers up to 30</li> </ul>
III	<ul style="list-style-type: none"> <li>✓ Differentiate between capital and small letters</li> <li>✓ Recite rhymes</li> <li>✓ Numbers 1-50, English name of shapes, fruit, vegetable, and stationary items</li> </ul>
IV	<ul style="list-style-type: none"> <li>✓ Capital and small letters</li> <li>✓ Body parts, Golden words</li> <li>✓ Action words: Sit down, stand up, Run, Walk, Jump</li> </ul>



Utthan’s outreach strategies to support children’s learning

Sheri-Shikhsan class is initiated with objective of increase children’s regularity, filling gap of learning process, and child can feel positive energy after long vacation when he/she goes to school at very first day. Other hand such activity builds a strong rapport with students and teachers. By Faliya learning activity we have reached to 1667 students. Among these 584 students were progressive learners whereas 1083 were regular one.



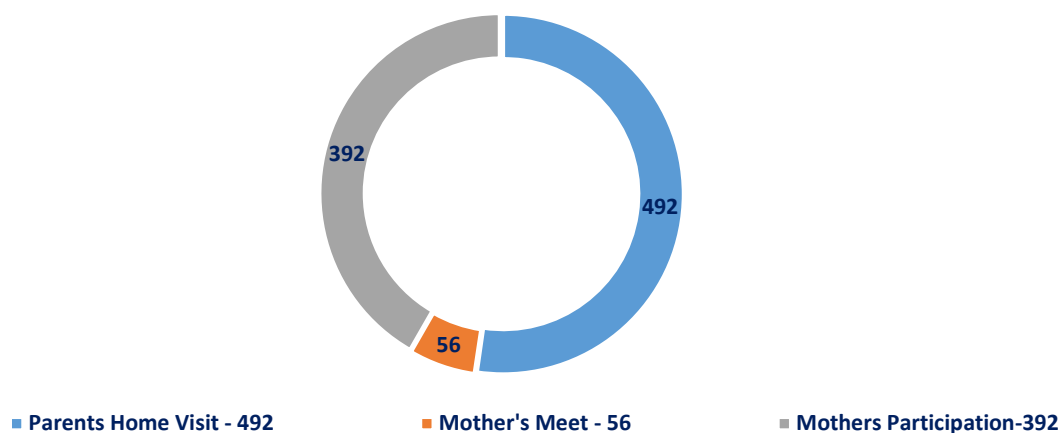
## Parental Engagement: Mothers' Meet

As a part of rural area getting support from both the parents in students' academic growth is a big challenge. It is believed that upbringing of children is solely Mother's responsibility. Parents encouragement in child's education can have a positive impact towards in child learning. With this observation Project Utthan started conducting home visits and Mothers' meet to discuss an academic and non- academic performance of the student. It helps to know and work for the child's performance.

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

Mothers Engagement 2021-22



## Capacity Building

Teachers are being given continuous opportunities for self-improvement and to learn the latest innovations and advances in their professions. These are offered in multiple modes, including in the form of local, regional, state, workshops as well as online teacher development modules. Platforms (especially online platforms) are developed so that teachers may share ideas and best practices. Each teacher is expected to participate in at least 50 hours of CPD opportunities every year for their own professional development, driven by their own interests. CPD opportunities, systematically cover the latest pedagogies regarding

- ✓ Foundational literacy and numeracy
- ✓ Formative and adaptive assessment of learning outcomes
- ✓ Competency-based learning and related pedagogies. such as experiential learning, arts-integrated, sports-integrated, and storytelling-based approaches

To make the project sustainable Utthan closely works with Block Resource Coordinators to organize monthly training sessions for Utthan sahayaks. Training sessions are aligned with National Education Policy 2020.

Capacity Building of Utthan Team				
S. N	Session	Duration	Participants	Resource Person
1	Overview of Project Utthan	1 day- August 2021	8	Mr. Jatin Upadhyay
2	Adult Learning Principles & Child Psychology	3 days - December 2021	12	Mr. Vaibhav Parikh
	Self-Analysis & Situation Analysis			
	How to listen and talk to child			
	Art of storytelling			
	How to be creative in teaching			
	NEP 2020: Basic Literacy and Numeracy			
	Bringing the World to The Classroom & Classroom to Life			





## Competitions and Celebrations – Participated 1255 students

Healthy competition inspires kids to exhibit their maximum potential. When students compete, they will become more inquisitive, research independently and learn to work with others. They will strive to do more than is required. These abilities prepare children for future situations of all kinds. Due to pandemic students were away from multiple competitions. These celebrations help in

- ✓ Improving teamwork and collaboration
- ✓ Enhancing social and emotional learning
- ✓ Increasing intrinsic motivation
- ✓ Facilitating growth mind-set
- ✓ Building mental toughness

In this academic year as per the situation virtually or physically monthly competitions and celebrations were organized under the project.



Title of Celebration/competition	Activities performed
Children's Day	✓ Paint party
National Maths Day	✓ Sudoku Competition ✓ Shape Painting ✓ Documentary movie on Shri Ramanujan.
National Youth Day	✓ Character sketch of Swami Vivekananda ✓ Timeline of Swamiji ✓ Speech on Swamiji ✓ Quote Competition ✓ Short documentary on Swamiji
National Girl Child Day	✓ Contribution of Savitribai Phule in girl child education
National Science Day	✓ Ramp walk: Girl/Women noble laurels in science ✓ Model making ✓ Documentary on Raman effect ✓ Guest lecture
International Women's Day	✓ Women's Day with Mothers

## Sports Activity in Schools

As per Company Act 2013's that includes training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic sports. Adani Foundation organized Inter School Volleyball Tournament for boys & girls of 14 Primary schools and 3 Govt. Higher Secondary Schools of Dahej area. Sports play a significant role in improving learning and development of the children. It is also increasing the confidence, mental alertness, and self-esteem of the children. For this tournament total 210+ students participated as 168 girls and 168 boys from Govt. Primary Schools and 42 boys & girls from Higher Secondary Schools: Dahej P.J.Cheda High School, Government High School Lakhigam and Shri OM Hari Vidhyamandir Jageshwar.

Such activity encouraged and motivated girls & boys to take part in such games. Such activity developed good relationship in all project schools.



## Creating joyful learning spaces

**100%**

**Utthan  
Schools are  
well versed  
with**

- ✓ Smart classrooms
- ✓ LED TV
- ✓ Sports materials
- ✓ BALA Painting
- ✓ TLMs focusing language and numeracy

## BaLA Painting in -14 Govt. Schools

The project is mainly focused on progressive learners and take them to the mainstream through different teaching methods (TLM) using by Utthan Sahayaks. To make safe environment in teaching space for the children through developing child-friendly, learning and fun based physical environment building in school infrastructure. BaLA is one of the best learning concepts supporting in qualitative improvement in education through intervention on school building infrastructures.



## Digital equipment supports in 10 Govt. schools

Through smart classes it has made learning fun and interesting for the students and enables teachers to teach effectively. It provided opportunities for the students to help in understanding the concept better and achieving academic excellence. Schools has become friendly and inclusive education for progressive learners. 2406 students have benefited so far in 10 Govt. Schools.

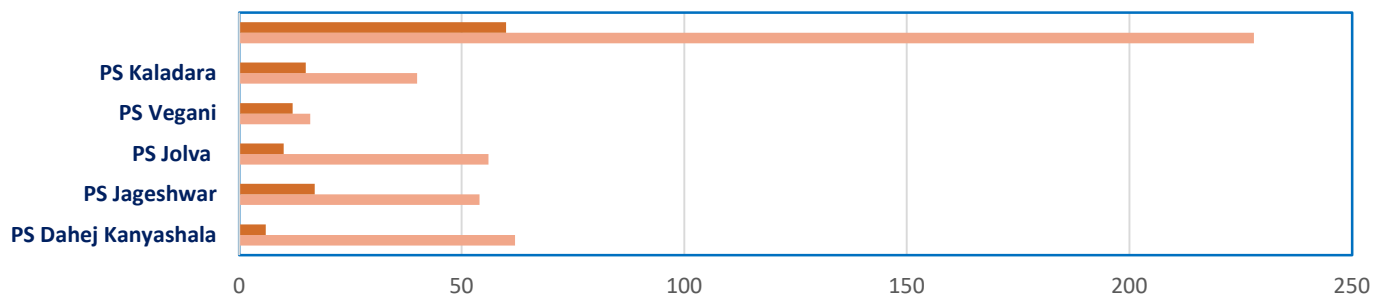
## Project connected with the roadmap given by GoG /Central Government

- Capacity building programs for Utthan sahayaks and school Teachers
- 90% students were involved in various activities under Aazadi ka Amrit Mahotsav
- 100 hours were given in 'SAMAYDAAN'
- 100 % participation in 100 days reading campaign
- Project is in alignment with NIPUN Bharat: FLN



## Progressive Learners - Mainstreaming - 60 students

**Progressive Learners Mainstreaming Details**



	PS Dahej Kanyashala	PS Jageshwar	PS Jolva	PS Vegani	PS Kaladara	
■ Mainstreaming	6	17	10	12	15	60
■ Total Progressive Learners	62	54	56	16	40	228

■ Mainstreaming ■ Total Progressive Learners



My name is Kavita Ganpatbhai Rathod, studying in class 6th at Dahej Kanya School. My parents are daily wages workers and having small house. Parents are not taking interest in my study and always busy of doing their work. Due to such reasons parents are not able to give time to me. I was not able to identify the numbers, not able to read and write even am in class 6th. I score level – 1 during the Baseline assessment. I found difficulty in identify the numbers, not able to utter Gujarati alphabets. Utthan Sahyak Renukaben Gohil came to know about me when baseline assessment test was done in Oct-21. After knowing the difficulty of mine, she started taking special classes. School called them as Priya Vidhyarthi. Renukaben used various methods of teaching and use of Teaching Learning Materials – that motivated me to take interest in study. I became regular in the class and doing homework at home. Falia learning – I enjoyed very much.

Now I am able to write words, paragraphs, identify the numbers and confidently speaking in the class.



My name is Riya Ashokbhai Solanki, studying in class 6th at Primary School Lakhigam. My father is a Welding technician at G.F.L and mother Urmilaben Gohil is a housewife. My mother did not get education due to family condition therefor they do not support in learning at home. Project Utthan an innovative new program designed to build foundational skills like reading and arithmetic. Ankitaben, the instructor who is assigned to begin the learning improvement intervention in Lakhigam school, began with a quick assessment. She discovered that Priya could not even read, write and simple arithmetic. I was not able to identify the simple numbers, gujarati alphabets, not able to read and write even am in class 6th. I found difficulty in identify the numbers, not able to utter Gujarati alphabets. Utthan Sahyaks Ankitaben has come to know about my difficulty in Oct-21. After knowing the difficulty of mine, she started taking special classes. School called them as Priya Vidhyarthi. Regular home visit and counseling of parents on learning of her child development. Used of various methods teaching and learning, Use of TLM materials. I regularly attend the class and doing home at home. As my parents used to check my daily notebooks and asked for study at home. Now I am taking interest in the class and regular in.

Now I can write words, paragraphs, identify the numbers and confidently speaking in the class.



## Voice from the field



My name is Pravinaben from Lakhigam I am very happy that my son "Veer" who is studying in class 5<sup>th</sup> now able to read, write, and speak and We, as a parent always aske to sit for home when he come to home. I thank "Adani Foundation for such a wonderful Project Utthan.

