



Ports and  
Logistics

**Letter No.: APDPL-EHS/MOEF RO/EC Comp (III)/2023/01**

**Date: 18.05.2023**

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 2022 to March 2023.

**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 2022 to March 2023.

Thanking you,

Yours Faithfully,

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

(Authorized Signatory)

**Copy to:**

1. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
2. The Director, Forest and Environment Department, Block-14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar, Gujarat-382 010.
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010 (Gujarat)
5. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Limited  
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Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
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**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 2022 TO MARCH 2023)**

**BY**

**ADANI PETRONET (DAHEJ) PORT LTD.  
(FORMERLY ADANI PERTRONET DAHEJ PORT PVT. LTD.)  
VILLAGE: LAKHIGAM, TALUKA: VAGRA,  
DISTRICT: BHARUCH, GUJARAT- 392130**

	<b>ADANI PETRONET (DAHEJ) PORT LTD.</b>	<b>From: October 2022</b> <b>To : March 2023</b>
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#### 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
3	Name change letter from Certificate of Incorporation.
4	Name change Application submitted to MOEF&CC for Phase III with proposal no. IA/GJ/INFRA1/424584 dated 05.04.2023 is under scrutiny.
5	Project status like developed so far and yet to be developed as we submitted in name change application is given below.

**FACILITIES/ PROJECT COMPONENTS DEVELOPED AND TO BE DEVELOPED WITHIN**

**ADANI PETROENT DAHEJ PORT LIMITED, Dahej**

<b>Facilities / Project Components approved as per EC&amp;CRZ Clearance and CTE</b>	<b>Capacity</b>	<b>Facilities / Project Components developed / In Operation As per CC&amp;A</b>	<b>Remaining facilities / Project Components to be developed as approved in EC &amp; CTE</b>
Expansion of cargo handling capacity from 11.7 MMTPA to 23 MMTPA.	23 MMTPA	APDPL has been granted Consent to Operate (CC&A) from State Pollution Control Board for cargo handling capacity @ 1.34 MT/Month (16 MMTPA). APDPL is handling cargo within consented limit only.	Expansion of remaining cargo handling will be constructed/developed as per the business requirement.
Reclamation to the tune of 23 Ha Contiguous lands to the existing back-up area to store and handle multipurpose cargo.	23 Ha.	Out of approved 23 Ha., 16.0 Ha. Area was reclaimed and developed.	Remaining 7 Ha. will be reclaimed and developed as per the business requirement.
Optimal utilization of existing back-up area for coal storage and handling of other designated cargo. Additional coal stockpile to be developed for storage of 1.1 million Tonnes.	--	Entire area is developed and additional coal stockpile has been developed for storage of 1.1 million Tonnes.	None.
Widening of existing 15 m wide rubble bund to 60 m wide to handle project cargo (i.e. ODC).	--	Widening of existing 15 m wide rubble bund to 60 m wide has been done to handle project cargo.	None.
Existing Ramp being used for port crafts and tugs will be strengthened to handle project / cargo.	--	Existing Ramp used for port crafts and has been strengthened to handle project / cargo.	None.
Mechanization of south jetty to handle coal cargo.	--	None.	Mechanization of south jetty to handle coal cargo will be done as per requirement in future.
Rail loading silo and other supporting infrastructure facilities.	--	Rail loading silo and other supporting infrastructure facilities has been developed.	None.



	<b>ADANI PETRONET (DAHEJ) PORT LTD.</b>	<b>From: October, 2022</b> <b>To : March, 2023</b>
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#### **List of Annexure**

<b>Annexure 1</b>	:	CTE 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 2022 to March 2023
<b>Annexure 6</b>	:	Environment Management Cell
<b>Annexure 7</b>	:	Environmental Budget & Expenditure for FY 2022-2023
<b>Annexure 8</b>	:	Green Belt development plan FY 22-23.
<b>Annexure 9</b>	:	Bioshield Project Report.
<b>Annexure 10</b>	:	COI Certificate for name change letter from APDPPL to APDPL

	<b>ADANI PETRONET (DAHEJ) PORT LTD.</b>	<b>From: October, 2022</b> <b>To : March, 2023</b>
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<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>Compliance Status as on 31.03.2023</b>
(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 CTE amendment 71696 dated 08/09/2015 & its amendment AWH 111311 dated 22.02.2021, valid up to 07.07.2023. Attached in <b>Annexure 1</b> . Name change letter from Adani Petronet (Dahej) Port Pvt. Ltd. To Adani Petronet (Dahej) Port Ltd. Grant from GPCB is attached as <b>Annexure 1A</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 shoreline 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 indicate 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	<b>Complied.</b> All the commitments made during the public hearing have been complied with. An action taken report is enclosed as

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

Sr. no.	Conditions	Compliance Status as on 31.03.2023
	letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	<b>Annexure 2.</b>
(vii)	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>All conditions stipulated in the EC and CRZ clearances are being complied with. A separate six-monthly compliance report is being submitted to MoEF&amp;CC and other authorities.</li> <li>All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied.</li> <li>APDPL 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 21.03.2023. Last revision in the DMP was done on 01.07.2022.</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.	<b>Being Complied</b> <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.	<b>Being Complied</b> <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>APDPL 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 stockpile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stock piles. An amount of 58 crore is spent by APDPL in erecting and marinating the wind breaking wall around the coal yard.</p> <ul style="list-style-type: none"> <li>APDPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for</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	Compliance Status as on 31.03.2023
		<p>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>• APDPL 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 24.04 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 conveyor 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 APDPL.</p> <p><b>Road cleaning by sweeping machine:</b> APDPL, have 02 nos. of large capacity road sweeping machine and one tractor sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal.</p> <p><b>Manual Road Cleaning:</b> In addition to the sweeping machine APDPL 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. Regular water sprinkling is carried out by two mobile water tankers.</p>
(xii)	The mangrove plantation of 50 ha shall be undertaken 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> <ol style="list-style-type: none"> <li>1. 100 ha near village Dandi, Dist Surat– 2011</li> <li>2. 50 ha near village Jakhau, Dist Kutch – 2011</li> <li>3. 50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>4. 200 ha near Malpur,</li> </ol>

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

Sr. no.	Conditions	Compliance Status as on 31.03.2023						
		<p>Ta. Jambusar – 2013-14 (Done as compliance to Phase –I &amp; II EC &amp;CRZ clearance)</p> <p>5. 50 ha Devjagan/Nada</p> <p>Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &amp;CRZ clearance)</p> <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 APDPL, cargo is handled through conveyor system. Material handling system is equipped with Dry Fog Dust Suppression System. Coal storage yard is equipped with dust suppression system.</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 only.</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 Environment (Protection) Act, 1986.	<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> <table border="1"> <tr> <td>Capacity</td><td>Quantity of Wastewater (Avg. from October, 2022 to March, 2023)</td><td>Type of STP</td></tr> <tr> <td>80KLD</td><td>19.25 KLD</td><td>MBR</td></tr> </table> <p>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</p>	Capacity	Quantity of Wastewater (Avg. from October, 2022 to March, 2023)	Type of STP	80KLD	19.25 KLD	MBR
Capacity	Quantity of Wastewater (Avg. from October, 2022 to March, 2023)	Type of STP						
80KLD	19.25 KLD	MBR						

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

Sr. no.	Conditions	Compliance Status as on 31.03.2023																														
		<p>STP treated water analysis results during compliance period from October 2022 to March 2023 as mentioned below.</p> <table><tr><th>Parameters</th><th>Unit</th><th>Min</th><th>Max</th><th>Perm. Limit</th></tr><tr><td>PH</td><td>-</td><td>6.92</td><td>8.23</td><td>6.5- 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>8</td><td>13</td><td>30</td></tr><tr><td>BOD (3 Days @ 27 °C</td><td>mg/L</td><td>3</td><td>11</td><td>20</td></tr><tr><td>Residual Free Chlorine</td><td>mg/L</td><td>0.8</td><td>0.8</td><td>0.5(Min)</td></tr><tr><td>Oil &amp; Grease</td><td>mg/L</td><td>2.2</td><td>4.0</td><td>-</td></tr></table> <p>The cost for Environment Monitoring for FY 22-23 is <b>14.71 lacs.</b></p>	Parameters	Unit	Min	Max	Perm. Limit	PH	-	6.92	8.23	6.5- 8.5	TSS	mg/L	8	13	30	BOD (3 Days @ 27 °C	mg/L	3	11	20	Residual Free Chlorine	mg/L	0.8	0.8	0.5(Min)	Oil & Grease	mg/L	2.2	4.0	-
Parameters	Unit	Min	Max	Perm. Limit																												
PH	-	6.92	8.23	6.5- 8.5																												
TSS	mg/L	8	13	30																												
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Residual Free Chlorine	mg/L	0.8	0.8	0.5(Min)																												
Oil & Grease	mg/L	2.2	4.0	-																												
(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.	<p><b>Complied.</b></p> <p>There is no liquid effluent generation during construction and operation of project. Separate storm water drain network has been provided. Domestic effluent is being transported from generation point to STP in close type Gully Men vehicle. Dedicated Hazardous waste storage area has been provided for collection and storage of Hazardous waste. Dump Pond is constructed to collect the coal wash water from yards &amp; reuse it for washing.</p>																														
(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.	<p><b>Complied.</b></p> <p>Marine ecology is being monitored through NABL accredited &amp; MoEF&amp;CC recognized laboratory M/s Pollucon Laboratories, Surat &amp; M/s. Kadam Environment Consultant. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2022 to March 2023 are enclosed as <b>Annexure 3C and 3D.</b></p>																														
(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.	<p><b>Being Complied</b></p> <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 &amp; M/s. Kadam environment Consultant. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2022 to March 2023 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.	<p><b>Complied.</b></p> <p>Marine ecology is being monitored through M/s Pollucon Laboratories &amp; M/s. Kadam Environment Consultant, a NABL accredited and MoEF&amp;CC recognised laboratory. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2022 to March 2023 are enclosed as <b>Annexure 3C and 3D.</b></p>																														
(xxi)	Measures should be taken to contain, control and recover the	Complied.																														

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

Sr. no.	Conditions	Compliance Status as on 31.03.2023
	accidental spills of fuel and cargo handle.	<ul style="list-style-type: none"> <li>Oil Spill Contingency plan is prepared and resubmitted Tier 1 OSR Facility Dahej port Terminals on dated 15.09.2022.</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>Oil Spill Contingency plan is prepared and resubmitted 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>Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012.</li> <li>APDPL 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 21.03.2023. Last revision in the DMP was done on 01.07.2022.</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.	<p><b>Being Complied</b></p> <p>All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied.</p>
(xxiii)	Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/ disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period.	<p><b>Being Complied</b></p> <p>There is no discharge of oily bilge waste or ballast water in the sea within port limit. APDPL is not accepting any kind of Hazardous Waste from ships/vessels.</p>
(xxiv)	Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.	<p><b>Complied.</b></p> <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 &amp; M/s. Kadam Environment Consultant, 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>

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

Sr. no.	Conditions	Compliance Status as on 31.03.2023
(xxv)	All the mechanized handling systems and other associated equipment's such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.	<b>Being Complied</b> <ul style="list-style-type: none"> <li>APDPL 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>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.	<b>Complied.</b> APDPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.
(xxvii)	The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	<b>Complied.</b> <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 2022 to March 2023 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.	<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>
(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.	<b>Complied.</b> There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.
(xxx)	The Project Proponent shall take up and earmark adequate fund for socio- economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	<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 for the period of October 2022 to March 2023 is attached as <b>Annexure – 5</b> .
(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	<b>Complied.</b> APDPL has a well-structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 6</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	Compliance Status as on 31.03.2023
	Executive.	
(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 2022-23 was approx. Rs. 359.16 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –7.</b></li> </ul>
(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.	<p><b>Being Complied</b></p> <p>All the recommendations and suggestions given by NIO; M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as <b>Annexure – 4.</b></p>
(xxxiv)	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system, measures to be taken for protection. One set of environmental manual shall be made available at the project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>APDPL has prepared operating manual for all activities and is certified for ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007 &amp; ISO 27001:2013.</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</li> </ol>	<p><b>Being Complied</b></p> <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>APDPL 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>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>Compliance Status as on 31.03.2023</b>																					
	Board of Directors of the company and/or shareholders or stakeholders at large.																						
<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 & M/s. Kadam Environment Consultants, a NABL accredited and MoEF&CC recognised laboratory. Copies of reports 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>APDPL 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 APDPL full support is extended and APDPL 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 17.03.2023.</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> APDPL 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. <ul style="list-style-type: none"> <li>Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (III)/2022/01 dated 01.12.2022 in soft copy via mail dated 01.12.2022. It is also uploaded in our website: <a href="http://www.adaniports.com">www.adaniports.com</a> Please refer below for the details regarding past 6 compliance submissions.</li> </ul> <table border="1"> <thead> <tr> <th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Oct'19 to Mar'20</td><td>20.05.2020</td></tr> <tr> <td>2</td><td>Apr'20 to Sep'20</td><td>25.11.2020</td></tr> <tr> <td>3</td><td>Oct' 20 to Mar' 21</td><td>25.05.2021</td></tr> <tr> <td>4</td><td>April '21 to Sep. '21</td><td>29.11.2021</td></tr> <tr> <td>5</td><td>Oct'21 to Mar'22</td><td>27.05.2022</td></tr> <tr> <td>6</td><td>April '22 to Sep. '22</td><td>01.12.2022</td></tr> </tbody> </table>	S. No	Compliance Period	Date of Submission	1	Oct'19 to Mar'20	20.05.2020	2	Apr'20 to Sep'20	25.11.2020	3	Oct' 20 to Mar' 21	25.05.2021	4	April '21 to Sep. '21	29.11.2021	5	Oct'21 to Mar'22	27.05.2022	6	April '22 to Sep. '22	01.12.2022
S. No	Compliance Period	Date of Submission																					
1	Oct'19 to Mar'20	20.05.2020																					
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5	Oct'21 to Mar'22	27.05.2022																					
6	April '22 to Sep. '22	01.12.2022																					
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	<b>Noted &amp; Agreed.</b>																					

<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>Compliance Status as on 31.03.2023</b>
	revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	
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 to Establish was obtained from Gujarat Pollution Control Board vide no CTE amendment 71696 dated 08/09/2015 &amp; its amendment AWH 111311 dated 22.02.2021, valid up to 07.07.2023. Attached in <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-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, APDPL 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.	<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 31.12.2025 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</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	Compliance Status as on 31.03.2023
	shall be obtained, as applicable by project proponents from the respective competent authorities.	<p>further change.</p> <ul style="list-style-type: none"> <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.	<p><b>Complied</b></p> <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 2004 as may be applicable to this project.	<b>Noted.</b>
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<p><b>Complied.</b></p> <p>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></p>
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.	<b>Noted.</b>
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	<p><b>Complied</b></p> <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</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	Compliance Status as on 31.03.2023
	processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	also available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a>
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.	<p><b>Complied</b></p> <p>Compliance report of EC conditions is uploaded regularly &amp; Same is being regularly submitted to concerned authorities.</p> <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.	<p><b>Complied</b></p> <ul style="list-style-type: none"> <li>• Environment statement regularly being submitted to Gujarat Pollution Control Board. Last statement was submitted dated 27.05.2022. Copy of environment statement is also available on company website i.e., <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, CPCB &amp; DoEF on 27.05.2022.</li> </ul>

**ADANI PETRONET (DAHEJ) PORT LTD.****From: October, 2022****To : March, 2023****Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III**

<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
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> Re-routing of the pipeline of GACL has been completed and all expenditure has been borne by APDPPL.
4	The APDPPL shall not construct any storage facilities for material/chemicals in the CRZ area except for those permissible as per Annexure – II of the CRZ Notification -2011. Also for other Hazardous chemical, outside CRZ areas, the APDPPL shall have to consult SDMA for Disaster Management Plan.	<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 21.03.2023. Last revision in the DMP was done on 01.07.2022.</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> There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.
7	All the recommendation and suggestions given by Cholamanadalam MS Risk Services Limited, Chennai in their Environment Impact Assessment reports for conservation / protection and betterment of environment shall be implemented strictly by M/s APDPPL.	<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 immediately after the	<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 the</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>
	construction is over.	approval received.
10	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	<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.	<ul style="list-style-type: none"> <li>Oil Spill Contingency plan is prepared and resubmitted Tier 1OSR Facility Dahej port Terminals on dated 15.09.2022.</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>Oil Spill Contingency plan is prepared and resubmitted 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>Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012.</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 21.03.2023. Last revision in the DMP was done on 01.07.2022.</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 has been met through GIDC water supply.

<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>
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 24.04 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 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.	<b>Complied.</b> Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). And additional 50 Ha for Phase –III. Details of the same are given below. 5. 100 ha near village Dandi, Dist Surat– 2011 6. 50 ha near village Jakhau, Dist Kutch – 2011 7. 50 ha near Padri bit, Dist Bhavnagar – 2011 8. 200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I & II EC &CRZ clearance) 5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &CRZ clearance) Reports of 400 Ha Mangrove afforestation (Developed in Phase I & II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 The mangrove plantation (Phase –III) of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 29/05/2019.
17	The APDPPL shall have to take up bio-shielding development programme in consultation with the Forests Department/ PCCF and an action plan in this regard shall have to be submitted to the MoEF&CC – GOI and this department.	<b>Complied</b> Completion Report is received from M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report is attached as <b>Annexure - 9</b> .
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.	<b>Complied.</b> 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 2022 to March 2023 is attached as <b>Annexure – 5</b> .
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove	<b>Complied.</b> Separate budget is allocated for Environmental Management. Key components of environment budget



Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III																								
Sr. no.	Conditions	Status/Action taken																						
	plantation and details thereof shall be furnished to this department as well as the MoEF&CC, GOI. The details with respect to the expenditure from this budget head shall also be furnished alongwith the compliance report.	are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 359.16 lacs. Details of the environmental budget and expenditures for the past 3 years is enclosed as <b>Annexure –7.</b>																						
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	<b>Complied.</b> APDPL has a well-structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 6.</b>																						
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.	<b>Being Complied</b> The quality of ambient air treated wastewater from STP, sea water and sediment, ground water and noise levels is being monitored through M/s. Pollucon Laboratories, a NABL accredited agency.  Ambient Air quality monitoring (twice in a week) and Noise level (once in a month) monitoring are being carried out. Summary of ambient air monitoring during compliance period form October 2022 to March 2023 as attached as <b>Annexure 3A &amp; 3G.</b>  The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise monitoring results during compliance period form October 2022 to March 2023 as attached as <b>Annexure 3G.</b>  Piezometer's analysis results during compliance period form October 2022 to March 2023 as attached as <b>Annexure 3B.</b>  Report confirms that there is no significant change in the quality in comparison to base line (wherever available)																						
22	A six-monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s APDPPL on a regular basis to this Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	<b>Complying with.</b> <table><tr><th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr><tr><td>1</td><td>Oct'19 to Mar'20</td><td>20.05.2020</td></tr><tr><td>2</td><td>Apr'20 to Sep'20</td><td>25.11.2020</td></tr><tr><td>3</td><td>Oct' 20 to Mar' 21</td><td>25.05.2021</td></tr><tr><td>4</td><td>April '21 to Sep. '21</td><td>29.11.2021</td></tr><tr><td>5</td><td>Oct'21 to Mar'22</td><td>27.05.2022</td></tr><tr><td>6</td><td>April '22 to Sep. '22</td><td>01.12.2022</td></tr></table> <ul style="list-style-type: none"><li>APDPL is regularly submitting six monthly compliance reports, which comprises of compliance to the conditions stipulated in</li></ul>		S. No	Compliance Period	Date of Submission	1	Oct'19 to Mar'20	20.05.2020	2	Apr'20 to Sep'20	25.11.2020	3	Oct' 20 to Mar' 21	25.05.2021	4	April '21 to Sep. '21	29.11.2021	5	Oct'21 to Mar'22	27.05.2022	6	April '22 to Sep. '22	01.12.2022
S. No	Compliance Period	Date of Submission																						
1	Oct'19 to Mar'20	20.05.2020																						
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3	Oct' 20 to Mar' 21	25.05.2021																						
4	April '21 to Sep. '21	29.11.2021																						
5	Oct'21 to Mar'22	27.05.2022																						
6	April '22 to Sep. '22	01.12.2022																						

Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III		
Sr. no.	Conditions	Status/Action taken
		<p>Environment and CRZ clearance, environment monitoring reports, status of EMP etc.</p> <ul style="list-style-type: none"> <li>• Last compliance report was submitted vide letter no. APDPPL-EHS/MOEF RO/EC Comp (III)/2022/01 dated 01.12.2022 in soft copy via mail dated 01.12.2022. Please refer below for the details regarding past 10 compliance submissions.</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

Consent to Establish (NOC)

(CTE Amendment - 71696)

NO: GPCB/BRCH-B/CCA-06(6)/ID-31664/

/Date /09/2015.

TO,  
M/s ADANI PETRONET (DAHEJ) PORT PVT LTD  
LAKHIGAM-392130,  
TAL-VAGRA,  
DIST-BHARUCH.

SUB:- **Consent to Establish (CTE)** under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF:- (1) Your earlier CTE issued vide letter no: **GPCB/BRCH/NOC-2528/80108 dated 31/03/2006.**

(2) Your application Inward ID No.90213, dated.27/03/2015.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants Consent to Establish (CTE) for expansion of port for cargo handling from 11.7 MMTPA to 23 MMTPA along with reclamation of 23 Ha backup area and widening of existing rock bund area from 15m to 60m width to handle over dimension cargo, Mechanized transfer facility from the second berth of the jetty, Proposed silo of 4000 MT capacity at the existing railway siding at ADANI PETRONET (DAHEJ) PORT PVT LTD, LAKHIGAM-392130, TAL-VAGRA, DIST-BHARUCH.

The Validity period of the order will be Five years from date of issue. (i. e. up to dated 07/07/2020)

## 1. SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS.

- 1.1 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.
- 1.2 The applicant shall have to obtain CRZ permission from Department of Forests & Environment under The Coastal Regulation Zone Notification 1991.
- 1.3 Necessary Clearance for the adequacy of safety measures shall be obtained from concerned authorities.
- 1.4 The applicant shall obtain necessary permissions for acquisition of land for infrastructure Corridors (Rail & Road) from the concerned authorities.
- 1.5 On site - off site emergency plan & disaster management plan shall be prepared.
- 1.6 Application shall provide all required/adequate measures for controlling water pollution, air pollution and noise pollution resulting during construction phase & operation phase.
- 1.7 The applicant shall have to comply with the Manufacture .Storage and Import of Hazardous Chemicals Rule, 1989 framed under the Environment (Protection) Act-1986.

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Page 1 of 6



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- 1.8 Adequate provisions infrastructure facilities such as water supply, road, sanitations etc. should ensure so as 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.
- 1.9 The water quality parameters such as DO, Ammonical Nitrogen and other nutrients etc should be measures at regular intervals to ensure adherence to the prescribed standards of water qualities. Suitable ground water monitoring sold also be undertaken and report be submitted to GPCB.
- 1.10 Adequate culverts should be provided in civil structures in the inter tidal area to allow for free flow of water.
- 1.11 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.
- 1.12 Ground water extraction will not be allowed at any stage.
- 1.13 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.
- 1.14 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.
- 1.15 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.
- 1.16 Solid waste shall be disposed of at approved land fill site.
- 1.17 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.
- 1.18 All design, contraction & operation philosophy as specified in the comprehensive marine environmental impact assessment will be adhered to.
- 1.19 A specific oil spill response plan shall be prepared before commissioning of the project.

## **2. CONDITIONS UNDER WATER ACT:-**

- 2.1 The generation and disposal of the industrial effluent from the manufacturing process and other ancillary industrial operations shall be NIL.
- 2.2 The quantity of Sewage effluent from the factory shall not exceed 80 KL/Day.
- 2.3 The applicant shall provide adequate sewage treatment facilities in order to achieve the quality of the treated effluent.
- 2.4 Sewage shall be treated separately to conform to the following standards and utilized on land for irrigation / plantation purpose within premises only.

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

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

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

## 3. CONDITIONS UNDER THE AIR ACT:-

- 3.1 The following shall be used as fuel in D.G.sets.

Sr.No.	Fuel	Quantity
1.	Diesel	12500 Lit/Day.

- 3.2 The flue gas emission through stack attached to boiler/furnace/heater shall conform to the following standards.

Stack No.	Stack attached to	Stack height in meter	Parameter	Permissible limit
1.	DG set* 3000 KVA 4 nos. in phases.	11 ( for each DG set)	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm

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

- 3.3 There shall be no process emission from operation of / Jetty having facilities for Storage and Distribution of Cargo handling.
- 3.4 Ambient air quality within the premises of the industry shall conform to the following Standards:

PARAMETER	PERMISSIBLE LIMIT
Suspended Particulate Matter ( size less than 10µm) or PM10 µg/m <sup>3</sup> **	100 microgram per cubic meter
Suspended Particulate Matter ( size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup> **	60 microgram per cubic meter
Oxides Of Sulphur**	80 microgram per cubic meter
Oxides Of Nitrogen**	80 microgram per cubic meter
HCL	200 microgram per cubic meter
Cl <sub>2</sub>	100 microgram per cubic meter
H2S	500 microgram per cubic meter
HC	160 microgram per cubic meter
Ammonia	400 microgram per cubic meter
HF	60 microgram per cubic meter
CS <sub>2</sub>	2000 microgram per cubic meter
CO	5000 microgram per cubic meter

\*\* 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.

**Note:-** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

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- 3.5 The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.
- 3.6 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 in the conditions.
- 3.7 The applicant 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.
- 3.8 All measures for the control of environmental pollution shall be provided before commencing production.
- 3.9 The applicant shall install continuous /online monitoring system on the stacks for the parameters such as SO<sub>2</sub>, NO<sub>2</sub>, PM etc.

## **4. CONDITIONS UNDER HAZARDOUS WASTE:**

- 4.1 Applicant shall have to comply with provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rule-2008, for all the types/categories of the generating hazardous waste.

## **5. GENERAL CONDTIONS:**

- 5.1 Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.
- 5.2. Unit shall keep accurate records of their water consumption and wastewater generation, discharge, quantity of each product manufactured, and consumption of electricity on day-to-day basis and shall be required to submit the compiled record for each month to GPCB on or before seventh day of the succeeding month. Separate logbooks shall be maintained for recording all the necessary data.
- 5.3 Magnetic flow meters shall be installed at the various stages of inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.
- 5.4 SEZ - GIDC shall constitute a monitoring committee for monitoring of the effluent discharged by its members in the pipeline.
- 5.5 In case of power failure, separate stand-by D.G. set having power generation capacity equivalent to the requirement of power to run the APCM system shall be installed, so that it shall always be operated round the clock even in case of power failure also. The unit shall not keep any bypass line or system for stack emission.
- 5.6 Unit shall have only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Convenient easy approach shall be provided at the outlet for ease of sampling. The unit shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even within the effluent treatment plant. The unit shall not keep dual disposal modes.
- 5.7 Unit shall submit, to the GPCB, the site plan of the unit indicating the location of the effluent treatment plants, and also a separate plan indicating the channels / pipelines through which water / effluent passes from different stages of effluent treatment process right up to the stage of its final outlet. Such plan shall also be displayed by the unit on a Board of adequate size within its compound and near its effluent treatment plant.

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## **GUJARAT POLLUTION CONTROL BOARD**

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- 5.8 The company shall have to undertake and implement following measures:
- Water conservations measures to minimize the fresh water consumption. Metering system for water consumption.
  - Cleaner production options.
  - Reuse / recycle of trade waste, ground (rain) water recharging, electricity conservation.
  - Use of solar or wind energy for lighting / heating purpose.
  - Control of odour nuisance from the plant premises.
- 5.9 The company shall have to keep baseline quality data of land, water and air and shall be required to submit to GPCB with CTE / CCA applications.
- 5.10 The company shall carry out regular monitoring of ground water quality (including for all pesticides) within the premises as well as around the impervious guard ponds. Separate logbook shall be maintained. The data shall be submitted for each month to GPCB on or before 7<sup>th</sup> day of succeeding month, and shall also comply with the instructions of GPCB in case of deterioration if applicable.
- 5.11 Handling, manufacturing, storage and transport of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- 5.12 Transportation of effluent, solid waste or any other goods pertaining to treatment activities, shall be carried out as per central Motor Vehicle Rule-1989 & hazardous waste Management, Handling & Trans Boundary -Rule 2008..
- 5.13 The hazardous wastes shall be handled as per the Hazardous Waste (Management and Handling) Rules of the Environment (Protection) Act, 1986
- 5.14 On site and off site emergency plan as required under the Rules 13 & 14 of handling, manufacturing, storage and import of the Hazardous chemicals Rules, 1989 shall be prepared and approval from the Board shall be obtained.
- 5.15 Periodic medical checkup of the workers shall be done and records maintained as a measure to provide occupational health protection to the workers.
- 5.16 Unit shall provide state of the art composite samplers & set up testing laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel.
- 5.17 The Environmental Management Unit / Cell shall be setup to ensure implementation and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The Environmental Management Unit / Cell shall directly report to the Chief Executive of the organization and shall works as a focal point for internalizing environmental issues. These Cells /Units shall also coordinate the exercise of the environmental audit and preparation of the environmental statements.
- 5.18 The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitted to the GPCB latest by 30th September every year.
- 5.19 Storm water shall not be mixed with the industrial effluent. Disposal system for storm water shall be provided separately.
- 5.20 Good housekeeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.
- 5.21 The entire pipeline shall be protected from external corrosion/damage.

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- 5.22 Necessary clearances for the adequacy & safety measures shall be obtained from the concerned authority.
- 5.23 Unit shall comply with the provisions of all the laws of land including safety, disaster management and prevention of eco contamination.
- 5.24 The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
- 5.25 In case of change of ownership/management the name and address of the new owners/ partners/ directors/ proprietor shall immediately be intimated to the Board.
- 5.26 The applicant also comply with the General conditions as per Annexure - I attached herewith ( No.1 to 38 ) ( whichever applicable).
- 5.27 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 5.28 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 30 meters width is developed.
- 5.29 The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
- 5.30 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
- Between 6 A.M. and 10 P.M.: 75 dB(A)  
Between 10 P.M. and 6 A.M.: 70 dB(A)
- 5.31 All other conditions of CTE Order issued vide letter no: GPCB/BRCH/NOC-2528/80108 dated 31/03/2006 and subsequent amendments under the Provisions of the various Environmental Act/ Rules shall remain unchanged.
- 5.32 All other conditions of CCA order no. AWH-40224 issued vide letter no. GPCB/BRCH-B-CCA-06(2)/ID-31664/74826/dated 14/03/2011 under the Provisions of the various Environmental Act/ Rules shall remain unchanged till CCA-Amendment is obtained.

For and on behalf of  
Gujarat Pollution Control Board

*D. M. Thaker*  
8/9  
(D M Thaker)

Environmental Engineer

*Clean Gujarat Green Gujarat*

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# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

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Website : www.gpcb.gov.in

By R.P.A.D.

## Consent to Establish (NOC) - Amendment

CTE AMENDMENT NO: 111311

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

DT:\_\_\_/02/2021

TO,

✓ M/S ADANI PETRONET (DAHEJ) PORT PVT LTD,  
AT & PO - LAKHIGAM- 392130,  
TAL- VAGRA, DISTRICT- BHARUCH.

SUB:- Amendment to Consent to Establish (CTE validity extension letter) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF: - 1) Previously issued CTE vide letter No: GPCB/BRCH-B/CCA-06(6) ID- 31664/ 326835, dated 08/09/2015 under various Environmental Acts/Rules.  
2) Your CTE Amendment application ID no. 183932, dated 04/12/2020.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board has granted Consent to Establish (CTE) for cargo handling from 11.7 MMTPA to 23 MMTPA along with reclamation of 23 Ha backup area and widening of exiting rock bund area from 15m to 60m width to handle over dimension cargo, Mechanized transfer facility from the second berth of the jetty, Proposed silo of 4000 MT capacity at the existing railway siding at ADANI PETRONET (DAHEJ) PORT PVT LTD, LAKHIGAM, TAL-VAGRA, DIST-BHARUCH.

And whereas the Board has received your CTE Amendment application ID no. 183932, dated 04/12/2020 for the extension of validity of Consent to Establish (CTE) of this Board under the provisions / rules of the aforesaid Acts. Validity period of the Consent to Establish (CTE) is hereby amended as under subjected to amendment for the following conditions only:

1. The validity period of the order is extended for further three years i.e. up to 07/07/2023.
2. All other conditions of CTE issued vide letter no. GPCB/BRCH-B/CCA-06(6)/ ID- 31664/ 326835, dated 08/09/2015 under the Provisions of the various Environmental Act/ Rules shall remain unchanged.
3. Unit shall comply all condition of EC vide letter F.No.11-37/2007 - IA III dated 14/10/2016.

For and on behalf of  
Gujarat Pollution Control Board

(P.B. Patel)

Dy. Environment Engineer

### COPY TO:-

- 1) The Regional Officer, Gujarat Pollution Control Board, Bharuch. For information and submission of monitoring reports.
- 2) Unit: Bharuch. (for Respective File)

*Clean Gujarat Green Gujarat*

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# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D.

**CONSENT TO OPERATE (CTO)**  
**(CCA Amendment for name change)**

**NO: GPCB/BRCH-B/CCA-06(8)/ID-31664/**

**DT: /05/2023**

To,  
M/s: Adani Petronet (Dahej) Port Ltd. (APDPL)  
At & Post: Lakhigam,  
Ta. Vagra & Dist. Bharuch.

**SUB: Correction in CCA Amendment No: 116434, Dated 09/03/2022 under various Environmental Acts/ Rules.**

**REF:** (1) Your letter dated. 07/12/2022  
(2) CCA AMENDMENT No: 116434, issued vide letter no. GPCB/BRCH-B /CCA-6(7)/ID-31664/625047, dated: 09/03/2022.

Sir,

This has reference to the CCA AMENDMENT No: 116434, issued vide letter no. GPCB/BRCH-B /CCA-6(7)/ID-31664/625047, dated: 09/03/2022 and vide your application under reference no. 1, CCA Amendment (AWH-116434) stands amended as under.

1. Name of the industry shall now be read as "M/s: Adani Petronet (Dahej) Port Ltd. (APDPL)" in place of "M/s. Adani Petronet (Dahej) Port Pvt. Ltd. (APDPPL)" from the date of issue of this letter.
2. All other conditions of CCA AMENDMENT No: 116434, issued vide letter no. GPCB/BRCH-B /CCA-6(7)/ID-31664/625047, dated: 09/03/2022 and further amended from time to time shall remain unchanged.

**FOR AND ON BEHALF OF**  
**GUJARAT POLLUTION CONTROL BOARD**

**(IRFAN KAGZI)**  
**ENVIRONMENT ENGINEER**

**COPY TO:-**

- **Regional Officer,**  
G.P.C.Board,  
Regional Office,  
Bharuch..... For correction in XGN.

**Clean Gujarat Green Gujarat**

Website : <https://gpcb.gujarat.gov.in>

**Annexure – 2**  
**Action taken on PH commitments**

**Status of the action item of public consultation points**

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30.09.2022
1.	Shri Manaharbhai Gohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> <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 30.09.2022
		<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 made in the draft EIA</p>	<p>No further action required.</p> <p>No further action required.</p> <p>After obtaining CRZ recommendations from GCZMA vide their letter</p>

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		<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>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>

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		<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 whereas In South jetty transportation of coal up to storage</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>

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		<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>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 where one silo already exists. There is</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>

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		<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>	<ul style="list-style-type: none"> <li>no requirement of new land for this purpose.</li> <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 PM10, PM2.5, 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 per the data of Gujarat, fisheries</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>



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		<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>contribution of Bharuch is only 1% which is very less. Kutch is contributing 17%. Fisheries are of two types (i) Fisheries in sea and (ii) Fisheries of Jinga and other types in inland water. Adani company is not responsible for reduction in fisheries which is also evident from the following data (Gujarat State) Presence of Adani Company is since 2011.</p> <p>In 2004 when Adani was not presence the fisheries production was 7489 MT, in 2005-06 it was 8743 MT, in 2009-10 it was 14810 MT and in 2011-12 It was 12914 MT.</p> <ul style="list-style-type: none"> <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>

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		<p>through Vadia village which is residential area and hotels are also located on that road. Instead of this, it is requested to use bypass road passing near GACL for the same.</p> <ul style="list-style-type: none"> <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 sanctioned to build 55 houses out of</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		No further action required.

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		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>		

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		<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>

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		<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 PM10 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> <li>It is shown in the presentation that</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> <li>The project proponent replied that any</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 locals.</p>

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

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		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.

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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



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		<p>Neem trees are planted where foot prints of coal dust is being observed while going to temple.</p> <ul style="list-style-type: none"> <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

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		<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>			

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		<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 30.09.2022
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-22 To November-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	04/10/2022	85.26	50.24	ND*	ND*	ND*	ND*	0.97	ND*	33.84	22.39	38.53	28.88
2	07/10/2022	94.82	53.19	0.66	ND*	2.47	10.39	1.03	ND*	46.27	24.51	43.58	22.48
3	11/10/2022	88.21	47.66	ND*	ND*	ND*	ND*	0.74	ND*	42.64	19.29	34.55	29.44
4	14/10/2022	75.46	38.36	ND*	ND*	ND*	ND*	0.63	ND*	45.84	26.28	45.15	26.53
5	18/10/2022	93.56	56.54	0.82	ND*	2.32	10.26	0.87	ND*	48.48	21.93	39.17	23.28
6	21/10/2022	82.15	41.53	ND*	ND*	ND*	ND*	0.95	ND*	38.32	18.53	35.44	25.62
7	26/10/2022	91.51	51.76	0.70	ND*	2.62	10.51	0.76	ND*	49.37	25.86	31.71	27.83
8	28/10/2022	76.81	42.71	ND*	ND*	ND*	ND*	0.66	ND*	27.67	15.32	36.53	21.34
9	01/11/2022	87.55	47.64	ND*	ND*	ND*	ND*	0.87	ND*	48.21	24.19	37.27	27.17
10	04/11/2022	93.11	54.26	0.70	ND*	2.42	10.65	0.71	ND*	30.96	26.44	40.20	21.66
11	09/11/2022	80.15	48.54	ND*	ND*	ND*	ND*	0.63	ND*	38.27	23.43	35.65	24.96
12	11/11/2022	94.21	52.45	0.73	ND*	2.88	10.49	0.46	ND*	40.27	17.15	32.75	16.64
13	16/11/2022	73.85	40.20	ND*	ND*	ND*	ND*	0.70	ND*	32.56	25.86	36.21	30.21
14	18/11/2022	90.28	51.68	0.88	ND*	2.60	10.34	0.65	ND*	45.25	20.59	39.25	23.62
15	23/11/2022	84.22	46.25	ND*	ND*	ND*	ND*	0.85	ND*	39.81	22.58	42.92	28.62
16	25/11/2022	78.52	39.27	ND*	ND*	ND*	ND*	0.90	ND*	49.26	18.66	30.84	25.46
17	29/11/2022	83.22	44.19	ND*	ND*	ND*	ND*	0.95	ND*	44.26	14.81	41.20	22.28

**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: 0.1µg/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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**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	04/10/2022	59.43	33.44	ND*	ND*	ND*	ND*	0.82	ND*	26.44	16.57	35.54	25.48
2	07/10/2022	66.52	28.65	ND*	ND*	ND*	ND*	0.71	ND*	32.38	18.36	27.52	15.24
3	11/10/2022	79.85	36.33	ND*	ND*	ND*	ND*	0.44	ND*	36.21	14.23	30.47	20.39
4	14/10/2022	71.41	30.84	ND*	ND*	ND*	ND*	0.73	ND*	35.52	19.70	28.57	17.53
5	18/10/2022	80.05	47.33	ND*	ND*	ND*	ND*	0.34	ND*	22.81	11.58	24.22	19.52
6	21/10/2022	65.94	35.45	ND*	ND*	ND*	ND*	0.55	ND*	20.94	21.24	31.57	24.34
7	26/10/2022	74.36	41.66	ND*	ND*	ND*	ND*	0.24	ND*	45.23	15.85	21.93	26.26
8	28/10/2022	61.36	29.40	ND*	ND*	ND*	ND*	0.53	ND*	18.46	10.24	26.63	28.23
9	01/11/2022	51.63	23.45	ND*	ND*	ND*	ND*	0.50	ND*	19.23	19.18	25.32	19.48
10	04/11/2022	83.72	42.46	ND*	ND*	ND*	ND*	0.44	ND*	22.38	22.15	30.23	13.88
11	09/11/2022	67.52	31.24	ND*	ND*	ND*	ND*	0.23	ND*	30.14	15.13	21.62	21.27
12	11/11/2022	73.22	37.96	ND*	ND*	ND*	ND*	0.42	ND*	27.51	10.40	15.71	25.12
13	16/11/2022	56.33	29.47	ND*	ND*	ND*	ND*	0.48	ND*	14.37	14.54	18.74	27.21
14	18/11/2022	78.24	41.52	ND*	ND*	ND*	ND*	0.89	ND*	26.71	6.35	34.60	32.45
15	23/11/2022	72.05	36.46	ND*	ND*	ND*	ND*	0.31	ND*	24.22	13.54	31.58	17.47
16	25/11/2022	55.46	25.95	ND*	ND*	ND*	ND*	0.24	ND*	37.74	17.59	20.87	26.12
17	29/11/2022	70.78	40.67	ND*	ND*	ND*	ND*	0.76	ND*	29.23	12.42	36.51	11.75

**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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**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	04/10/2022	53.75	26.96	ND*	ND*	ND*	ND*	0.38	ND*	13.12	17.61	20.47	11.65
2	07/10/2022	78.42	45.35	ND*	ND*	ND*	ND*	0.52	ND*	21.82	13.13	32.26	17.81
3	11/10/2022	58.77	30.92	ND*	ND*	ND*	ND*	0.47	ND*	16.51	6.58	24.53	14.88
4	14/10/2022	48.74	19.65	ND*	ND*	ND*	ND*	0.25	ND*	38.62	21.44	26.36	23.51
5	18/10/2022	69.78	31.54	ND*	ND*	ND*	ND*	0.45	ND*	40.76	16.21	21.51	15.88
6	21/10/2022	59.36	29.56	ND*	ND*	ND*	ND*	0.23	ND*	25.51	9.82	15.38	21.51
7	26/10/2022	79.52	37.16	ND*	ND*	ND*	ND*	0.70	ND*	20.76	11.38	19.58	13.66
8	28/10/2022	68.32	32.68	ND*	ND*	ND*	ND*	0.32	ND*	15.67	8.66	17.21	10.03
9	01/11/2022	69.38	27.63	ND*	ND*	ND*	ND*	0.53	ND*	14.25	8.24	17.54	23.13
10	04/11/2022	56.12	32.41	ND*	ND*	ND*	ND*	0.32	ND*	15.21	11.26	26.96	12.44
11	09/11/2022	63.27	35.63	ND*	ND*	ND*	ND*	0.56	ND*	21.93	19.52	32.22	18.22
12	11/11/2022	84.16	46.23	ND*	ND*	ND*	ND*	0.36	ND*	34.18	16.44	29.12	21.44
13	16/11/2022	65.32	30.23	ND*	ND*	ND*	ND*	0.25	ND*	19.47	7.55	15.45	24.72
14	18/11/2022	82.68	44.56	ND*	ND*	ND*	ND*	0.52	ND*	11.93	17.26	20.38	20.46
15	23/11/2022	68.23	33.49	ND*	ND*	ND*	ND*	0.45	ND*	29.83	9.96	23.51	27.56
16	25/11/2022	46.51	21.20	ND*	ND*	ND*	ND*	0.72	ND*	27.33	15.25	16.17	14.15
17	29/11/2022	54.36	24.30	ND*	ND*	ND*	ND*	0.34	ND*	40.13	13.22	25.28	16.32

**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 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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**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	04/10/2022	66.24	34.21	ND*	ND*	ND*	ND*	0.29	ND*	23.52	19.56	31.97	15.75
2	07/10/2022	60.48	25.79	ND*	ND*	ND*	ND*	0.33	ND*	26.56	15.69	23.65	10.85
3	11/10/2022	70.35	28.55	ND*	ND*	ND*	ND*	0.50	ND*	29.81	8.74	20.35	12.26
4	14/10/2022	56.23	24.84	ND*	ND*	ND*	ND*	0.30	ND*	21.28	11.87	36.46	19.95
5	18/10/2022	62.46	27.37	ND*	ND*	ND*	ND*	0.61	ND*	34.78	18.67	30.19	17.62
6	21/10/2022	52.95	23.29	ND*	ND*	ND*	ND*	0.56	ND*	32.62	16.45	24.39	13.87
7	26/10/2022	69.32	36.15	ND*	ND*	ND*	ND*	0.31	ND*	25.77	7.56	27.97	23.41
8	28/10/2022	54.68	22.60	ND*	ND*	ND*	ND*	0.58	ND*	12.63	20.25	22.53	14.91
9	01/11/2022	60.44	35.17	ND*	ND*	ND*	ND*	0.61	ND*	37.27	15.66	28.46	25.35
10	04/11/2022	78.98	39.64	ND*	ND*	ND*	ND*	0.68	ND*	20.28	9.28	18.94	15.71
11	09/11/2022	54.28	24.33	ND*	ND*	ND*	ND*	0.38	ND*	27.92	7.20	16.56	22.18
12	11/11/2022	69.01	31.65	ND*	ND*	ND*	ND*	0.41	ND*	25.41	14.38	19.86	14.77
13	16/11/2022	50.96	22.39	ND*	ND*	ND*	ND*	0.58	ND*	28.56	16.30	25.42	10.27
14	18/11/2022	72.43	37.55	ND*	ND*	ND*	ND*	0.29	ND*	19.57	18.87	30.41	12.75
15	23/11/2022	61.77	28.49	ND*	ND*	ND*	ND*	0.73	ND*	17.54	20.19	36.35	16.27
16	25/11/2022	71.64	36.32	ND*	ND*	ND*	ND*	0.62	ND*	32.01	8.74	15.35	20.23
17	29/11/2022	63.21	33.44	ND*	ND*	ND*	ND*	0.66	ND*	35.17	10.49	29.47	13.96

**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 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>

*(Signature)*

**Authorized Signatory**





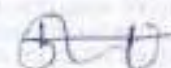


**Table No.: 1.5 - Ambient Air Quality Monitoring Results At Near Silo Porta Cabin**

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	04/10/2022	69.47	39.53	ND*	ND*	ND*	ND*	0.57	ND*	21.52	14.53	17.59	19.15
2	07/10/2022	76.16	42.57	ND*	ND*	ND*	ND*	0.49	ND*	27.76	16.14	35.80	12.91
3	11/10/2022	52.36	25.70	ND*	ND*	ND*	ND*	0.36	ND*	32.27	11.19	25.34	18.67
4	14/10/2022	43.57	21.61	ND*	ND*	ND*	ND*	0.26	ND*	16.22	15.36	21.17	22.35
5	18/10/2022	74.05	43.52	ND*	ND*	ND*	ND*	0.54	ND*	23.61	9.58	28.65	14.11
6	21/10/2022	47.36	26.35	ND*	ND*	ND*	ND*	0.64	ND*	35.66	7.80	26.77	27.57
7	26/10/2022	57.47	30.48	ND*	ND*	ND*	ND*	0.89	ND*	29.56	18.38	24.67	17.36
8	28/10/2022	48.23	20.28	ND*	ND*	ND*	ND*	0.22	ND*	20.15	12.93	19.26	26.82
9	01/11/2022	56.37	31.53	ND*	ND*	ND*	ND*	0.26	ND*	26.54	11.33	20.48	12.97
10	04/11/2022	68.14	28.46	ND*	ND*	ND*	ND*	0.64	ND*	13.44	19.49	24.13	18.55
11	09/11/2022	49.62	19.28	ND*	ND*	ND*	ND*	0.14	ND*	25.25	17.48	30.52	16.48
12	11/11/2022	78.42	35.82	ND*	ND*	ND*	ND*	0.55	ND*	21.26	9.85	34.53	19.31
13	16/11/2022	60.26	26.32	ND*	ND*	ND*	ND*	0.37	ND*	11.02	6.53	23.68	15.23
14	18/11/2022	54.22	33.25	ND*	ND*	ND*	ND*	0.22	ND*	16.35	12.97	16.23	25.83
15	23/11/2022	48.22	23.56	ND*	ND*	ND*	ND*	0.47	ND*	14.11	14.22	25.15	20.99
16	25/11/2022	64.52	27.34	ND*	ND*	ND*	ND*	0.17	ND*	22.75	10.93	28.32	24.68
17	29/11/2022	57.24	30.42	ND*	ND*	ND*	ND*	0.49	ND*	19.81	7.38	22.59	14.35

**Observation:** Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I De: 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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**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	04/10/2022	79.73	45.48	ND*	ND*	ND*	ND*	0.77	ND*	38.25	12.28	32.82	22.76
2	07/10/2022	89.68	49.81	0.65	ND*	2.36	10.23	0.42	ND*	35.24	21.58	38.32	20.25
3	11/10/2022	78.51	41.24	ND*	ND*	ND*	ND*	0.79	ND*	39.57	17.20	27.17	28.42
4	14/10/2022	66.18	27.07	ND*	ND*	ND*	ND*	0.98	ND*	42.37	23.66	34.62	15.46
5	18/10/2022	88.63	54.26	0.75	ND*	2.24	10.43	0.84	ND*	45.37	20.33	31.81	21.73
6	21/10/2022	72.57	39.32	ND*	ND*	ND*	ND*	0.65	ND*	29.25	15.45	28.47	31.67
7	26/10/2022	83.42	46.24	0.67	ND*	2.54	10.40	0.37	ND*	33.97	22.23	36.32	16.29
8	28/10/2022	73.75	38.86	ND*	ND*	ND*	ND*	0.41	ND*	26.67	16.35	33.53	29.96
9	01/11/2022	76.42	38.55	ND*	ND*	ND*	ND*	0.96	ND*	45.54	22.33	34.24	16.51
10	04/11/2022	87.25	47.79	0.55	ND*	2.32	10.38	0.57	ND*	25.37	17.63	33.47	25.61
11	09/11/2022	75.31	43.20	ND*	ND*	ND*	ND*	0.54	ND*	35.52	21.18	26.68	14.24
12	11/11/2022	90.96	40.27	0.67	ND*	2.58	10.19	0.30	ND*	19.62	7.63	24.73	17.37
13	16/11/2022	69.95	36.26	ND*	ND*	ND*	ND*	0.40	ND*	21.84	23.88	32.33	23.41
14	18/11/2022	88.42	46.38	0.74	ND*	2.49	10.07	0.78	ND*	39.68	14.71	37.55	28.81
15	23/11/2022	77.58	39.79	ND*	ND*	ND*	ND*	0.92	ND*	32.63	12.31	29.54	24.37
16	25/11/2022	61.42	29.54	ND*	ND*	ND*	ND*	0.74	ND*	43.65	20.51	23.47	22.46
17	29/11/2022	78.21	37.26	BDL*	ND*	ND*	ND*	0.80	ND*	47.36	16.31	27.54	19.20

**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 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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**ENVIRONMENTAL MONITORING REPORT**

Environment Monitoring Report for the period from October-22 to March-23

**3A. AMBIENT AIR QUALITY MONITORING: -****Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near EHS Building**

Sr. No.	Date of Sampling	Location-1: Near EHS Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	58	34	11.88	12.52	<10	<1	<5	<1	<1	<3	0.744	<0.5
2	05.12.2022	61	35	12.87	14.45	<10	<1	<5	<1	<1	<3	0.648	<0.5
3	08.12.2022	64	38	12.90	14.15	<10	<1	<5	<1	<1	<3	0.783	<0.5
4	12.12.2022	61	37	12.93	14.58	<10	<1	<5	<1	<1	<3	0.715	<0.5
5	15.12.2022	58	33	11.54	12.34	<10	<1	<5	<1	<1	<3	0.638	<0.5
6	19.12.2022	63	37	12.87	14.25	<10	<1	<5	<1	<1	<3	0.684	<0.5
7	22.12.2022	60	32	11.54	12.36	<10	<1	<5	<1	<1	<3	0.563	<0.5
8	26.12.2022	60	32	11.90	12.87	<10	<1	<5	<1	<1	<3	0.587	<0.5
9	29.12.2022	62	37	13.00	14.85	<10	<1	<5	<1	<1	<3	0.621	<0.5
10	02.01.2023	61	35	12.05	13.02	<10	<1	<5	<1	<1	<3	0.657	<0.5
11	05.01.2023	63	36	13.02	14.45	<10	<1	<5	<1	<1	<3	0.687	<0.5
12	09.01.2023	66	40	13.01	14.23	<10	<1	<5	<1	<1	<3	0.489	<0.5
13	13.01.2023	63	35	13.10	14.68	<10	<1	<5	<1	<1	<3	0.702	<0.5
14	17.01.2023	60	34	11.95	12.40	<10	<1	<5	<1	<1	<3	0.527	<0.5
15	20.01.2023	64	35	12.90	14.56	<10	<1	<5	<1	<1	<3	0.870	<0.5
16	24.01.2023	63	35	11.76	12.87	<10	<1	<5	<1	<1	<3	0.654	<0.5
17	27.01.2023	58	31	12.43	12.64	<10	<1	<5	<1	<1	<3	0.466	<0.5
18	31.01.2023	64	38	13.50	14.87	<10	<1	<5	<1	<1	<3	0.661	<0.5
19	02.02.2023	55	26	11.05	12.73	<10	<1	<5	<1	<1	<3	0.486	<0.5
20	06.02.2023	66	33	13.02	14.05	<10	<1	<5	<1	<1	<3	0.521	<0.5
21	09.02.2023	67	32	12.90	14.15	<10	<1	<5	<1	<1	<3	0.496	<0.5
22	13.02.2023	61	37	12.93	14.58	<10	<1	<5	<1	<1	<3	0.581	<0.5
23	16.02.2023	58	33	11.54	12.34	<10	<1	<5	<1	<1	<3	0.605	<0.5
24	20.02.2023	63	34	12.87	14.25	<10	<1	<5	<1	<1	<3	0.496	<0.5
25	23.02.2023	60	32	11.54	12.36	<10	<1	<5	<1	<1	<3	0.488	<0.5
26	27.02.2023	60	34	11.90	12.87	<10	<1	<5	<1	<1	<3	0.626	<0.5
27	02.03.2023	58	22	11.28	12.66	<10	<1	<5	<1	<1	<3	0.481	<0.5
28	06.03.2023	60	30	13.12	14.55	<10	<1	<5	<1	<1	<3	0.422	<0.5
29	09.03.2023	70	30	13.06	14.24	<10	<1	<5	<1	<1	<3	0.396	<0.5
30	13.03.2023	62	33	13.22	14.05	<10	<1	<5	<1	<1	<3	0.510	<0.5
31	16.03.2023	60	30	11.28	12.08	<10	<1	<5	<1	<1	<3	0.388	<0.5
32	20.03.2023	58	30	12.31	14.34	<10	<1	<5	<1	<1	<3	0.506	<0.5
33	23.03.2023	62	31	11.30	12.18	<10	<1	<5	<1	<1	<3	0.378	<0.5
34	27.03.2023	63	31	11.74	12.75	<10	<1	<5	<1	<1	<3	0.801	<0.5
35	30.03.2023	64	36	11.15	12.17	<10	<1	<5	<1	<1	<3	0.364	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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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## ENVIRONMENTAL MONITORING REPORT



Environment Monitoring Report for the period from October-22 to March-23

### 3A. AMBIENT AIR QUALITY MONITORING: -

Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near SS 7B Building

Sr. No.	Date of Sampling	Location-2: Near SS 7B Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	60	29	12.73	13.83	<10	<1	<5	<1	<1	<3	0.636	<0.5
2	05.12.2022	63	32	12.06	14.05	<10	<1	<5	<1	<1	<3	0.579	<0.5
3	08.12.2022	63	34	12.36	14.54	<10	<1	<5	<1	<1	<3	0.567	<0.5
4	12.12.2022	63	34	12.45	14.82	<10	<1	<5	<1	<1	<3	0.588	<0.5
5	15.12.2022	61	35	11.98	12.78	<10	<1	<5	<1	<1	<3	0.781	<0.5
6	19.12.2022	65	35	12.78	14.35	<10	<1	<5	<1	<1	<3	0.578	<0.5
7	22.12.2022	63	35	12.06	14.30	<10	<1	<5	<1	<1	<3	0.567	<0.5
8	26.12.2022	63	35	12.16	14.23	<10	<1	<5	<1	<1	<3	0.774	<0.5
9	29.12.2022	65	34	12.36	14.65	<10	<1	<5	<1	<1	<3	0.678	<0.5
10	02.01.2023	59	31	12.90	13.90	<10	<1	<5	<1	<1	<3	0.583	<0.5
11	05.01.2023	65	34	12.26	13.60	<10	<1	<5	<1	<1	<3	0.542	<0.5
12	09.01.2023	65	36	12.78	14.80	<10	<1	<5	<1	<1	<3	0.639	<0.5
13	13.01.2023	65	32	12.67	14.95	<10	<1	<5	<1	<1	<3	0.563	<0.5
14	17.01.2023	63	37	12.21	13.04	<10	<1	<5	<1	<1	<3	0.636	<0.5
15	20.01.2023	67	33	12.97	14.80	<10	<1	<5	<1	<1	<3	0.701	<0.5
16	24.01.2023	65	38	12.38	14.36	<10	<1	<5	<1	<1	<3	0.474	<0.5
17	27.01.2023	66	37	12.57	14.74	<10	<1	<5	<1	<1	<3	0.520	<0.5
18	31.01.2023	64	36	12.60	14.80	<10	<1	<5	<1	<1	<3	0.741	<0.5
19	02.02.2023	62	32	11.87	13.02	<10	<1	<5	<1	<1	<3	0.512	<0.5
20	06.02.2023	64	36	11.25	12.87	<10	<1	<5	<1	<1	<3	0.418	<0.5
21	09.02.2023	60	37	12.36	14.54	<10	<1	<5	<1	<1	<3	0.533	<0.5
22	13.02.2023	63	34	12.45	14.82	<10	<1	<5	<1	<1	<3	0.560	<0.5
23	16.02.2023	61	35	11.98	12.78	<10	<1	<5	<1	<1	<3	0.681	<0.5
24	20.02.2023	60	28	12.78	14.35	<10	<1	<5	<1	<1	<3	0.590	<0.5
25	23.02.2023	67	28	12.06	14.28	<10	<1	<5	<1	<1	<3	0.716	<0.5
26	27.02.2023	63	30	12.16	14.23	<10	<1	<5	<1	<1	<3	0.485	<0.5
27	02.03.2023	65	27	11.30	13.16	<10	<1	<5	<1	<1	<3	0.631	<0.5
28	06.03.2023	61	33	11.36	12.20	<10	<1	<5	<1	<1	<3	0.491	<0.5
29	09.03.2023	65	35	12.25	14.65	<10	<1	<5	<1	<1	<3	0.499	<0.5
30	13.03.2023	65	36	12.65	14.95	<10	<1	<5	<1	<1	<3	0.409	<0.5
31	16.03.2023	64	32	12.09	12.54	<10	<1	<5	<1	<1	<3	0.540	<0.5
32	20.03.2023	63	25	12.62	14.69	<10	<1	<5	<1	<1	<3	0.701	<0.5
33	23.03.2023	70	24	12.17	14.05	<10	<1	<5	<1	<1	<3	0.474	<0.5
34	27.03.2023	66	37	12.24	14.10	<10	<1	<5	<1	<1	<3	0.718	<0.5
35	30.03.2023	60	33	12.28	14.88	<10	<1	<5	<1	<1	<3	0.548	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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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**ENVIRONMENTAL MONITORING REPORT**