I am Premilaben from Dahej "first of all I thank Utthan Sahayak that my child Riya, studying in class-6<sup>th</sup>. She was not regular in the class and not able to read gujarati alphabets, writing paragraphs. But today, she is able to read, write and speak without fear. It is only possible through Utthan project. I thank you very much to Adani foundation.



Primay School Rahiyad principal "Kapilbhai Vasava said 'I appreciate the work of Adani foundation for innovative project Utthan and providing library books and sports items to school children.

CRC Ramsingbhai "Said" that Utthan is an innovative project that focused on progressive learners' children and enhanced education quality due to conducive and activity-based teaching. I thank Adani foundation for adopting Govt. Schools under Project Utthan.



## Recognition by Port Business



Sh. Jagdish Patel Sir, COO, Adani Dahej Port has appreciated the work of Project Utthan for achievements of reaching 992 progressive students during Diwali vacation. They were covered under Faliya learning by Utthan Sahayak. Utthan Sahayak also visited 82 mothers. **Mr. Sunil Gamit, Project Officer** got **SPOT RECOGNITION** by port business for credible achievements of Project Utthan.

## Project Utthan Visibility at District Level Meeting



AF participated in District Level Coordination Committee meetings of Primary Education. In the meeting DDO, DPEO, Dy. DPEO, BRCs and organizations Adani Foundation, Nandi Foundation & Pratham were participated.

Adani foundation shared the baseline experiences of 8 schools and way forward for remaining baseline assessment. The meeting provides a stage to share success inputs in "Nipun Bharat Program".

Objectives and outcomes: -

- Improved foundational skills of children to reduce dropouts.
- Enhanced education quality by conducive and activity-based teaching.
- Create creative curriculum activities

## Community Health



## Project Swasthya Apne Hatho Me

### SDG Alignment

#### Goal 3. Ensure healthy lives and promote well-being for all at all ages

**Objective:** To develop and implement community-based, non-pharmacological lifestyle interventions for diabetes and hypertension and women's health concerns and reduce the risk of complications due to said disorders in villages

##### 1. Rbs test data:

Adani Foundation Dahej has supported Primary Health Centre, Dahej with HbA1C Analyzer, Biochemistry Analyzer and multi diagnostic kits. In October - March, 433 patients underwent blood sugar level test.

Adani Foundation Dahej								
Primary Health Centre, Dahej Blood Sugar Test Data								
	Village	Month wise data						
S. N		Oct	Nov	Dec	Jan	Feb	March	Total
1	Dahej	35	28	26	29	43	40	201
2	Jolva		4		5	4	16	29
3	Atali	2	1	2	4	1	6	16
4	Ambheta	2	5	1	4		7	19
5	Lakhigam	5	3	6	7	2	14	37
6	Rahiyad	1	1		1	2	3	8
7	Luvava			4	2		4	10
8	Kadodara		3	2	2		3	10
9	kaladara		2	4	4	1	5	16
10	Suva	1	4	5	1	3	1	15
11	Paniyadra			8	5		4	17
12	Vadadla	1		2	8	1	6	18
13	Vhiyal							
14	Koliyad		2		2			4
15	Narnavi		1					1
16	Jageshwar			1	6	1	4	12
17	Jambusar							
18	Galenda		1					1
19	Vav			2	1			3
20	Bhensali					1	5	6
21	Akhod				1		7	8
22	Vengani					2		2
	Total	47	55	63	82	61	125	433

2. **Capacity building of Aarogya Sakhi** (Village Health Volunteers): Volunteers underwent 6 days training on lifestyle diseases. Ms. Seema Deodhar, Public Health expert imparted the training.

**Community Health Volunteers (CHW) of Lakhigam, Luvara, Jageshwar, Dahej and Jolva underwent 6 days training on lifestyle diseases – causes, prevention & treatment**

Date	Topics Covered
25.10.21	Objective of the project, digestive system described through video, discussion on baseline survey form about family information and gynecological problems
26.10.21	Training on BMI calculation, waist circumference & waist- hip ratio and interpretation of such values for screening of pre diabetic cases. Field testing of baseline survey form in Lakhigam village
27.10.21	Nutritional content with focus on carbohydrate & protein Field visit to Lakhigam for practicing Anthropometric measurements Technique of FGD was taught. 2 FGDs were conducted on women's reproductive health Introduction to intermittent fasting Diet plan for prediabetes & hypertension cases
28.10.21	Introduction to reproductive system & menstrual cycle - misconception, Menstrual hygiene
29.10.21	Stress scale survey, arthritis survey form, nutrition knowledge survey form explained Field testing of stress form and arthritis form at Lakhigam
30.10.21	Revision of intermittent fasting Vitamins and their functions Trainees had prepared high protein and low carb recipes which was put together for lunch



### 3. Specialized Health Camps

Adani Foundation, in collaboration with Luwara, Jageshwar and Lakhigam Gram Panchayats organized multi-specialty health camps in these 3 villages under "Project Swasthya Apne Haath Mein". 168 patients were treated at the camp. Out of these 168 patients, 40 women had gynecological problems, 14 patients underwent ECG and 19 for sugar test.

Services were provided by a team of physicians, gynecologists, dieticians, counselors and nurses of SR Health Service, Bharuch.

Prior to the medical camp, the BMI, waist – thigh ratio, hip – thigh ratio of all men and women aged 35 and above were measured by village health volunteers to find out probable cases of diabetes.

#### Organized Medical Camp

S. N	Village Name	Patients treated	Gynecological Patients	ECG	Sugar test
1	Luvra	63	17	6	0
2	Lakhigam	65	12	5	5
3	Jageshwar	40	11	3	14
	<b>Total</b>	<b>168</b>	<b>40</b>	<b>14</b>	<b>19</b>

#### Patients BMI Measurement:

S. N	Village Name	BMI	Baseline Survey	FGD
1	Lakhigam	121	0	0
2	Luvra	341	0	2
3	Jageshwar	283	37	5
4	Dahej	730	30	11
5	Jolva	220	0	1
	<b>Total</b>	<b>1695</b>	<b>67</b>	<b>19</b>





#### 4. AWARENESS PROGRAMS

##### Global Handwashing Day

Global hand washing day observed with school children of Lakhigam. 15 children of Govt. Primary School participated in this event. They were enjoyed hand washing exercises and learnt Steps of hand washing with soap - Importance of hand washing, Hand washing for 20 seconds.

Teachers and students were advised to carry a soap with themselves to protect from germs. In corona period it becomes essential for everyone to maintain the hygiene



##### World Disability Day

District Social Defence Department, Bharuch, Adani Foundation & Asmita Vikas Kendra, Trasla celebrated world Disability Day at Civil Hospital Bharuch, A Special Camp was organized for Divyang for their certification by civil surgeon & registration as per criteria under Govt schemes. AF Mobilized more than 50 Divyang of different villages of Vagra taluka to avail the benefits of govt. schemes. Civil surgeon Dr. S R Patel and his team explained about medical services whereas District social Defence officer Mr. A. Y. Mandori elaborated schemes for divyang. Education Department also shared scholarship schemes & facilities for Divyang in Schools.

Output: 2 beneficiaries Priya Nagin Machhi (Lakhigam village) and Mr. Natwar Rathod of Ambheta village got tricycles whereas 2 others named Mayank Balwantsinh Parmer (Luvara village) and Krushndeeep Pradyumansinh Rana (Dahej village) got disability certificate and UDI card. AF also celebrated the day with Kalrav –a school for differently abled children.



# Sustainable Livelihood Development

- + Pashudhan Program
- + Project Annapurna
- + Women Entrepreneurship
- + Integrated Model Suva

## 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

- During October to March 2021-22, **363** Artificial inseminations were performed through Dahej centre, **134** dairy animals were conceived, and **139** calves were born in cows and buffaloes out of which **72** are female calves.
- During October 2021 - March 2022 total **52** inseminations with SSS were done out of which **24** inseminations were done in cows i.e., **32%** against total inseminations and remaining **28** are in buffaloes i.e., **15.30%** against total inseminations.
- 100% follow up of **252**(cow & Buffalo) inseminations was completed which were done w.e.f. October to March out of those 121 animals found pregnant after pre rectal examination.
- During the period total **148** inseminations were done in cows out of which **103** Per Rectal Examination were done w.e.f. October to March for which follow up was done for confirm pregnancy and **53** cows are found confirm pregnant. Conception rate in cows is **35.81%**.
- During the year total **182** inseminations were done in buffaloes out of which **125** animals Examination were done w.e.f. October to March for which follow up was done for confirm pregnancy and **68** buffaloes are found confirm pregnant. Conception rate in Buffaloes is **37.36%**.
- Highest number of inseminations were done in village Vengani where **26.96%** against total number of inseminations during the year followed by Dahej and Kaladara where **20%** and **7.57%** inseminations were done.



AI, PD, CALVING DATA OCTOBER 2021 - MARCH 2022														
Month	AI			Examination			Pregnant			Cow Calving		Buff Calving		
	Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total	Male	Female	Male	Female	Total
October	26	48	74	24	17	41	13	16	29	7	6	13	15	41
November	23	38	61	23	13	36	12	9	21	10	8	10	14	42
December	22	18	40	17	20	37	7	10	17	3	5	8	8	24
January	26	27	53	14	25	39	9	11	20	4	5	4	6	19
February	23	50	73	16	32	48	10	20	30	2	1	3	1	7
March	38	24	62	20	25	45	8	9	17	2	1	1	2	6
Total	158	205	363	114	132	246	59	75	134	28	26	39	46	139

**Capacity Building:** total **5 trainings** on scientific animal husbandry practices were organized in project villages namely Kaladara, Koliyad, Ambheta, Luvara and Atali. **216 farmers** were trained out of which 129 were female participants and remaining 89 were males. These participants hold total 371 animals out of which 94 are cows, 164 buffaloes, 48 cow heifers and 65 buffalo heifers.

CAPACITY BUILDING			
S. N	MONTH	VILLAGE	PARTICIPANTS
	OCTOBER		
1		Koliyad	56
2		Kaladara	51
3		Vav	54
4		Ambheta	25
5		Atali	30
			216

#### Topics Covered in Trainings

1. Animal Rearing and it's Management
2. Heat Detection and it's symptoms
3. Animal Insurance
4. Balanced Ration
5. Importance of Mineral Mixture
6. Importance of Deworming and Vaccination
7. New Technology in Animal Husbandry
8. Importance of Sex sorted Semen

**Vaccination:** total **1745** vaccinations for three diseases (FMD, BQ & HS) were done in Vengani, Kaladara Koliyad Luvara, Jageshwar, Lakhigam, Atali, Rahiyad & Dahej villages namely where **539** vaccinations in cows, and remaining **1206** vaccinations in buffaloes of total **1745**.

S. N	Village	Animals
1	Koliyad	251
2	Kaladara	293
3	Vengnni-	252
4	Dahej	270
5	Luvara	256
6	Lakhigam	200
7	Atali-	169
8	Ambheta	54
	Total	1745

**Deworming:** Total **1516** animals covered under deworming and **300** calves covered under this activity with total beneficiaries covered **155** of villages Luvara, Vengni, Koliyad, Kaladara, Jageshwar, Dahej & Atali.