Environment Monitoring Report for the period from October-22 to March-23

**3A. AMBIENT AIR QUALITY MONITORING: -****Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near Marine Building**

Sr. No.	Date of Sampling	Location-3: Near Marine Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	61	36	12.10	13.52	<10	<1	<5	<1	<1	<3	0.581	<0.5
2	05.12.2022	67	37	11.75	13.02	<10	<1	<5	<1	<1	<3	0.717	<0.5
3	08.12.2022	66	39	12.05	13.24	<10	<1	<5	<1	<1	<3	0.519	<0.5
4	12.12.2022	60	38	12.10	13.12	<10	<1	<5	<1	<1	<3	0.643	<0.5
5	15.12.2022	64	39	12.06	13.24	<10	<1	<5	<1	<1	<3	0.689	<0.5
6	19.12.2022	64	38	12.06	13.28	<10	<1	<5	<1	<1	<3	0.708	<0.5
7	22.12.2022	62	33	11.90	12.87	<10	<1	<5	<1	<1	<3	0.517	<0.5
8	26.12.2022	67	39	12.19	13.80	<10	<1	<5	<1	<1	<3	0.652	<0.5
9	29.12.2022	68	39	12.03	13.54	<10	<1	<5	<1	<1	<3	0.589	<0.5
10	02.01.2023	63	35	12.36	13.45	<10	<1	<5	<1	<1	<3	0.485	<0.5
11	05.01.2023	69	38	11.95	13.48	<10	<1	<5	<1	<1	<3	0.756	<0.5
12	09.01.2023	68	41	12.56	13.45	<10	<1	<5	<1	<1	<3	0.860	<0.5
13	13.01.2023	62	40	12.45	13.47	<10	<1	<5	<1	<1	<3	0.753	<0.5
14	17.01.2023	65	40	12.54	13.56	<10	<1	<5	<1	<1	<3	0.557	<0.5
15	20.01.2023	66	36	12.36	13.60	<10	<1	<5	<1	<1	<3	0.682	<0.5
16	24.01.2023	61	39	12.34	12.90	<10	<1	<5	<1	<1	<3	0.588	<0.5
17	27.01.2023	69	40	12.80	13.90	<10	<1	<5	<1	<1	<3	0.489	<0.5
18	31.01.2023	67	40	12.36	13.69	<10	<1	<5	<1	<1	<3	0.802	<0.5
19	02.02.2023	60	35	12.87	12.90	<10	<1	<5	<1	<1	<3	0.411	<0.5
20	06.02.2023	62	32	11.98	13.56	<10	<1	<5	<1	<1	<3	0.534	<0.5
21	09.02.2023	63	30	12.05	13.24	<10	<1	<5	<1	<1	<3	0.489	<0.5
22	13.02.2023	60	38	12.10	13.12	<10	<1	<5	<1	<1	<3	0.723	<0.5
23	16.02.2023	64	30	12.06	13.24	<10	<1	<5	<1	<1	<3	0.706	<0.5
24	20.02.2023	67	35	12.06	13.28	<10	<1	<5	<1	<1	<3	0.610	<0.5
25	23.02.2023	64	30	11.90	12.28	<10	<1	<5	<1	<1	<3	0.454	<0.5
26	27.02.2023	67	36	12.28	13.35	<10	<1	<5	<1	<1	<3	0.498	<0.5
27	02.03.2023	62	30	12.20	14.05	<10	<1	<5	<1	<1	<3	0.396	<0.5
28	06.03.2023	65	35	12.05	13.63	<10	<1	<5	<1	<1	<3	0.396	<0.5
29	09.03.2023	61	28	12.16	13.18	<10	<1	<5	<1	<1	<3	0.538	<0.5
30	13.03.2023	63	34	12.26	13.08	<10	<1	<5	<1	<1	<3	0.394	<0.5
31	16.03.2023	61	34	11.56	13.48	<10	<1	<5	<1	<1	<3	0.533	<0.5
32	20.03.2023	65	23	12.15	13.14	<10	<1	<5	<1	<1	<3	0.421	<0.5
33	23.03.2023	62	22	11.12	12.42	<10	<1	<5	<1	<1	<3	0.663	<0.5
34	27.03.2023	69	32	12.56	13.48	<10	<1	<5	<1	<1	<3	0.519	<0.5
35	30.03.2023	62	28	12.36	13.66	<10	<1	<5	<1	<1	<3	0.535	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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>

**Authorized Signatory**





## ENVIRONMENTAL MONITORING REPORT

Environment Monitoring Report for the period from October-22 to March-23

### 3A. AMBIENT AIR QUALITY MONITORING: -

Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near GCPL Main Gate

Sr. No.	Date of Sampling	Location-4: Near GCPL Main Gate											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	65	38	13.05	14.36	<10	<1	<5	<1	<1	<3	0.708	<0.5
2	05.12.2022	62	35	12.87	14.48	<10	<1	<5	<1	<1	<3	0.619	<0.5
3	08.12.2022	62	37	13.02	14.45	<10	<1	<5	<1	<1	<3	0.589	<0.5
4	12.12.2022	62	36	12.90	14.87	<10	<1	<5	<1	<1	<3	0.680	<0.5
5	15.12.2022	62	37	12.90	14.00	<10	<1	<5	<1	<1	<3	0.587	<0.5
6	19.12.2022	62	33	12.98	14.68	<10	<1	<5	<1	<1	<3	0.537	<0.5
7	22.12.2022	65	37	13.02	14.78	<10	<1	<5	<1	<1	<3	0.581	<0.5
8	26.12.2022	65	35	13.07	14.58	<10	<1	<5	<1	<1	<3	0.668	<0.5
9	29.12.2022	61	35	12.87	14.68	<10	<1	<5	<1	<1	<3	0.712	<0.5
10	02.01.2023	66	40	13.15	14.20	<10	<1	<5	<1	<1	<3	0.670	<0.5
11	05.01.2023	64	34	12.90	14.60	<10	<1	<5	<1	<1	<3	0.582	<0.5
12	09.01.2023	64	38	13.25	14.65	<10	<1	<5	<1	<1	<3	0.598	<0.5
13	13.01.2023	65	38	13.12	14.52	<10	<1	<5	<1	<1	<3	0.608	<0.5
14	17.01.2023	64	39	13.10	14.20	<10	<1	<5	<1	<1	<3	0.668	<0.5
15	20.01.2023	64	31	12.59	14.90	<10	<1	<5	<1	<1	<3	0.504	<0.5
16	24.01.2023	67	34	13.06	14.90	<10	<1	<5	<1	<1	<3	0.691	<0.5
17	27.01.2023	63	38	13.26	14.67	<10	<1	<5	<1	<1	<3	0.701	<0.5
18	31.01.2023	63	33	12.94	14.57	<10	<1	<5	<1	<1	<3	0.438	<0.5
19	02.02.2023	63	29	11.65	12.25	<10	<1	<5	<1	<1	<3	0.608	<0.5
20	06.02.2023	60	38	12.45	14.80	<10	<1	<5	<1	<1	<3	0.609	<0.5
21	09.02.2023	68	33	13.02	14.45	<10	<1	<5	<1	<1	<3	0.687	<0.5
22	13.02.2023	62	36	12.90	14.87	<10	<1	<5	<1	<1	<3	0.467	<0.5
23	16.02.2023	62	37	12.90	14.00	<10	<1	<5	<1	<1	<3	0.472	<0.5
24	20.02.2023	58	26	12.98	14.68	<10	<1	<5	<1	<1	<3	0.712	<0.5
25	23.02.2023	65	35	13.26	14.78	<10	<1	<5	<1	<1	<3	0.551	<0.5
26	27.02.2023	65	35	13.07	14.58	<10	<1	<5	<1	<1	<3	0.398	<0.5
27	02.03.2023	66	24	11.46	12.36	<10	<1	<5	<1	<1	<3	0.401	<0.5
28	06.03.2023	63	26	12.10	14.95	<10	<1	<5	<1	<1	<3	0.443	<0.5
29	09.03.2023	65	35	13.08	14.63	<10	<1	<5	<1	<1	<3	0.431	<0.5
30	13.03.2023	66	32	12.52	14.99	<10	<1	<5	<1	<1	<3	0.710	<0.5
31	16.03.2023	67	31	13.06	14.26	<10	<1	<5	<1	<1	<3	0.495	<0.5
32	20.03.2023	61	32	13.04	14.52	<10	<1	<5	<1	<1	<3	0.528	<0.5
33	23.03.2023	60	30	13.50	14.85	<10	<1	<5	<1	<1	<3	0.448	<0.5
34	27.03.2023	60	30	13.14	14.88	<10	<1	<5	<1	<1	<3	0.481	<0.5
35	30.03.2023	61	31	13.02	14.72	<10	<1	<5	<1	<1	<3	0.714	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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>

Authorized Signatory



**ENVIRONMENTAL MONITORING REPORT**

Environment Monitoring Report for the period from October-22 to March-23

**3A. AMBIENT AIR QUALITY MONITORING: -****Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near Silo Main Gate**

Sr. No.	Date of Sampling	Location-5: Near Silo Main Gate											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	59	31	11.87	12.90	<10	<1	<5	<1	<1	<3	0.681	<0.5
2	05.12.2022	63	32	12.06	14.25	<10	<1	<5	<1	<1	<3	0.549	<0.5
3	08.12.2022	65	35	12.42	12.25	<10	<1	<5	<1	<1	<3	0.670	<0.5
4	12.12.2022	65	34	12.54	14.25	<10	<1	<5	<1	<1	<3	0.714	<0.5
5	15.12.2022	63	32	12.06	14.25	<10	<1	<5	<1	<1	<3	0.647	<0.5
6	19.12.2022	60	31	12.96	14.63	<10	<1	<5	<1	<1	<3	0.621	<0.5
7	22.12.2022	66	35	12.74	13.56	<10	<1	<5	<1	<1	<3	0.710	<0.5
8	26.12.2022	62	34	12.67	14.52	<10	<1	<5	<1	<1	<3	0.605	<0.5
9	29.12.2022	63	32	12.06	14.05	<10	<1	<5	<1	<1	<3	0.659	<0.5
10	02.01.2023	60	33	12.01	12.95	<10	<1	<5	<1	<1	<3	0.523	<0.5
11	05.01.2023	65	35	12.36	14.30	<10	<1	<5	<1	<1	<3	0.748	<0.5
12	09.01.2023	67	37	12.69	12.55	<10	<1	<5	<1	<1	<3	0.742	<0.5
13	13.01.2023	68	37	12.69	14.63	<10	<1	<5	<1	<1	<3	0.762	<0.5
14	17.01.2023	66	34	12.31	14.36	<10	<1	<5	<1	<1	<3	0.704	<0.5
15	20.01.2023	63	35	13.06	14.75	<10	<1	<5	<1	<1	<3	0.389	<0.5
16	24.01.2023	69	32	12.69	13.64	<10	<1	<5	<1	<1	<3	0.499	<0.5
17	27.01.2023	64	36	12.86	14.65	<10	<1	<5	<1	<1	<3	0.610	<0.5
18	31.01.2023	65	31	12.35	14.13	<10	<1	<5	<1	<1	<3	0.771	<0.5
19	02.02.2023	61	34	12.90	14.25	<10	<1	<5	<1	<1	<3	0.502	<0.5
20	06.02.2023	67	37	13.05	14.58	<10	<1	<5	<1	<1	<3	0.712	<0.5
21	09.02.2023	64	36	12.42	12.08	<10	<1	<5	<1	<1	<3	0.705	<0.5
22	13.02.2023	65	34	12.54	14.25	<10	<1	<5	<1	<1	<3	0.573	<0.5
23	16.02.2023	63	32	12.06	14.25	<10	<1	<5	<1	<1	<3	0.481	<0.5
24	20.02.2023	68	30	12.96	14.63	<10	<1	<5	<1	<1	<3	0.627	<0.5
25	23.02.2023	60	37	12.74	13.56	<10	<1	<5	<1	<1	<3	0.610	<0.5
26	27.02.2023	62	29	12.67	14.52	<10	<1	<5	<1	<1	<3	0.412	<0.5
27	02.03.2023	64	31	12.50	14.05	<10	<1	<5	<1	<1	<3	0.501	<0.5
28	06.03.2023	62	35	13.15	14.43	<10	<1	<5	<1	<1	<3	0.614	<0.5
29	09.03.2023	62	38	12.52	12.16	<10	<1	<5	<1	<1	<3	0.607	<0.5
30	13.03.2023	61	31	12.38	14.36	<10	<1	<5	<1	<1	<3	0.619	<0.5
31	16.03.2023	62	28	12.12	14.68	<10	<1	<5	<1	<1	<3	0.618	<0.5
32	20.03.2023	63	34	12.85	14.76	<10	<1	<5	<1	<1	<3	0.596	<0.5
33	23.03.2023	61	32	12.35	13.07	<10	<1	<5	<1	<1	<3	0.388	<0.5
34	27.03.2023	64	25	12.98	14.75	<10	<1	<5	<1	<1	<3	0.437	<0.5
35	30.03.2023	63	34	12.75	14.80	<10	<1	<5	<1	<1	<3	0.673	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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>

**Authorized Signatory**



## ENVIRONMENTAL MONITORING REPORT



Environment Monitoring Report for the period from October-22 to March-23

### 3A. AMBIENT AIR QUALITY MONITORING: -

Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near SS-11 Railway

Sr. No.	Date of Sampling	Location-6: Near SS-11 Railway											
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	NH <sub>3</sub>	Pb	As	O <sub>3</sub>	Ni	C <sub>6</sub> H <sub>6</sub>	CO	BaP
		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>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ng/m <sup>3</sup>
1	02.12.2022	56	26	12.46	13.80	<10	<1	<5	<1	<1	<3	0.599	<0.5
2	05.12.2022	64	37	11.90	13.12	<10	<1	<5	<1	<1	<3	0.598	<0.5
3	08.12.2022	66	38	11.98	13.56	<10	<1	<5	<1	<1	<3	0.618	<0.5
4	12.12.2022	68	39	12.06	13.56	<10	<1	<5	<1	<1	<3	0.568	<0.5
5	15.12.2022	66	36	12.36	13.57	<10	<1	<5	<1	<1	<3	0.589	<0.5
6	19.12.2022	66	39	12.70	14.00	<10	<1	<5	<1	<1	<3	0.591	<0.5
7	22.12.2022	67	37	11.90	13.24	<10	<1	<5	<1	<1	<3	0.870	<0.5
8	26.12.2022	67	37	11.90	13.36	<10	<1	<5	<1	<1	<3	0.618	<0.5
9	29.12.2022	66	39	12.34	13.85	<10	<1	<5	<1	<1	<3	0.586	<0.5
10	02.01.2023	58	29	12.87	13.00	<10	<1	<5	<1	<1	<3	0.486	<0.5
11	05.01.2023	65	39	12.03	13.35	<10	<1	<5	<1	<1	<3	0.852	<0.5
12	09.01.2023	69	39	12.12	13.85	<10	<1	<5	<1	<1	<3	0.582	<0.5
13	13.01.2023	67	41	12.80	14.02	<10	<1	<5	<1	<1	<3	0.423	<0.5
14	17.01.2023	68	37	12.46	13.87	<10	<1	<5	<1	<1	<3	0.539	<0.5
15	20.01.2023	68	37	12.90	14.35	<10	<1	<5	<1	<1	<3	0.487	<0.5
16	24.01.2023	65	35	12.34	13.85	<10	<1	<5	<1	<1	<3	0.621	<0.5
17	27.01.2023	69	39	12.70	13.78	<10	<1	<5	<1	<1	<3	0.485	<0.5
18	31.01.2023	68	37	12.65	14.05	<10	<1	<5	<1	<1	<3	0.518	<0.5
19	02.02.2023	64	30	12.46	13.56	<10	<1	<5	<1	<1	<3	0.603	<0.5
20	06.02.2023	63	25	12.10	13.36	<10	<1	<5	<1	<1	<3	0.802	<0.5
21	09.02.2023	62	27	11.98	13.56	<10	<1	<5	<1	<1	<3	0.494	<0.5
22	13.02.2023	68	39	12.06	13.56	<10	<1	<5	<1	<1	<3	0.552	<0.5
23	16.02.2023	66	33	12.36	13.57	<10	<1	<5	<1	<1	<3	0.528	<0.5
24	20.02.2023	64	33	12.70	14.00	<10	<1	<5	<1	<1	<3	0.736	<0.5
25	23.02.2023	67	29	11.90	13.24	<10	<1	<5	<1	<1	<3	0.729	<0.5
26	27.02.2023	68	33	11.90	13.36	<10	<1	<5	<1	<1	<3	0.565	<0.5
27	02.03.2023	67	25	12.35	13.26	<10	<1	<5	<1	<1	<3	0.614	<0.5
28	06.03.2023	67	22	12.40	13.21	<10	<1	<5	<1	<1	<3	0.548	<0.5
29	09.03.2023	64	31	12.06	13.36	<10	<1	<5	<1	<1	<3	0.415	<0.5
30	13.03.2023	67	37	12.13	13.21	<10	<1	<5	<1	<1	<3	0.514	<0.5
31	16.03.2023	71	36	12.69	13.50	<10	<1	<5	<1	<1	<3	0.670	<0.5
32	20.03.2023	66	37	12.55	14.38	<10	<1	<5	<1	<1	<3	0.693	<0.5
33	23.03.2023	65	26	12.05	13.44	<10	<1	<5	<1	<1	<3	0.408	<0.5
34	27.03.2023	71	30	12.20	13.20	<10	<1	<5	<1	<1	<3	0.644	<0.5
35	30.03.2023	70	28	11.98	13.45	<10	<1	<5	<1	<1	<3	0.573	<0.5

**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:** Detection Limit, Lead as Pb: 0.1µg/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>

Authorized Signatory



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

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION	
			Oct-22	Nov-22
			20/10/22	29/11/22
1	Temperature	°C	30	30.2
2	pH	--	7.58	7.85
3	Total Dissolved Solids	mg/L	914	956
4	Salinity	ppt	0.34	0.23
5	Chloride as Cl	mg/L	189	129
6	Depth of Water Level from Ground Level	meter	1.5	1.8
7	Status of Tide	--	Law Tide	High Tide

**3B.2 Near QHSE Office**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION	
			Oct-22	Nov-22
			20/10/22	29/11/22
1	Temperature	°C	29.9	29.8
2	pH	--	7.71	8.06
3	Total Dissolved Solids	mg/L	768	929
4	Salinity	ppt	0.31	0.21
5	Chloride as Cl	mg/L	172	119
6	Depth of Water Level from Ground Level	meter	1	2
7	Status of Tide	--	Law Tide	High Tide

**Authorized Signatory**

**ENVIRONMENTAL MONITORING REPORT****3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period:****October-2022 to March-2023****3B.1 Near EHS Building**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
					30.12.2022	30.01.2023	25.02.2023	03.03.2023
1	pH	--			7.95	7.67	7.54	7.45
2	Temperature	°C			26.1	24.7	24.7	26.2
3	Total Dissolved Solids	mg/L			756	492	492	732
4	Chloride as Cl	mg/L			146	70	125	119
5	Salinity	mg/L			263.38	126	226	213.87
6	Depth of Water Level from Ground Level	meter			2.1	2.1	2.1	2.1

**3B.2 Near SS 7B Building**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
					30.12.2022	30.01.2023	25.02.2023	03.03.2023
1	pH	--			7.88	7.95	7.72	7.53
2	Temperature	°C			24.1	24.9	24.9	26.2
3	Total Dissolved Solids	mg/L			612	488	444	616
4	Chloride as Cl	mg/L			146	65	93	132
5	Salinity	mg/L			263.38	117	167	237.64
6	Depth of Water Level from Ground Level	meter			2.3	2.2	2.1	2.2



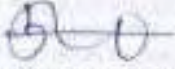


**3C. SEA WATER (SURFACE & BOTTOM) QUALITY ANALYSIS MONITORING:-**

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

Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE			
			Oct-22		Nov-22	
			20/10/2022		29/11/2022	
			Surface	Bottom	Surface	Bottom
1	pH	--	8.12	8.07	8.27	8.21
2	Temperature	°C	29.4	29.3	29.4	29
3	Total Suspended Solids	mg/L	187	169	219	187
4	BOD (3 Days @ 27 °C)	mg/L	4.26	3.6	4.8	4.58
5	Dissolved Oxygen	mg/L	5.85	5.7	5.9	5.8
6	Salinity	ppt	34.26	34.78	34.56	34.82
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	μmol/L	3.19	2.98	3.47	3.38
9	Nitrite as NO <sub>2</sub>	μmol/L	0.35	0.27	0.51	0.46
10	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	2.58	2.41	2.74	2.58
11	Phosphates as PO <sub>4</sub>	μmol/L	2.31	2.24	2.16	2.05
12	Total Nitrogen	μmol/L	6.12	5.66	6.72	6.42
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	35410	35894	35706	35972
15	COD	mg/L	18	15	21	17
<b>A Phytoplankton</b>						
16.1	Chlorophyll	mg/m <sup>3</sup>	2.69	2.58	2.77	2.61
16.2	Phaeophytin	mg/m <sup>3</sup>	0.56	0.42	0.23	0.64
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	225	218	235	229
16.4	Name of Group Number and name of group species of each group	--	Amphora sp., Guinardia sp., Odontella sp., Coscinodiscus sp., Rhizosolenia sp.	Ceratoceros sp., Synedra sp., Pleurosigma sp., Navicula sp., Nitzschia sp.	Guinardia sp., Odontella sp., Rhizosolenia sp., Coscinodiscus sp., Fragillaria sp., Skeletoneema sp.	Nitzschia sp., Spirulina sp., Closterium sp., Pleurosigma sp., Synedra sp.

*Continue...*

  
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Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS: SEA WATER SOUTH SIDE	
			Oct-22	Nov-22
			20/10/2022	29/11/2022
B	Zooplanktons			
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	31	42
17.2	Name of Group Number and name of group species of each group	—	Polychaetes, Copepods, Decapods	Nauplius larvae, Cyclops, Copepods, Polychaetes
17.3	Total Biomass	ml/100 m <sup>3</sup>	2.90	3.60
C	Microbiological Parameters			
18.1	Total Bacterial Count	CFU/ml	2410	2640
18.2	Total Coliform	/ml	Present	Present
18.3	E.coli	/ml	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present
18.5	Salmonella species	/ml	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent
18.7	Vibrio species	/ml	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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● GPCB approved  
schedule II auditor

● ISO 14001

● ISO 45001

● ISO 9001





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

Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER NORTH SIDE			
			Oct-22		Nov-22	
			20/10/2022		29/11/2022	
			Surface	Bottom	Surface	Bottom
1	pH	--	8.21	8.17	8.32	8.25
2	Temperature	°C	29.9	29.8	29.7	29.4
3	Total Suspended Solids	mg/L	207	189	223	201
4	BOD (3 Days @ 27 °C)	mg/L	5.3	3.96	5.6	4.7
5	Dissolved Oxygen	mg/L	5.9	5.85	5.95	5.8
6	Salinity	ppt	34.18	34.68	34.4	34.76
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µmol/L	3.06	2.91	3.39	3.24
9	Nitrite as NO <sub>2</sub>	µmol/L	0.32	0.25	0.47	0.41
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.49	2.36	2.63	2.58
11	Phosphates as PO <sub>4</sub>	µmol/L	2.28	2.17	2.2	2.13
12	Total Nitrogen	µmol/L	5.87	5.52	6.49	6.23
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	35408	35807	35568	35912
15	COD	mg/L	19.6	17.5	22	19
<b>A Phytoplankton</b>						
16.1	Chlorophyll	mg/m <sup>3</sup>	2.75	2.53	2.91	2.72
16.2	Phaeophytin	mg/m <sup>3</sup>	0.28	0.68	0.12	0.36
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	231	219	240	231
16.4	Name of Group Number and name of group species of each group	--	Synedra sp., Skeletonema sp., Pleurosigma sp., Tricodesma sp., Rhizosolenia sp., Odontella sp.	Nitzschia sp., Fragillaria sp., Thalassionema sp., Melosira sp., Odontella sp.	Thalassionema sp., Rhizosolenia sp., Odontella sp., Asterionella sp., Leptocylindr	Nitzschia sp., Synedra sp., Odontella sp., Fragillaria sp., Pleurosigma sp.

Continue...

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Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER NORTH SIDE	
			Oct-22	Nov-22
			20/10/2022	29/11/2022
B	Zooplanktons			
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	26	39
17.2	Name of Group Number and name of group species of each group	--	Polychaetes, Bivalves, Copepods, Crustaceans	Copepods, Polychaetes, Ostracods, Bivalves
17.3	Total Biomass	ml/100 m <sup>3</sup>	2.45	3.60
C	Microbiological Parameters			
18.1	Total Bacterial Count	CFU/ml	2380	2280
18.2	Total Coliform	/ml	Present	Present
18.3	E.coli	/ml	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present
18.5	Salmonella species	/ml	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent
18.7	Vibrio species	/ml	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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## ENVIRONMENTAL MONITORING REPORT



Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: October-2022 to March-2023

SR. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23	
			-		-		30.12.2022		30.01.2023		25.02.2023		03.03.2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	-	-	-	-	7.43	7.65	7.77	7.85	7.41	7.69	7.43	7.43
2	Temperature	°C	-	-	-	-	26.1	26.4	24.6	24.9	24.8	25	25.2	26.2
3	Ammonical Nitrogen	mg/L	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4	Phosphate	mg/L	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
5	Nitrite	mg/L	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
6	Nitrate	mg/L	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
7	COD	mg/L	-	-	-	-	<5	<5	625	1136	806	1129	<5	<5
8	BOD at 27° C 3Days	mg/L	-	-	-	-	<2	<2	182	343	240	343	<2	<2
9	Total Dissolve Solids	mg/L	-	-	-	-	30176	32408	29624	30640	35088	31160	30016	33292
10	Total Suspended Solids	mg/L	-	-	-	-	7	9	32	29	11	13	7	9
11	Oil & Grease	mg/L	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
12	Dissolve Oxygen (D.O)	mg/L	-	-	-	-	3.7	2.8	3.4	3.1	2.9	3.3	3.7	3.7
13	Salinity	mg/L	-	-	-	-	29736.56	29906.48	28452.00	26946.00	30294.00	28368.00	25823.22	27565.89
14	Total Nitrogen	mg/L	-	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	Total Coliform Bacteria	MPN/100ml	-	-	-	-	11	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )
16	E.coli	/100ml	-	-	-	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
17	Total Plate count	CFU/ml	-	-	-	-	2200	200	1800	300	3000	400	1200	600



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## ENVIRONMENTAL MONITORING REPORT



Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water South Side for the period: October-2022 to March-2023

SR. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SOUTH SIDE											
			Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23	
			-		-		30.12.2022		30.01.2023		25.02.2023		03.03.2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	-	-	-	-	7.82	7.87	7.79	7.79	7.58	7.83	7.43	7.87
2	Temperature	°C	-	-	-	-	26.3	26.5	24.6	24.8	25.1	24.8	26.2	26.2
3	Ammonical Nitrogen	mg/L	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4	Phosphate	mg/L	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
5	Nitrite	mg/L	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
6	Nitrate	mg/L	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
7	COD	mg/L	-	-	-	-	<5	<5	1080	1705	1250	1532	<5	<5
8	BOD at 27° C 3Days	mg/L	-	-	-	-	<2	<2	327	514	379	469	<2	<2
9	Total Dissolve Solids	mg/L	-	-	-	-	29944	31300	29056	30644	32136	30644	29728	32248
10	Total Suspended Solids	mg/L	-	-	-	-	8	9	37	33	8	7	8	9
11	Oil & Grease	mg/L	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
12	Dissolve Oxygen (D.O)	mg/L	-	-	-	-	3.5	2.9	3	3.6	3.5	3.1	3.7	2.9
13	Salinity	mg/L	-	-	-	-	28886.94	29056.87	30042.00	29958.00	29373.00	28536.00	26140.06	13891.00
14	Total Nitrogen	mg/L	-	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	Total Coliform Bacteria	MPN/100ml	-	-	-	-	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )	N.D.( $<1.8$ )
16	E.coli	/100ml	-	-	-	-	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
17	Total Plate count	CFU/ml	-	-	-	-	3100	400	2500	500	1700	300	1800	200





**3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -**

**Table -Sea Sediment Quality Analysis (South Side) Results for the period: October-22 To November-22**

Sr. No	PARAMETERS	UNIT	Oct-22	Nov-22
			20/10/2022	29/11/2022
1	Organic Matter	%	0.420	0.354
2	Phosphorus as P	µg/g	739	693
3	Texture	--	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected
5	<b>Heavy Metals</b>			
5.1	Aluminum as Al	%	5.32	4.98
5.2	Total Chromium as Cr <sup>+3</sup>	µg/g	119	103
5.3	Manganese as Mn	µg/g	701	652
5.4	Iron as Fe	%	4.95	5.19
5.5	Nickel as Ni	µg/g	31.37	47.86
5.6	Copper as Cu	µg/g	42.68	34.71
5.7	Zinc as Zn	µg/g	93.17	103
5.8	Lead as Pb	µg/g	2.09	1.35
5.9	Mercury as Hg	µg/g	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, Bivalves, Amphipods, Polychaetes	Crustaceans, Bivalves, Polychaetes, Gastropods
6.2	Melobenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes, Foraminiferans	Nematodes
6.3	Population	no/m <sup>2</sup>	556	409

**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-22 To November-22:-**

Sr. No	PARAMETERS	UNIT	Oct-22	Nov-22
			20/10/2022	29/11/2022
1	Organic Matter	%	0.430	0.398
2	Phosphorus as P	µg/g	748	683
3	Texture	—	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected
5	<b>Heavy Metals</b>			
5.1	Aluminum as Al	%	5.04	4.93
5.2	Total Chromium as Cr <sup>13</sup>	µg/g	115	128
5.3	Manganese as Mn	µg/g	709	652
5.4	Iron as Fe	%	5.14	4.86
5.5	Nickel as Ni	µg/g	42.68	37.29
5.6	Copper as Cu	µg/g	35.29	45.31
5.7	Zinc as Zn	µg/g	108	97.29
5.8	Lead as Pb	µg/g	1.95	1.56
5.9	Mercury as Hg	µg/g	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)	—	Polychaetes, Crustaceans, Amphipods, Molluscs	Polychaetes, Molluscs, Echinoderms, Oligochaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	—	Nematodes	Foraminiferans
6.3	Population	no/m <sup>2</sup>	587	440

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

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## ENVIRONMENTAL MONITORING REPORT

### 3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table - Sea Sediment Quality Analysis (North Side) Results for the period: October-2022 to March- 2023

Sr. No.	PARAMETERS	UNIT	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			-	-	30.12.2022	30.01.2023	25.02.2023	03.03.2023
1	Organic Matter	gm/kg	-	-	0.51	0.56	0.58	0.58
2	Aluminum	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
3	Chromium	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
4	Manganese	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
5	Iron	gm/kg	-	-	<0.001	<0.001	<0.001	<0.001
6	Nickel	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
7	Copper	gm/kg	-	-	<0.0006	<0.0006	<0.0006	<0.0006
8	Zinc	gm/kg	-	-	<0.0006	<0.0006	<0.0006	<0.0006
9	Lead	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
10	Mercury	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
11	Total Phosphorous	gm/kg	-	-	0.004	0.012	0.011	0.034
12	Texture		-	-	Sandy	Sandy loam	Sandy loam	Sandy loam
13	Particle Size		-	-				
13.1	Sand	%	-	-	48	38	40	40
13.2	Clay	%	-	-	32	34	37	34
13.3	Silt	%	-	-	20	28	23	26

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



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## ENVIRONMENTAL MONITORING REPORT

### 3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table - Sea Sediment Quality Analysis (South Side) Results for the period: October-2022 to March- 2023