- Before Deworming team examined the **fecal sample of 130 animal at MDTTC lab chikhli** in these 68 animals **had fasciol infection** After deworming it was followed and re-examination done all animals free from infection
- Due to broad spectrum anthelmintic within 7 days there was complete removal of parasite from external as well as internal body.
- In **38 heifers** from Luvara, vengnni & Rahiyad showed sign of Heat after administration

**Promotion of Mineral Mixture:** total **535 kg** mineral mixture were given. **128** dairy farmers of 9 project villages Viz. Dahej, Lakigam, Luvara, Jageshwar, Rahiyad, Koliyad, Vengani, Kaladra and Suva get benefitted. These farmers used mineral mixture for **455** no of milking cows and buffaloes, 207 pregnant animals and 38 heifers.

#### Output

- Inter calving period has reduced
- Milk production of animals is increase by 11%.
- Reduced age at first calving (AFC) by 28 months in buffalo heifers previously it was reported as 36 years
- Helps to reduce economic burden for rearing of unproductive animals for longer period

**Infertility and General Health Camps:** Total 205 animals treated in camps organized in 5 villages namely Luvara, Koliyad, Kaladara Atali & Vengani. The Total 118 family get covered. Total 66 animals were treated for various clinical disorders viz. Rumen dysfunction, mastitis, lameness and heavy ectoparasitic

Sr.	Village	No of animals	No of beneficiaries
1	Koliyad	58	28
2	Kaladara	41	24
3	Luvara	41	27
4	Atali	29	17
5	Vengnni	36	22
	<b>Total</b>	<b>205</b>	<b>118</b>

#### Output

- Total 95 animals were treated for various gynecological disorders out of 41 animals get inseminated after treatment and 13 animals are found confirm pregnant.
- Total 40 animals were treated for Parasitic infestation that also recovered in 7 days post camp

**Calf Rearing:** total 21 female calves of **21** Beneficiaries were selected for calf rearing activity out of which **8** were cow calf and **13** buffalo calves from 5 project villages namely Dahej, Luvara Vengnni, Rahiyad & Kaladara . For all selected animals gave support of 360 kg concentrate mixture, 9kg mineral mixture and periodic deworming. The Selected Calf 6–8-month calf were selected. The average birth weight of female calves under CRP was 11.8 % every month, which was higher than the calves maintained under conventional feeding system.

#### ALLIED ACTIVITIES

**Green Fodder Cultivation:** In Livestock rearing more than 60% of expenses happens on feed and Fodder. To reduce their expenses, AF provided scientifically developed BNH-10 fodder varieties at farmer land. This green fodder avail round the year at their own land which reduces the feeding expenses and get proper nutrition which have ultimate effect on animal health and milk production.

For effective implementation of fodder development activities, technical support was provided to 34 farmers of 8 project villages Luvara, Jageshwar, Lakigam, Kaladara, Vengani, Koliyad, Rahiyad & Kaladara, support of 17500 nos stumps of BNH 10 variety was promoted. Total area under fodder cultivation was 7.27 acre land. Total fodder produced **119.55 ton** by these beneficiaries helped to meet out fodder requirement and production value of fodder Rs. **619250/-**.

**Vermi compost production:** 5 families from Vengani, Dahej and Kaladara villages were selected for vermicompost demonstration and gave support of 1 vermicompost bed made up of HDPE material and earthworm. It is expecting that they will produce minimum 300 kg vermicompost at 55 to 60 days cycle. As demand of vermicompost is very high in Dahej in Industries so they may sale their produce at the rate of Rs. 10/kg which helps them to earn income

**Kitchen garden:** 60 beneficiaries got vegetable seedlings like chilly, tomato & brinjal. The farmers under Kitchen Garden with drip get 250 seedlings in Jageshwar, Lakhigam, Vengnni, Kaladara, Naya Kaladara and Koliyad villages.

#### Event:

**Calf Rally:** A calf rally event was organized in Vengani village. 107 female calves participated in this event. They were in the age group of

Sr	Particulars	No. of calf
1	0-6 month	48
2	6-12 Month	35
3	12- above	24

A panel of experts selected healthy calves in different categories and beneficiaries got prizes as token of encouragement/promotion to animal husbandry practices.

1. **Exposure Visit:** 46 dairy farmers including 17 females visited Vav villages Shah Fodder farm - Pingalvada, Dist Bharuch, College of Veterinary & Animal husbandry- Anand Dist Kheda, Collage of Agriculture- Anand Dist Kheda, Amul Dairy Plant, Annad Dist Kheda, Progressive Farmer at Delvada Dist Mehsana, Indo-German-Israel Farm Dist Sabarkantha. Objective was to observe and learn new technology in livestock and agriculture sector.

#### IMPACT OF CATTLE BREEDING PROGRAM

S. N	PARTICULAR	Nos.
1	Total Villages	12
2	No of Families Benefitted (Direct)	481



3	No of Artificial Insemination (Cow +Buffalo)	2279
4	No of Confirm Pregnancy (Cow + Buffalo)	1171
5	No of Female Calves Born (Cow +Buffalo)	485
6	No of Male Calves Born (Cow +Buffalo)	432
7	No of New Dairy Farm developed during Project Period (In 6 project villages)	12
8.	No. of Old Dairy Farms get timely Breeding Services (In 4 villages)	6
9	Employment Created for Families through Dairy Farming	32
10	No of New Milk Cooperative Society for Milk collection and sale through milk union	2

## PROGENTY CALVING & MILK INCOME

S. N	YEAR	No. of Female Calving (Cow+ Buffalo)	INCOME OF MILK		
			Milk Production of High Pedigree born (Cow+ Buffalo) 2000 Lit/Lact	Total value of Milk as per Open market rate. Approx. Rs.60 / Lit.	Total value of Milk as per rate of Dairy's. Approx. Rs.50/ Lit.
1	2020 - 21	2	4000	240000	200000
2	2021 - 22	4	8000	480000	400000
	<b>TOTAL</b>	<b>6</b>	<b>12000</b>	<b>720000</b>	<b>600000</b>

Created Female Asset Value Report Period: - November-2017 to March-2022							
S. N	Age (Month)	No of Female			Market Rate Rs	Total Asset Value Rs.	Remarks
		Cow	Buffalo	Total			
1	0 - 6	22	63	85	2,000	1,70,000	

2	6 - 12	22	45	67	6,000	4,02,000	
3	12 - 18	27	56	83	15,000	12,45,000	
4	18 - 36	94	76	170	20,000	34,00,000	
5	36 & above	22	25	47	25,000	11,75,000	
6	Progeny AI	13	4	17	30,000	5,10,000	Cow 25000Rs + Buffalo 30000Rs.
7	Progeny Pregnant	9	1	10	37,500	3,75,000	Cow 35000 Rs + Buffalo 40000 Rs.
8	Progeny Calving	4	2	6	52,500	3,15,000	Cow 45000 Rs + Buffalo 60000 Rs.
Total		213	272	485		75,92,000	

Created Male Asset Value Report Period: - November- 2017 to March- 2022							
S. N	Age (Month)	No of male			Market Rate Rs.	Total Value Rs.	Remarks
Cows		Buffalo					
1	0 - 6	16	49	65	1,000	65,000	
2	6 - 12	22	24	46	2,000	92,000	
3	12 - 18	34	59	93	5,000	4,65,000	
4	18 - 36	96	71	167	8,000	13,36,000	
5	36 above	27	34	61	15,000	9,15,000	
Total		195	237	432	-	28,73,000	

Dairy Farm Report Period: - November 2017 to March-2022							
S.N	Village	Before Project			After Project		
			No of Animal	No of Labour Staff	No of Dairy Farm	No of Animal	No of Labour Staff
1	Vangani	3	72	6	5	104	14
2	Dahej	1	28	3	4	164	8
3	Jageswar	1	34	2	2	51	3
4	Luvara	1	25	2	4	74	3
5	Lakhigam	0	0	0	2	63	2
6	Koliyad	0	0	0	1	35	2
Total		6	159	13	18	491	32

## Pashudhan Program 2<sup>nd</sup> Centre: Kadodara

Pashudhan Program is extended to new 5 villages of Vagra Taluka, Bharuch. These villages are Vav, Janiyadra, Kadodara, Sambheti and Nadarkha.

Major activities carried out in 5 villages are:

1. **Capacity Building of Dairy Farmers:** During the year, **total 3 training** programmes on scientific animal husbandry practices was organized in project villages namely **111 farmers** were trained out of which **28 were female participants** and remaining **83 were males**. These participants hold total **189 animals out of which 36 are cows, 86 buffaloes, 15 cow heifers and 52 buffalo heifers**.

#### Output

1. Get Knowledge about New fodder Variety
2. Farmer aware about the Artificial insemination and Sex Sorted Semen
3. Immediately ready for Contribution for Grass fodder of BNH-10
2. **Vaccination:** total **700** vaccination for three diseases (FMD, BQ & HS) was done in Sambheti, Vav, Nadarkha & Kadodara villages namely where **139** vaccinations in cows , and remaining **611** vaccinations in buffaloes. Total **1068** farmers families were covered.
3. **Deworming:** Total **500** cattle covered under deworming and 100 calf covered under this activity with total beneficiaries **covered 117** of Village Janiyadara, Kadodara Vav Nakhatra

#### Output:

- Farmer get aware about importance of periodic deworming
  - After Deworming skin Luster change
4. **Promotion of Mineral Mixture:** total **300 kg** Promotion of mineral mixture Done. **124** farmers get benefitted from 5 project villages Viz. Nadarkha, Vav, Kadodara < Sambheti & Janiyadara.

#### Output:

- Farmer Aware about the importance of mineral mixture
- 6 Heifer shows sign of heat
- Helps to reduce economic burden for rearing of unproductive animals for longer period

#### 5. Infertility & General Health Camps

Sr.	Village	Clinical	Gynecological	Parasitic	Total No of animals	No of beneficiaries
1	Nadarkha	3	33	7	43	26
2	Vav	5	18	2	28	13
3	Kadadodara	24	27	37	88	63
	<b>Total</b>	32	78	46	159	102

- Total **159** animals treated in camps organized in **3** villages namely Nadarkha, Vav & Kadodara. Total **102** family get covered.
  - Total **32** animals were treated for various clinical disorders viz. Rumen dysfunction, mastitis, lameness and heavy ectoparasitic infestation and all are recovered after treatment.
6. **Fodder Demonstration:** BNH -10 new improved variety fodder distributed to **5** beneficiaries of **3 villages** Vav, Nadarkha & Kadodara. After 3 days from distribution all farmer sowed the cutting in their fields.



7. **Exposure Visit:** 44 male farmers of Nadarkha, Kadodara & Vav villages Shah Fodder farm -Pingalvada, Dist Bharuch, College of Veterinary & Animal husbandry- Anand Dist Kheda, Collage of Agriculture- Anand Dist Kheda, Amul Dairy Plant, Annad Dist Kheda, Progressive Farmer at Delvada Dist Mehsana, Indo-German-Israel Farm Dist Sabarkantha



### PROJECT ANNAPURNA (AGRICULTURE)

Agriculture is one of the sources of livelihood in Koliyad, Vengni, Kaladara, Atali and Rahiyad – peripheral villages ADANI Port at Dahej. However, the productivity of crops and income generation from agriculture is very low. The main reasons for low productivity during *kharif* are submerged land during monsoon, sea water intrusion leading salt accumulation in soils, high TDS water while low during *Rabi* due to lack of adequate irrigation facilities and poor water quality. ADANI Foundation,

Dahej in collaboration with KVK, Bharuch for technical support implemented “Annapurna Project” to address these issues of villagers during 2021-22.