Sr. No.	PARAMETERS	UNIT	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			-	-	30.12.2022	30.01.2023	25.02.2023	03.03.2023
1	Organic Matter	gm/kg	-	-	0.56	0.54	0.61	0.56
2	Aluminum	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
3	Chromium	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
4	Manganese	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
5	Iron	gm/kg	-	-	<0.001	<0.001	<0.001	<0.001
6	Nickel	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
7	Copper	gm/kg	-	-	<0.0006	<0.0006	<0.0006	<0.0006
8	Zinc	gm/kg	-	-	<0.0006	<0.0006	<0.0006	<0.0006
9	Lead	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
10	Mercury	gm/kg	-	-	<0.0004	<0.0004	<0.0004	<0.0004
11	Total Phosphorous	gm/kg	-	-	0.007	0.011	0.09	0.038
12	Texture		-	-	Sandy	Sandy loam	Sandy loam	Sandy loam
13	Particle Size		-	-				
13.1	Sand	%	-	-	46	40	43	42
13.2	Clay	%	-	-	36	32	29	34
13.3	Silt	%	-	-	18	28	28	24

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

**3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -****Table - Dump Pond Water Quality Analysis Results for the period: October-22 To November-22**

Date			Nov-22		
			29/11/2022		
Sr. No.	Test Parameters	Unit	Dump Pond Discharge -J3	Dump Pond Discharge (2) - J8	Dump Pond Discharge -J3
1.	pH	--	8.46	8.32	8.39
2.	Total Dissolved Solids	mg/L	1729	1814	1763
3.	Total Suspended Solids	mg/L	13	19	17
4.	Turbidity	NTU	3.06	2.76	2.93
5.	BOD (3 Days @ 27 °C)	mg/L	9.2	11	8.9
6.	Dissolved Oxygen	mg/L	5.8	5.9	5.4
7.	COD	mg/L	53	45	46
8.	Salinity	ppt	0.260	0.240	0.213
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO <sub>3</sub>	mg/L	570	608	584
11.	Fluoride as F	mg/L	0.49	0.52	0.47
12.	Chloride as Cl	mg/L	146	137	143
13.	Zinc as Zn	mg/L	0.24	0.17	0.19
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	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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**ENVIRONMENTAL MONITORING REPORT****3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -**

**Table - Dump Pond Water Quality Analysis Results for the period:  
October-2022 to March-2023**

Sr. No.	Test Parameters	Unit	Feb-23		
			25/02/2023	25/02/2023	25/02/2023
			Dump Pond - 1	Dump Pond - 2	Dump Pond - 3
1.	pH		7.6	8.11	8.16
2.	Turbidity	NTU	<0.1	<0.1	<0.10
3.	Fluoride	mg/L	0.32	0.38	0.41
4.	COD	mg/L	65	20	60
5.	BOD at 27° C 3Days	mg/L	21	6	20
6.	Total Dissolve Solids	mg/L	2584	2672	2492
7.	Total Suspended Solids	mg/L	9	7	7
8.	Oil & Grease	mg/L	<0.5	<0.5	<0.5
9.	Dissolve Oxygen (D.O)	mg/L	3.5	3.1	2.8
10.	Total Hardness	mg/L	1620	1860	1850
11.	Chloride	mg/L	144	139	88
12.	Cadmium	mg/L	<0.01	<0.01	<0.01
13.	Lead	mg/L	<0.02	<0.02	<0.02
14.	Zinc	mg/L	<0.03	<0.03	<0.03
15.	Mercury	mg/L	<0.02	<0.02	<0.02
16.	Salinity	mg/L	259	251	159

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



**3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -**

**TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: OCTOBER-22 TO NOVEMBER-22**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results	
			Oct-22	Nov-22
			20/10/2022	29/11/2022
1.	pH	--	7.79	7.78
2.	Total Suspended Solids	mg/L	27	19
3.	BOD (3 Days @ 27 °C)	mg/L	13	14
4.	Residual Free Chlorine	mg/L	0.8	0.8
5.	Oil & Grease	mg/L	3.5	4.8

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

**Authorized Signatory**





**ENVIRONMENTAL MONITORING REPORT****3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -****TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD:  
DECEMBER-2022 TO MARCH-2023**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			-	-	30.12.2022	30.01.2023	25.02.2023	03.03.2023
1.	pH	--	-	-	6.92	8.23	8.05	6.93
2.	BOD (3 Days @ 27 °C)	mg/L	-	-	3	7	18	11
3.	Total Suspended Solids	mg/L	-	-	12	8	10	13
4.	Residual Free Chlorine	mg/L	-	-	0.89	0.89	0.89	0.89

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





### 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-22 To November-22**

Sampling Location	1 - Behind QHSE Office	
	During Day Time - dB(A)Leq*	
Date of Monitoring	01/10/2022	01/11/2022
6:00-7:00	73.8	65.9
7:00-8:00	59.6	60.1
8:00-9:00	70.2	56.2
9:00-10:00	65.8	69.9
10:00-11:00	61.3	72.5
11:00-12:00	66.8	52.1
12:00-13:00	54.2	58.3
13:00-14:00	62.4	66.3
14:00-15:00	69.5	52.2
15:00-16:00	67.2	71.5
16:00-17:00	65.1	68.3
17:00-18:00	60.3	66.4
18:00-19:00	57.3	56.1
19:00-20:00	68.6	68.8
20:00-21:00	63.8	65.5
21:00-22:00	56.2	57.2

Sampling Location	1 - Behind QHSE Office	
	During Night Time - dB(A)Leq*	
Date of Monitoring	01/10/2022 & 02/10/2022	01/11/2022 & 02/11/2022
22:00-23:00	59.1	55.3
23:00-00:00	61.6	45.2
00:00-01:00	55.2	54.3
01:00-02:00	60.7	52.2
02:00-03:00	53.2	50.6
03:00-04:00	58.4	53.9
04:00-05:00	45.5	56.2
05:00-06:00	54.1	59.6

\*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 -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-22 To November-22**

Sampling Location	2 - PMC Office Back Side	
	During Day Time - dB(A)Leq*	
Date of Monitoring	03/10/2022	02/11/2022
6:00-7:00	65.6	52.5
7:00-8:00	53.9	56.6
8:00-9:00	66.8	70.5
9:00-10:00	64.1	57.9
10:00-11:00	68.5	62.1
11:00-12:00	55.2	62.6
12:00-13:00	61.9	56.0
13:00-14:00	66.7	71.3
14:00-15:00	59.2	61.9
15:00-16:00	64.6	66.3
16:00-17:00	52.8	59.8
17:00-18:00	57.6	73.9
18:00-19:00	70.5	57.4
19:00-20:00	62.4	56.1
20:00-21:00	53.7	60.3
21:00-22:00	62.2	58.3

Sampling Location	2 - PMC Office Back Side	
	During Night Time - dB(A)Leq*	
Date of Monitoring	03/10/2022 & 04/10/2022	02/11/2022 & 03/11/2022
22:00-23:00	53.5	52.1
23:00-00:00	56.1	56.3
00:00-01:00	45.5	51.4
01:00-02:00	62.8	46.3
02:00-03:00	50.2	48.9
03:00-04:00	52.1	52.2
04:00-05:00	63.6	51.3
05:00-06:00	57.8	53.9

\*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 - 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-22 To November-22**

Sampling Location	3 - Sub Station - 6 Back Side	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	04/10/2022	03/11/2022
6:00-7:00	59.8	59.3
7:00-8:00	60.6	66.2
8:00-9:00	57.3	59.1
9:00-10:00	55.5	68.3
10:00-11:00	56.1	52.4
11:00-12:00	71.4	56.2
12:00-13:00	58.7	69.3
13:00-14:00	64.4	67.9
14:00-15:00	72.5	64.5
15:00-16:00	54.2	58.4
16:00-17:00	66.0	62.8
17:00-18:00	69.5	65.5
18:00-19:00	52.7	60.6
19:00-20:00	57.6	53.2
20:00-21:00	58.5	56.9
21:00-22:00	70.2	63.3

Sampling Location	3 - Sub Station - 6 Back Side	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	04/10/2022 & 05/10/2022	03/11/2022 & 04/11/2022
22:00-23:00	60.2	54.9
23:00-00:00	64.7	60.3
00:00-01:00	63.5	52.8
01:00-02:00	54.8	54.1
02:00-03:00	56.3	53.8
03:00-04:00	51.4	60.1
04:00-05:00	64.9	61.5
05:00-06:00	59.3	52.4

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

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

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

**Authorized Signatory**







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

Sampling Location	4 -Sub Station - 8 (Marine Building)	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	05/10/2022	04/11/2022
6:00-7:00	58.4	58.2
7:00-8:00	62.3	62.3
8:00-9:00	69.9	64.4
9:00-10:00	57.2	59.3
10:00-11:00	71.4	68.2
11:00-12:00	54.6	59.6
12:00-13:00	63.5	61.5
13:00-14:00	65.8	65.5
14:00-15:00	56.2	55.3
15:00-16:00	66.3	62.6
16:00-17:00	69.2	66.7
17:00-18:00	61.7	58.9
18:00-19:00	58.1	57.5
19:00-20:00	61.2	62.5
20:00-21:00	52.3	57.3
21:00-22:00	55.6	59.9

Sampling Location	4 -Sub Station - 8 (Marine Building)	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	05/10/2022 & 06/10/2022	04/11/2022 & 05/11/2022
22:00-23:00	56.7	55.6
23:00-00:00	58.4	49.7
00:00-01:00	60.4	50.1
01:00-02:00	57.2	46.9
02:00-03:00	62.9	54.2
03:00-04:00	59.1	54.8
04:00-05:00	54.6	48.1
05:00-06:00	61.1	45.7

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

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

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



**Authorized Signatory**







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

Sampling Location	5 - Near Sub Station-7B	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	06/10/2022	05/11/2022
6:00-7:00	62.3	67.2
7:00-8:00	65.0	64.3
8:00-9:00	73.9	66.2
9:00-10:00	64.8	58.1
10:00-11:00	57.5	60.5
11:00-12:00	59.2	66.9
12:00-13:00	54.1	57.3
13:00-14:00	60.2	64.7
14:00-15:00	65.8	69.1
15:00-16:00	61.2	56.2
16:00-17:00	54.3	61.8
17:00-18:00	67.5	63.6
18:00-19:00	56.1	54.4
19:00-20:00	72.6	67.3
20:00-21:00	69.5	54.2
21:00-22:00	58.3	61.1

Sampling Location	5 - Near Sub Station-7B	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	06/10/2022 & 07/10/2022	05/11/2022 & 06/11/2022
22:00-23:00	50.6	51.8
23:00-00:00	55.6	44.5
00:00-01:00	49.7	49.6
01:00-02:00	58.3	53.7
02:00-03:00	52.2	51.4
03:00-04:00	57.5	50.3
04:00-05:00	49.6	47.6
05:00-06:00	65.4	50.1

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

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

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

**Authorized Signatory**







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

Sampling Location	6 - JS - 1 (Nr. Lakhigam)	
	During Day Time - dB(A)Leq <sup>#</sup>	
Date of Monitoring	07/10/2022	07/11/2022
6:00-7:00	72.3	73.5
7:00-8:00	64.1	57.9
8:00-9:00	55.4	69.3
9:00-10:00	65.6	55.6
10:00-11:00	62.3	66.9
11:00-12:00	60.1	57.5
12:00-13:00	64.3	65.9
13:00-14:00	58.5	69.8
14:00-15:00	52.1	54.2
15:00-16:00	69.3	66.1
16:00-17:00	65.8	70.4
17:00-18:00	56.2	59.4
18:00-19:00	52.4	63.2
19:00-20:00	64.8	60.7
20:00-21:00	57.3	61.5
21:00-22:00	62.1	53.3

Sampling Location	6 - JS - 1 (Nr. Lakhigam)	
	During Night Time - dB(A)Leq <sup>#</sup>	
Date of Monitoring	07/10/2022 & 08/10/2022	07/11/2022 & 08/11/2022
22:00-23:00	62.6	62.3
23:00-00:00	64.3	50.4
00:00-01:00	53.2	46.2
01:00-02:00	56.6	61.6
02:00-03:00	51.4	49.5
03:00-04:00	63.9	59.3
04:00-05:00	57.8	45.1
05:00-06:00	63.2	56.3

\*dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is releable 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 -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-22 To November-22**

Sampling Location	7 - Behind S.S. - 11 (Silo)	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	08/10/2022	08/11/2022
6:00-7:00	66.0	64.1
7:00-8:00	73.7	54.3
8:00-9:00	59.1	65.8
9:00-10:00	52.3	60.3
10:00-11:00	65.1	69.6
11:00-12:00	55.6	58.7
12:00-13:00	67.9	68.5
13:00-14:00	63.8	66.8
14:00-15:00	66.4	63.3
15:00-16:00	55.8	60.1
16:00-17:00	61.1	68.9
17:00-18:00	68.6	55.4
18:00-19:00	57.2	60.2
19:00-20:00	61.4	56.2
20:00-21:00	66.6	62.5
21:00-22:00	65.2	66.4

Sampling Location	7 - Behind S.S. - 11 (Silo)	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	08/10/2022 & 09/10/2022	08/11/2022 & 09/11/2022
22:00-23:00	55.7	53.7
23:00-00:00	61.5	55.1
00:00-01:00	65.6	56.3
01:00-02:00	61.6	52.8
02:00-03:00	59.5	61.6
03:00-04:00	51.2	49.3
04:00-05:00	65.7	58.2
05:00-06:00	52.5	44.1

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

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

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



Authorized Signatory







**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-22 To November-22**


Sampling Location	8 - Silo Loading Point	
	During Day Time - dB(A)Leq*	
Date of Monitoring	09/10/2022	09/11/2022
6:00-7:00	69.7	57.9
7:00-8:00	67.5	59.2
8:00-9:00	60.2	66.4
9:00-10:00	51.3	62.2
10:00-11:00	67.6	59.7
11:00-12:00	64.3	68.7
12:00-13:00	55.1	56.2
13:00-14:00	61.2	71.4
14:00-15:00	59.4	64.8
15:00-16:00	66.2	65.5
16:00-17:00	59.0	58.9
17:00-18:00	52.4	53.2
18:00-19:00	60.7	61.3
19:00-20:00	64.5	64.2
20:00-21:00	54.2	57.8
21:00-22:00	67.1	62.7

Sampling Location	8 - Silo Loading Point	
	During Night Time - dB(A)Leq*	
Date of Monitoring	09/10/2022 & 10/10/2022	09/11/2022 & 10/11/2022
22:00-23:00	53.6	51.2
23:00-00:00	55.5	46.6
00:00-01:00	56.2	54.5
01:00-02:00	63.7	49.3
02:00-03:00	60.6	55.1
03:00-04:00	62.4	48.9
04:00-05:00	52.2	60.5
05:00-06:00	60.1	49.6

\*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is referable 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-22 To November-22**


Sampling Location	9 - GCPTL Gate	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	10/10/2022	10/11/2022
6:00-7:00	56.4	66.7
7:00-8:00	61.2	58.2
8:00-9:00	69.7	70.1
9:00-10:00	59.2	67.5
10:00-11:00	65.9	65.4
11:00-12:00	58.4	53.3
12:00-13:00	57.3	69.9
13:00-14:00	71.6	61.6
14:00-15:00	55.4	56.1
15:00-16:00	51.2	62.1
16:00-17:00	65.4	67.8
17:00-18:00	63.5	56.0
18:00-19:00	56.2	57.3
19:00-20:00	67.8	61.4
20:00-21:00	69.4	71.6
21:00-22:00	59.9	56.2

Sampling Location	9 - GCPTL Gate	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	10/10/2022 & 11/10/2022	10/11/2022 & 11/11/2022
22:00-23:00	57.5	50.9
23:00-00:00	54.2	47.2
00:00-01:00	59.6	53.6
01:00-02:00	55.1	51.7
02:00-03:00	62.8	59.6
03:00-04:00	53.6	63.2
04:00-05:00	56.3	56.4
05:00-06:00	52.2	47.5

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

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

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



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**Tables - 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-22 To November-22**

Sampling Location	10 - Lakhi Village (Primary School)	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	12/10/2022	11/11/2022
6:00-7:00	55.8	58.5
7:00-8:00	59.4	68.6
8:00-9:00	66.3	67.9
9:00-10:00	57.5	56.2
10:00-11:00	54.2	62.4
11:00-12:00	56.8	65.2
12:00-13:00	51.6	59.1
13:00-14:00	60.7	62.7
14:00-15:00	66.7	60.5
15:00-16:00	60.2	56.8
16:00-17:00	63.3	69.4
17:00-18:00	59.8	59.2
18:00-19:00	61.5	67.1
19:00-20:00	69.5	69.5
20:00-21:00	62.7	66.9
21:00-22:00	64.8	52.4

Sampling Location	10 - Lakhi Village (Primary School)	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	12/10/2022 & 13/10/2022	11/11/2022 & 12/11/2022
22:00-23:00	46.3	58.4
23:00-00:00	49.5	51.7
00:00-01:00	63.6	64.3
01:00-02:00	51.2	53.5
02:00-03:00	56.8	49.8
03:00-04:00	55.4	51.5
04:00-05:00	46.1	59.3
05:00-06:00	58.9	60.6

\*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 -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-22 To November-22**

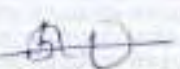
Sampling Location	11 - ERMS Workshop During Day Time - dB(A)Leq*	
Date of Monitoring	13/10/2022	13/11/2022
6:00-7:00	68.5	61.4
7:00-8:00	62.4	63.6
8:00-9:00	56.8	57.7
9:00-10:00	52.1	59.8
10:00-11:00	65.5	67.5
11:00-12:00	56.1	54.1
12:00-13:00	58.6	58.4
13:00-14:00	69.2	64.9
14:00-15:00	57.6	53.3
15:00-16:00	54.1	57.5
16:00-17:00	60.5	64.6
17:00-18:00	57.7	52.1
18:00-19:00	51.4	60.4
19:00-20:00	56.5	55.2
20:00-21:00	54.3	62.3
21:00-22:00	56.6	61.9

Sampling Location	11 - ERMS Workshop During Night Time - dB(A)Leq*	
Date of Monitoring	13/10/2022 & 14/10/2022	13/11/2022 & 14/11/2022
22:00-23:00	44.0	50.1
23:00-00:00	57.8	48.0
00:00-01:00	60.2	59.4
01:00-02:00	54.3	44.2
02:00-03:00	61.7	60.6
03:00-04:00	63.4	54.1
04:00-05:00	44.8	52.2
05:00-06:00	61.6	48.9

\*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 - 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-22 To November-22**

Sampling Location	12 - Behind Pump House	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	14/10/2022	15/11/2022
6:00-7:00	63.6	63.5
7:00-8:00	65.1	60.6
8:00-9:00	61.5	68.4
9:00-10:00	67.4	64.0
10:00-11:00	59.7	66.7
11:00-12:00	60.2	62.4
12:00-13:00	66.4	53.9
13:00-14:00	51.2	67.4
14:00-15:00	65.4	59.8
15:00-16:00	67.5	57.1
16:00-17:00	53.1	60.9
17:00-18:00	62.8	64.2
18:00-19:00	72.4	62.5
19:00-20:00	56.3	60.4
20:00-21:00	60.4	69.2
21:00-22:00	59.5	66.0

Sampling Location	12 - Behind Pump House	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	14/10/2022 & 15/10/2022	15/11/2022 & 16/11/2022
22:00-23:00	62.4	66.8
23:00-00:00	52.2	52.2
00:00-01:00	62.3	55.7
01:00-02:00	49.8	50.6
02:00-03:00	67.5	51.5
03:00-04:00	59.7	61.8
04:00-05:00	54.1	57.1
05:00-06:00	57.9	59.4

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

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

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

**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-22 To November-22**

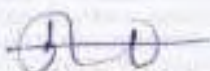
Sampling Location	13 - Rock Bond Approach (Jetty)	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	15/10/2022	16/11/2022
6:00-7:00	56.5	65.2
7:00-8:00	60.3	68.9
8:00-9:00	67.8	64.1
9:00-10:00	58.4	57.1
10:00-11:00	53.2	54.4
11:00-12:00	59.5	58.9
12:00-13:00	68.3	64.1
13:00-14:00	57.4	55.3
14:00-15:00	60.3	63.5
15:00-16:00	56.6	66.8
16:00-17:00	66.7	68.4
17:00-18:00	57.5	57.8
18:00-19:00	59.6	61.6
19:00-20:00	64.1	65.3
20:00-21:00	62.5	57.4
21:00-22:00	51.4	60.8

Sampling Location	13 - Rock Bond Approach (Jetty)	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	15/10/2022 & 16/10/2022	16/11/2022 & 17/11/2022
22:00-23:00	65.7	55.4
23:00-00:00	51.9	62.5
00:00-01:00	55.1	65.3
01:00-02:00	52.3	53.9
02:00-03:00	62.4	57.8
03:00-04:00	56.8	50.2
04:00-05:00	60.3	54.5
05:00-06:00	49.1	45.1

\*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.



**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-22 To November-22**

Sampling Location	14 - New Gate	
	During Day Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	17/10/2022	17/11/2022
6:00-7:00	66.2	58.1
7:00-8:00	70.5	63.3
8:00-9:00	69.3	62.2
9:00-10:00	60.2	55.2
10:00-11:00	55.4	58.4
11:00-12:00	67.3	63.6
12:00-13:00	65.0	54.2
13:00-14:00	55.3	52.7
14:00-15:00	69.7	68.5
15:00-16:00	64.8	62.3
16:00-17:00	68.3	57.8
17:00-18:00	61.1	66.3
18:00-19:00	67.4	54.3
19:00-20:00	60.5	67.9
20:00-21:00	64.1	60.0
21:00-22:00	55.2	64.2

Sampling Location	14 - New Gate	
	During Night Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	17/10/2022 & 18/10/2022	17/11/2022 & 18/11/2022
22:00-23:00	58.2	64.9
23:00-00:00	62.3	50.2
00:00-01:00	52.1	46.6
01:00-02:00	66.5	54.4
02:00-03:00	46.1	59.8
03:00-04:00	54.3	52.7
04:00-05:00	50.4	60.0
05:00-06:00	64.7	64.2

<sup>a</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 - 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-22 To November-22**

Sampling Location	15 - Security Barrier Gate	
	During Day Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	18/10/2022	18/11/2022
6:00-7:00	58.1	56.3
7:00-8:00	66.6	53.1
8:00-9:00	60.3	61.0
9:00-10:00	56.8	59.6
10:00-11:00	57.7	66.5
11:00-12:00	70.2	61.4
12:00-13:00	52.8	68.3
13:00-14:00	64.1	63.6
14:00-15:00	56.4	54.3
15:00-16:00	62.5	59.8
16:00-17:00	63.9	61.3
17:00-18:00	66.3	63.0
18:00-19:00	73.4	58.4
19:00-20:00	52.2	64.5
20:00-21:00	67.3	62.1
21:00-22:00	52.3	61.6

Sampling Location	15 - Security Barrier Gate	
	During Night Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	18/10/2022 & 19/10/2022	18/11/2022 & 19/11/2022
22:00-23:00	62.5	59.3
23:00-00:00	57.4	51.8
00:00-01:00	64.2	44.2
01:00-02:00	61.9	49.7
02:00-03:00	51.3	56.3
03:00-04:00	50.6	52.8
04:00-05:00	61.7	62.2
05:00-06:00	56.3	57.9

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

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

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

**Authorized Signatory**







**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-22 To November-22**

Sampling Location	16 - JS-2	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	19/10/2022	19/11/2022
6:00-7:00	55.2	62.8
7:00-8:00	60.1	65.6
8:00-9:00	65.9	63.1
9:00-10:00	73.5	54.5
10:00-11:00	64.4	59.6
11:00-12:00	60.7	58.4
12:00-13:00	57.1	51.3
13:00-14:00	67.9	58.6
14:00-15:00	69.4	63.9
15:00-16:00	70.4	60.5
16:00-17:00	52.1	54.2
17:00-18:00	61.0	57.6
18:00-19:00	54.2	59.5
19:00-20:00	72.4	62.2
20:00-21:00	52.6	58.3
21:00-22:00	65.1	63.6

Sampling Location	16 - JS-2	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	19/10/2022 & 20/10/2022	19/11/2022 & 20/11/2022
22:00-23:00	48.9	53.6
23:00-00:00	53.7	43.1
00:00-01:00	59.2	66.8
01:00-02:00	65.1	60.2
02:00-03:00	50.8	54.1
03:00-04:00	45.4	47.9
04:00-05:00	49.2	55.5
05:00-06:00	59.5	45.4

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

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

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

  
Authorized Signatory







**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-22 To November-22**

Sampling Location	17 - Railway Dead End	
	During Day Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	20/10/2022	21/11/2022
6:00-7:00	53.6	64.5
7:00-8:00	69.4	62.2
8:00-9:00	50.2	54.1
9:00-10:00	63.7	55.3
10:00-11:00	59.1	57.9
11:00-12:00	52.8	63.2
12:00-13:00	64.9	59.5
13:00-14:00	71.5	61.3
14:00-15:00	59.8	60.6
15:00-16:00	54.3	62.4
16:00-17:00	61.4	55.5
17:00-18:00	69.2	67.4
18:00-19:00	59.0	63.9
19:00-20:00	63.1	56.3
20:00-21:00	57.5	62.2
21:00-22:00	62.0	57.8

Sampling Location	17 - Railway Dead End	
	During Night Time - dB(A)Leq <sup>*</sup>	
Date of Monitoring	20/10/2022 & 21/10/2022	21/11/2022 & 22/11/2022
22:00-23:00	62.0	62.1
23:00-00:00	58.9	53.3
00:00-01:00	44.1	47.4
01:00-02:00	54.5	43.5
02:00-03:00	66.9	45.2
03:00-04:00	52.2	52.0
04:00-05:00	45.6	46.6
05:00-06:00	49.9	45.9

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

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

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

  
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-22 To November-22**

Sampling Location	18 – Open Storage Yard – 1	
	During Day Time - dB(A)Leq <sup>#</sup>	
Date of Monitoring	21/10/2022	22/11/2022
6:00-7:00	60.2	60.4
7:00-8:00	62.6	50.2
8:00-9:00	64.3	60.5
9:00-10:00	60.7	58.9
10:00-11:00	73.8	69.5
11:00-12:00	59.1	57.2
12:00-13:00	51.5	60.7
13:00-14:00	56.0	53.2
14:00-15:00	65.5	62.6
15:00-16:00	58.9	67.3
16:00-17:00	64.7	64.2
17:00-18:00	56.9	61.1
18:00-19:00	53.4	52.5
19:00-20:00	66.8	55.4
20:00-21:00	54.6	49.3
21:00-22:00	51.7	61.7

Sampling Location	18 – Open Storage Yard – 1	
	During Night Time - dB(A)Leq <sup>#</sup>	
Date of Monitoring	21/10/2022 & 22/10/2022	22/11/2022 & 23/11/2022
22:00-23:00	64.3	58.9
23:00-00:00	56.2	55.2
00:00-01:00	61.3	53.1
01:00-02:00	42.2	50.5
02:00-03:00	56.9	48.8
03:00-04:00	62.2	65.7
04:00-05:00	56.4	54.4
05:00-06:00	63.1	60.4

\*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 -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-22 To November-22**

Sampling Location	19 – Loco Shed	
	During Day Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	22/10/2022	23/11/2022
6:00-7:00	64.8	65.4
7:00-8:00	59.5	59.3
8:00-9:00	66.2	64.2
9:00-10:00	50.4	54.1
10:00-11:00	63.5	52.9
11:00-12:00	66.3	59.1
12:00-13:00	58.1	62.3
13:00-14:00	65.4	66.6
14:00-15:00	55.6	59.7
15:00-16:00	54.0	65.3
16:00-17:00	69.5	58.3
17:00-18:00	56.1	64.1
18:00-19:00	60.3	51.2
19:00-20:00	70.4	63.4
20:00-21:00	58.2	57.0
21:00-22:00	55.5	51.8

Sampling Location	19 – Loco Shed	
	During Night Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	22/10/2022 & 23/10/2022	23/11/2022 & 24/11/2022
22:00-23:00	57.8	44.2
23:00-00:00	47.1	57.4
00:00-01:00	58.6	43.0
01:00-02:00	47.5	48.9
02:00-03:00	53.8	46.1
03:00-04:00	57.3	49.4
04:00-05:00	51.7	50.3
05:00-06:00	60.2	51.0

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

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

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

  
Authorized Signatory







**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-22 To November-22**

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)	
	During Day Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	24/10/2022	25/11/2022
6:00-7:00	57.6	54.3
7:00-8:00	61.5	51.2
8:00-9:00	63.8	56.8
9:00-10:00	62.7	62.4
10:00-11:00	58.9	64.7
11:00-12:00	54.1	53.6
12:00-13:00	56.9	50.2
13:00-14:00	52.2	54.9
14:00-15:00	67.7	56.4
15:00-16:00	62.2	62.2
16:00-17:00	70.2	63.9
17:00-18:00	52.3	51.7
18:00-19:00	56.5	54.2
19:00-20:00	66.5	66.1
20:00-21:00	60.3	52.3
21:00-22:00	61.6	56.1

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)	
	During Night Time - dB(A)Leq <sup>a</sup>	
Date of Monitoring	24/10/2022 & 25/10/2022	25/11/2022 & 26/11/2022
22:00-23:00	63.6	60.1
23:00-00:00	47.5	52.4
00:00-01:00	52.2	50.6
01:00-02:00	59.4	48.7
02:00-03:00	61.6	50.3
03:00-04:00	53.8	55.2
04:00-05:00	49.3	51.4
05:00-06:00	45.1	64.8

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

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

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

  
Authorized Signatory







## ENVIRONMENTAL MONITORING REPORT

### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 1 - Near Substation – 6 Back side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	1 - Near Substation – 6 Back side					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	27.03.2023 & 28.03.2023
6:00-7:00	-	-	51.9	57.0	61.4	68.4
7:00-8:00	-	-	56.9	57.4	66.4	70.3
8:00-9:00	-	-	61.1	57.1	69.2	66.2
9:00-10:00	-	-	62.7	56.8	58.5	76.3
10:00-11:00	-	-	58.3	54.4	60.9	76.9
11:00-12:00	-	-	58.1	54.0	56.5	75.2
12:00-13:00	-	-	68.7	54.7	70.3	74.6
13:00-14:00	-	-	70.0	56.9	69.6	72.9
14:00-15:00	-	-	67.4	61.8	67.5	70.6
15:00-16:00	-	-	68.6	59.3	66.9	64.0
16:00-17:00	-	-	68.8	59.2	57.7	71.5
17:00-18:00	-	-	71.2	59.1	61.0	74.8
18:00-19:00	-	-	61.3	60.8	62.3	65.9
19:00-20:00	-	-	60.8	59.8	54.4	70.5
20:00-21:00	-	-	58.6	59.7	60.0	68.6
21:00-22:00	-	-	56.6	58.3	55.0	60.2
22:00-23:00	-	-	54.4	56.9	58.9	59.2
23:00-00:00	-	-	52.2	55.3	52.1	55.6
00:00-01:00	-	-	50.1	56.0	64.5	53.4
01:00-02:00	-	-	46.1	56.1	54.3	50.9
02:00-03:00	-	-	45.4	58.9	55.6	48.5
03:00-04:00	-	-	42.5	55.3	47.7	45.6
04:00-05:00	-	-	42.1	52.9	47.2	42.9
05:00-06:00	-	-	46.9	54.1	53.6	42.3

\*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.

# KADAM ENVIRONMENTAL CONSULTANTS

An ISO 2001 -2015 Certified Company

(MoEF Approved)

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## ENVIRONMENTAL MONITORING REPORT

### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 2 - Behind QHSE Office Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	2 - Behind QHSE Office					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	09.03.2023 & 10.03.2023
6:00-7:00	-	-	57.4	60.0	59.4	61.8
7:00-8:00	-	-	58.5	60.5	60.6	57.5
8:00-9:00	-	-	57.9	62.1	60.6	60.9
9:00-10:00	-	-	53.9	58.2	69.4	62.5
10:00-11:00	-	-	56.8	59.3	61.3	64.1
11:00-12:00	-	-	58.8	58.6	61.2	63.9
12:00-13:00	-	-	58.0	60.6	69.6	65.3
13:00-14:00	-	-	57.3	60.3	70.9	70.9
14:00-15:00	-	-	58.1	62.0	68.4	72.4
15:00-16:00	-	-	57.5	65.1	62.0	72.0
16:00-17:00	-	-	57.8	63.1	61.2	69.9
17:00-18:00	-	-	56.2	60.4	65.4	64.3
18:00-19:00	-	-	55.8	62.1	58.0	58.1
19:00-20:00	-	-	56.3	63.0	70.4	60.9
20:00-21:00	-	-	54.2	62.4	66.3	58.0
21:00-22:00	-	-	58.1	61.7	64.5	62.6
22:00-23:00	-	-	55.7	58.9	67.6	56.3
23:00-00:00	-	-	53.5	55.0	51.4	49.7
00:00-01:00	-	-	53.5	57.7	49.2	48.2
01:00-02:00	-	-	53.3	59.9	48.0	44.1
02:00-03:00	-	-	52.8	59.1	50.3	42.6
03:00-04:00	-	-	55.1	57.9	48.0	42.4
04:00-05:00	-	-	56.1	60.2	54.3	41.1
05:00-06:00	-	-	57.6	59.7	54.0	48.7

<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.



# KADAM ENVIRONMENTAL CONSULTANTS

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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 3 - 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-2022 to March-2023

Sampling Location	3 - PMC Office Back side					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	21.03.2023 & 22.03.2023
6:00-7:00	-	-	68.1	53.4	67.2	68.7
7:00-8:00	-	-	66.3	51.2	66.4	66.9
8:00-9:00	-	-	66.4	52.0	68.2	70.1
9:00-10:00	-	-	69.2	54.6	68.6	69.3
10:00-11:00	-	-	67.6	53.9	66.8	70.8
11:00-12:00	-	-	70.6	55.4	67.4	71.0
12:00-13:00	-	-	66.5	56.1	65.9	71.5
13:00-14:00	-	-	66.6	54.9	66.1	72.4
14:00-15:00	-	-	68.3	52.2	69.2	71.8
15:00-16:00	-	-	68.4	49.6	71.1	73.1
16:00-17:00	-	-	68.7	50.4	66.1	71.9
17:00-18:00	-	-	68.6	51.2	74.9	72.3
18:00-19:00	-	-	68.6	53.7	73.8	70.1
19:00-20:00	-	-	68.0	52.9	65.9	71.0
20:00-21:00	-	-	67.5	54.1	62.7	68.3
21:00-22:00	-	-	67.3	55.6	66.9	66.0
22:00-23:00	-	-	67.2	53.9	61.1	64.2
23:00-00:00	-	-	65.8	49.6	60.4	62.4
00:00-01:00	-	-	64.6	47.8	61.5	59.5
01:00-02:00	-	-	63.0	50.4	62.7	58.3
02:00-03:00	-	-	62.0	48.9	63.3	54.3
03:00-04:00	-	-	61.5	49.2	61.4	53.4
04:00-05:00	-	-	60.0	51.1	57.1	54.1
05:00-06:00	-	-	59.4	47.7	55.1	59.0

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

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

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

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### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 4 - Near Substation 7B Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	4 - Near Substation 7B					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	16.03.2023 & 17.03.2023
6:00-7:00	-	-	68.1	55.6	65.6	62.1
7:00-8:00	-	-	67.8	60.3	64.5	56.5
8:00-9:00	-	-	71.1	55.8	66.0	60.1
9:00-10:00	-	-	72.3	58.9	64.6	58.7
10:00-11:00	-	-	68.9	53.4	64.2	61.9
11:00-12:00	-	-	59.0	55.8	65.1	62.3
12:00-13:00	-	-	62.4	59.5	65.3	64.1
13:00-14:00	-	-	61.7	57.1	65.9	63.6
14:00-15:00	-	-	58.1	56.4	69.0	61.8
15:00-16:00	-	-	57.3	59.2	73.2	65.7
16:00-17:00	-	-	54.1	56.3	71.8	70.5
17:00-18:00	-	-	51.9	57.3	72.2	68.9
18:00-19:00	-	-	50.0	54.6	72.0	60.3
19:00-20:00	-	-	48.0	52.9	71.4	59.2
20:00-21:00	-	-	47.2	56.1	73.5	55.7
21:00-22:00	-	-	46.6	54.2	69.5	53.3
22:00-23:00	-	-	46.1	53.0	67.3	51.1
23:00-00:00	-	-	49.5	51.7	61.3	48.3
00:00-01:00	-	-	54.0	51.0	57.3	45.7
01:00-02:00	-	-	58.2	49.7	52.8	43.4
02:00-03:00	-	-	60.7	50.7	54.1	42.1
03:00-04:00	-	-	62.2	48.2	52.5	38.6
04:00-05:00	-	-	69.7	50.6	54.0	40.1
05:00-06:00	-	-	68.8	47.4	61.5	46.5

\*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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### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 5 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	5 - ERMS Workshop					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	08.03.2023 & 09.03.2023
6:00-7:00	-	-	61.8	61.1	59.8	58.4
7:00-8:00	-	-	64.2	60.9	60.1	58.3
8:00-9:00	-	-	67.1	58.7	61.6	57.9
9:00-10:00	-	-	66.4	59.3	61.9	57.9
10:00-11:00	-	-	62.9	62.6	62.1	57.4
11:00-12:00	-	-	63.0	63.4	60.9	58.4
12:00-13:00	-	-	66.1	61.8	61.4	61.3
13:00-14:00	-	-	65.6	60.9	62.9	62.4
14:00-15:00	-	-	64.7	59.6	59.9	65.9
15:00-16:00	-	-	62.5	61.3	61.2	63.8
16:00-17:00	-	-	61.4	58.8	62.3	61.6
17:00-18:00	-	-	60.6	57.4	58.4	60.0
18:00-19:00	-	-	63.2	55.2	59.2	62.8
19:00-20:00	-	-	65.1	59.1	56.5	59.7
20:00-21:00	-	-	64.8	60.6	57.8	58.2
21:00-22:00	-	-	62.4	57.3	51.6	67.9
22:00-23:00	-	-	61.9	56.9	55.9	62.2
23:00-00:00	-	-	63.7	54.2	56.1	60.9
00:00-01:00	-	-	62.1	53.6	57.9	58.8
01:00-02:00	-	-	60.9	51.1	54.2	61.1
02:00-03:00	-	-	59.4	54.7	48.9	62.6
03:00-04:00	-	-	55.7	52.8	54.5	61.3
04:00-05:00	-	-	57.8	50.6	59.9	58.7
05:00-06:00	-	-	56.9	53.3	58.8	58.1

\*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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### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 6 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	6 - Behind Pump House					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	04.03.2023 & 05.03.2023
6:00-7:00	-	-	50.4	51.9	59.0	38.0
7:00-8:00	-	-	51.3	56.9	58.8	36.6
8:00-9:00	-	-	51.7	61.1	60.1	36.5
9:00-10:00	-	-	51.3	62.7	60.0	38.2
10:00-11:00	-	-	54.4	58.3	60.2	43.9
11:00-12:00	-	-	51.3	58.1	61.1	43.3
12:00-13:00	-	-	53.4	68.7	60.1	42.6
13:00-14:00	-	-	53.8	70.0	60.6	40.6
14:00-15:00	-	-	50.8	67.4	60.8	39.3
15:00-16:00	-	-	52.2	68.6	63.0	39.1
16:00-17:00	-	-	46.1	68.8	63.1	37.7
17:00-18:00	-	-	49.7	71.2	63.4	36.6
18:00-19:00	-	-	46.1	61.3	64.0	36.9
19:00-20:00	-	-	47.4	60.8	65.5	39.6
20:00-21:00	-	-	45.9	58.6	64.1	42.4
21:00-22:00	-	-	46.1	56.6	64.6	47.1
22:00-23:00	-	-	44.9	54.4	61.3	46.2
23:00-00:00	-	-	42.8	52.2	57.1	41.3
00:00-01:00	-	-	43.1	50.1	58.7	42.3
01:00-02:00	-	-	45.6	46.1	59.2	36.6
02:00-03:00	-	-	48.1	45.4	56.7	35.1
03:00-04:00	-	-	47.9	42.5	59.0	38.4
04:00-05:00	-	-	50.6	42.1	57.4	42.2
05:00-06:00	-	-	51.1	46.9	59.1	38.1

\*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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### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 7 - ODC Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	7 - ODC Gate					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	30.12.2022 & 31.12.2022	30.01.2023 & 31.01.2023	24.02.2023 & 25.02.2023	17.03.2023 & 18.03.2023
6:00-7:00	-	-	54.0	57.4	58.9	67.1
7:00-8:00	-	-	53.9	58.5	59.8	65.3
8:00-9:00	-	-	53.9	57.9	60.5	66.2
9:00-10:00	-	-	54.1	53.9	61.3	74.6
10:00-11:00	-	-	52.4	56.8	60.8	73.1
11:00-12:00	-	-	54.0	58.8	60.7	72.9
12:00-13:00	-	-	53.3	58.0	59.0	70.8
13:00-14:00	-	-	53.6	57.3	62.1	71.6
14:00-15:00	-	-	53.4	58.1	60.9	74.1
15:00-16:00	-	-	53.2	57.5	58.9	64.0
16:00-17:00	-	-	54.3	57.8	61.2	71.5
17:00-18:00	-	-	55.2	56.2	60.7	74.8
18:00-19:00	-	-	53.5	55.8	61.1	65.9
19:00-20:00	-	-	52.9	56.3	58.4	70.5
20:00-21:00	-	-	52.1	54.2	57.6	68.6
21:00-22:00	-	-	52.1	58.1	58.4	60.2
22:00-23:00	-	-	49.5	55.7	58.7	59.2
23:00-00:00	-	-	49.8	53.5	57.6	55.6
00:00-01:00	-	-	48.2	53.5	55.4	53.4
01:00-02:00	-	-	46.5	53.3	54.3	50.9
02:00-03:00	-	-	45.4	52.8	55.9	48.5
03:00-04:00	-	-	45.8	55.1	57.8	45.6
04:00-05:00	-	-	47.0	56.1	58.9	42.9
05:00-06:00	-	-	50.1	57.6	59.7	42.3

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

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

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



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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 8 - OSY 1 Ambient Noise Level Monitoring Results during the  
Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	8 - OSY 1					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	20.03.2023 & 21.03.2023
6:00-7:00	-	-	55.6	58.1	52.9	74.9
7:00-8:00	-	-	58.8	55.3	54.2	77.3
8:00-9:00	-	-	59.2	55.4	51.3	77.2
9:00-10:00	-	-	68.0	59.2	53.3	77.1
10:00-11:00	-	-	62.4	57.5	55.5	76.6
11:00-12:00	-	-	65.7	60.5	56.6	76.1
12:00-13:00	-	-	63.4	55.5	51.9	77.2
13:00-14:00	-	-	72.2	55.5	54.9	77.0
14:00-15:00	-	-	73.3	58.3	55.6	76.1
15:00-16:00	-	-	74.1	58.4	59.7	75.5
16:00-17:00	-	-	65.6	58.7	55.9	75.9
17:00-18:00	-	-	58.1	58.5	56.9	75.7
18:00-19:00	-	-	61.9	58.5	57.1	75.6
19:00-20:00	-	-	60.0	58.0	55.4	75.6
20:00-21:00	-	-	59.1	57.5	56.2	75.8
21:00-22:00	-	-	58.8	57.3	55.9	75.8
22:00-23:00	-	-	50.2	57.2	50.1	75.5
23:00-00:00	-	-	49.5	55.8	51.7	75.6
00:00-01:00	-	-	53.5	54.5	48.8	75.6
01:00-02:00	-	-	47.9	53.0	45.9	75.4
02:00-03:00	-	-	49.5	52.0	43.5	75.4
03:00-04:00	-	-	50.2	51.5	51.5	75.3
04:00-05:00	-	-	54.0	50.0	52.6	75.4
05:00-06:00	-	-	49.5	49.4	49.8	76.2

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

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

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





## ENVIRONMENTAL MONITORING REPORT

### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 9 - Substation 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	9 - Substation 8 (Marine Building)					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	28.03.2023 & 29.03.2023
6:00-7:00	-	-	41.1	65.1	60.1	62.1
7:00-8:00	-	-	43.5	62.8	65.3	58.8
8:00-9:00	-	-	45.5	61.3	67.5	59.3
9:00-10:00	-	-	46.6	63.7	63.3	61.6
10:00-11:00	-	-	52.3	65.9	61.3	60.7
11:00-12:00	-	-	56.9	61.0	70.5	56.3
12:00-13:00	-	-	65.3	62.4	62.1	54.7
13:00-14:00	-	-	56.0	61.7	68.3	53.6
14:00-15:00	-	-	57.4	58.1	58.3	52.2
15:00-16:00	-	-	54.2	57.3	59.6	50.2
16:00-17:00	-	-	54.9	54.1	59.8	45.7
17:00-18:00	-	-	56.0	55.9	57.3	62.2
18:00-19:00	-	-	54.2	57.4	58.5	59.0
19:00-20:00	-	-	53.0	59.6	55.3	57.5
20:00-21:00	-	-	63.6	61.8	56.8	54.9
21:00-22:00	-	-	47.8	58.4	53.3	53.9
22:00-23:00	-	-	43.2	56.9	52.0	53.1
23:00-00:00	-	-	41.6	49.5	52.4	51.0
00:00-01:00	-	-	39.7	54.0	51.4	46.6
01:00-02:00	-	-	39.9	52.2	54.6	43.7
02:00-03:00	-	-	38.0	50.7	50.5	43.6
03:00-04:00	-	-	36.5	49.2	55.8	44.1
04:00-05:00	-	-	36.3	48.7	46.8	48.0
05:00-06:00	-	-	38.2	51.8	49.9	50.6

\*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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### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 10 - 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-2022 to March-2023

Sampling Location	10 - Rock Bond Approach (Jetty)					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	23.03.2023 & 24.03.2023
6:00-7:00	-	-	60.2	61.8	57.9	69.4
7:00-8:00	-	-	57.9	64.2	59.1	66.9
8:00-9:00	-	-	57.4	67.1	56.7	70.1
9:00-10:00	-	-	58.0	66.4	59.6	69.3
10:00-11:00	-	-	57.7	62.9	59.2	70.8
11:00-12:00	-	-	66.4	63.0	56.8	71.0
12:00-13:00	-	-	66.7	66.1	58.1	71.5
13:00-14:00	-	-	66.8	65.6	57.7	72.4
14:00-15:00	-	-	59.5	64.7	57.6	70.9
15:00-16:00	-	-	60.2	62.5	61.7	68.7
16:00-17:00	-	-	56.6	61.4	57.1	71.9
17:00-18:00	-	-	55.6	60.6	58.2	72.3
18:00-19:00	-	-	53.1	63.2	53.8	70.1
19:00-20:00	-	-	51.6	65.1	54.8	71.0
20:00-21:00	-	-	48.2	64.8	55.8	68.3
21:00-22:00	-	-	49.4	62.4	50.8	66.0
22:00-23:00	-	-	50.2	61.9	52.8	64.2
23:00-00:00	-	-	46.9	63.7	46.5	62.4
00:00-01:00	-	-	45.2	62.1	43.6	59.5
01:00-02:00	-	-	48.5	60.9	41.0	58.3
02:00-03:00	-	-	50.1	59.4	47.7	54.3
03:00-04:00	-	-	52.9	55.7	42.1	53.4
04:00-05:00	-	-	56.3	57.8	44.9	54.1
05:00-06:00	-	-	54.8	56.9	48.4	59.0

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

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

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



# KADAM ENVIRONMENTAL CONSULTANTS

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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 11 - ISPS Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	11 - ISPS Gate					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	10.03.2023 & 11.03.2023
6:00-7:00	-	-	52.4	60.2	56.2	63.1
7:00-8:00	-	-	51.6	57.9	56.8	58.4
8:00-9:00	-	-	52.4	57.4	57.6	57.0
9:00-10:00	-	-	51.3	58.0	59.6	59.8
10:00-11:00	-	-	51.3	57.7	58.4	64.9
11:00-12:00	-	-	50.8	66.4	56.6	62.9
12:00-13:00	-	-	51.6	66.7	54.8	61.1
13:00-14:00	-	-	54.2	66.8	60.3	67.6
14:00-15:00	-	-	51.8	59.5	54.8	62.4
15:00-16:00	-	-	50.4	60.2	51.6	66.4
16:00-17:00	-	-	53.0	56.6	51.8	66.6
17:00-18:00	-	-	53.1	55.6	47.3	67.0
18:00-19:00	-	-	52.7	53.1	51.3	59.4
19:00-20:00	-	-	50.9	51.6	51.6	60.3
20:00-21:00	-	-	51.6	48.2	56.9	56.7
21:00-22:00	-	-	53.1	49.4	51.3	55.6
22:00-23:00	-	-	50.6	50.2	47.9	53.3
23:00-00:00	-	-	45.4	46.9	51.9	51.5
00:00-01:00	-	-	47.9	45.2	50.8	51.2
01:00-02:00	-	-	48.7	48.5	40.6	66.6
02:00-03:00	-	-	51.1	50.1	46.6	66.8
03:00-04:00	-	-	52.6	52.9	48.7	65.2
04:00-05:00	-	-	50.6	56.3	50.6	55.9
05:00-06:00	-	-	49.8	54.8	47.9	56.3

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

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

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



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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 12 - CG - 1 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	12 - CG - 1					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	07.03.2023 & 08.03.2023
6:00-7:00	-	-	57.1	55.1	51.8	60.2
7:00-8:00	-	-	56.9	57.5	54.7	58.4
8:00-9:00	-	-	54.8	60.9	55.7	57.0
9:00-10:00	-	-	55.6	62.5	56.2	63.1
10:00-11:00	-	-	57.3	64.9	55.3	64.9
11:00-12:00	-	-	54.9	63.6	58.5	62.9
12:00-13:00	-	-	52.4	65.3	57.4	61.1
13:00-14:00	-	-	51.6	70.9	57.3	67.6
14:00-15:00	-	-	52.4	72.4	57.6	62.4
15:00-16:00	-	-	51.3	72.0	55.9	66.4
16:00-17:00	-	-	51.3	69.9	61.8	66.6
17:00-18:00	-	-	50.8	64.3	59.8	67.0
18:00-19:00	-	-	51.6	58.1	60.0	59.4
19:00-20:00	-	-	54.2	60.9	55.0	60.3
20:00-21:00	-	-	51.8	58.0	57.4	56.7
21:00-22:00	-	-	50.4	62.6	52.1	55.6
22:00-23:00	-	-	53.0	56.3	46.3	53.3
23:00-00:00	-	-	53.1	49.7	49.5	51.5
00:00-01:00	-	-	52.7	48.2	50.4	51.2
01:00-02:00	-	-	46.9	44.1	52.7	66.6
02:00-03:00	-	-	41.6	42.6	48.4	66.8
03:00-04:00	-	-	40.8	42.4	48.2	65.2
04:00-05:00	-	-	41.8	41.1	42.7	55.9
05:00-06:00	-	-	45.4	48.7	43.8	56.3

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

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

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

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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 13 - Behind Boundary of GCPTL Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	13 - Behind Boundary of GCPTL					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	29.12.2022 & 30.12.2022	28.01.2023 & 29.01.2023	27.02.2023 & 28.02.2023	03.03.2023 & 04.03.2023
6:00-7:00	-	-	58.9	50.4	54.5	62.4
7:00-8:00	-	-	56.5	51.3	57.3	59.9
8:00-9:00	-	-	56.8	51.7	58.4	60.9
9:00-10:00	-	-	60.2	51.3	58.9	69.3
10:00-11:00	-	-	63.4	54.4	58.0	70.4
11:00-12:00	-	-	59.6	51.3	61.1	72.0
12:00-13:00	-	-	56.2	53.4	60.1	72.3
13:00-14:00	-	-	57.9	53.8	60.0	73.0
14:00-15:00	-	-	58.3	50.8	60.3	71.8
15:00-16:00	-	-	59.1	52.2	58.5	71.9
16:00-17:00	-	-	58.4	46.1	64.5	71.3
17:00-18:00	-	-	56.9	49.7	62.5	66.4
18:00-19:00	-	-	56.5	46.1	62.7	60.1
19:00-20:00	-	-	56.2	47.4	57.7	60.7
20:00-21:00	-	-	51.4	45.9	60.1	57.6
21:00-22:00	-	-	50.6	46.1	54.8	55.3
22:00-23:00	-	-	51.5	44.9	49.0	52.3
23:00-00:00	-	-	52.5	42.8	48.0	49.4
00:00-01:00	-	-	53.7	43.1	48.9	48.1
01:00-02:00	-	-	50.3	45.6	51.2	45.9
02:00-03:00	-	-	50.1	48.1	46.9	43.9
03:00-04:00	-	-	48.8	47.9	46.7	40.7
04:00-05:00	-	-	49.1	50.6	41.2	44.4
05:00-06:00	-	-	48.6	51.1	42.3	50.2

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

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

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





## ENVIRONMENTAL MONITORING REPORT

### 3G. AMBIENT NOISE LEVEL MONITORING: -

Table - 14 - 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-2022 to March-2023

Sampling Location	14 - Lakhi Village (Below Conveyer Belt)					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	14.03.2023 & 15.03.2023
6:00-7:00	-	-	61.5	54.0	57.8	63.6
7:00-8:00	-	-	60.7	53.9	58.4	60.2
8:00-9:00	-	-	59.7	53.9	59.2	66.7
9:00-10:00	-	-	59.3	54.1	61.2	70.4
10:00-11:00	-	-	62.0	52.4	60.0	70.2
11:00-12:00	-	-	63.1	54.0	58.2	72.1
12:00-13:00	-	-	60.0	53.3	56.4	72.1
13:00-14:00	-	-	59.7	53.6	61.9	72.9
14:00-15:00	-	-	59.6	53.4	56.4	71.7
15:00-16:00	-	-	61.2	53.2	53.2	71.9
16:00-17:00	-	-	57.6	54.3	53.4	71.3
17:00-18:00	-	-	57.3	55.2	48.9	65.1
18:00-19:00	-	-	56.1	53.5	52.9	60.4
19:00-20:00	-	-	59.0	52.9	53.2	60.4
20:00-21:00	-	-	60.1	52.1	58.5	57.4
21:00-22:00	-	-	58.9	52.1	52.9	55.0
22:00-23:00	-	-	55.2	49.5	47.2	51.7
23:00-00:00	-	-	50.3	49.8	49.4	49.4
00:00-01:00	-	-	48.4	48.2	48.3	47.9
01:00-02:00	-	-	52.4	46.5	58.1	45.6
02:00-03:00	-	-	52.4	45.4	44.1	43.8
03:00-04:00	-	-	49.4	45.8	46.2	40.4
04:00-05:00	-	-	45.3	47.0	48.1	45.7
05:00-06:00	-	-	45.6	50.1	45.4	50.3

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

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

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



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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 15 - 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-2022 to March-2023

Sampling Location	15 - JS – 1 (Nr.Lakhigam)					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	11.03.2023 & 12.03.2023
6:00-7:00	-	-	55.1	55.6	59.6	40.2
7:00-8:00	-	-	57.5	58.8	60.8	36.6
8:00-9:00	-	-	60.9	59.2	58.4	36.5
9:00-10:00	-	-	62.5	68.0	61.3	38.2
10:00-11:00	-	-	64.9	62.4	60.9	43.9
11:00-12:00	-	-	63.6	65.7	58.5	43.3
12:00-13:00	-	-	65.3	63.4	59.8	45.6
13:00-14:00	-	-	70.9	72.2	59.4	48.2
14:00-15:00	-	-	72.4	73.3	59.3	39.3
15:00-16:00	-	-	72.0	74.1	63.4	39.1
16:00-17:00	-	-	69.9	65.6	58.8	37.7
17:00-18:00	-	-	64.3	58.1	59.9	38.1
18:00-19:00	-	-	58.1	61.9	55.5	36.9
19:00-20:00	-	-	60.9	60.0	56.4	39.6
20:00-21:00	-	-	58.0	59.1	57.2	42.4
21:00-22:00	-	-	62.6	58.8	52.1	44.2
22:00-23:00	-	-	56.3	50.2	54.6	46.2
23:00-00:00	-	-	49.7	49.5	52.2	44.6
00:00-01:00	-	-	48.2	53.5	49.3	42.3
01:00-02:00	-	-	44.1	47.9	46.7	36.6
02:00-03:00	-	-	42.6	49.5	53.4	36.4
03:00-04:00	-	-	42.4	50.2	57.1	37.2
04:00-05:00	-	-	41.1	54.0	50.6	35.6
05:00-06:00	-	-	48.7	49.5	54.1	36.2

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

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

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

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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

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-2022 to March-2023

Sampling Location	16 - JS – 2					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	11.03.2023 & 12.03.2023
6:00-7:00	-	-	61.1	61.5	58.8	42.2
7:00-8:00	-	-	60.9	60.7	64.0	45.6
8:00-9:00	-	-	58.7	59.7	66.2	46.4
9:00-10:00	-	-	59.3	59.3	62.0	51.4
10:00-11:00	-	-	62.6	62.0	60.0	56.0
11:00-12:00	-	-	63.4	63.1	69.2	60.6
12:00-13:00	-	-	61.8	60.0	60.8	62.9
13:00-14:00	-	-	60.9	59.7	67.0	65.8
14:00-15:00	-	-	59.6	59.6	57.0	68.3
15:00-16:00	-	-	61.3	61.2	58.3	70.2
16:00-17:00	-	-	58.8	57.6	58.5	69.1
17:00-18:00	-	-	57.4	57.3	56.0	65.6
18:00-19:00	-	-	55.2	56.1	57.2	63.2
19:00-20:00	-	-	59.1	59.0	54.0	53.4
20:00-21:00	-	-	60.6	60.1	55.5	59.0
21:00-22:00	-	-	57.3	58.9	52.0	67.4
22:00-23:00	-	-	56.9	55.2	50.7	68.6
23:00-00:00	-	-	54.2	50.3	50.3	66.2
00:00-01:00	-	-	53.6	48.4	49.3	64.8
01:00-02:00	-	-	51.1	52.4	52.5	62.9
02:00-03:00	-	-	54.7	52.4	48.4	60.0
03:00-04:00	-	-	52.8	49.4	53.7	57.3
04:00-05:00	-	-	50.6	45.3	44.7	59.1
05:00-06:00	-	-	53.3	45.6	47.8	45.0

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

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

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





## ENVIRONMENTAL MONITORING REPORT

### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 17 - Silo Loading Point Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	17 - Silo Loading Point					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	24.03.2023 & 25.03.2023
6:00-7:00	-	-	45.9	58.9	54.5	62.8
7:00-8:00	-	-	60.3	56.5	57.3	59.9
8:00-9:00	-	-	55.8	56.8	58.4	60.9
9:00-10:00	-	-	58.9	60.2	58.9	69.3
10:00-11:00	-	-	53.4	63.4	58.0	70.4
11:00-12:00	-	-	55.8	59.6	61.1	72.0
12:00-13:00	-	-	59.5	56.2	60.1	72.3
13:00-14:00	-	-	57.1	57.9	60.0	73.0
14:00-15:00	-	-	56.4	58.3	60.3	71.8
15:00-16:00	-	-	59.2	59.1	58.5	71.9
16:00-17:00	-	-	56.3	58.4	64.5	71.3
17:00-18:00	-	-	57.3	56.9	62.5	66.4
18:00-19:00	-	-	57.3	56.5	62.7	60.1
19:00-20:00	-	-	59.0	56.2	57.7	60.7
20:00-21:00	-	-	56.1	51.4	60.1	57.6
21:00-22:00	-	-	44.2	50.6	54.8	55.3
22:00-23:00	-	-	43.0	51.5	49.0	52.3
23:00-00:00	-	-	41.7	52.5	51.5	49.4
00:00-01:00	-	-	41.0	53.7	52.4	48.1
01:00-02:00	-	-	35.7	50.3	54.7	45.9
02:00-03:00	-	-	35.7	50.1	50.4	43.9
03:00-04:00	-	-	32.2	48.8	50.2	40.7
04:00-05:00	-	-	54.7	49.1	44.7	44.4
05:00-06:00	-	-	54.7	48.6	45.8	50.2