Participated farmers in Annapurna Project

Project Annapurna (Agriculture)				
S. N	Activity	Village	Progress in FY21-2022	
			Farmers	Acres
1	Tuver GT104 Demo Plot	Koliyad	14	13
		Rahiyad	9	9
2	Wheat GW451	Vengni	8	20
		Kaladra	1	2
3	Green gram GM-6	Koliyad	5	5
4	Hydrogel	Vengni	21	21
		Kaladra	1	1
			59	71

The details of interventions executed, and outcomes of the activities are as follows:

#### A. Climate Smart Agriculture

Farmers in project villages grow post monsoon crops viz. wheat, green gram, moth bean etc. on residual soil moisture. Thus, the yield of these crops is at lower side. Moreover, the varieties cultivated by these farmers are old with low potential yield and use of inputs required for crops are minimal. The environment friendly and innovative techniques have been demonstrated in view to enhance the productivity of existing of crops and adoption of technologies in future.

##### 1. Varietal Replacement

The old and traditional varieties of wheat, pigeon pea and green gram having low yield potential were replaced by high yielding and disease resistance varieties GW-451, GT-104 and GM-6, respectively. The varietal replacement resulted into average yield enhancement of wheat, pigeon pea and green gram by 12 %, 20 % and 17%, respectively.



## 2. Applications of hydrogel

Hydrogel is cross-linked polymers that can hold water 400 times their own weight and release 95% of that to growing plants. Since the project area have scarcity of water and farmers are growing crops on residual moistures, application of hydrogel is demonstrated in the region first time through project support.

Use of Hydrogel leads to increased water use efficiency and increased frequency for irrigation for crops cultivated by farmers in the project villages. The yield obtained under hydrogel application is 8-10 % higher than the untreated plot.

## 3. Use of Nano Urea

Nano Urea an innovative product of IFFCO for replacement of traditional urea was provided for wheat crop considering its requirement for nitrogen. This helped farmers in getting 5-8 % higher yield along with improvement in nutrient use efficiency. The same is also facilitated farmers in reducing cost of cultivation.

## 4. "NOVEL" Banana Pseudo stem Sap

The patented product "NOVEL" of Navsari Agricultural University, Navsari developed from banana pseudo stem which acts as growth promoter and flower inducer demonstrated in wheat, green gram and pigeon pea crops with required quantity. Farmers gave feedback on the product in boosting flowers and pods.

## 5. Integrated Pest and Disease Management (IPDM)

Environment friendly pest management practices promoted in the project villages through provision of pheromone traps for management of *heliethis* and to manage sucking pests' neem oil of 1500 ppm concentrations was offered to farmers of the villages. Wilt is one of the most serious diseases of pigeon pea in the district. The best remedial options of using *trichoderma* demonstrated.

The pest and disease incidence were reported less in treated plot by 6% against untreated plots of pigeon pea and green gram

### Details of demonstrations under Annapurna project

Activity	Financial Year of	Progress FY21-22		AF Contribution (In Rs.)	Farmers Contribution (In Rs.)	KVK Contribution (In Rs.)	Village name
	inception	Acres	Farmers				
Tuver GT104 Demo Plot	2021	23	23			41400	Rahiyad, Koliyad, Kaladra
Wheat GW451	2021	22	9	44000	11880		Vengni, Kaladra
Green gram GM-6	2021	5	5	3900	1175		Koliyad
hydrogel	2021	22	22	44000	4400		Vengni



Crop inputs	2021	40	40	111000	15510	60000	Koliyad, Vengni, Kaladra
				202,900	32,965	101,400	

## B. Farm Waste Management

The project villages are generating huge quantity of organic waste generated from agriculture. Farmers also have good numbers of cattle so the dung also available in ample quantity. The use of vermicomposting technique to manage organic wastes has been increasing rapidly in recent years due to its unique advantages of lower operational and maintenance costs compared with other waste management technologies. Integration of women in the development process is a major challenge. The project also aims at achieving this through specific interventions like organizing them into small groups (SHGs), facilitating regular interactions, imparting skills, and capacities to undertake income generation activities, etc.

Therefore, to promote vermicomposting for recycling of farm wastes, the basic inputs required for the process viz; vermi beds 36nos, earthworms 72nos, watering can 12nos etc. are provided to 12 farmers to the interested and needy women participants. Engaging women participants in vermicomposting provides additional source income.

## C. Capacity Building

Capacity building at various levels is crucial for enriching the program from time to time. Thus, farmer to farmer learning mechanism was applied for introduction of improved package of practices and new crops. The participating farmers taking-up demonstration plots were trained in the detailed aspects of the new techniques. The farmers trained for demonstrating the new techniques have been act as trainers for disseminating the improved techniques to other farmers. To achieve this **total 5**



**trainings** have been conducted depending upon crop stages and need of the farmers. The details of trainings conducted are as follows:

### Details of trainings

S. N	Date of training	Title of Training	Village	No of Training	Participants
1	27 Nov'2021	Soil sample collection training	Koliyad, Vengni	2	35
2	20 Nov'2021	Given inputs for crop protection	Koliyad, Vengni	2	29
3	14 Mar'2022	Wermi compost making training	Vengni	1	12
	<b>TOTAL</b>				<b>76</b>

## Women Entrepreneurship

### SDG Alignment 5: Gender Equality

Achieve gender equality and empower all women and girls

## SHGs @ a Glance

S.N	Group	Financial Year of inception	Members	Type of Business	Monthly Saving (In Rs.)	Total Savings (In Rs.)	Total income (In Rs.)	Cumulative income (from inception of the group)
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								No. of groups	Amount in Rs.
1	Shiv Shakti Sakhi Mandal, Jageshwar village	2018	10	Bag making & face masks		3000	2250	1	5,44,061
2	Mahadev Mahila Sakhi Mandal, Luvara	2020	11	Vermi compost	1100	6600	63296	1	2,71,949
3	Sadhdada Mahila Sakhi Mandal, Lakhigam village	2021	11	Amul Parlour, Snacks & Tiffin service	5500	33000	203655	1	4,25,940
4	Ekta Mahila Sakhi Mandal, Jolva village	2022	10		1000	6000	0		
5	Gauseva Mahila Sakhi Mandal, Suva	2022	10			0	0		
	<b>Total</b>		<b>52</b>			<b>48600</b>	<b>2,69,201</b>		<b>13,23,901</b>

### 1 Shadhdada Sakhi Mandal, Lakhigam

This SHG is running Amul Parlour in Lakhigam village. Their net profit from October 2021 to March 2022 is Rs.203655/-. This was opened in July 2021.

Adani Foundation has provided infrastructure support amount Rs. 3.5 lakh for Amul parlour in form of cabin, refrigerators & furniture amount Rs. 3.5 lakh whereas SHG's contribution is Rs.75,000.

These 11 members group's journey started in December 2019 - nos. of meetings were held for gr. formation & finally it formed in February 2020. Then it gets registered under Livelihood Mission. Members attended trainings - offline & online, exposure visit. They got their 1st order of snacks preparation during Lakhigam Cricket Tournament, January 2021.

Amul Parlor's total sales till March 2022 is Rs. 23.85 lakh.

### 2. Mahadev Mahila Sakhi Mandal, Luvara

Mahadev Mahila Sakhi Mandal, Luvara is engaged in vermi compost production activity. AF provided materials support to the group in form of

1. TMT bar frame: 23 made from the scraps at Dahej port
2. Heat sealing machine: 1
3. Weighing machine: 1
4. Water cane: 11
5. Vermicompost bed: 14





### Participation in District Level Exhibition

AF supported 2 SHGs - Shiv Shakti Sakhi Mandal, Jageshwar & Mahadev Mahila Sakhi Mandal, Luvara moved forward for entrepreneurship. Gr members got an opportunity to sell n market their products in an exhibition organized by Birla Grasim Limited at Rangila Hotel, Bharuch.

Shiv Shakti Mandal presented different types of bags and sold products amount of Rs. 2250/- and got an order of 200 jute bags from Birla Grasim Ltd. SHG has completed 200 nos jute bag order Rs.180 per bag. On the other hand, Mahadev Mahila Sakhi Mandal got order of vermi compost manure from 3 vendors for garden development of 5 acres land. Then SHGs has sold 2.5 tons vermicompost manure according to Rs.6000 per ton.



### Integrated Model Suva

Adani Foundation is supporting Suva Gaushala, Suva for institution building. This is managed by a youth group of Gau Sewa Trust, Suva. Objective is to develop an integrated model of agriculture, horticulture, and cottage industries. Gaushala has 2.8 acre of land. This land is being utilized for

- Vegetable cultivation
- Fodder cultivation
- Orchard development

AF's coordination with Krishi Vigyan Kendra, Chaswad supported Youth group in getting 150 nos saplings of mango, chiku, custard apple and guava.

In June 2021, under AF's guidance youth group designed Ganga Ma Model for vegetable cultivation.

## 2. Training program

Animal Husbandry & Vermicompost Training conducted on 28 Feb '2022 by Krishi Vigyan Kendra, Chaswad. Sh. Mahendra Patel -Head scientist, Mr. Tushar Bhalani -Horticulture scientist were the resource persons.

Covered topics of the training program

### Animal Husbandry

- Disease management of farm animal
- Care and management of calf
- Promotion of ethno- veterinary practices
- Feed and fodder management
- Routine preventive health care practice
- Value addition on dry and green fodder

### Vermicomposting

- Introduction of Vermicompost
- Site Selection and physical requirements for Vermicompost unit
- Importance of Vermicompost
- Steps of vermicomposting and methodology
- Different Species of Vermicompost
- Earthworm and its role
- Characteristics of good quality Vermicompost
- Vermicomposting: Problems and Solutions

**2. Solar pump installed:** AF installed one solar pump for irrigation purpose in 2.8-acre land of gaushala. Other materials also provided: vermibed, TMT bar frame, worms, water cane.



# Community Infrastructure Development



## Community Infrastructure Development

1. **Luvara village pond work** - strengthening of the pond – Edge repair and opening of outlet started on 5<sup>th</sup> July 2021 and completed in October 2021.

Luvara village has only one pond and this is the only source of water for animals. Pre-condition of the pond was very bad as all sides were full of thorns and edges get damaged. At one-point level of the pond touched the road. During rainy season pond water entered in village as outlet was choked.

383 animals of 54 families would get benefitted from this work.

Luvara Gram Panchayat and villagers expressed their gratitude towards Adani Foundation as their long-awaited pond work get completed.



Pre-condition of Luvara Pond



After strengthening work of Luvara pond

### Toilet block in Govt. High School, Lakhigam:

In High School premises there were 2 toilets for girls and 2 for boys. Teachers were using the same toilets. As per High School's strength 162 (girls: 82 and boys: 80) no. of toilets were not sufficient. On request of High School, Adani Foundation constructed 2 toilet blocks for girls & boys. This toilet block would provide better sanitation facility to students and teachers.



### **Construction of classrooms at Primary School, Jageshwar**

In Primary School, Jageshwar 2 new classrooms' construction is going on. At present, there are 8 classrooms for 175 students (Girls: 98 and boys: 77). Out of these 8 rooms 2 rooms are being used as computer lab and science lab. Students of standard 1 & 2 are sitting in a congested space. These classrooms are constructed for these students. Work is going on.



### **Construction of Library at Thava School, Netrang**

Under tribal area development Adani Foundation is supporting Eklavya Sadhana School Thava (Netrang), Bharuch since 2019. Within 2 years' intervention athletics ground development work and installation of solar panel (Off-grid system with 2 hours' battery back-up) were completed.