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

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

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

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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 18 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	18 - Railway Dead End					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	22.03.2023 & 23.03.2023
6:00-7:00	-	-	53.4	57.1	58.8	77.3
7:00-8:00	-	-	51.2	56.9	59.4	77.3
8:00-9:00	-	-	52.0	54.8	60.2	77.1
9:00-10:00	-	-	54.6	55.6	62.2	76.8
10:00-11:00	-	-	53.9	57.3	61.0	76.3
11:00-12:00	-	-	55.4	54.9	59.2	76.6
12:00-13:00	-	-	56.1	52.4	57.4	77.1
13:00-14:00	-	-	54.9	51.6	62.9	77.1
14:00-15:00	-	-	52.2	52.4	57.4	77.1
15:00-16:00	-	-	49.6	51.3	54.2	77.3
16:00-17:00	-	-	50.4	51.3	54.4	76.8
17:00-18:00	-	-	51.2	50.8	49.9	75.8
18:00-19:00	-	-	53.7	51.6	53.9	75.5
19:00-20:00	-	-	52.9	54.2	54.2	75.7
20:00-21:00	-	-	54.1	51.8	59.5	75.6
21:00-22:00	-	-	55.6	50.4	53.9	75.8
22:00-23:00	-	-	53.9	53.0	49.3	75.6
23:00-00:00	-	-	49.6	53.1	51.5	75.6
00:00-01:00	-	-	47.8	52.7	50.4	75.6
01:00-02:00	-	-	50.4	46.9	60.2	75.5
02:00-03:00	-	-	48.9	41.6	46.2	75.4
03:00-04:00	-	-	49.2	40.8	48.3	75.4
04:00-05:00	-	-	51.1	41.8	50.2	75.4
05:00-06:00	-	-	47.7	45.4	47.5	75.6

\*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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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 19 - Loco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	19 - Loco Shed					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	15.03.2023 & 16.03.2023
6:00-7:00	-	-	60.0	59.7	61.6	67.8
7:00-8:00	-	-	60.5	60.2	62.8	69.5
8:00-9:00	-	-	62.1	61.6	60.4	68.9
9:00-10:00	-	-	58.2	63.8	63.3	71.2
10:00-11:00	-	-	59.3	64.5	62.9	70.6
11:00-12:00	-	-	58.6	68.5	60.5	71.4
12:00-13:00	-	-	60.6	60.3	61.8	72.0
13:00-14:00	-	-	60.3	61.4	61.4	72.3
14:00-15:00	-	-	62.0	56.7	61.3	70.6
15:00-16:00	-	-	65.1	58.3	65.4	71.5
16:00-17:00	-	-	63.1	63.8	60.8	72.3
17:00-18:00	-	-	60.4	66.4	61.9	70.6
18:00-19:00	-	-	62.1	63.8	57.5	70.8
19:00-20:00	-	-	63.0	64.5	58.4	68.9
20:00-21:00	-	-	62.4	68.5	59.2	66.1
21:00-22:00	-	-	61.7	61.4	54.1	64.5
22:00-23:00	-	-	58.9	60.5	56.6	62.4
23:00-00:00	-	-	55.0	59.9	55.2	60.1
00:00-01:00	-	-	57.7	58.2	52.3	58.7
01:00-02:00	-	-	59.9	57.4	49.7	55.2
02:00-03:00	-	-	59.1	55.9	56.4	53.0
03:00-04:00	-	-	57.9	56.1	60.1	54.4
04:00-05:00	-	-	60.2	58.6	53.6	57.9
05:00-06:00	-	-	59.7	57.2	57.1	62.1

\*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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## ENVIRONMENTAL MONITORING REPORT



### 3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 20 - Behind Silo (S-11) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

Sampling Location	20 - Behind Silo (S-11)					
	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Date of Monitoring	-	-	31.12.2022 & 01.01.2023	31.01.2023 & 01.02.2023	25.02.2023 & 26.02.2023	06.03.2023 & 07.03.2023
6:00-7:00	-	-	57.0	58.2	62.1	62.1
7:00-8:00	-	-	57.4	59.3	67.3	58.4
8:00-9:00	-	-	57.1	57.0	69.5	57.0
9:00-10:00	-	-	56.8	57.6	65.3	59.3
10:00-11:00	-	-	54.4	59.3	63.3	64.9
11:00-12:00	-	-	54.0	62.2	72.5	62.9
12:00-13:00	-	-	54.7	66.5	64.1	61.1
13:00-14:00	-	-	56.9	64.7	70.3	67.6
14:00-15:00	-	-	61.8	65.0	60.3	62.4
15:00-16:00	-	-	59.3	64.4	61.6	66.4
16:00-17:00	-	-	59.2	63.4	61.8	66.6
17:00-18:00	-	-	59.1	61.7	59.3	67.0
18:00-19:00	-	-	60.8	59.0	60.5	59.4
19:00-20:00	-	-	59.8	57.1	57.3	60.3
20:00-21:00	-	-	59.7	56.0	58.8	56.7
21:00-22:00	-	-	58.3	55.7	55.3	55.6
22:00-23:00	-	-	56.9	55.4	54.0	53.3
23:00-00:00	-	-	55.3	54.0	52.4	51.5
00:00-01:00	-	-	56.0	54.6	51.4	51.2
01:00-02:00	-	-	56.1	55.1	54.6	66.6
02:00-03:00	-	-	58.9	54.7	50.5	66.8
03:00-04:00	-	-	55.3	54.1	55.8	65.2
04:00-05:00	-	-	52.9	54.1	46.8	55.9
05:00-06:00	-	-	54.1	54.6	49.9	56.3

\*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.





### 3H. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October-22 To November-22

Sr. No.	Parameters	Unit	Nov-22				
			29/11/2022				
			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>	28.36	24.25	26.51	32.43	24.53
2	Sulphur Dioxide	ppm	5.92	4.74	7.66	8.54	6.12
3	Oxide of Nitrogen	ppm	32.65	28.64	30.46	35.47	33.46
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>	0.038	0.023	0.032	0.045	0.03

Table No.: 3H.2 – DG Sets Noise Level Monitoring Results for the period: October-22 To November-22

Sr. No.	DG Set Average Noise Level In Leq. dB(A)	
	Sampling Location	At 1 m from the enclose outside
	Sampling Date	Nov-22
		29/11/2022
1.	DG Set # 1MRSS (SS5)	72.6
2.	DG Set # 2 SS7B	69.9
3.	DG Set # 3Marine (SS8)	70.1
4.	DG Set # 4Silo (SS11)	73.5
5	DG Set # 5 (SS7A)	68.4

Authorized Signatory



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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-2022 to March-23

Sr. No.	Parameters	Unit	Feb-23				
			24.02.2023				
			D.G.Set (7 B)	D.G.Set (SS-5)	D.G.Set (SS-7 A)	D.G.Set (Marine Building)	D.G.Set (SS-11)
1	Particulate Matter	mg/Nm <sup>3</sup>	31	28	36	30	37
2	Sulphur Dioxide(SO <sub>2</sub> )	ppm	13.93	17.86	12.63	15.31	16.46
3	Oxides of Nitrogen (NOx)	ppm	20.97	19.37	22.17	18.72	20.52
4	Carbon Monoxide	mg/Nm <sup>3</sup>	42.14	47.55	33.1	57.74	45.43



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## ENVIRONMENTAL MONITORING REPORT

Table No.: 3H.3 - DG Sets Noise Level Monitoring Results for the period: October-2022 to March-2023

DG Set Average Noise Level In Leq. dB(A)		
Sr. No.	Sampling Location	At 1 m from the enclose outside
	Sampling Date	February-22
		24/02/2022
1.	D.G.Set (7 B)	72.5
2.	D.G.Set (SS-5)	74.9
3.	D.G.Set (SS-7 A)	73.8
4.	D.G.Set (Marine Building)	71.6
5	D.G.Set (SS-11)	73.1

**Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port 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> APDPL 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.
1.3	<b>Sewage Management Plan</b>	
	<div>Sewage generated from the construction site will be treated in existing STP of 27 m<sup>3</sup> capacity.</div> <div>Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.</div>	<b>Complying with.</b> Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October, 2022 to March, 2023 are enclosed as <b>Annexure -3F</b> .
1.4	<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.
1.5	<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>ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)</b>	
2.1	<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. APDPL 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 APDPL.
	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 24.04 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 16 Ha area is being done. Remaining 7 ha area will be developed phase wise, as per the future requirement.
	<ul style="list-style-type: none"> <li>• 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.</li> </ul>	<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 24.04 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 – 8.</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.	
2.8	Environmental Management Cell			
	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.			<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 – 9.</b>
	EMC will be further strengthened in view of the proposed expansion by augmenting resources such as manpower and field equipments, for effective compliance of			

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.	<b>Complied.</b> Separate budget is allocated for Environmental Management activities. <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 2022-23 was approx. Rs. 359.16 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –6</b>.</li> </ul>

## Six Months Progress Report - Dahej





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## Preface

Adani Foundation's Dahej chapter started its CSR activities for Adani Power & Adani Dahej Port in 2011 in 12 villages – 7 core and 5 peripheral villages. **AF's journey at Dahej can be divided into two parts: Phase I establishing AF in the area through entry point activities and Phase II – implementation of project-based interventions with community contribution.** In initial phase, need based structures were constructed: houses for marginalized community HALPATIs of core villages – Lakhigam, Luvara and Jageshwar and repairing of Indira Awas in Suva and in other villages; approach road repair, community halls, solar light installation, pond deepening, cloth wash platform, crematorium, drainage, renovation of Lakhabawa temple and Ram Mandir, overhead tanks, bus stand, circle; boundary wall, classrooms, smart classrooms, BaLa paintings, drinking water facilities of schools and materials support to schools – Pragna books, bags with kits on Praveshotsav.

**In FY 2017 – 18** under Education vertical **Learning Enrichment Program (LEP)** in association with **Vidhya Bharathi Foundation, Ahmedabad** was launched in 8 Govt. schools with focus on remedial education to primary students lagging in reading, writing & numeracy. **In 1920 -21** this program was replaced by **AF's Project Utthan** by signing an MoU for 14 Govt. schools with District Primary Education Department. To cater health needs of the community **Mobile Health Care Unit** started with partner **Helpage India (2014 – 2019)** to provide immediate basic health care, counselling to the patients, with referral facilities at beneficiaries' doorsteps.

**In Sustainable Livelihood Development Adani Kamdhenu – Dairy Development Project** (launched in 2017 – 18 in 12 villages) has opened an alternate livelihood option for dairy farmers of 30 villages. Since its inception created an asset value of Rs. 1.60 crore and employment created for 42 families in dairy farming. **Women Entrepreneurship** chapter started in 2017 -18 with formation of Shiv **Shakti Sakhi Mandal, Jageshwar** – specialized in jute bag making. In 2020 – 21 two more SHGs were formed that creating story of success in the area: **Lakhigam based Sadhdada Sakhi Mandal's Amul Parlour (turnover: Rs.52.76 lakhs)** and **Mahadev Mahila Sakhi Mandal, Luvara's vermi compost production.** **Adani Annapurna Project** initiated in 2021 – 22 supporting farmers of 5 peripheral villages to keep alive their traditional occupation through smart agricultural practices & in 19 tribal villages with a focus on natural farming. **Under Community Engagement, Cricket Tournament of Lakhigam & Women's Day Celebration** distinguish us from the others. Plantation in schools, approach roads, around pond and in prominent places shows our commitment towards Green Environment. **Always stand with the community during disaster** – flood (2019), cyclone (2021) and during COVID (1<sup>st</sup> & 2<sup>nd</sup> wave) strengthen our relationship with stakeholders. **Contribution/support in District Administration's campaigns/ programs** shows our commitment as a responsible organization. **FY 2022 – 23** CSR's journey of **Reaching Unreached** touched **19 tribal villages (Netrang & Jhagadia) of Bharuch district** and **Kamdhenu Project is extended to 13 more villages of Dahej area.** **Growth with Goodness's** journey is continued...



## Demographic Profile

Business Unit	Adani Foundation
<p>Adani Petronet Dahej Port Limited. Dahej port is a deep water, multi-cargo port which is located in the Gulf of Khambhat. It is strategically situated on international maritime routes and provides easy access to the dense industrial hubs of Gujarat, Maharashtra and Madhya Pradesh. This makes it the preferred port for the cargo hubs functioning in the northern and western states and union territories of India. The port has covered and open storage areas with enormous capacity. Excellent cargo evacuation and receiving infrastructure, support smooth cargo movement in and out of the port. Expertise in successfully handling over-sized and overweight project cargo.</p> <ul style="list-style-type: none"><li>○ Expert at handling diversified cargo like Fertilizer, Agri, Mines &amp; Minerals and Steel &amp; Project Cargo</li><li>○ High speed elevated triangular gallery overland conveying system for coal transportation, which reduces dust pollution eliminating cargo spillages.</li><li>○ Fully mechanized cargo loading systems and wagon loading systems in place for speed and minimal spillage.</li><li>○ Priority berthing policy in place with dedicated berth for cargo.</li></ul>	<p>Adani Foundation's outreach in 4 talukas Vagra, Bharuch, Netrang &amp; Jhagadia. Total 49 villages of 38 Gram Panchayats; 16397 households; Population; 72423 (ST population: 30586)</p> <p>Vagra taluka has a total population of near 2 lakhs with 50.4% males and 49.6% of the females. The literacy rate of the Taluka is 73.71% which is lower than the national average. Bharuch taluka has a total population of near 3 lakhs with 51% males and 49% of the females. The literacy rate of the Taluka is 84% which is higher than the national average. Core villages of the project area are urban in nature having amenities like cities: CCTV, Gym, Spa, Waste disposal system.</p> <p>Major source of livelihood: job in companies, business &amp; agriculture, and animal husbandry (peripheral villages)</p> <p>Caste: Koli Patel, Rajput, Ahir, SC, ST &amp; Minorities</p> <p>Jhagdia &amp; Netrang talukas have a total population of nearly 2 lakhs with 52% of male and 48% female population. Literacy rate is higher than the national average with nearly 80%. Agriculture is the main source of livelihood in this area. Nealy 40% of the population come from the Schedule tribe in Netrang and Jhagdia talukas. Young generation engaged in labor work in nearby industrial areas.</p> <p>Caste: Vasava, Chaudhary &amp; Primitive tribe Kotwaliya (dependent on bamboo craft &amp; seasonal migration laborer)</p>





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## Executive Summary

In 2022-23 Adani Foundation expanded its geographical presence from 17 to 49 villages. One new initiative, Adani Aadiwasi Development Initiative (AADI) introduced in 19 tribal villages of Bharuch district and Kamdhenu Project is extended in another 13 villages of Dahej area.

AF got recognized for its commitment towards social development by District Administration, Bharuch for the contribution in My Livable Bharuch campaign, by Department of Social Afforestation, Bharuch for leading role in plantation drive, by Education Department, Netrang taluka for initiatives in tribal area schools and by Kalrav Charitable Trust, Bharuch for support for differently abled children.

### Key Highlights

#### Education: Project Utthan

- 3102 students under Project – Utthan, more than 60% students of class group of (3-6) are now able to read write and able to do simple calculations.
- English as a 3<sup>rd</sup> language: 48 per cent students learnt alphabets and simple words.
- **"IT on Wheels program"** launched with an objective to train students in basic computer skills.
- Smart classes in 4 schools and BaLA painting in 5 schools of tribal area are instrumental in teaching – learning of 1050 students.

#### Community Health:

- 2434 nos. of beneficiaries treated in 11 health camps and 1000 people attended the awareness sessions on WASH, seasonal diseases, and lifestyle diseases.
- AF facilitated the process for 254 villagers to get themselves enrolled in **"Pradhan Mantri Jan Aarogya Yojna"** by organizing special camps in 3 villages of Netrang area.

#### Sustainable livelihood development

##### Kamdhenu- Dairy development

568 Artificial inseminations were performed through 3 Cattle Breeding Centers, 328 Pregnancy Diagnosis and 90 nos. of Calving.

- 1328 animals treated in 27 nos. of animal health camps in 27 villages.
- 1677 beneficiaries participated in 55 nos. of training on natural farming & Livestock management practices in 49 villages.
- Total 35 female calves are born out of 67 calving in cows and 35 female calves out of 61 in buffaloes.

##### Adani Annapurna Project

- Adani Foundation in collaboration with Krishi Vigyan Kendra, Bharuch organized 27 nos. of training programs for 746 farmers of 20 villages.



- 
- A significant improvement in the yield of wheat nearly 2.5 times recorded in the area after AF intervention. Certified seeds, Agri- inputs and training gave farmers a new perspective of agriculture practices.

#### **Adani's Mahila Movement for Advancement - (AMMA)**

- Jaidev Mogra Maa Group, Hathakundi (Netrang) got a loan of Rs.1.50 lakh under Micro finance scheme of District Rural Development Agency, Bharuch for raw materials purchase.
- An integrated livelihood model is being developed in Suva Gaushala by youth engagement & women entrepreneurship in Gaushala Management & use of cow dung for different products – diya, pots, logs, dhoopsticks etc.

#### **Community Engagement:**

- Adani Foundation organized a cricket tournament in village Lakhigam, 32 teams and nearly 350 people participated in this tournament. This event emerged as a platform for the youth to connect with Adani business. This year all the teams took pledge of no substance abuse.
- Adani Foundation celebrated Women's Day with 600 nos. of tribal women of 18 villages at Netrang. 3 local women recognized for their remarkable contribution in the society.

#### **Community Infrastructure Development:**

- Developed a Greenbelt around Luvara pond. A total of 4000 plants of different species were planted out of which 250 plants planted at the roadside of the village.
- Developed a children's play area in Primary School Kaladara; provided 2 multiplay stations with swings, slides, cliff board and ladder, 2 see-saw, 4 benches and 5 decorated dustbins.



## Main section

### 1.1 Education

Project Utthan is introduced by Adani Foundation in the month of September-2021 in Lakhigam village, Vagra taluka of Bharuch with objective of enhancing learning outcomes in elementary education and handhold the "Priya Vidyarthi's" (Progressive Learners). Adani Foundation Dahej signed an MOU with Department of Primary Education for implementation of Project Utthan in 14 Govt. Schools

#### This comprehensive intervention entails:

- Enhancing the teaching learning outcomes
- Empowering 'Priya Vidyarthi's' (Progressive Learners)
- Introducing English as a third language in class 1 to 4
- Arresting dropout rates
- Collaborating for teachers' capacity building
- Creating joyful learning spaces

#### Outreach of Utthan:

SI	School name	Village Name	School Strength			Details of Deprived Community				
			Boys	Girls	Total	SC	ST	OBC	GEN	Others
1	Primary School Lakhigam	Lakhigam	225	233	458	111	182	131	34	0
2	Primary School Luvara	Luvara	112	124	236	6	162	56	0	12
3	Primary School Jageshwar	Jageshwar	70	94	164	45	33	75	0	11
4	Primary School Ambetha	Ambetha	73	65	138	6	59	64	0	9
5	Primary School Dahej Kumar	Dahej	414	0	414	32	180	131	0	71
6	Primary School Dahej Kanya	Dahej	0	397	397	39	145	140	0	73
7	Primary School Dahej Nava Vadiya	Dahej	13	22	35	5	7	17	0	6
8	Primary School Jolva	Jolva	84	102	186	11	48	76	0	51
9	Primary School Suva	Suva	141	136	277	16	114	138	0	9
10	Primary School Rahiyad	Rahiyad	116	121	237	12	120	98	0	7
11	Primary School Koliyad	Koliyad	45	52	97	5	48	31	0	13
12	Primary School Atali Asharamshala	Atali	90	65	155	0	139	16	0	0
13	Primary School Vengni	Vengni	47	61	108	1	56	48	0	3
14	Primary School Kaladara	Kaladara	95	105	200	3	115	58	0	24
Total		12	1525	1577	3102	292	1408	1079	34	289





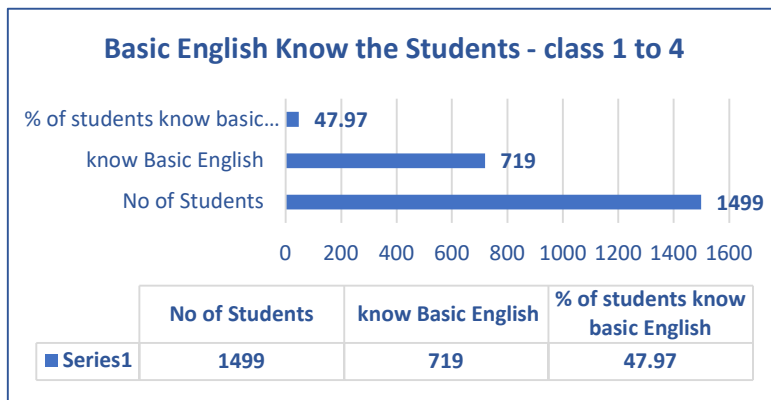
## Progressive Learners –

In the year-2022-23, baseline assessment had undertaken to know the learning level of Govt. Primary schools A total of 9 nos. of Govt. Schools covered in the assessment. 725 students identified as progressive learners in reading, writing and numeracy categories.

From October 2022 to March 2023,

- 639 students moved to the next level in the reading category: Now they can read Gujarati alphabets and simple words.
- 605 moved under writing category: They can write Gujarati alphabets and simple 2 – 3 letter words.
- 593 in numeracy category: They can identify numbers 1 to 100.

## Introduction of English as a third language in Class-1 to 4:



English as a third language: 49.7 per cent students know family names, animals names, 1 to 100 numbers, first and second ABCD, fruits and vegetables names, action word- sit down, stand up, run, body parts and introduce themselves.

## Enriched reading corner to develop reading habits - facilitated 2097 students

Stories and reading are an important part of child growth and development. Reading encourages:

- ✓ Children to build vocabulary.
- ✓ Derives connections between stories and their own lives.
- ✓ Understand how different people think about different things.
- ✓ Encourage students to express themselves more freely.

**Capacity Building of Utthan Sahayaks:** 10 Utthan Sahayaks underwent 8 days trainings on National Education Policy and mainstreaming of Progressive Learners.

## Volleyball Tournament

In Sports competition, Inter Primary School Volleyball Tournament organized for boys & girls of 10 Primary schools of Netrang Block and 5 Govt. Higher Secondary Schools of Dahej area. 210 students of Tribal area, Netrang participated from Govt. Primary Schools and 35 boys & 35 girls from Higher Secondary Schools: Dahej P.J. CCheda High School, Government High School Lakhigam and Shri OM Hari Vidhymandir Jageshwar.

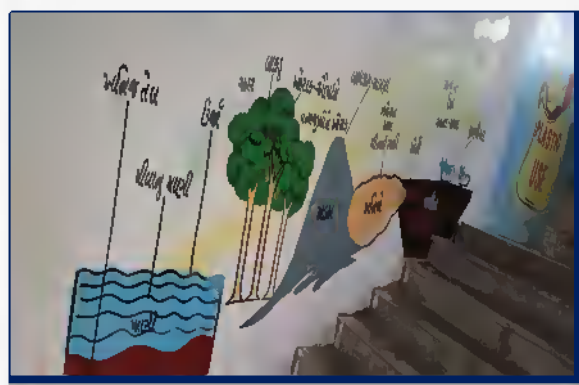


## Creating Joyful Learning Space:

**BaLA painting** is a very easy way to make students understand the subject through pictures easily; do not need to memorize the subject.

**Smart classes**, the students engage with curriculum via animations and videos as this smart class TVs are installed with 1 to 8<sup>th</sup> class subjects for project schools, using this advanced smart class teachers can quickly analyze and measure the students' progress and success.

5 nos. of Govt. Primary school of tribal area in Netrang Block provided Smart classes and Bala painting work as Primary School Koliyapada, Primary School Vankol, Primary School Navijamuni, Primary School Kavachiya and 26 no students are provided Navneet Topper Apps at Primary School Anjoli



BaLA paintings in Schools

## IT on Wheels Program Launch:

On 4-Jan-2023, IT on Wheels program launched at EHS training hall of Adani Petronet Dahej Port Ltd. by Sh. Jagdish Patel, COO, Dahej Port. Van carries 25

laptops and a teacher. Students of class 6 to 8 are taught basics of computer –



word, power point, excel etc. In this year, total 562 nos. of students are covered.

#### **OTHER ACTIVITIES: October 2022 – March 2023**

- 690 nos. of Home Visits by Utthan Sahayaks
- 52 nos. of Mothers' Meet were organized
- 1336 students participated in Diwali Mela
- 560 students participation in National Mathematics Day
- National Girl Child Day celebrated with 381 students
- 250 students participated in Drawing Competition organized by Dahej Port on Road Safety Week
- 30 students participated in Cluster level Science Exhibition
- National Science Day celebrated with 260 students
- Notebooks distributed to 2040 students
- 110 mothers participated in International Women's Day





## 1.2 Community Health

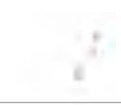
Multispecialty Health camps were organized in 11 villages of Vagra & Netrang, Talukas of Bharuch. Primary objective behind these camps is to work on prevention and cure of the health issues, basic screening facility at their doorstep to give them access of healthcare facility specially children, elderly, and pregnant women.

These camps were organized in collaboration with Govt. Health Departments, Gram Panchayats of respective villages and We CARE Health Center. These camps were held in the villages, Lakhigam, Luara, Jageshwar, Ambheta, Jolva, Kaladara, Koliyaad and Vegani of Dahej area and Koliyapada, Vankhunta and Mauza of tribal area. A total of **2434 beneficiaries** took the benefit from these camps. There were various services provided in the camps such as Pediatrician, Gynecologist, and general Physician along with ECG, CBC, RBS, and medicines.

Many beneficiaries were from the age group of 45 to 65 years as it is observed that these elderly patients are not able to go too far for the purpose of screening or medical checkup therefore these camps were like a boon for them. A doorstep service delivery made them able to get tested. The team is doing follow up and supports them to connect with the government hospitals for further treatment if required.

### DETAILS OF HEALTH CAMPS

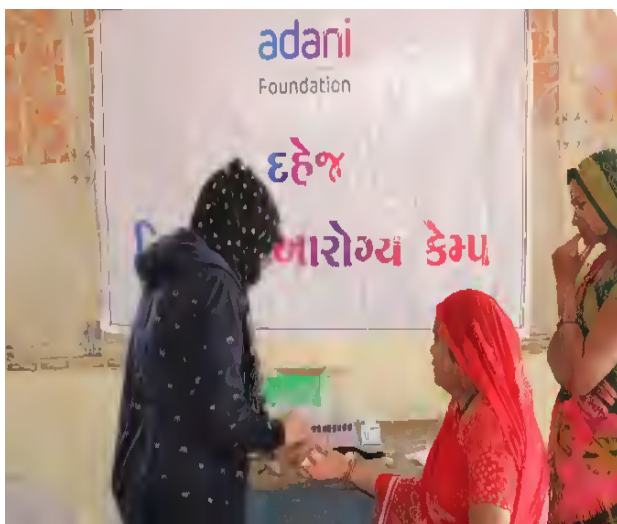
S.N.	Village	Total Beneficiaries	Male	Female	Child	CBC	RBS	ECG
1	Lakhigam	190	60	91	39	105	150	70
2	Ambhetta	145	45	80	20	85	104	92
3	Luvara	265	65	170	30	120	180	155
4	Jageshwar	247	92	115	40	125	170	98
5	Jolva	162	40	92	30	86	118	67
6	Kaladara	103	30	48	25	56	69	40
7	Koliyad	216	58	114	44	90	145	67
8	Vengani	118	30	63	25	45	80	46
9	Koliyapada	298	112	123	63	210	80	76
10	Vankhuta	285	64	85	136	58	119	115
11	Mauza	405	171	114	120	160	110	25
Total		2434	767	1095	572	1140	1325	851



### Awareness Sessions on Healthcare:

In tribal villages awareness sessions were held in the community. The primary objective of these awareness sessions was to generate awareness among the community on various health issues, health care services and schemes run by the government.

These sessions were highly interactive, and the beneficiaries participated with high energy resulting the heavy footfall in the health camps.



**RBS test details of Primary Dahej Center , Dahej.** A total of **811** beneficiaries took benefit of the tests. AF supported Dahej PHC with HbA1C analyzer, Bio chemistry analyzers and multi diagnostic kits in order to cater the needs of blood tests specially blood sugar, CBC in FY 2020 – 21. Since 2020, people of nearby villages avail the services. Dahej PHC provided the data to AF on monthly basis. A total of 23 villages' patients get benefitted in 2022 - 23.

### Village wise Details of RBS test

FY-2022-23 (RBS test details at PHC Dahej)						
S.N.	Village	Oct	Nov	Dec	Jan	Feb
1	Dahej	35	20	12	25	25
2	Jolva	15	10	18	20	20
3	Atali	17	5	6	15	15
4	Ambheta	12	4	10	18	18
5	Lakhigam	6	2	8	10	10
6	Narathi	0	0	0	0	0
7	Rahiyad	11	12	18	8	8
8	Luvara	10	15	5	11	11
9	Kadodara	8	7	7	8	12
10	Kaladra	4	3	9	12	5
11	Suva	8	6	2	5	7
12	Paniyadara	2	1	1	7	13
13	Vadadala	4	2	10	13	0
14	Vahiyal	0	0	2	0	4
15	Koliyad	9	8	15	4	0
16	Narnavi	0	0	0	0	6
17	Jageshwar	12	10	12	6	0
18	Jambusar	0	0	0	0	2
19	Galenda	2	1	7	2	1
20	Vov	1	3	5	1	2
21	Bhesli	15	12	6	2	2
22	Akhod	14	2	2	2	0
23	Vengni	6	10	1	0	1
<b>Total</b>		<b>191</b>	<b>133</b>	<b>156</b>	<b>169</b>	<b>162</b>

\*\* The Lab technician was not available in the PHC from April to September 2022.

### Important Days Celebration

#### **Celebration of Global Handwashing Day (15<sup>th</sup> Oct.):**

Adani Foundation organized Global Handwashing Day at Aanganwadi Centre of Navinagri, Lakhigam. A total of 55 children participated in the event. On this occasion a group activity was performed with the children of all age groups to create awareness among them on handwash and hygiene practices. The steps of hand wash and importance of hand wash were demonstrated through pictures.







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- **International Day of Person with Disabilities (03rd Dec.):**

This Day was celebrated with students of KALRAV school, Bharuch. KALRAV is a school for intellectually challenged children.

On this occasion students performed cultural programs. Parents of the children were also invited to this one-day program to encourage the kids. AF arranged snacks and gifts for the children and other participants.

**Convergence of Government Scheme:**

Adani Foundation facilitated the process of beneficiaries' registration under Pradhan Mantri Jan Aarogya Yojna (PMJAY) in collaboration with Taluka Health Officials of Netrang and respective Gram Panchayats. **258 beneficiaries of 3 tribal villages Dabhal – 154, Madvi – 78 and Hathakundi – 26 got Health Cards.** These villages are remotely located and a no. of beneficiaries were not aware about the Govt. scheme.

These beneficiaries were identified by Community Mobilizers during their door-to-door interaction and PRA exercises. The team coordinated with Health Officials and Gram Panchayats and arranged the camps in the villages. Beneficiaries got health cards. Now they can avail the benefits of (PMJAY). Prevalence of sickle cell anaemia is high in tribal villages. Now sickle cell anaemic patients are covered under in PMJAY will reduce the treatment burden of beneficiaries.



### 1.3 Sustainable Livelihood Development

Objective is to promote inclusive growth and progress through livelihood security of all sections of the society.

At Dahej site sustainable livelihood interventions are

**"Kamdhenu" - Dairy Development Project** initiated with BAIF Institute for Sustainable Livelihoods & Development (Gujarat) in 12 villages of Dahej area in November 2017. Objective: Create self-employment/ supplementary income through animal livestock development in project villages of Special Economic Zone, Dahej. 1<sup>st</sup> phase of the project completed in March 2022. A new MoU is signed in September 2022 for a period of 3 years.

After completion of the 1st phase an agency GOODERA was hired by business for impact assessment. The assessment found that the program has been successful in delivering the desired outcome by raising dairy farmers' income through livestock development. Dairy farmers' reported a 50 per cent increase in their income through milk production. Return on Investment (ROI) is about four times the initial investment.

The Project was extended from 12 to 17 villages in January 2022 and now it is extended further to 13 more villages in October 2022. Now reach is up to 30 villages and services are delivered by 3 cattle breeding centres: Dahej, Kadodara & Manad.

Kamdhenu Dairy Development Project															
AI, PD, Calving Village wise details Oct'22 to Mar'23															
S.N	Village	Total													
		AI			Examination			Pregnant			Cow Calving		Buff Calving		Total
		Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total	Male	Female	Male	Female	
1	Lakhigam	4	29	33	7	12	19	2	4	6	1	2	3	1	7
2	Luvara	11	24	35	4	20	24	0	9	9	0	3	5	4	12
3	Jageshwar	0	13	13	0	9	9	0	4	4	0	0	1	1	2
4	Ambheta	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Dahej	10	22	32	4	13	17	3	6	9	5	6	2	6	19
6	Jolva	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Suva	3	2	5	0	1	1	0	0	0	0	0	0	0	0
8	Rahiyad	4	29	33	0	23	23	0	13	13	2	0	2	1	5
9	Koliyad	17	17	34	0	8	8	0	6	6	0	1	3	5	9
10	Atali	2	3	5	2	3	5	2	1	3	0	0	0	0	0
11	Vengani	23	41	64	28	32	60	12	8	20	8	10	3	7	28
12	Kaladara	5	48	53	5	13	18	2	3	5	1	1	3	3	8
Total		79	228	307	50	134	184	318	54	75	17	23	22	28	90



1	kadodara	0	1	1	0	0	0	0	0	0	0	0	0	0	0
2	padadiya	1	0	1	0	0	0	0	0	0	0	0	0	0	0
3	paniadara	2	16	18	0	11	11	0	1	1	0	0	0	0	0
4	Narnavi	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	vav	2	8	10	0	7	7	0	2	2	0	0	0	0	0
6	Janiyadara	6	10	16	8	6	14	3	1	4	0	0	0	0	0
7	Nadarkha	5	8	13	4	9	13	0	4	4	0	0	0	0	0
	<b>Total</b>	<b>19</b>	<b>46</b>	<b>65</b>	<b>12</b>	<b>34</b>	<b>46</b>	<b>3</b>	<b>9</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
1	khobjal	2	0	2	2	4	6	0	2	2	0	0	0	0	0
2	Nadida	7	5	12	1	3	4	0	1	1	0	0	0	0	0
3	pakhajan	5	8	13	19	16	35	3	4	7	0	0	0	0	0
4	kothiya	18	21	39	3	5	8	2	1	3	0	0	0	0	0
5	manad	7	13	20	1	4	5	1	0	1	0	0	0	0	0
6	mehgam	4	4	8	0	3	3	0	2	2	0	0	0	0	0
7	Akhod	3	9	12	0	1	1	0	0	0	0	0	0	0	0
8	Bhuva	9	19	28	0	0	0	0	0	0	0	0	0	0	0
9	Navetha	7	7	14	0	0	0	0	0	0	0	0	0	0	0
10	Bhadbhut	9	7	16	2	0	2	2	0	2	0	0	0	0	0
11	Kasava	20	12	32	0	15	15	0	0	0	0	0	0	0	0
	<b>Total</b>	<b>91</b>	<b>105</b>	<b>196</b>	<b>28</b>	<b>51</b>	<b>79</b>	<b>8</b>	<b>10</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>G Total</b>	<b>189</b>	<b>379</b>	<b>568</b>	<b>90</b>	<b>219</b>	<b>309</b>	<b>329</b>	<b>73</b>	<b>105</b>	<b>17</b>	<b>23</b>	<b>22</b>	<b>28</b>	<b>90</b>

### IMPACT OF CATTLE BREEDING PROGRAMME

Period: - October- 2022 to March- 2023

S. N	Particular	Amount Rs.	Remarks
1	Calving of 19 Cow & Buffalos progenies are occurred till date. Assuming average milk production per lactating progeny will be 1800 litters. Accordingly, it is expected that they will produce total 34200 litters of milk which is being sold @ Cow Rs. 35 & Buffalo 55/litter	14,05,000	Annexure-1
2	Total 109 cows & Buffalos suffering from gynaecological disorders were treated successfully helps to make them pregnant and calving occurs. Assuming average milk production from each cow & Buffalos will be 1500 litter of milk which is being sold @ Rs. 55/litter. Total milk production from these 109 cows & Buffalos will be 180500 litter.	85,67,500	Annexure-2
3	Total <b>54</b> female calves are born in project villages whose age wise valuation as Asset Value is in attached sheet.	1,08,000	Annexure-3
4	Total <b>43</b> Male calves are born in project villages whose age wise valuation as Asset Value is in attached sheet.	43,000	Annexure-4
5	Promotion of Fodder varieties of BNH-10 Fodder Production 170.90 Ton	7,92,000	Annexure - 5
	<b>Total</b>	<b>1,09,15,500</b>	

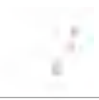




Annexure-1						
Progeny Production in Oct'22 to Mar'23						
S. N	Animal Species	No. Animal In production	Average Milk Production Ltr. in lactation	Total Milk Production Ltr.	Rate of Milk Rs	Total Milk Income Rs.
1	Cow	13	2000	26000	35	9,10,000
2	Buffalo	6	1500	9000	55	4,95,000
	<b>Total</b>	<b>19</b>		<b>35000</b>		<b>14,05,000</b>

Annexure-2										
Repeat Breeder Animal Report Period: - April-2022 to March- 2023										
S. N	No of Camp	Breed	No of Infertile animal Treated	AI + Natural Service	PD Follow-up	pregnant	Avg. Milk Production Ltr.	Total Milk Production Ltr.	Rate of Milk Rs	Total Milk Income Rs.
1	20	Cow	68	54	43	34	2000	68000	35	2380000
2		Buffalo	140	129	115	75	1500	112500	55	6187500
Total			208	183	158	109		180500		8567500

Annexure-3							
Created Female Asset Value Report Period: - October-2022 to March-2023							
S. N	Age (Month)	No of Female			Market Rate Rs.	Total Asset Value Rs.	Remarks
		Cows	Buffalo	Total			
1	0 To 6	28	26	54	2,000	108000	
2	6 To 12	26	17	43	6,000	258000	
3	12 To 18	28	61	89	15,000	1335000	
4	18 To 36	78	108	186	20,000	3720000	
5	36 & above	45	28	73	25,000	1825000	
6	Progeny AI	34	27	61	30,000	1830000	Cow 25000 Rs + Buffalo 30000 Rs.
7	Progeny Pregnant	22	9	31	37,500	1162500	Cow 35000 Rs + Buffalo 4000 Rs.
8	Progeny Calving	35	10	45	52,500	2362500	Cow 45000 Rs + Buffalo 60000 Rs.
<b>Total</b>		<b>296</b>	<b>286</b>	<b>582</b>		<b>12601000</b>	



#### Annexure-4

##### Created Male Asset Value Report Period: - October-2022 to March-2023

S. N	Age (Month)	No of Male			Market Rate (in Rs.)	Total Value (in Rs.)	Remarks
		Cows	Buffalo	Total			
1	0 to 6	19	24	43	1,000	43,000	
2	6 to 12	23	14	37	2,000	74,000	
3	12 to 18	23	43	66	5,000	3,30,000	
4	18 to 36	78	107	185	8,000	14,80,000	
5	36 & above	86	74	160	15,000	24,00,000	
	<b>Total</b>	<b>229</b>	<b>262</b>	<b>491</b>	<b>-</b>	<b>43,27,000</b>	

#### Annexure - 5

##### Green Fodder Production FY 2022-23

Month	Area in Acre	Beneficiary	Market Rate Rs.	Total Production in ton	Total Value Rs.
Oct-22	6.80	12	3500	42.70	1.4945
Nov-22	8.90	23	4000	29.00	1.16
Dec-22	8.90	23	5000	29.00	1.45
Jan-23	8.90	17	5000	40.00	2
Feb-23	8.90	14	6000	18.00	1.08
Mar-23	8.90	14	6000	12.20	0.732
<b>Grand Total</b>	<b>8.9</b>	<b>36</b>		<b>170.90</b>	<b>7.92</b>

##### Green Fodder Stump Distribution

S. N	Name of Beneficiary	Village
1	Patel Vinodbhai Madhavsang	Jageshwar
2	Patel Narshibhai Bhakabhai	Jageshwar
3	Patel Ratilal Rayjibhai	Jageshwar
4	Patel Raymal Jesangbhai	Jageshwar
5	Patel Mangalbhai Ranchhodbhai	Jageshwar
6	Patel Mansangbhai Prabhatbhai	Jageshwar
7	Yadav Vipulsinh Keshrisinh	Kaladara
8	Yadav Jashvantsinh Hamirsinh	Kaladara
9	Joshi Ashok Kalidas	Kaladara
10	Gohil Ramsung Bhagvanbhai	Kaladara
11	Gohil Ramsung Narsung	Kaladara
12	Rajendra Bhagavan Rathod	Koliyad
13	Makvana Sumitra Narendra	Koliyad
14	Parmar Hardipsinh Gumbhirsinh	Koliyad
15	Parmar Bhikhusinh Raysung	Koliyad
16	Gohil Jitsinh Rayjibhai	Lakhigam



17	Parmar Hamirsinh Kesarisinh	Luvara
18	Rathod Gemabhai Badharbhai	Luvara
19	Gohil Amjibhai Rayjibhai	Rahiyad
20	Gohil Mukeshbhai Somabhai	Rahiyad
21	Gohil Sureshbhai Somabhai	Rahiyad
22	Chauhan Narshibhai Bhayjibhai	Rahiyad
23	Gohil Bhikhubhai Mavsinh	Rahiyad
24	Gohil Ramilaben Rajeshbhai	Rahiyad
25	Vaghri Rajubhai Mohanbhai	Rahiyad
26	Vaghri Ramsangbhai Mohanbhai	Rahiyad
27	Vaghri Natvarbhai Mohanbhai	Rahiyad
28	Gohil Parthambhai Ishwarbhai	Rahiyad
29	Ardhyu Narotambhai Bharmalbhai	Rahiyad
30	Gohil Gambhirbhai Raysingbhai	Rahiyad
31	Patel Narsung Guman	Vengni
32	Parmar Bhupendra Dolatsinh	Vengni
33	Patel Fulsung Guman	Vengni
34	Jadav Niruben Tayasung	Vengni
35	Jadav Sureshbhai Rajubhai	Vengni
36	Raj Balvantsinh Ramsinh	Vengni

Animal Infertility & General Health Check-up Camp, Dahej						
S. N	Village	BUFFALO	INDIGENOUS COW	HF X	JR X	Total cases
1	Khojbal	33	0	1	17	51
2	Jageshwar	27	1	0	0	28
3	Nadarkha	38	6	23	2	69
4	Nadida	31	0	3	0	34
5	Kaladra	41	3	1	0	45
6	Akhod	36	5	0	1	42
7	Janiyadra	51	10	4	0	65
8	Koliyad	28	2	3	0	33
9	Vav	28	2	2	0	32
10	Manad	36	7	0	4	47
11	Mehgam	88	6	11	0	105
12	Luvara	27	7	18	0	52
13	Dahej	49	6	2	0	57
14	Kadodara	38	0	0	0	38
15	Kasva	17	8	0	0	25
16	Kothiya	27	9	8	5	49





17	Rahiyad	45	0	0	0	45
18	Padariya	48	0	0	0	48
19	Paniyadara	35	0	0	0	35
20	Bhadbhut	39	9	1	0	49
	<b>TOTAL</b>					<b>949</b>

Animal Husbandry Training FY 2022-23: Dahej area					
S. N	Center	Village	Beneficiaries		
			Male	Female	Total
1	Manad	Nadida	17	9	26
2	Manad	Khojabal	16	6	22
3	Manad	Bhesali	9	10	19
4	Manad	Pakhajan	18	2	20
5	Manad	Akhod	17	7	24
6	Manad	Manad	16	4	20
7	Manad	Mahegam	12	19	31
8	Manad	Kothiya	14	14	28
9	Manad	kasava	10	7	17
10	Manad	Bhadbhut	10	14	24
11	Manad	Bhuva	13	8	21
12	Manad	Navetha	18		18
13	Manad	Kasva (Samni)	7	14	21
14	Kadodara	Nadarakha	13	17	30
15	Kadodara	Janiyadara	17	10	27
16	Kadodara	Vav	17	3	20
17	Kadodara	Sambheti	4	23	27
18	Kadodara	Kadodara	11	17	28
19	Kadodara	Padadiya	7	13	20
20	Kadodara	Paniyadara	18	11	29
21	Kadodara	Narnavi	9	15	24
22	Dahej	Suva	18	54	72
23	Dahej	Rahiyad	12	25	37
24	Dahej	Jagesvar	8	31	39
25	Dahej	Lakhigam	8	27	35
26	Dahej	Vegani	9	33	42
27	Dahej	Koliyad	18	6	24
28	Dahej	Ambheta		20	20
29	Dahej	Luvara	8	14	22
30	Dahej	Kaladara (nava)	10	14	24



31	Dahej	Kaladara (Ahir Faliya)	16	2	18
	<b>Total</b>		<b>380</b>	<b>449</b>	<b>829</b>

Tribal area Animals' Camp Details								
	15.03.23	21.03.23	22.03.23	23.03.23	24.03.23	25.03.23	26.03.23	TOTAL
Village	DABHAL	PUNPUJIYA	VANKHUTA	JUNI JAMUNI	KAVACHIYA	ANJOLI	KAVACHIYA BHANGORIYA	
NO OF FAMILIES BENEFITTED	31	37	26	31	20	25	20	190
Buffalo	20	1	5	1	6	4	5	42
Buffalo Heifer	6					2	1	9
Buffalo Male Calf	5					1		6
Buffalo Fem Calf	3			2	1		1	7
	34	1	5	3	7	7	7	64
Indi Cow	1		15			9		25
Indi Heif	1					2		3
Indi Male Calf	0		5			1		6
Indi Fem Calf	7							7
	9	0	20	0	0	12	0	41
HF X Cow	2	35	6	16	12	7	24	102
HF X Heifer	1	12	5	17	9	3	4	51
HF X Male Calf				2	2		1	5
HF X Fem Calf		11	1	9	4		4	29
	3	58	12	44	27	10	33	187
JR X Cow	2	2	2	1	1		5	13
JR X Heifer	1			1	2		5	9
JR X Male Calf				2	1			3
JR X Fem Calf				2	3		3	8
	3	2	2	6	7	0	13	33



BULLOCK	5		13	1	4	6	1	30
BREEDING Bull				1				1
	5	0	13	2	4	6	1	31
<b>TOTAL</b>	54	61	52	55	45	35	54	356

Training Details on Natural Farming & Animal Husbandry: Tribal area				
S. N	Village	Beneficiaries' Details		
		Male	Female	Total
1	Kavachiya	99	35	134
2	Vankol	30	0	30
3	Vankhunta	20	16	36
4	Hathakundi	23	18	41
5	Juni Jamuni	38	71	109
6	Punpujiya	37	51	88
7	Anjoli	35	0	35
8	Mandvi	14	13	27
9	Koliyapada	62	0	62
10	Mahudikhanch	22	0	22
11	Pada	16	11	27
12	Mungaj	18	10	28
13	Navi Jamuni	28	14	42
14	Dabhal	24	9	33
15	Machhmadi	17	16	33
16	Umarkhada	24	0	24
17	Pingot	24	4	28
18	Mauza	0	30	30
19	Umadabra	15	12	27
	<b>TOTAL</b>	<b>546</b>	<b>310</b>	<b>856</b>





### **Adani Annapurna Project**

Adani Foundation in association with Krishi Vigyan Kendra, Chaswad (Bharuch) is working with 110 farmers of 5 villages – Vengani (38), Kaladara (26), Koliyad (24), Rahiyad (7) and Atali (5) of Varga Taluka and 853 farmers of 19 villages of tribal area. In Dahej area primary objective of the program is to adopt scientific agriculture practices to get maximum yield by using quality seeds and technical inputs from preparation of field to production of crops, whereas in tribal area focus is on natural farming.

#### **Key Highlights:**

- 746 nos. of farmers including 213 females participated in 27 nos. of trainings (25 in tribal area & 2 in Dahej area) on smart agriculture practices & natural farming.
- Farmers' Day is celebrated with 150 farmers in Koliyad village. Scientists, farmers and SHG engaged in vermi compost production exchanged their experiences. Immediate outcome: 4 farmers started use of vermi compost in their fields.
- Facilitated the process of 59 farmers' (6 villages) registration under KISAN SAMMAN NIDHI YOJNA for an assistance of Rs.6000/- in a year.
- **Seeds of wheat, chickpea, pigeon pea and jowar distributed to 97 farmers for 252 acres land in 5 villages of Dahej area. Farmers' contribution: Rs.45480/-.They also got crop inputs in application of hydrogel, nano urea & mono potassium phosphate. Farmers' contribution: Rs.32000/-**

#### **Outcome:**

- **A significant improvement in the yield of wheat nearly 2.5 times recorded in the area after AF intervention. Certified seeds, Agri- inputs and training gave farmers a new perspective of agriculture practices.**

### Adani's Mahila Movement for Advancement - (AMMA)

- AF is supporting 9 SHGs -5 in Dahej area and 4 of tribal area. All SHGs are registered under Mission Manglam of Livelihood Mission.
- In FY 2022 – 23, Jaidev Mogra Maa Group, Hathakundi (Dahej) – engaged in bamboo craft work got a loan of Rs.1.50 lakhs from DRDA's microfinance scheme for purchase of raw materials.
- Sadhdada Mahila Sakhi Mandal's turnover Rs. lakhs.
- Ekta Mahila Sakhi Mandal, Jolva is getting training on apparel and bag making by Deepak bhai of Urvi bag, Bharuch and got an order of 125 school bags.

### SHG's Progress: October 2022 – March 2023

S.N	Group	Members	Type of Business	Total Productions FY 2022-23	Income from Oct 22 to Mar 23 (in lakh)	Monthly Saving (In Rs.)	Total saving from Oct 22 to Mar 23 (in Rs.)
1	Shiv Shakti Sakhi Mandal, Jageshwar	10	Bag making & face masks	150 nos cotton bag, 165 Jute bags	0.48	1000	6000
2	Mahadev Mahila Sakhi Mandal, Luvara	11	Vermi compost	17.04-ton sale production	1.02	1100	6600
3	Sadhdada Mahila Sakhi Mandal, Lakhigam	11	Amul Parlour & Snacks	Dairy Products sale	2.47	5500	33000
4	Ekta Mahila Sakhi Mandal, Jolva	10				1000	6000
5	Guashala Mahila Sakhi Mandal, Suva	10				1000	6000
6	Jaidev Mogra Maa Group Hathakundi	10	Bamboo craft items		1.29	1000	5000
7	Shri Sakhi Mandal, Kavachiya	10				1000	3000
8	Sarvoday Mahila Sakhi Mandal Koliyapada	11				1100	10100
9	Anjali Sakhi Mandal, Pada	10				1000	4000
	<b>Total</b>	<b>93</b>			<b>5.26</b>		<b>79700</b>



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### INTERGRATED MODEL SUVA

To develop Suva Gaushala as an integrated model of livelihood through animal husbandry, fodder cultivation and women entrepreneurship that will lead to an increase of 30 to 40% in their income. Gaushala is being developed as an alternative source of livelihood for 50 youths and 10 women of Suva village. **Alternate revenue models for gaushala can include cow urine as floor cleaners, compost manure as organic fertilizer, use of cow dung as for pot making, diya making, log making, dhoop stick making.**

These youths and women are land losers of Adani Power Ltd, Suva. AF's interventions have developed a good relationship between the community and Adani's 3 businesses: Port, Power, and Cementation.

#### Key Highlights

- Materials' support for making products from cow dung: dewatering machine, log machine, diya making machine, cake making machine & pot making machine. A water tank is constructed for storage of cow dung.
- 2000 stumps of BHN 11 distributed for green fodder development and a direct support from Port Business in purchase of green fodder
- Gaushala's contribution in machine installation and in ploughing work: Rs.39000/-



## COMMUNITY ENGAGEMENT

### LAKHIGAM PREMIER LEAGUE

8<sup>th</sup> season of Lakhigam Premier League organized with 32 teams of Lakhigam village. Raja Meldi 11 emerged as a new champion in an exciting final match after defeating Baba sitaram 11 by seven runs. Lakhigam Deputy Sarpanch Shri Satishbhai Gohil and other panchayat members along with Mr. Anupam Singh from Corporate Affairs - Adani Dahej port graced the culmination ceremony of the tournament. The winning team and runner up team were felicitated with trophies, medals and gifts. More than 400 people enjoyed the final match.



In the break time of the Final match, Children of Project Utthan conveyed the message of **no substance abuse** by a skit to all the youths.

### WOMEN'S DAY CELEBRATION

AF celebrated Women's Day with tribal women of Netrang and Jhagadia Talukas on 27<sup>th</sup> February 2023 at Swaminarayan Temple Hall, Netrang

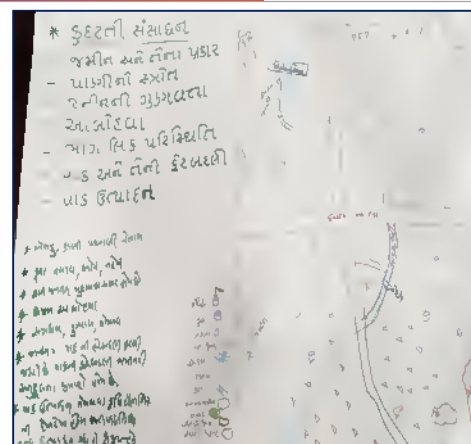
- More than 600 women of 18 villages participated in the event including Govt Officials of Health, Education, Livelihood, Women & Child Development departments: SHG members and housewives.
- AF honored 3 icons of women empowerment of tribal area.
  - **Drashti Vasava**, international level ice stock player, chief guest, spoke about her own achievements and experience and said that nothing is impossible in life if we move forward with a specific goal in life.
  - **Pritiben Vasava**, who runs her house by driving an eeco passenger van, said driving can be chosen as a profession.
  - **Tempo driver Sakhiben** – 55 years old lady, a symbol of empowerment, inspired women by her journey. She earns by driving Tata Magic
- Primary school girls of Hathakundi, Poojpuja, Moja, Junijamuni, Kwachiya villages of Netrang taluka performed folk dance.



## CAPACITY BUILDING PROGRAM

Adani Foundation, Dahej organised 3 days residential training for CSR team members on community mobilization and participatory rural appraisal with support of AKRSP (Aga Khan Rural Support Program), Netrang. Total 25 nos of participants participated: Project Officer - 6 (Dahej & Hazira site), Community Mobilizer- 5, Village Volunteers: 13  
Trainers: Mr. Manikant Giri and Narendrabhai Yadav  
Topics covered:

- What is social mobilization in context of community groups and role of mobilization.
- Challenges of community, strength, and weakness of community
- Social mobilization steps and role of mobilizers
- PRA tools: Transect walk, Resource Mapping, Social Mapping, Seasonal Calendar, Van diagram & Wealth mapping, FGD, Timeline
- Group activity in 3 groups on given topics - education, health, and livelihood for practical of PRA tools & presentation.
- Practical work at field level in Kavachiya village (Bhagoriya Faliya) with community people as three groups have to interact with the community by using PRA tools.



**EXPOSURE VISIT:** AF team members Unit CSR Head and Project Officer, SLD visited Project Saksham & Biogas Unit, Varanasi. Saksham model – use of cow dung for dhoop sticks, pots, diyas would be replicated at Suva Gaushala, Suva.

## 1.4 Community Infrastructure Development

and core curriculum along with storage cupboards. Students come from nearby villages like Mandala, Kakadkui, Khajlidabad, Bharada, Nana Madala and Beda etc. and get benefit of the library.

### Construction of Multipurpose Hall at Lakhigam



Adani foundation is constructing a multipurpose hall in Lakhigam. Construction took place on a 20 m X 10 m plot with the basic amenities like changing room, sanitation block, storeroom, and open kitchen with shed. Around 5000 people of

Lakhigam can take benefit of the hall. The hall can be utilized for organizing social functions, for the practice of indoor games, for training etc. Construction of the hall is underway and will be completed by end of May 2023.

### Develop Greenbelt around Luvara Pond



Luvara is a village situated in the vicinity of the Adani Petronet (Dahej) Port Limited. The village is surrounded by industries such as Reliance industries, Yashashvi Rasayan etc. To get clean air for survival is a basic need of the villagers. To enhance the environment Adani Foundation, Dahej has developed a greenbelt around pond in the village. Around 166m long fencing was provided to cordon the area and planted more than 3750 plants of different local species such as Seven, Peltophorum, Jamun, Bougainvillea, Jamun, Badam, Neem etc. On the sides of the approach road of the village 250 plants of Karen, Bougainvillea were planted with tree guard to enhance the aesthetic view.

### Children Park at Primary school, Kaladara



Kaladara village is a peripheral village of the Adani Foundation, Dahej. Under project Utthan, Adani foundation is closely working with the school for strengthening the education. At primary school, Kaladara, the equipment for recreation of the children was in deteriorated condition. Adani foundation has supplied and installed 2 sets of multilevel play station with slides and swings, a merry-go-round, 2 sets of multiseater see-saw, 4 FRP wooden plank benches and 5 No. of decorative dustbin to build health practice of using dustbin from childhood to the school.



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## 1.5 Employee Volunteering Program (EVP)

In September 2022 kotwaliya community artisans got the opportunity to meet Adani Group Chairman Shri. Gautam Adani and Dr. Priti G Adani, Chairperson of Adani Foundation at Gram Bharti, Ahmedabad. In the same line, various bamboo products items exhibitions, sale of items and training program was organized for Adani Dahej Port employees and their families under Employee Volunteering Program (EVP). This program was held on 11<sup>th</sup> December 2022 at Atithi



Resorts, Bharuch. Objective was to ADOPT NATURAL & REDUCE PLASTIC and support to primitive tribe KOTWALIYA. A team of six artisans – 4 females and 2 males from Kotwaliya community of interior tribal village Pingot of Bharuch district trained 30 employees' family members in bamboo craft work – small baskets and mats. Artisans came with raw materials – bamboo strings from the village. Family members rejoiced the session and made bamboo craft items. CEO of Adani Port Dahej & Hazira, Sh. Capt. Anil Kishore Singh and his wife Mrs. Uma Singh motivated and appreciated Kotwalia for their work of bamboo craft by saying that 'biodegradable items are made from natural materials which means they are safer for users. Conventional plastics are made from harmful by-products and chemicals that pose a threat to the environment and even life.'

The immediate outcome of this program is Kotwaliya community is getting orders of different kinds of baskets, mats, coasters from Port employees' families.

Gamelbhai and Jthathabhai Kotwaliya said "very first time we can showcase our art in Bharuch city with help of Adani Foundation and Adani Port. Thanks.'

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## 1.7 Case stories

### Project Utthan transformed my life: Illaben

My name is Illaben Vinodbhai Rathod, studying in class-6 at kanyaShala Dahej. My parents, Vinodbhai and mother Manjuben are daily wage workers. We live in small Indira Awas got under Government Scheme. My two sisters are doing house cleaning & labour work in Dahej area. My parents were not taking too much interest in my studies as both were engaged with earning bread and butter for the family. Every day I used to go to my Anuty's house to get ready for going to school but my Aunt was addicted with tobacco chewing and alcohol. I had to stay with my aunty Dariyaben as there was no other option. It was continued for almost 3 years. In between I became a tobacco addict. Rather going to school, I helped my aunt in her household work. I was an irregular student – attained the class only four or five times in a month that affected my learning ability. One day Utthan Sahayak, Arunaben came in my Rathod community for home visit. She had a small meeting with my classmates' mothers and making them realization of importance of education and benefit of school going. I was standing next to her, and she asked me "which class you are studying" I was not able to utter a single word. My neighbor Dadi says "she is not going to school and simply wondering with peer groups.

After knowing about me, Utthan Sahayak visited two times in a day to meet my parents and aunty to convince them about sending school. After her continuous efforts, she met with my parents and explained how absenteeism could affect learning ability of a child. After long time I started going to school but my habit of taking tobacco chewing was continued. I didn't take tobacco during school time. I used to run away from

**Silage Effect on Milk Production**  
school for taking tobacco from my Aunty's house. Utthan sahayak, explained the difficulties of an addicted person. She spent full days with me in the school, it was almost for a week. Today, I am a regular student and taking interest in learning. I totally stopped tobacco chewing and myself get ready for school. **I am grateful to Utthan sahayak for supporting in such conditions and educated me on de-addiction. Within a month I can identify the numbers and Gujarati alphabets. She admitted that it is only possible because of Arunaben (Utthan Sahayak).**



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

Atali is a village of Vagra taluka of Bharuch district. Village population is 1150 and total nos. of household is 239. My village is turned into urban village as most of the people are selling their lands to industry. Only 12 families are engaged in livestock management and farming.

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

On 18. 1. 2022 Adani Foundation had conducted farmers meeting in our village. In this meeting we got information on – Silage making for animals feeding. Silage making would solve the problem of unavailability of green fodder in summer. In March 2022 I got 10 silage bags of 50kgs. Total silage: 500 kgs. After feeding of silage milk production increased by 2 litres per day (from current milk production 6 litres). Total increase in milk production 120 liters in 60 days and total increase in income Rs. 7200/- in just 60 days. I have compared my milk production of last year (2021) and this year (2022) of same season & same animal given in table.



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



### Adani Kamdhenu Project changed me from a Laborer to an Employer

My Name is Satishbhai Bhimsangbhai Gohil. I live at Vengani village with 8 family members. My family's income sources are agriculture & animal husbandry. At present there are a total of 22 animals in my house - 12 buffaloes, 2 cows and 8 buffalo heifers and 20 acres of land. I do rainfed farming and fodder cultivation.