Adani Foundation received a request from Thava school to construct a library in their school premises for students of the area.

At present, school's strength is 997 out of which 503 are boys and 494 are girls. All students come from nearby villages like Mandala, Kakadkui, Khajlidabad, Bharada, Nana Madala and Beda.



### **Pond Development Work, Lakhigam:**

Adani Foundation and Gram Panchayat, Lakhigam are constructing retention wall of 500 m of a pond of Ahir Falia, Lakhigam. 140 m retention wall is being developed by AF whereas remaining 360 m and beautification work are under the scope of Gram Panchayat, Lakhigam. Work is in progress.



Direct Benefit	Direct Beneficiaries	Indirect Beneficiaries
1. Pond development, Lakhigam: Increase in storage capacity of pond	1000	4938
2. Pond Development work, Luvara: 383 animals of 54 families use this pond	220	1663
3. Classroom construction, Jageshwar: creating adequate infrastructure for education	320	
4. Construction of Toilet block, Lakhigam High School: Access to better sanitation facility	180	
5. Construction of library at Thava School, Netrang	6000	
<b>TOTAL</b>	<b>7720</b>	<b>6601</b>



## EMPLOYEE VOLUNTEERING PROGRAM

Adani Foundation initiated Employee Volunteering Programme to provide better voluntary service of employees to the community at large.

### Support to Divyang:

**Exhibition by KALRAV, Bharuch at Dahej Port:** Under inclusiveness policy of the group Adani Foundation & Adani Dahej Port organized an exhibition of decorative gift items made by Divyang of Kalrav School, Bharuch on 22<sup>nd</sup> October 2021 at Dahej port. Kalrav sold gift items of Rs.10000/- Sh. Jagdish Patel Sir took the leadership for this noble cause and encouraged employees to organize such exhibitions in their society also.

### Employee Volunteers:

1. Sh. Jagdish Patel, COO – APDPPL
2. Port employees



**BLOOD DONATION CAMP:** Adani Power Private Limited (APPL) and Adani Petronet Dahej Port Private Limited every year arrange Blood Donation Camp with support of Red Cross Society, Bharuch. APPL mobilized 74 youths for blood donation. The camp was organized in APPL campus, Suva. All youths received certificate, token with logo of Adani Foundation.

## Coordination with Govt. Departments

### Meetings with Govt. Departments

AF got the opportunity to present CSR projects and achievements in presence of Hon. Collector, DDO, District level officers of Health, Education, Agriculture, Livelihood and 151 companies' representatives of SEZ, Dahej, GIDC Jhagadia, GIDC Ankleshwar.

AF participated in District Level Coordination Committee meetings of Primary Education and Livelihood.

**Primary Education Meeting:** In the meeting DDO, DPEO, Dy. DPEO, BRCs and organizations Adani Foundation, Naandi Foundation & Pratham were present.

- ✓ Adani foundation shared the baseline experiences of 8 schools and way forward for remaining baseline assessment.
- ✓ The meeting provide a stage to share success inputs in "Nipun Bharat Program".
- ✓ DDO appreciated Project Utthan's objectives & requested AF to cover more schools of Vagra Block

**Livelihood Meeting:** Meeting was chaired by Mr. Yogesh Chaudhary, DDO, Bharuch. DRDA Director, District Livelihood Manager, Bank Manage & representatives of Birla Copper, Dipak Foundation, Care India, GNFC & Atapi were present. AF shared their 3 SHGs achievements & vision of business model. DDO Mr. Chaudhary requested to form SHGs as per NRLM guidelines and avail benefits of Govt. schemes. He also announced 2 upcoming business opportunity for SHGs

- On the eve of Uttarayan festival SHGs can sell their products in Haat Bazaar from 10th to 13th January 2022. SHGs must pay rent of Rs.4000/- DRDA will do their stay & food arrangement
- SHGs can get shop in Zadeshwar, Bharuch on a token amount of Rs.10 per day

### Achievements

- 58 beneficiaries of 6 villages applied under 71 Govt. schemes of Animal husbandry, agriculture, and others. 31 beneficiaries are availing the benefits.
- 57 years old Premiben Lakshmanbhai Gohil of Lakhigam village got a tricycle under Sadhan Sahay Yojna of Social Defense Department. Premiben lost her right leg at the age of 17. She underwent leg operation 3 times. Earlier she was using Jaipur foot but didn't feel comfortable.

## Events

### Women's Day Celebration

International Women's Day celebrated with village women & Utthan Sahayak. Women cricket teams of 3 villages Lakhigam, Luvara & Jageshwar and a team of Utthan Sahayak played matches with zeal n enthusiasm. These teams had women of age group 18 years to 50 years. Jageshwar women lifted winner trophy whereas Luvara women were the runner up.

Score: Luvara women 30 runs in 5 overs

Jageshwar women: 31 runs in 5 overs



### Gender Workshop on # Break the Bias

2 workshops with High School students were organized on the eve of Women's Day. Objective of workshop discussion on gender equality, equal respect, break the bias (Belief).

- ✓ 250 students of 2 High Schools of project area: Govt High School, Lakhigam and P.J.Chheda High School, Dahej participated in the workshops.
- ✓ Resource person Mr. Vaibhav Parikh interacted with students and teachers on gender issues. Students: girls and boys shared society's roles and views along with their experiences of gender bias.

School Principals appreciated AF for organizing such valuable workshops with young people of the society



### Lakhigam Cricket Tournament

Adani Foundation sponsored Lakhigam Premier League concluded on 12th March 2022 in presence of enthusiastic crowd of Lakhigam, Panchayat members and Adani Dahej Port officials. In final Shivam 11 defeated Bapa Sitaram by 38 runs & they won the trophy 6th time consecutive in a row. Winner team received the trophy by the hands of Sh.Jagdish Patel Sir, COO, APDPPL whereas Deputy Sarpanch Mr. Satishbhai Gohil gave the trophy to runner up team. Players were also given gifts to appreciate their efforts.

Shivam 11 set a target of 105 runs in 10 overs, but Bapa Sitaram made only 67 runs. Mr.Piyush Gohil of Shivam 11 adjudged as best bowler, best batsman n man of the series.

This tournament was started on 1st January 2022 with participation of 30 teams.





## SUCCESS STORY

### Project Utthan: Remodeling the Learning Environment

Adani Foundation's Project Utthan launched on 29<sup>th</sup> September 2021 in 14 schools of Vagra taluka of Bharuch District with more than 3085 students. Objective is to improve the learning level of the progressive learners (Priya Vidyarthi) and their mainstreaming. This project is focused on progressive learners and their quality of learning, mothers' engagement is playing a vital role to bring the social changes, children learning aspects, school development and increase the children attendance in the school.

To achieve the desired outcome of the project Utthan Sahayak (teachers) are appointed, mostly from the project villages. They play a significant role to engage the students in the classroom and maintained the school attendance through use of different strategies as need base staff approach and support, identify the progressive learners through baseline study, introducing English as third language in class 1 to 4<sup>th</sup>, do home visits and mothers' meet.

8 Govt. schools of 6 villages: Jageshwar, Suva, Jolva, Dahej, Vengani, Rahiyad and Kaladara are covered in baseline study. Total 984 students of Class 3 to 6 are covered under this study. Out of 984 students 444 students observed as progressive learners. It means that almost 46% children are not able to read, write and not able to do basic numeracy. To improve their learning activities, Utthan teachers are playing a significant role to deal with such students by creating safe atmosphere, building positive relationship, making the classrooms joyful. The teachers meet with the children's parents and counselling them on children's progress in learning and regularity in the class and importance of education.



Faliya learning class is initiated with objective of making the children regularity, filling gap of learning process, and child can feel positive energy after long vacation when he/she goes to school at very first day. Other hand this such activity builds strong rapport with students and teachers. **By Faliya learning activity we have reached to 1596 students** in less than four months. Among these 502 students are progressive learners whereas 1094 are regular one. Utthan Sahayak are doing home visits also. Till date they visited 375 households. Mother's meets are also conducted with

purpose of creating awareness on importance of education and regularity of children at school. There is total 50 nos. of mothers' meetings are held so far.

Utthan Sahayak are engaging progressive learners in drawing, music, dance, and other co-curricular activities. These activities encourage them to open up and enjoy the school. **In a short period 60 progressive learners of Govt. Primary School, Jolva, Lakhigam and Dahej Kanya have joined the mainstream. Now they can read and write Gujarati.**

This learning journey is continued.....

## Amul Parlour: a journey towards entrepreneurship

Efforts to empower women in society can bring a radical change. Sadhdada Mahila Sakhi Mandal, Lakhigam of SEZ Dahej is an excellent example of entrepreneurship. With proper guidance and adequate support, now these women have become entrepreneur. At one time, women living in just four walls of the house are doing business in millions through their Amul Parlour. Started on 12<sup>th</sup> July 2021 this Amul Parlour's turnover reached to Rs.20.48 lacs at the end of February 2022.

Sakhi Mandal's journey of entrepreneurship was a challenging one. Engaging rural women in a business was next to impossible but Adani Foundation's continuous efforts and hand holding support brought a good result. These 11 members group's journey started in December 2019 - nos. of meetings were held for gr. formation & finally it formed in February 2020. Then it is registered under Livelihood Mission. Members attended trainings - offline & online and went on an exposure visit.

The women were trained by the Entrepreneurship Development Institute, Ahmedabad (online training) as well as by District Livelihood Mission, Bharuch to adapt the industrial environment. From Sales and Marketing to Accounting and Logistics lessons were taught. After a series of trainings, they became confident. However, they were still at a loss as to which business to pursue, so they turned to the Adani Foundation for guidance and help.

AF team suggested to venture into the business of Amul Parlour based on the capacity and research of Sakhi Mandal. Since there was no parlour in 15 kilometers range to meet the daily requirement of milk, this business had a strong potential of earning. Unaware of the legal hurdles, Sakhi Mandal's women were given handholding support on how to manage everything from registration and food licenses to boost their morale. They got a financial assistance of Rs. 3.5 Lakhs in form of portable cabin, 2 deep freezers and 1 vertical fridge, furniture. Sakhi Mandal's initial investment was of Rs.75000/-

It has been shown that women can excel not only in housework but also in business. Many of the women around have also been inspired to become entrepreneur. Adani Foundation has an approach of uplifting women in the society and their journey is continued.

Sadhdada Sakhi Mandal is all set to open their next business of snacks.





## MEDIA COVERAGE

છ. આ સુચના, મારા માટે યોગ્ય મૂલ્યવાન છે. મેં આને સંસ્કૃતિ મંત્રાલયને અર્પણ કર્યું છે. મને ખુશી છે કે મંત્રાલયે આટલા ઓછા સમયમાં આ સુચનોને મોટી ગંભીરતાથી લીધું અને તેની પર કામ પાડ્યું. આમાંથી જ નેક

મને કો ખાતના ટેરમા સંસ્કરણ સામર્થ્યને બતાવે છે. સૌના પ્રયાસના મંત્રની શક્તિને બતાવે છે. સાથીઓ ૧૦૦ કરોડ વેક્સિન ડોઝનો આંકડો ઘણો મોટો જરૂર છે પરંતુ આનાથી લાખો આપવાનો નમસ્કાર.

**અનુસંધાન પાન નં. (૨) પર**

**અદાણી ફાઉન્ડેશન - દહેજ દ્વારા ઉત્થાન પ્રોજેક્ટ શરૂ કરાયો**

**પ્રાથમિક શિક્ષણમાં નબળા વિદ્યાર્થીઓ ઉપર ધ્યાન આપવા વાગરા તાલુકાની કુલ ૧૪ શાળાઓમાં ઉત્થાન પ્રોજેક્ટની શરૂઆત કરવામાં આવશે**



અદાણી ફાઉન્ડેશન-દહેજ દ્વારા પ્રાથમિક શિક્ષણમાં નબળા વિદ્યાર્થીઓ, જેને ઉત્થાન પ્રોજેક્ટમાં “પ્રિય વિદ્યાર્થી” તરીકે સંબોધવામાં આવે છે, તેના ઉપર ધ્યાન આપવા વાગરા તાલુકાના ૧૨ ગામોની ની કુલ ૧૪ પ્રાથમિક શાળાઓમાં ઉત્થાન પ્રોજેક્ટની શરૂઆત કરવામાં આવી રહી છે. આ પ્રોજેક્ટનો શુભારંભ તાજેતરમાં જ લખીગામ પ્રાથમિક શાળામાં યોજાઈને કાર્યક્રમમાં આવેલ ૧૪ જેટલી પ્રાથમિક શાળામાં જે વિદ્યાર્થીઓ અભ્યાસમાં નબળા છે તેના ઉપર વિશેષ ધ્યાન આપી તેવા પ્રિય વિદ્યાર્થીને મુખ્ય પ્રવાહમાં લાવવાના હેતુથી આ ઉત્થાન પ્રોજેક્ટ શરૂ કરવામાં આવેલ છે. આ ઉપરાંત આ પ્રોજેક્ટ અંતર્ગત શાળાઓને લાઈબ્રેરી માટે પુસ્તકો, રમત-ગમત તેમજ ઈતર પ્રવૃત્તિ માટે સાધનો, સ્માર્ટ ક્લાસરૂમ પ્રારંભ પાડવા જેવી પ્રવૃત્તિને પણ આવરી લેવામાં આવશે. આ પ્રોજેક્ટથી પ્રત્યક્ષ તેમજ પરોક્ષ રીતે ૨૮૦૦ જેટલા વિદ્યાર્થીઓને લાભ મળશે. અદાણી ફાઉન્ડેશન દ્વારા ઉત્થાન પ્રોજેક્ટ હેઠળ દરેક ૧૪ શાળામાં ઉત્થાન સહાયકની નિમણૂક કરવામાં આવશે. ઉત્થાન સહાયક પ્રિય વિદ્યાર્થીઓ ઉપર વિશેષ ધ્યાન આપી તેમની વાંચન-ગણન-લેખનની આવડત વધારવા કામગીરી કરશે. અદાણી ફાઉન્ડેશન દ્વારા આ પ્રકારનો ઉત્થાન પ્રોજેક્ટ ગુજરાતના કચ્છ તેમજ સુરત જિલ્લામાં ચલાવવામાં આવી રહેલ છે જેના ઘણા હકારાત્મક પરિણામ મળેલ છે. અદાણી ફાઉન્ડેશન જ્યાં જ્યાં અદાણી ઉધ્ધોગ સમુહ આવેલ છે તે વિસ્તારમાં શિક્ષણ, આરોગ્ય, સર્વિશી વિકાસ તેમજ ગ્રામ્ય માળખાકીય સુવિધાઓના વેત્રમાં કાર્યરત છે.

## દહેજ અદાણી ફાઉન્ડેશન દ્વારા પ્રાથમિક શિક્ષણમાં નબળા બાળકો માટે ઉત્થાન પ્રોજેક્ટ શરૂ કરાયો

(પ્રતિનિધિ) વાગરા, તા. ૨૫

દહેજ અદાણી ફાઉન્ડેશન દ્વારા પ્રાથમિક શિક્ષણમાં નબળા છાત્રો માટે ઉત્થાન પ્રોજેક્ટ હાથ ધરવામાં આવશે. વાગરા તાલુકાના ૧૨ ગામોની ૧૪ પ્રાથમિક શાળાઓને ઉત્થાન પ્રોજેક્ટ હેઠળ આવરી લઈ કામગીરી હાથ ધરવામાં આવશે. દહેજ અદાણી ફાઉન્ડેશન દ્વારા પ્રાથમિક શિક્ષણમાં નબળા વિદ્યાર્થીઓ, જેને ઉત્થાન પ્રોજેક્ટમાં પ્રિય વિદ્યાર્થી તરીકે સંબોધવામાં આવે છે, તેના ઉપર વિશેષ ધ્યાન આપવા વાગરા તાલુકાના ૧૨ ગામોની કુલ ૧૪ પ્રાથમિક શાળાઓમાં ઉત્થાન પ્રોજેક્ટની શરૂઆત કરવામાં આવી રહી છે. આ પ્રોજેક્ટનો શુભારંભ તાજેતરમાં જ લખીગામ પ્રાથમિક શાળામાં યોજાઈને કાર્યક્રમ થી કરવામાં આવ્યો હતો. આ કાર્યક્રમમાં લુવારા, ભગેશ્વર, સુવા, ગેરમા રીયાલ, દહેજ સ્થાન અને કાંચા



અદાણી ફાઉન્ડેશન દહેજ દ્વારા ઉત્થાન પ્રોજેક્ટ શરૂ કરવામાં આવ્યું ત્યારની તસવીર. (તસવીર : સૈયદ અમજદ, વાગરા)

આચાર્ય, સી.આર.સી કોર્ડિનેટર તેમજ શિક્ષકગણ ઉપસ્થિત રહ્યા હતા. અદાણી દહેજ પોર્ટના વડા જગદીશ પટેલ તેમજ અદાણી ફાઉન્ડેશન દહેજના યુનિટ હેડ કિશ્વિજા વિશિષ્ટ દરજ્જાઓમાં ગણાતા

માસ્ટર પેનલ સામે સહકાર પેનલ વચ્ચે ચૂંટણી જંગ આરંભ આજીયો થઈ રહ્યો છે. વા.મ.ન.સ.ત. રૂઢ માસ્ટર પેનલ અને સહકાર પેનલ વચ્ચે મીઠા પાણીની સાયદી યાજ્ઞના સંસ્કારો અને પ્રતિ આજીયો થઈ રહ્યો છે.

**અદાણી ફાઉન્ડેશન દહેજ દ્વારા ભરૂચ સિવિલ ખાતે વિશ્વ દિવ્યાંગ દિવસની ઉજવણી કરાઈ**

કલરવ સ્કુલ ભરૂચના દિવ્યાંગ છાત્રોને રમત-ગમતના સાધનોની કીટ અર્પણ કરાઈ : સમાજ સુરક્ષા વિભાગ તરફથી લાભાર્થીઓને સાયકલનું વિતરણ કરાયું



ધબકાર પ્રતિનિધિ, વાગરા, તા. ૧૦

ભરૂચ સિવિલ હોસ્પિટલ ખાતે વિશ્વ દિવ્યાંગ દિવસ નિમિત્તે જિલ્લા સમાજ સુરક્ષા વિભાગના નેજા હેઠળ કાર્યક્રમ યોજાયો હતો. અદાણી ફાઉન્ડેશન, દહેજ એકમ દ્વારા વાગરા તાલુકાના વિવિધ ગામોના દિવ્યાંગ લાભાર્થીઓને તેમને સરકારની વિવિધ યોજનાઓનો લાભ મળે તે અંગે માહિતગાર કરી તેમને સહાય મળી રહે તે માટે પ્રયત્નો કરવામાં આવ્યા હતા.

આ કાર્યક્રમમાં ભરૂચ જિલ્લાના આવ્યું હતું. આ તબક્કે લાભાર્થીઓને

**દહેજ અદાણી ફાઉન્ડેશન દ્વારા વિશ્વ દિવ્યાંગ દિવસે કલરવ સ્કુલના દિવ્યાંગ છાત્રોને રમત-ગમતના સાધનોની કીટ અર્પણ**

(પ્રતિનિધિ) વાગરા, તા. ૧૦  
જિલ્લા સમાજ સુરક્ષા વિભાગના નેજા હેઠળ કાર્યક્રમ યોજાયો હતો. અદાણી ફાઉન્ડેશન, દહેજ એકમ દ્વારા વાગરા તાલુકાના વિવિધ ગામોના દિવ્યાંગ લાભાર્થીઓને તેમને સરકારની વિવિધ યોજનાઓનો લાભ મળે તે અંગે માહિતગાર કરી તેમને સહાય મળી રહે તે માટે પ્રયત્નો કરવામાં આવ્યા હતા.

**હિલ્ડી ભરૂચ ભરૂચ-અંકલેશ્વર 24-10-2021**

**અદાણી ફાઉન્ડેશન દહેજ દ્વારા ઉત્થાન પ્રોજેક્ટ શરૂ**

અંકલેશ્વર | અદાણી ફાઉન્ડેશન દહેજ દ્વારા ઉત્થાન પ્રોજેક્ટ શરૂ કર્યો હતો. પ્રાથમિક શાળા માં નબળા વિદ્યાર્થીઓ ઉપર ધ્યાન આપવા વાગરા તાલુકાની ૧૪ શાળામાં પ્રોજેક્ટ ની શરૂઆત કરાઈ હતી. ઉત્થાન પ્રોજેક્ટ ને પ્રિય વિદ્યાર્થી તરીકે પ્રારંભ દહેજ પોર્ટ વડા જગદીશ પટેલ તેમજ દહેજ યુનિટ હેડ ઉમા મિશ્રા દ્વારા શરૂઆત કરાઈ હતી. અદાણી ફાઉન્ડેશન દહેજ દ્વારા પ્રાથમિક શિક્ષણમાં નબળા વિદ્યાર્થીઓને ઉત્થાન પ્રોજેક્ટ માં પ્રિય વિદ્યાર્થી તરીકે સંબોધવામાં આવ્યા હતા. તેના ઉપર ધ્યાન આપવા વાગરા તાલુકાના ૧૨ ગામોની કુલ ૧૪ પ્રાથમિક શાળામાં ઉત્થાન પ્રોજેક્ટ ની શરૂઆત કરવામાં આવી છે.



# ધબકાર

## વાગરા તાલુકાની ૧૪ પ્રાથમિક શાળાઓમાં રાષ્ટ્રીય બાલિકા દિવસ ઉજવાયો

પ્રથમકાર પ્રતિનિધિ, ભરૂચ તા. ૨૮ ફર વર્ષે તા. ૨૪ જાન્યુઆરીએ દેશભરમાં ઉજવાતા 'રાષ્ટ્રીય બાલિકા દિવસ' અંતર્ગત અદાણી ફાઉન્ડેશન- દહેજ એકમ દ્વારા બાલિકાઓનો ઉત્સાહ વધારવા ઉત્સાહ કાર્યક્રમ અંતર્ગત ઉત્થાન સહાયકો દ્વારા વાગરા તાલુકાની ૧૪ શાળાઓમાં બાલિકા દિનની ઉજવણી કરવામાં આવી હતી. જેમાં દહેજ કન્યા અને કુમાર, લખીગામ, લુવારા, જાગેશ્વર, અંબેડા, જોલવા, રહીયાદ, વેગણી, કોલીયાદ અને કલદારા પ્રાથમિક શાળાઓનો સમાવેશ થાય છે. 'મારો હોરો' અને 'મારું સપનું' થીમ પર આયોજિત ઉજવણીમાં જોડાયા હતા.

આયોજિત ઉજવણીમાં ૧૪ પ્રાથમિક શાળાઓમાં મહાન ખેલાડીઓ, કલાકારો, રાષ્ટ્રીય તેમજ સામાજિક સેવાના અગ્રણીઓ, વૈજ્ઞાનિકો, સ્વાસ્થ્યકર્મીઓ સેનાનીઓ વિગેરેના માર્ગદર્શન પ્રદર્શિત કરી તેમના યોગદાન અને સહયોગનો સમજ આપી હતી. કાર્યક્રમમાં બાળકોને પોતાના સ્વપ્ન વિશે લેખનસ્પર્ધામાં ઉત્સાહભરે ભાગ લીધો હતો. કોરોનાની ગર્હસ્તરકાળે મુજબ બાળકોને સામાજિક અંતર અને માનક પહેરી ઉજવણીમાં જોડાયા હતા.

અંકલેશ્વરની શાલીમાર હોટલના પાર્ટી વાગરા તાલુકાની ૧૪ પ્રાથમિક શાળાઓમાં રાષ્ટ્રીય બાલિકા દિવસ ઉજવાયો હતો.

# ભરૂચ-અંકલેશ્વર 30-01-2022

## વાગરાની 14 પ્રા.શાળાઓમાં બાલિકા દિવસ ઉજવાયો 'મારું સપનું' થીમ પર આયોજિત કાર્યક્રમમાં 141 બાળકી જોડાઈ

ભરૂચ

૨૮ વર્ષે તા. ૨૪ જાન્યુઆરીએ દેશભરમાં ઉજવાતા 'રાષ્ટ્રીય બાલિકા દિવસ' અંતર્ગત અદાણી ફાઉન્ડેશન- દહેજ એકમ દ્વારા બાલિકાઓનો ઉત્સાહ વધારવા ઉત્સાહ કાર્યક્રમ અંતર્ગત ઉત્થાન સહાયકો દ્વારા વાગરા તાલુકાની ૧૪ શાળાઓમાં બાલિકા દિનની ઉજવણી કરવામાં આવી હતી. જેમાં દહેજ કન્યા અને કુમાર, લખીગામ, લુવારા, જાગેશ્વર, અંબેડા, જોલવા, રહીયાદ, વેગણી, કોલીયાદ અને કલદારા પ્રાથમિક શાળાઓનો સમાવેશ થાય છે. 'મારો હોરો' અને 'મારું સપનું' થીમ પર આયોજિત ઉજવણીમાં જોડાયા હતા.

આયોજિત ઉજવણીમાં ૧૪ પ્રાથમિક શાળાઓમાં મહાન ખેલાડીઓ, કલાકારો, રાષ્ટ્રીય તેમજ સામાજિક સેવાના અગ્રણીઓ, વૈજ્ઞાનિકો, સ્વાસ્થ્યકર્મીઓ સેનાનીઓ વિગેરેના માર્ગદર્શન પ્રદર્શિત કરી તેમના યોગદાન અને સહયોગનો સમજ આપી હતી. કાર્યક્રમમાં બાળકોને પોતાના સ્વપ્ન વિશે લેખનસ્પર્ધામાં ઉત્સાહભરે ભાગ લીધો હતો. કોરોનાની ગર્હસ્તરકાળે મુજબ બાળકોને સામાજિક અંતર અને માનક પહેરી ઉજવણીમાં જોડાયા હતા.

# મુજસાતસિંહ આસપાસ ઓપાસ

મુજસાતસિંહ ૨૮ માર્ચ, ૨૦૨૨

## લગ્ન જિલ્લામાં ભૂતકાળમાં લખાવાયા નામે જાણીતું અને આજનું વિકાસ લાણી આગળ ધપતું ગામ

# લખીગામ

### લખીગામની મહિલા સશક્તિકરણની અમુલ્ય મિસાલ 'લાખેણું' અમુલ પાર્લર

અમુલ પાર્લરની મહિલા સશક્તિકરણની અમુલ્ય મિસાલ 'લાખેણું' અમુલ પાર્લર

# Dhabkar, Surat, 4th Mar 2022

## મહિલા સશક્તિકરણ અદાણી ફાઉન્ડેશન દ્વારા

અદાણી ફાઉન્ડેશન-દહેજ એકમ દ્વારા વાગરા તાલુકાની ૧૪ પ્રાથમિક શાળાઓમાં બાલિકા દિવસ ઉજવાયો હતો.

# જોવંશ અને પશુધન સંવર્ધન પ્રોજેક્ટ યકી પશુપાલનમાં આત્મનિર્ભર બનવાનું સપનું સાકાર કરતા ભરૂચના વાગરા તાલુકાના વેગણી ગામના પશુપાલક

પશુપાલક બળવતસિંહના ઘરે કૃત્રિમ બીજધનથી દુગણી ગાયોની સંચાલના વધારો થતાં દુધ ઉત્પાદનથી યતી નાણાકીય આવકમાં વધારો થયો

પશુધન સંવર્ધન પ્રોજેક્ટ મારા માટે કમઘેલું સમાન નીવડયું: મારી આવક વધતા ગુવનદોરણ પણ સુધર્યું: પશુપાલક બળવતસિંહ

સુરત: પ્રાંતમાંથી ભારતનું જનનપોરકાળે જિંદગી લાવવા વાગરા તાલુકાના વેગણી ગામના પશુપાલક બળવતસિંહના ઘરે કૃત્રિમ બીજધનથી દુગણી ગાયોની સંચાલના વધારો થતાં દુધ ઉત્પાદનથી યતી નાણાકીય આવકમાં વધારો થયો.

પશુધન સંવર્ધન પ્રોજેક્ટ મારા માટે કમઘેલું સમાન નીવડયું: મારી આવક વધતા ગુવનદોરણ પણ સુધર્યું: પશુપાલક બળવતસિંહ



પરિશી,  
અદાણી કાઉન્સિલ,

424 卷二,

આભાર સહ

સાદરાસાથે  
મુખ્ય શિક્ષક ઈ. ૨૧)  
પ્રાથમિક કેન્દ્ર સાળા, દોજ,  
તા. વાવસા, જિ. બરુચ





**MAHADEV**  
**MAHILA SAKHI MANDAL**  
Products : Vermicompost Manure, Organic Pesticides  
At Luvara, Po. Lakhigam, Ta. Vagra, Dist. Bharuch-392130

Ref. No. :

Date : 20.3.22

શ્રી પ્રભાત સીપ્પેસપ ડિ.  
અમદાવાદ કોલેજ  
દહેજ

ભાષણ : અમદાવાદ કોલેજના ભવ્ય વી નીચે જણાવેલ  
અરોગ્ય ઔષધ અંગે છે. તે બદલ આભાર પત્ર

અધિકાર માન્ય સંસ્થાવાળું કે આમણું યુગ સફાઈ  
મણીને સમીક્ષણ અમદાવાદ કોલેજના કો. માળા, સુધાર અને  
સંકુલની રચના વાળેલ છે. તેમનાં ઔષધ પ્રમાણ અને વેનિક્સપોર  
પ્રમાણ બતાવવાની અરજી કરી છે. તમારું આભારી દિવસ  
ને માન તમારું પ્રમાણે જાહેરવાળ આમણું યુગ ને જોડેલ છે  
આમ ૧૨૦૦૫ નો લેડ કોલે પદ આપેલ છે

- ૧) લેડકોલે : ૧૫ નંગ
- ૨) લેડકોલે : ૨૩ નંગ
- ૩) વળક કોલે : ૦૧ નંગ
- ૪) કોલે સીપ્પેસપ : ૦૧ નંગ
- ૫) લેડકોલે : ૧૨ નંગ

પ્રમાણે જણાવેલ જાહેરવાળ આમણું યુગ ને  
આમણું બદલ અમદાવાદ કોલેજના કો. સુધાર અને વેનિક્સપોર

અધિકાર માન્ય સંસ્થા  
સુધાર

પ્રમાણ  
અધિકાર માન્ય સંસ્થા, સુધાર  
અમારું આભાર પત્ર  
દહેજ

મંત્રી  
અધિકાર માન્ય સંસ્થા, સુધાર  
ગરિબા પત્ર

શ્રી વિદ્યુતચેત

અટાલી વિભાગ પ્રગતિ મંડળ  
સંચાલિત



**આશ્રમ શાળા અટાલી**

મુ.પો. અટાલી, તા. વાગરા, જિ. ભરૂચ. મો. ૯૮૭૯૩ ૮૮૧૬૩

તા. ૨૪.૨.૨૦૨૨

પ્રાંત,

શ્રી. એસ. આર. હેડ

અમદાવાદ કોલેજ,

દહેજ.

વિષય - એલ.ઈ.ડી. રી.વ. કોલેજના મળવા બાબત

અધિકાર ઉપરોક્ત વિષયના અનુસંધાને -

૧. આમણું કે અત્રેના અટાલી વિભાગ પ્રગતિ મંડળ, અટાલી  
સંચાલિત આશ્રમશાળા અટાલી, તા. વાગરા, જિ. ભરૂચ માં  
અમારું કંપની લાકુશ એલ.ઈ.ડી. રી.વ. કોલેજના કો. ઉપર  
એસોસિયેટ બી.પી.યુ. લેમજ મુ.પો. એસ. હેડના મળેલ છે.  
લેમજ રોપકલાસ કોફરેટર ઈન્સ્ટ્રક્શન (કો. ૧ થી ૫)  
ઉપરના આપેલ છે.

લિ,

અધિકાર

આશ્રમશાળા અટાલી  
તા. વાગરા, જિ. ભરૂચ





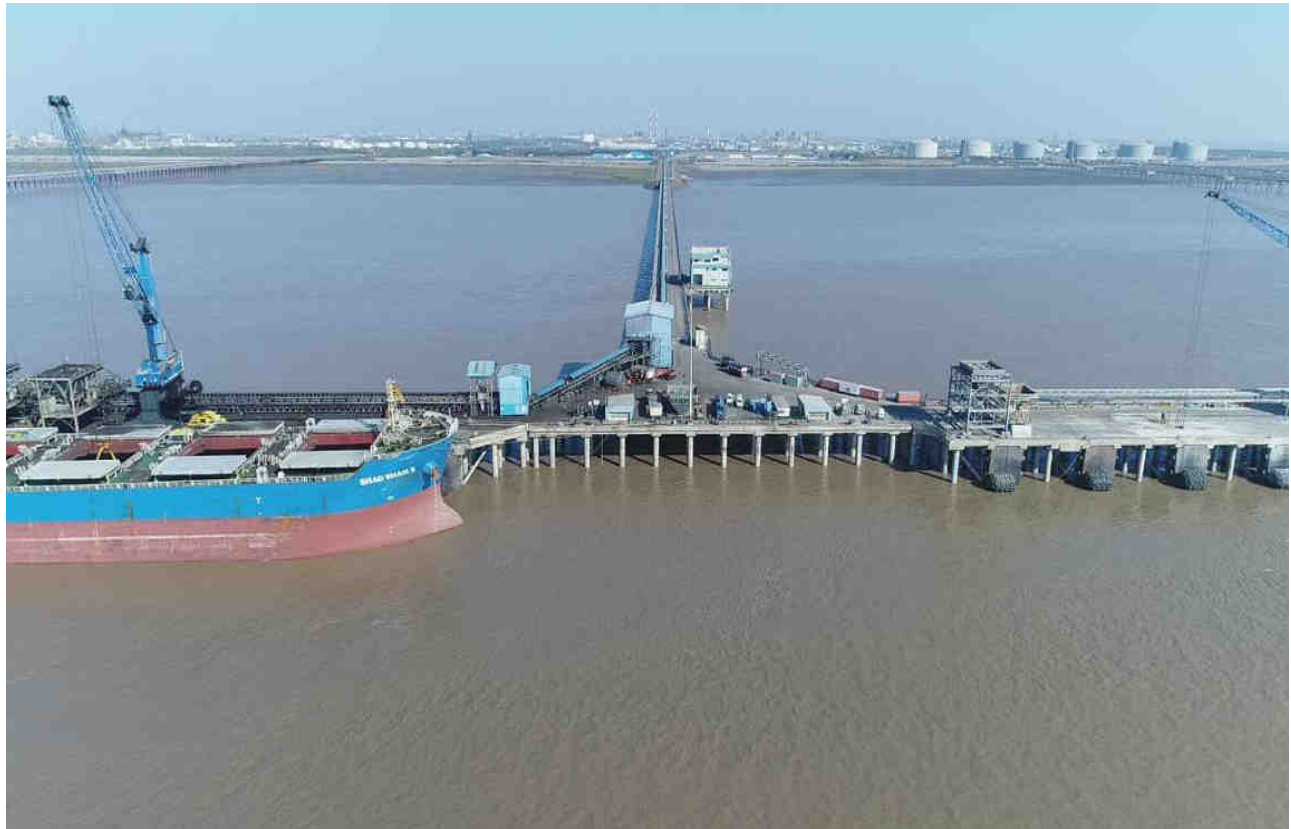
## GLIMPSES OF COO SIR's Visit





BENEFICIARIES FY 2021 -22				
S.N	Description	No. of Beneficiaries	No. of Indirect Beneficiaries	Remarks
I	<b>Education initiatives</b>			
	Project Utthan	3085	14035	14 schools of Project Utthan
	i. Volleyball Tournament for Girls & Boys	42	0	3 teams of 3 High Schools participated
	ii. Volleyball Tournament for Girls & Boys	168	0	12 teams of 12 Primary Schools participated
II	<b>Community Health Initiatives</b>			
	Project Swasthya Apne Hatho Me	3670	14680	A project on awareness, screening & treatment of Lifestyle Diseases
	Vehicle Support in Pulse Polio Campaign	2417	9668	Vehicle provided to CHC, Vagra team for immunization on time
III	<b>Sustainable Livelihood Initiatives</b>			
	Pashudhan Program	2984	32672	Livestock management program
	Project Annapurna	91	0	
	Integrated Model Suva	60	225	Integrated model of agriculture, animal husbandry & skill development
	Skill Development Support	10	250	Skill development training, material support to Shiv Shakti Sakhi Mandal, Jageshwar
	Community Engagement			
	Lakhigam Cricket Tournament	360	0	30 teams participated
	i. Covid support	100	2000	Oxygen concentrators to 5 CHCs of Bhauch district
	iii. Women's Day celebration	298	1192	Sports tournament for women & gender workshop
	SHG Formation/Women Empowerment	33	2185	Training & material support
IV	<b>Community Infrastructure Development</b>	7720	6601	





**Sh. Jagdish Patel**

**Chief Operating Officer, APDPPL**

**Ms. Usha Mishra**

**Unit CSR Head, AF**

**Mr. Yogesh Meghpara**

**Project Officer, AF**

**Mr. Sunil Gamit**

**Project Officer, AF**

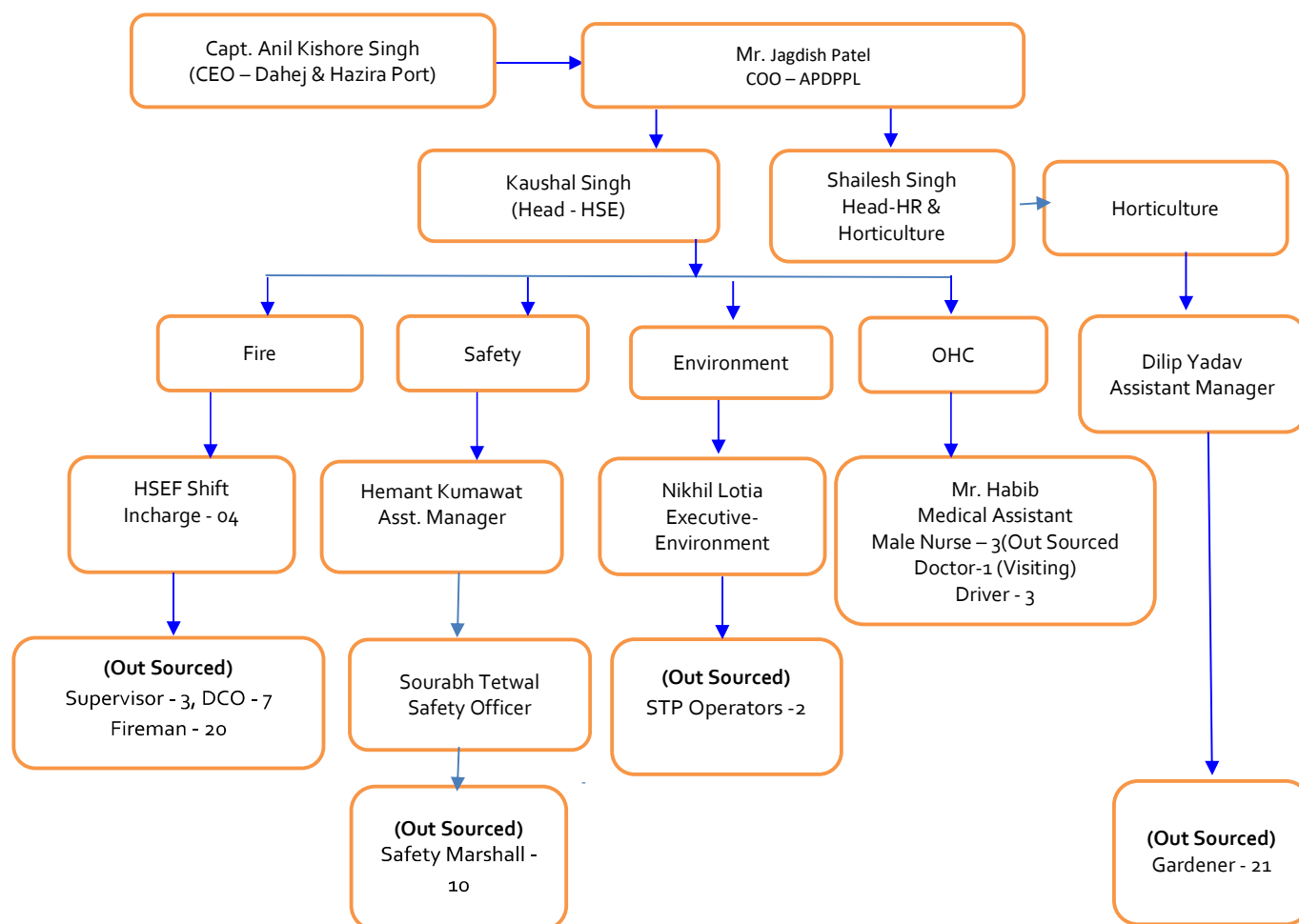
Adani Foundation  
7<sup>th</sup> Floor, Adani Corporate House II  
Adani Shantigram Township  
Near Vaishnodevi Circle  
SG Highway, Ahmedabad  
Ahmedabad – 382421 (Gujarat)  
[www.adanifoundation.org](http://www.adanifoundation.org)

Adani Petronet (Dahej) Port Pvt. Ltd  
PO Lakhigam Taluka: Vagra via Dahej  
Bharuch 392130  
[www.adanifoundation.org](http://www.adanifoundation.org)

## Annexure - 9: Organogram of APDPPL - Environment Management Cell

### ADANI PETRONET (DAHEJ) PORT PVT. 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	15 Years
2.	Dilip Yadav	Assistant Manager (Horticulture)	B. Tech Agriculture Science	14 Years
3.	Hemant Kumawat	Asst. Manager	Dip – Mech, Dip. In Fire & Safety, NEBOSH	13 Years
4.	Nikhil Lotia	Executive- (Environment)	B.E. Environment	7 Years

**Annexure – 6: Environment Budget and Expenditure for the FY: 2021-22**

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2019-2020	2020- 2021	2021-2022	2021-2022
1.	EHS Manpower	6.85	6.85	5.5	7.0
2.	Legal & Statutory Expenses	0.20	7.16	1.12	5.0
3.	Environmental Monitoring Services	20.28	16.52	14.71	16.0
4.	Cost for Water Consumption and use dust suppression	71.69	46.08	84.62	114.97
5.	Hazardous Waste Management & Disposal	2.12	2.72	1.32	2.0
6.	Greenbelt Development and Plantation	40.0	44.00	38.0	36.19
7.	O&M of Sewage Treatment Plant	6.70	6.77	5.99	5.58
8.	Environment Day Celebration	0.50	0.10	0.36	-
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	1.92	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	35.95	49.83	61.68	73.70
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	65.62	59.70	99.04	87.66
12.	Environmental Study / Audit and Consultancy	9.18	3.07	0.54	2.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	13.57	6.78	4.07	4.0
14.	Environment Display Board	5.00	5.36	0.39	1.0
15.	Implementation of Single Use Plastic (SUP) Protocol	-	-	-	0.50
16.	Water Audit	-	-	-	7.0
17.	Biodiversity Study	-	-	-	5.0
18.	Zero Waste to Landfill Certification	-	-	-	5.0
<b>Total Amount (In Lacs)</b>		<b>279.58</b>	<b>256.86</b>	<b>319.26</b>	<b>374.6</b>



**Adani Petronet Dahej Port Pvt. Ltd., Dahej**  
**Green Zone details**

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)	PMC office area Landscape	0.45	500	Delonix regia				Implimented
			0.23	250	cassia simia				
			0.20	450	Coconut spp.				
			0.10		Shrub	1000			
			0.15		Lawn		1500		
		0.020		Palm			50		
		Back side lakhibaba temple &Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia				Implimented
Back side lakhibaba temple &Boundry site plantation (phase -1 a )	0.27	600	Casurina Equisitifolia						
Total			1.81	3100.00		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	3.75	1500	Peltofouram				Implimented
			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			6.34	4375.00		3450.00	2500.00	0.00	
7	68 (g)	Railway yard area Phase 1	1.13	5000	Casurina Equisitifolia				Implimented
			1.13	5000	Casurina Equisitifolia				
			0.15	255	Conocarpus				
			0.08		Palm			200	Implimented
Total			2.48	10255.00		0.00	0.00	200.00	
8	68 (h)	Permenant Godown area	0.44	1680	Shrubs and forest tree plantation				
			0.15		Srub	1500			
			0.21		Lawn		2100		
			0.06		Palm			150	
		Coal Yard Area	1.23	3086	Conocarpus /Casurina				
			0.12		Lawn	1200			
		Perifery road side	0.72	3200	eucalyptus /conocarpus				
			0.05		Shrub		500		
		0.24		Palm			150		
0.72	800	Peltofouram /Azardirecta indica/ Conocarpus/ Palm							
Total			3.94	8766.00		2700.00	2600.00	300.00	
Total Green Zone Area			22.86	46246.00		11150.00	14800.00	950.00	