Before 2017 I was a masonry worker in the company, but my earnings were very low. In addition, I started to work as a casual laborer too, but failed to fulfill the needs of my family. I was getting frustrated.

In November 2017 Adani Foundation with support of BAIF Sustainability Livelihood Development (an organization known for their expertise in animal husbandry) launched Animal Husbandry Program in 12 project villages of Adani Dahej Port. Under the project a Cattle Breeding Centre (CBC) was established in Dahej village. AF and BAIF team members were conducting small meetings and trainings on animal husbandry in villages. I got the opportunity to attend one such training organized in my village. This training was the turning point in my life. First time I got acquainted with animal husbandry and it could be a good source of income. I started to collect more and more information on animal husbandry. Somehow, I managed to buy a buffalo from Kaladara village. Every day I was getting 8 litres milk that was sold @ Rs.50 per litre, Rs.12000/- in a month. My masonry work was simultaneously going on. I saved money and bought 3 more buffaloes. Now in a month getting Rs.40,500 from milk selling. Such earnings motivated me to choose animal husbandry as a primary source of income.

At present I have 12 buffaloes, out of these 8 are lactating and 4 are pregnant. From These 8 lactating buffalos 60 litres milk is procured every day and sell @ Rs. 50/ liter. Monthly 1800 litre milk and earning Rs.90000/-. A total of 16200-liter milk was procured last year. From which I earned Rs 800,000/-. If I deduct expenditure of fodder, feed, treatment, labour charges which is Rs, 4,00,000/- my net profit is Rs. 4,00, 000.

**The income from the dairy farm business now helps me to employ one person to take care of the cattle. I have constructed one store where fodder is stored. I am also a part of Adani Annapurna Project (Agriculture project). Now I can meet the needs of my children and other family members. The Adani Foundation showed me the path of success.**

## 1.8 Media coverage

**મત્સ્ય-અંકલેખર 27-02-2023**

**મત્સ્ય-અંકલેખર** જોડેમ જા વિષે અમારા જે વેદવા પ્રસિદ્ધ વાંસના વસ્તુઓ બાળકોનું હૃદય ધરતો છે

### કોટવાળિયા પરિવારની કુળને વૈશ્વિક ઓળખ મળશે કોર્પોરેટ ગિફ્ટિંગમાં વાંસની વસ્તુઓની માગ વધી

મત્સ્ય-અંકલેખર

કોટવાળિયા પરિવારની કુળને વૈશ્વિક ઓળખ મળશે કોર્પોરેટ ગિફ્ટિંગમાં વાંસની વસ્તુઓની માગ વધી

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**લઘાપુંડી/પીંગુટના કોટવાળિયા સમુદાયના કદીંગરોએ પરંપરાગત વારસાને રાખ્યો છે જીવંત**

લઘાપુંડી/પીંગુટના કોટવાળિયા સમુદાયના કદીંગરોએ પરંપરાગત વારસાને રાખ્યો છે જીવંત

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### અદાણી ફાઉન્ડેશને નેત્રંગ તાલુકાના અંતરિયાળ વિસ્તારમાં પુસ્તકાલયની સ્થાપના કરી

ધનકાર પ્રતિનિધિ, વાગરા, તા. ૦૮

ગ્રામીણ વિસ્તારમાં સ્પર્ધાત્મક પરીણામોની તૈયારી કરતાં યુવાનોને ધર આંગણે સુવિધા મળે એ આશયથી અદાણી ફાઉન્ડેશન, દહેજ દ્વારા ભરૂચના અંતરિયાળ વિસ્તારમાં પુસ્તકાલયની સ્થાપના કરી હતી. જેનું ઉદ્ઘાટન હજારો અને દહેજ અદાણી પોન્ટના સીઈઓ અનિલ કિશોર સિંહના હસ્તે સ્થાનિક આગેવાનોની હાજરીમાં કર્યું હતું. નેત્રંગ તાલુકાના થવા અને આસપાસના ગામોના ૧૦૦થી વધુ વિદ્યાર્થીઓ સ્પર્ધાત્મક પરીણામો ભાગ લેતા હોય છે પરંતુ આર્થિક સ્થિતિ અને વાંચન સામગ્રીની સુવિધાના અભાવે પરીણામોમાં ઉત્તમ પ્રદર્શન કરી શકતા ન હતા. જે ભાવે નેત્રંગ તાલુકાની ફાઉન્ડેશન દ્વારા સુવિધા સજ્જ લાગુ પડે

(તસવીર : મફર ગડીમલ)

ભનાવવાનું નકકી કરાયું હતું. ગામવાસીઓ યુવાન સ્પર્ધાત્મક પરીણામો તૈયારી સુરે કરી શકે એ માટે સંદર્ભ સાહિત્ય સાથે ની પુસ્તકાલયમાં ગુજરાતી, હિન્દી અને ગ્રેજીક ના પુસ્તકો ઉપલબ્ધ કરાવાયા છે. જેમાં અભ્યાસક્રમ ના પુસ્તકો ઉપરાંત જનરલ નોલેજ, મહાન વ્યક્તિઓના જીવનચરિત્ર, નવલકથાઓ અને અન્ય અન્ય નો સમાવેશ કરાયો હતો. આજના લોકાર્પણ કાર્યક્રમ દરમિયાન અદાણી ફાઉન્ડેશન દહેજ દ્વારા પુસ્તકાલયમાં વધુ પુસ્તકોની સાથે સમયોત્તરે વિષય નિષ્ણાત વક્તા અને સલાહકારોની શિબિરનું પણ આયોજન કરવામાં આવશે ની જાહેરાત કરવામાં આવી હતી. અદાણી ફાઉન્ડેશન ડેવલપમેન્ટ પરીણામો પાસ કરનારા વિદ્યાર્થીઓને મદદરૂપ બનવા સાથે સામાજિક સ્તર ઊંચુ ધાવવાનો છે.

### દહેજ વિસ્તારની પ્રથમ આઈ.ટી.ઓન બિલ્ડ શરૂ ૧૪ ગામના વિદ્યાર્થીઓને વાન દ્વારા કોમ્પ્યુટર શિક્ષણ અપાશે

અદાણી ફાઉન્ડેશન દ્વારા નિર્મિત આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે. આ આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે. આ આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે.

અદાણી ફાઉન્ડેશન દ્વારા નિર્મિત આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે. આ આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે. આ આઈ.ટી.ઓન બિલ્ડ શરૂ કરવામાં આવ્યો છે.

### અદાણી ફાઉન્ડેશન દ્વારા નેત્રંગ તાલુકાની પ્રાથમિક શાળાના વિદ્યાર્થીઓ માટે વોલોબોલ ટૂર્નામેન્ટનું સફળ આયોજન

નેત્રંગ તાલુકાની પ્રાથમિક શાળાના વિદ્યાર્થીઓ માટે વોલોબોલ ટૂર્નામેન્ટનું સફળ આયોજન

નેત્રંગ તાલુકાની પ્રાથમિક શાળાના વિદ્યાર્થીઓ માટે વોલોબોલ ટૂર્નામેન્ટનું સફળ આયોજન

### અદાણી ફાઉન્ડેશન દ્વારા વાગરાના આઠ ગામોમાં મલ્ટિપેરિયાલિટી હેલ્થ કેમ્પ યોજાયા

અદાણી ફાઉન્ડેશન દ્વારા વાગરાના આઠ ગામોમાં મલ્ટિપેરિયાલિટી હેલ્થ કેમ્પ યોજાયા

અદાણી ફાઉન્ડેશન દ્વારા વાગરાના આઠ ગામોમાં મલ્ટિપેરિયાલિટી હેલ્થ કેમ્પ યોજાયા

**Chandra Shekhar Gowda - 1st**  
Social Impact Specialist, Life and Performance

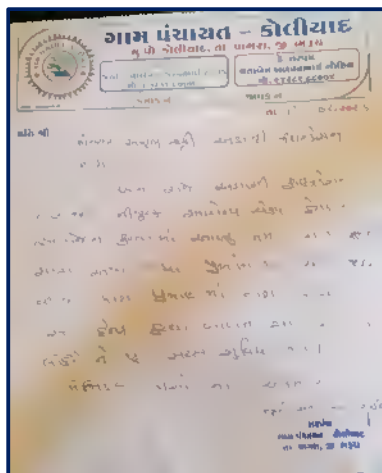
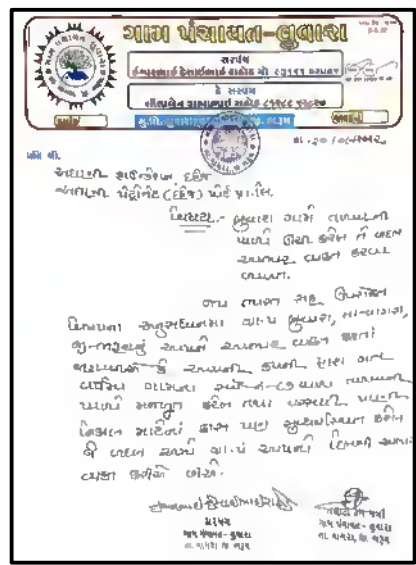
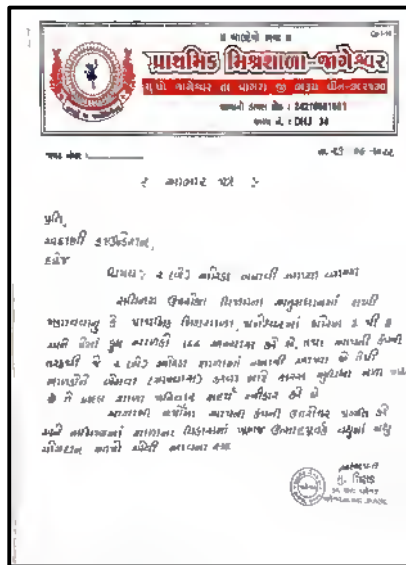
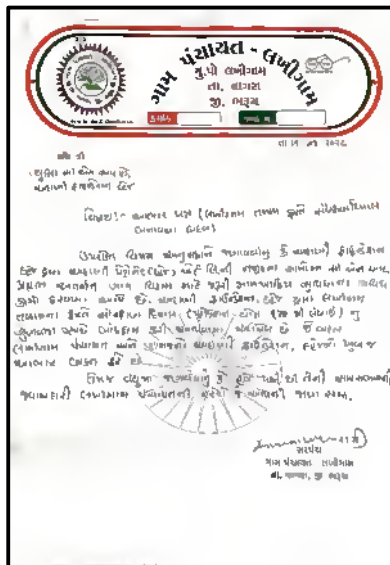
A simple story of transformation in which **#shg** women from Luvare village, Dahej, Guj, came together, invested in **#vernicompost** business and have started earning additional income. Last six months turnover is -3+ lakhs and growing stronger by the day. This simple story had ignited hopes in several other women's groups. Adani Foundation **#livelihood #ruraldevelopment #csr usha mishra**

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## 1.9 Appreciation letter from stakeholder(s)





### 1.10 Award/ recognition





### 1.11 Beneficiaries count

S.No.	Activity Description	Direct	Indirect	Access
<b>A.</b>	<b>Education</b>			
1	Project Utthan	3102	12408	
	Project Utthan (tribal area)	2600	10400	
<b>B.</b>	<b>Community Health</b>			
1	Swasthya Apne Hatho Me (Health Camps)	2434		22769
<b>C.</b>	<b>Sustainable Livelihood Development</b>			
1	Kamdhenu Dairy Development	2593	12965	
	Dairy Development (tribal area)	853	3412	
2	Adani Annapurna	110	440	
3	Adani's Mahila Movement for Advancement (AMMA)	83	415	
4	Integrated Model Suva	60	240	1920
5	Lakhigam Cricket Tournament	352		1572
6	Women's Day Celebration	700		3045
<b>D.</b>	<b>Community Infrastructure Development</b>			
1	Pond deepening and developing work at Lakhigam	4938	-	-
2	Construction of two Classroom (Ground+1) at Jageshwar Primary school	80	320	
3	Library work at Thava school	1000	-	3000
4	Construction of Multipurpose Hall at Lakhigam	4938	-	-
5	Develop Greenbelt around Luvara Pond	1700	-	-
6	Children Park at Primary school, Kaladara	200		200

#### INCLUSION of

- 45.39 per cent ST students in Project Utthan
- 100 per cent ST students in Utthan (tribal area)
- 80 ultra poor families in Kamdhenu Project
- 25 per cent ultra poor families in Adani Annapurna (tribal area)
- 22 per cent ultra poor families in Adani'sahila Movement for Advancement



### Adani Foundation team

S.No.	Name	Position
1.	Usha Mishra	Unit CSR Head
2.	Yogesh Meghpara	Project Officer
3.	Jitendra Singh	Project Officer
4.	Smita Vasava	Community Mobilizer
5.	Khusbu Chaudhary	Community Mobilizer
6.	Sumit Vasava	Community Mobilizer
7.	Piyush Prajapati	Community Mobilizer
8.	Vipul Vasava	Community Mobilizer



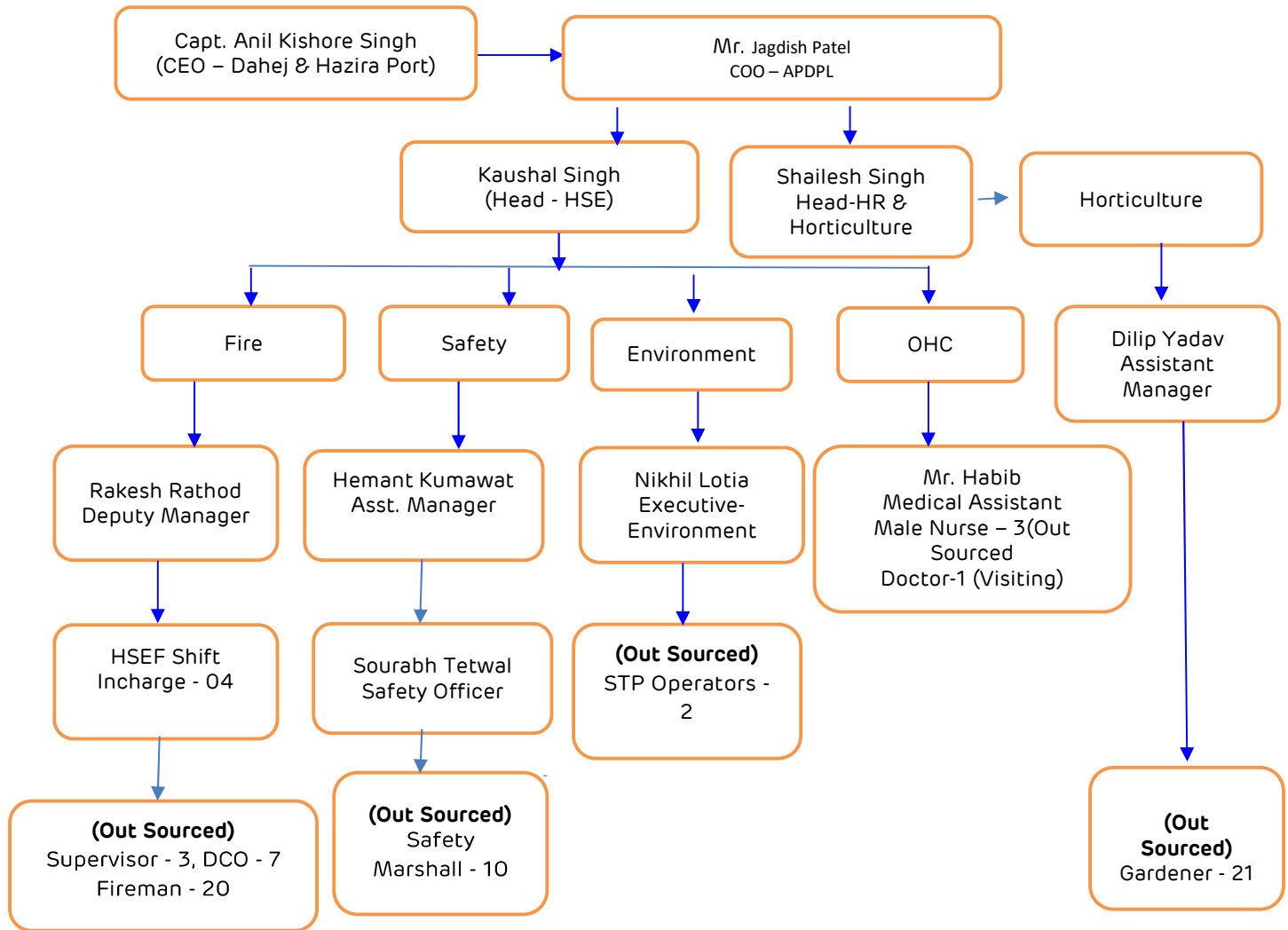


Site office address: Adani Foundation, Dahej  
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Bharuch: 392130, Gujarat (India)  
[www.adanifoundation.org](http://www.adanifoundation.org)

## **Annexure - 6: Organogram of APDPL - Environment Management Cell**

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

#### **Department: HSE Management Cell**



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Associate Manager - HSE	Dip-Mech, PGDFS, NEBOSH	16 Years
2.	Rakesh Rathod	Deputy Manager- HSE	B.E. Mech., M. tech – Industrial Safety, PDIS	16 Years
3.	Dilip Yadav	Assistant Manager (Horticulture)	B. Tech Agriculture Science	15 Years
4.	Hemant Kumawat	Asst. Manager	Dip – Mech, Dip. In Fire & Safety, NEBOSH	14 Years
5.	Nikhil Lotia	Executive- (Environment)	B.E. Environment	7 Years

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

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2020- 2021	2021-2022	2022-2023	2022-2023
1.	EHS Manpower	6.85	5.5	6.0	6.0
2.	Legal & Statutory Expenses	7.16	1.12	1.12	1.0
3.	Environmental Monitoring Services	16.52	14.71	14.71	16.0
4.	Cost for Water Consumption and use dust suppression	46.08	84.62	272.13	126.0
5.	Hazardous Waste Management & Disposal	2.72	1.32	2.0	3.0
6.	Greenbelt Development and Plantation	44.00	38.0	38.42	42.21
7.	O&M of Sewage Treatment Plant	6.77	5.99	6.0	6.0
8.	Environment Day Celebration	0.10	0.36	0.35	0.50
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	2.10	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	49.83	61.68	55.79	62.26
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	59.70	99.04	88.21	89.19
12.	Environmental Study / Audit and Consultancy	3.07	0.54	3.90	1.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	6.78	4.07	2.30	3.0
<b>Total Amount (In Lacs)</b>		<b>256.86</b>	<b>319.26</b>	<b>487.53</b>	<b>358.16</b>



**Adani Petronet Dahej Port Ltd**  
**Annexure 8: Green Belt Details**

Sr.No.	Green Zone	Location	Area in (Ha.)	Tree(No.)	Name of Plants	Shrubs(Sqm)	Green carpet(Sqm)	Palm	Remark
1	68 (a)	CG-3	0.02		Ixora	200			
			0.01		Hibicus	139			
			0.03		Eranthemum	270			
		PMC office area Landscape	0.45	500	Delonix regia				
			0.23	250	cassia simia				
			0.20	450	Coconut spp.				
			0.10		Shrub	1000			
			0.07		lilly	730			
			0.15		Lawn		1500		
			0.020		Palm			50	
			0.008000	20	peltoferum				
		Back side lakhibaba temple & Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia				
		Back side lakhibaba temple & Boundry site plantation (phase -1 a )	0.27	600	Casurina Equisitifolia				
		<b>Total</b>	<b>1.95</b>	<b>3120</b>		<b>2339</b>	<b>1500</b>	<b>50</b>	
2	68 (b)	Gcptcl boudry wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia				
		APPPL office area (SS-7)	0.36	450	Delonix regia				
		ODC GATE	0.01	51	Conocarpus				
		Gcptcl boudry wall site plantation (phase-1 a )	0.16	700	Delonix regia				
			0.10		Shrub	1000			
			0.8		Lawn		8000		
			0.04		Palm			100	
		<b>Total</b>	<b>2.8126</b>	<b>7201</b>		<b>1000</b>	<b>8000</b>	<b>100</b>	
3	68(C)	LNG Site Boundry wall site plantation	0.95	4200	Casurina Equisitifolia				
			0.04		Palm			100	
		<b>Total</b>	<b>0.985</b>	<b>4200</b>		<b>0</b>	<b>0</b>	<b>100</b>	
4	68 (d)	Stack yard	0.72	3200	Casurina Equisitifolia				
		<b>Total</b>	<b>0.72</b>	<b>3200.00</b>					
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	
		<b>Total</b>	<b>3.78</b>	<b>5200.00</b>		<b>3000.00</b>	<b>200.00</b>	<b>200.00</b>	
6	68 (f)	Beautification from Main Gate to GCPL Divider (Bhutnama Temple)	0.39		neerium	2200.00			
		Main gate Area	3.75	1500	Peltofouram				
			0.60	500	Azardirecta indica				
			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		
		<b>Total</b>	<b>6.73</b>	<b>4375.00</b>		<b>5650.00</b>	<b>2500.00</b>	<b>0.00</b>	
7	68 (g)	Railway yard area Phase 1	1.13	5000	Casurina Equisitifolia				
			0.0175	175	Paltoferum				
			1.13	5000	Casurina Equisitifolia				
			0.15	255	Conocarpus				
			0.08		Palm			200	
		<b>Total</b>	<b>2.50</b>	<b>10430.00</b>		<b>0.00</b>	<b>0.00</b>	<b>200.00</b>	
8	68 (h)	cg-2	0.05	500.00	Conocarpus				
			0.0130		neerium	130.00			
			0.44	1680	Shrubs and forest tree plantation				
		Permenant Godown area	0.15		Srub	1500			
			0.21		Lawn		2100		
			0.06		Palm			150	
		Coal Yard Area	1.23	3086	Conocarpus /Casurina				
			0.13	560	Conocarpus				
			0.03	120	peltoferum				
			0.12		Lawn	1200			
		Perifery road side	0.72	3200	eucalyptus /conocarpus				
			0.05		Shrub		500		
		Dahej Ramji Temple Green belt	0.24		Palm			150	
			0.72	800	Peltofouram /Azardirecta indica/ Conocarpus/ Palm				
		<b>Total</b>	<b>4.16</b>	<b>9946.00</b>		<b>2830.00</b>	<b>2600.00</b>	<b>300.00</b>	
9	68(i)	YARD 16 (NEW ROCK YARD) ISPS GATE Safety Excellence Center	0.13	1307	Casurina				
			0.09		Bougainvelliya	888			
			0.09		Neerium	888			
			0.03	300	Conocarpus				
			0.06		Lawn	600			
		<b>Total</b>	<b>0.40</b>	<b>1607.00</b>		<b>1776.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Grand Total</b>			<b>24.02</b>	<b>49279.00</b>		<b>16595.00</b>	<b>14800.00</b>	<b>950.00</b>	

# Bio-shield

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**Malpur village, Jambusar taluka, Bharuch district**

**Service Order No: 5700270907 dated 26.06.2019**

**Project Period: 1<sup>st</sup> July, 2019 to 30<sup>th</sup> June, 2022**

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

**Project Implemented by: SAVE – Saline Area Vitalization Enterprise Limited**

**Reporting Period: 1<sup>st</sup> July, 2019 to 30<sup>th</sup> June, 2022**

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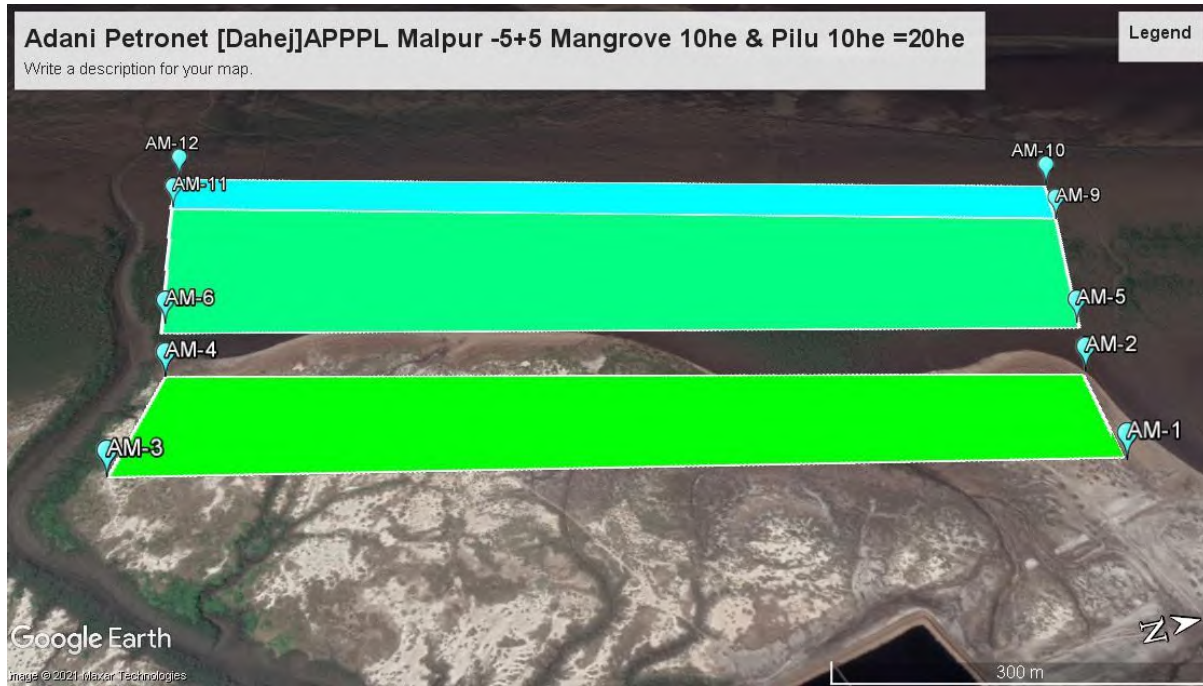


Saline Area Vitalization Enterprise Ltd. (Save) has started a Bioshield project in the year 2019 in Malpur village in Jambusar taluka of Bharuch district in collaboration with Adani Petronet (Dahej) Port Pvt. Ltd. In order to provide employment to the people of Rathod community and deprived community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

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

## Background:

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



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

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

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



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

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

**Current status -**

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

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

**Pilu Plantation:**

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

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

**Mangrove Plantation at Malpur : -**

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

**Note -**

As per the counting done in June-2022

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

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

### **Visit of Plantation area by Adani Team members**

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

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

### **Adani Petronet Team Visit 2019**





## **Latest Photographs**

### **Pilu Plantation**







### **Mangrove Plantation Area**







### **Mangrove Gap Filling Area**





**Photographs of Pilu Plantation site visit by ADANI Team on 30<sup>th</sup> June, 2022.**



**Mangrove Plantation area site visit**



**Gap Filling area site visit**







## **COMPLETION CERTIFICATE:**

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



## SALINE AREA VITALIZATION ENTERPRISE LIMITED

ISHAVASYAM

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

CIN - U74140GJ1995PLC027080

SAVE/APPPL/2019-2022

### TO WHOMSOEVER IT MAY CONCERN

**REF: Service Order No.5700270907 dated 26.06.2019**

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

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

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

The details are mentioned below:

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

Place : Ahmedabad.

Date : 30<sup>th</sup> June, 2022.

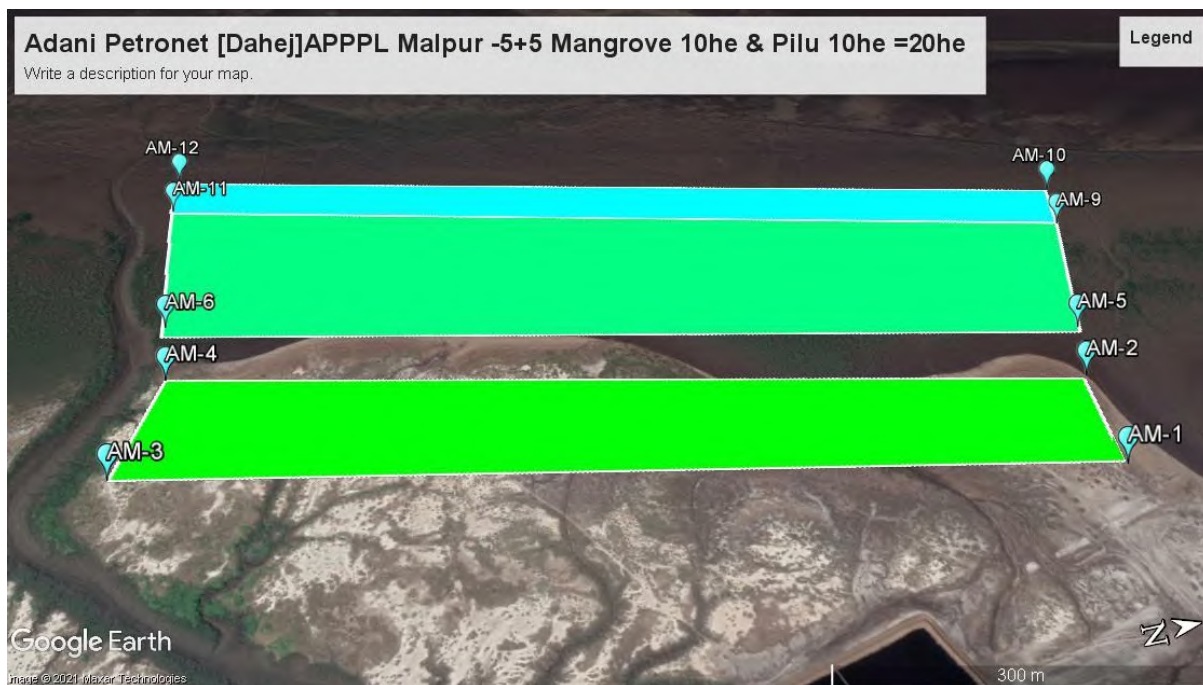
For Saline Area Vitalization Enterprise Ltd.,

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



Rajesh Shah  
Managing Director

Encl: Location Maps and GPRS Points.



Malpur Bio -1 Mangrove & Pilu 20 ha.			
No	Code No.	N	E
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9	AM-11	22° 1'27.80"N	72°31'5.30"E
10	AM-12	22° 1'27.90"N	72°31'3.20"E





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



सत्यमेव जयते

# GOVERNMENT OF INDIA

MINISTRY OF CORPORATE AFFAIRS

Corporate Identity Number:

IN THE MATTER OF



Registrar of Companies

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Mailing Address as per record available in Registrar of Companies office:

