



SIX MONTHLY COMPLIANCE REPORT

OF

ENVIRONMENT AND CRZ CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: 11-150/2010-IA.III, DATED 03RD MAY, 2013

FOR

**THE DEVELOPMENT OF MULTI CARGO PORT WITH SUPPORTING UTILITIES AND INFRASTRUCTURE
FACILITIES AT HAZIRA, SURAT, GUJARAT**

COMPLIANCE PERIOD- OCTOBER 2021 to MARCH 2022

SUBMITTED BY

**M/s. ADANI HAZIRA PORT. LTD.
HAZIRA, TAL-CHORYASI, DIST-SURAT
GUJARAT**

LIST OF APPENDIXES

APPENDIX	DETAILS
1.	Compliance To The Conditions Stipulated In CRZ Recommendations Issued By Forests & Environment Department, Government Of Gujarat To MOEF & CC, New Delhi Vide Letter No.: ENV-10-2012-30-E, Dated 11th May, 2012.

	Adani Hazira Port Limited	From: October 2021 to March 2022
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LIST OF ANNEXURES

ANNEXURE NO.	DETAILS
1	Action Plan And Compliance Status On The Issues Raised During The Public Hearing.
2.	Details Of The CSR Activities Along With Budgetary Provisions And Expenditures For the Financial Year 2021-22
3	Compliance Status of Environmental Management Plan As Per Integrated EIA Report - September, 2012.
4.	Environmental Monitoring / Analysis Results For The Period From October 2021 to March 2022
5.	Photographs of Air Pollution Control Measures and Green Belt area
6	Organogram Of AHPL - Environment Management Cell.
7	Environmental Budget And Expenditure
8	Copy of Ammended CTE
9	Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party during period October 2021 to March 2022

	Adani Hazira Port Limited	From: October 2021 to March 2022
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- A. Six Monthly Compliance Report for Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: **11-150/2010-IA.III dated 03rd May, 2013** for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s. Adani Hazira Port Ltd (Earlier Known as Adani Hazira Port Pvt Ltd).:-

S. No.	Stipulated Conditions	Compliance Status																					
6.	Specific Conditions																						
i.	“Consent for Establishment” shall be obtained from State Pollution Control Board under Air & Water Act and a copy shall be submitted to the Ministry before start of any construction work at site.	<p>Complied,</p> <p>AHPL obtained Consent to Establish (NOC) from Gujarat Pollution Control Board on 16.05.2012 and the same was submitted to the Ministry on 05.10.2012 prior to obtaining the Environment and CRZ clearances. Subsequently there were amendments in the Consent to Establish which were also submitted to the MoEF&CC before start of respective construction as per the details given below: -</p> <table border="1"> <thead> <tr> <th>Consent No.</th><th>Issued On</th><th>Submitted To MoEF & CC On</th></tr> </thead> <tbody> <tr> <td>CTE_49766</td><td>05.10.2012</td><td>Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.</td></tr> <tr> <td>CTE-64900</td><td>26.09.2014</td><td>Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.</td></tr> <tr> <td>CTE-74330</td><td>13.01.2016</td><td>Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.</td></tr> <tr> <td>CTE-77767</td><td>16.04.2016</td><td>Along with the Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.</td></tr> <tr> <td>CTE-101590</td><td>20.05.2019</td><td>Along with the Six Monthly Compliance Report dated 27.11.2019</td></tr> <tr> <td>CTE-115984</td><td>04.12.2021</td><td>Attached herewith as <i>Annexure VIII</i></td></tr> </tbody> </table> <p><i>The port is in operation with valid CC&A (Consent to Operate).</i></p>	Consent No.	Issued On	Submitted To MoEF & CC On	CTE_49766	05.10.2012	Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.	CTE-64900	26.09.2014	Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.	CTE-74330	13.01.2016	Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.	CTE-77767	16.04.2016	Along with the Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.	CTE-101590	20.05.2019	Along with the Six Monthly Compliance Report dated 27.11.2019	CTE- 115984	04.12.2021	Attached herewith as <i>Annexure VIII</i>
Consent No.	Issued On	Submitted To MoEF & CC On																					
CTE_49766	05.10.2012	Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.																					
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CTE- 115984	04.12.2021	Attached herewith as <i>Annexure VIII</i>																					
ii.	The action plan on the issues raised during public hearing shall be submitted to the Pollution Control Board. The action plan shall be implemented without fail. Report on compliance shall be submitted to the Regional Office, MOEF along with the six-monthly reports.	<p>Complied</p> <p>Public hearing (PH) was conducted on 14.08.2012. All the issues have been addressed adequately and to the satisfaction of the stakeholders. The action taken for implementation of the issues are being submitted to the Ministry as well as Gujarat Pollution Control Board along with the Six-Monthly EC Compliance report.</p> <p>The key points raised during PH were: -</p> <p>1) Preference to be given to the local people for employment and transport & other contracts. M/s. AHPL is giving preference to the locals for contracts, such as M/s. Hazira Vikas Samiti is engaged for providing transport facilities to employees. M/s. AHPL also giving preference for skilled local candidates for employment as per suitable requirements. As on 31st March 2022 total 191 out of 224 on roll employees are from Gujarat.</p>																					

	Adani Hazira Port Limited	From: October 2021 to March 2022
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S. No.	Stipulated Conditions	Compliance Status
		<p>2) Villagers were anxious about their displacement due to port development. M/s. AHPL has developed the port in uninhabited land area by reclamation and there is no acquisition of private property.</p> <p>The details action status of all other issues raised during the public hearing is enclosed as <u>Annexure-1</u></p>
iii.	All the recommendations of SCZMA shall be complied with.	<p>Being Complied</p> <p>All the recommendations of the Gujarat Coastal Zone Management Authority (GCZMA) are being complied. Compliance status of the conditions stipulated in GCZMA recommendations vide letter dated 11/05/2012 bearing No.: ENV-10-2012-30-E is enclosed as <u>Appendix-1</u>.</p>
iv.	Periodical study on shore line changes shall be conducted and mitigation carried out if necessary. The details shall be submitted along with six monthly monitoring reports.	<p>Complied.</p> <p>Shorelines change study was conducted through NIO, Vizag during the period from November 2014 to December, 2015. Report of the shoreline change study was submitted along with compliance report dated 21.11.2016. Study confirms that there is no significant change in the shoreline near by the port except for the approved layout of the AHPL. The report did not warrant any mitigation measures for protection of shoreline.</p> <p>There are no marine construction activities of the port on shore after Dec 2016.</p> <p>A study on Shoreline Change Assessment in 10 km area around the port is being carried out by a reputed Institute. After submission of the report by the agency, the report will be submitted to the authorities along with Six Monthly EC compliance report.</p>
v.	Oil spills if any shall be properly collected and disposed as per Rules. Proper Oil Contingency Management Plan shall be put in the place.	<p>Complied.</p> <ul style="list-style-type: none"> • There was no Oil Spill during the compliance period. Also no oil spill has occurred till date at the port and in nearby area. • Oil Spill Contingency Plan has been prepared and the same was approved by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). • The same has been implemented at site to properly collect and dispose oil spills (if any). • The last Mock drill on scenario of Oil Spill was jointly organized with Shell LNG Terminal-Hazira, Reliance Industries Limited- Petrochemicals-Hazira, Sun Petro and CIL-Hazira on 21st December 2021. <p>Photographs of the Mock drill are as under</p>

	Adani Hazira Port Limited	From: October 2021 to March 2022
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S. No.	Stipulated Conditions	Compliance Status
		 <p>Mobilization of Tier 1 and Tier 2 Equipment -BOOM</p>  <p>Mobilization of Tier 1 and Tier 2 Equipment</p>  <p>Beach clean-up activity</p>
vi.	The detailed plan with budgetary provisions for the CSR shall be submitted to the ministry.	<p>Complied.</p> <ul style="list-style-type: none"> CSR activities are carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports.

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S. No.	Stipulated Conditions	Compliance Status						
								Harbor Water
		1	pH	--	7.72	8.13	7.97	6.0-9.0
		2	Temperature	°C	29.50	30.30	29.75	--
		3	Total Suspended Solids	mg/L	93.00	219.00	140.75	--
		4	BOD (3 Days @ 27 °C)	mg/L	2.20	3.12	2.74	<5.0
		5	Dissolved Oxygen	mg/L	5.65	5.95	5.78	>3.0
		6	Salinity	ppt	28.14	34.97	31.63	-
		7	Oil & Grease	mg/L	0.00	0.00	0.00	-
		8	Nitrate as NO ₃	μmol/L	2.39	3.24	2.86	-
		9	Nitrite as NO ₂	μmol/L	0.53	1.27	0.89	-
		10	Ammonical Nitrogen as NH ₃	μmol/L	2.08	2.54	2.31	-
		11	Phosphates as PO ₄	μmol/L	1.79	2.37	2.15	-
		12	Total Nitrogen	μmol/L	5.34	6.71	6.06	-
		13	Petroleum Hydrocarbon	μg/L	0.00	0.00	0.00	-
		14	Total Dissolved Solids	mg/L	29708.00	35540.00	32718.92	-
		15	COD	mg/L	7.68	14.90	11.92	-
		<ul style="list-style-type: none">• From the monitoring report it is evident that there is no significant change in the sea water quality with respect to standards of baseline level which could have impact on the marine life.• AHPL has not discharged any treated/untreated water in the sea during the compliance period.						
ix.	Transport of cargo shall in closed system and dust control viz. water sprinkler, along conveyor and transfer points shall be provided.	Complied. Following control measures are in place and effectively working at port to control fugitive dust: - <ol style="list-style-type: none">1. Transportation of coal from jetty to coal storage yard through 1.7 Km. long covered conveyor belt.2. Water sprinklers in the coal yard,3. Dust arresting sprinklers are installed on Coal Discharge Chute4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute,5. Water spray through Water Browsers,						

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S. No.	Stipulated Conditions	Compliance Status
		<p>6. Water Mist Canon / Fog System, 7. Wind Brake Shield of 14 meters high and 1900 meters long, 8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin, 9. Regular cleaning of roads through Road Sweeping Machines, and 10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha within the port premises.</p> <p>The photographs of Covered Conveyor belts, Mist Canyon and water sprinkling system, Green Belt area, Wind break shield, Road sweeping machines are attached herewith as <u>Annexure 5</u></p>
x.	Construction activity shall be carried out strictly as per 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.	<p>Complied.</p> <ul style="list-style-type: none"> No construction work other than those permitted in CRZ Notification has been done. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006.
xi.	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	<p>Complied.</p> <ul style="list-style-type: none"> AHPL is regularly working with fishermen to understand their needs and provide required support as part of CSR activities. AHPL is carrying out various CSR activities in the vicinity of port through Adani Foundation (AF), in the field of Education, Community Health, Sustainable livelihood development and Community Infrastructure development and also particular for fishermen community since 2012, the support was extended for providing gears to fishermen, house repairing and construction of house for Halpati community, education to kids from Halpati community and health camps. An amount of <i>1.88 Cr is spent during last six years</i> on various activities specifically for fishermen community in and around the port area.
xii.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	<p>Complied.</p> <ul style="list-style-type: none"> There is no displacement of people, houses or fishermen as the port is being developed on reclamation land and land allotted by Government also there is no acquisition of private land. Majority of fishing activities are in the river TAPI estuary region which is approx. 3-4 KM away from the project site. There are few "PAGADIA" fishermen doing fishing near the project area. They are continuing with their activities without any disturbance
xiii.	The project proponent shall set up separate Environment Management Cell for effective implementation of the stipulated environmental safe guards under the supervision of a Senior Executive.	<p>Complied.</p> <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safeguards at the Port. The Head of Environment Management Cell is CEO of the Port. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. Environment Management Cell Organogram is enclosed as <u>Annexure-6</u>

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S. No.	Stipulated Conditions	Compliance Status																																																																																																						
xiv.	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. <ul style="list-style-type: none">Separate budget has been allocated for the Environment Management. Allocated budget for the FY: 2021-22 is INR 571.80 and total expenditure during the FY INR 443.70 Lakhs regarding environment managementDetail of the environment budget of the current FY and expenditure incurred during compliance period is enclosed as <u>Annexure-7</u>Environment budget is not being diverted to any other purpose.																																																																																																						
7.	General Conditions																																																																																																							
i.	Appropriate measures must be taken while undertaking digging activities to avoid any degradation of water quality.	Complied. <ul style="list-style-type: none">No digging activities were carried out during the compliance period.No major digging activities were carried out. Proper care is taken to ensure that no excavated material is mixed with the water. Entire excavated material is being used in leveling and grading of project area.Marine, Surface and Ground Water quality is being monitored through M/s. Pollucon Laboratories Pvt. Ltd., Surat (a MoEF & CC and NABL accredited laboratory).Reports show that there are no impacts on the water quality. Copy of the water monitoring reports for the period, October 2021 to March 2022 is enclosed as <u>Annexure-4B, 4C, 4D</u> for ground, surface, and marine water quality, respectively. <p>Summary of Ground Water Quality (Annexure 4B) for Key parameters are as under</p> <table><tr><th>SR. NO.</th><th>PARAMETERS</th><th>UNIT</th><th>Min</th><th>Max</th><th>Average</th></tr><tr><td>1</td><td>Colour</td><td>Hazen</td><td>2.00</td><td>4.00</td><td>2.67</td></tr><tr><td>2</td><td>Odour</td><td>--</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>3</td><td>Taste</td><td>--</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>4</td><td>Turbidity</td><td>NTU</td><td>0.09</td><td>0.19</td><td>0.14</td></tr><tr><td>5</td><td>pH Value</td><td>--</td><td>7.52</td><td>8.14</td><td>7.73</td></tr><tr><td>6</td><td>Total Hardness as CaCO₃</td><td>mg/L</td><td>318.00</td><td>472.00</td><td>401.75</td></tr><tr><td>7</td><td>Chloride as Cl</td><td>mg/L</td><td>95.90</td><td>128.00</td><td>107.14</td></tr><tr><td>8</td><td>Fluoride as F</td><td>mg/L</td><td>0.06</td><td>0.17</td><td>0.10</td></tr><tr><td>9</td><td>Total Dissolved Solids</td><td>mg/L</td><td>913.00</td><td>1184.00</td><td>1022.83</td></tr><tr><td>10</td><td>Calcium as Ca</td><td>mg/L</td><td>60.00</td><td>84.00</td><td>70.77</td></tr><tr><td>11</td><td>Magnesium as Mg</td><td>mg/L</td><td>34.80</td><td>69.84</td><td>53.96</td></tr><tr><td>12</td><td>Sulphate as SO₄</td><td>mg/L</td><td>14.80</td><td>39.40</td><td>25.09</td></tr><tr><td>13</td><td>Nitrate Nitrogen as NO₃</td><td>mg/L</td><td>3.50</td><td>7.12</td><td>4.88</td></tr><tr><td>14</td><td>Alkalinity</td><td>mg/L</td><td>259.00</td><td>316.00</td><td>282.42</td></tr><tr><td>15</td><td>Coliform</td><td>/100 ml</td><td>0.00</td><td>0.00</td><td>0.00</td></tr><tr><td>16</td><td>E-Coli</td><td>/100 ml</td><td>0.00</td><td>0.00</td><td>0.00</td></tr></table> <p>Summary of Surface Water Quality is as under-</p>	SR. NO.	PARAMETERS	UNIT	Min	Max	Average	1	Colour	Hazen	2.00	4.00	2.67	2	Odour	--	0.00	0.00	0.00	3	Taste	--	0.00	0.00	0.00	4	Turbidity	NTU	0.09	0.19	0.14	5	pH Value	--	7.52	8.14	7.73	6	Total Hardness as CaCO ₃	mg/L	318.00	472.00	401.75	7	Chloride as Cl	mg/L	95.90	128.00	107.14	8	Fluoride as F	mg/L	0.06	0.17	0.10	9	Total Dissolved Solids	mg/L	913.00	1184.00	1022.83	10	Calcium as Ca	mg/L	60.00	84.00	70.77	11	Magnesium as Mg	mg/L	34.80	69.84	53.96	12	Sulphate as SO ₄	mg/L	14.80	39.40	25.09	13	Nitrate Nitrogen as NO ₃	mg/L	3.50	7.12	4.88	14	Alkalinity	mg/L	259.00	316.00	282.42	15	Coliform	/100 ml	0.00	0.00	0.00	16	E-Coli	/100 ml	0.00	0.00	0.00
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12	E-Coli	/100 ml	0	0	0																																																																														
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 plans including the action taken reports in respect of mitigation measures and other environmental protection activities.	<p>Being Complied</p> <ul style="list-style-type: none">AHPL is regularly submitting six monthly compliance reports which comprise compliance to the conditions stipulated in Environment and CRZ clearance, action taken report of Environment Management Plan, environment monitoring reports etc.Last report was submitted through e mail on 30.11.2021 to all concerned authorities.Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the port, full support is extended and AHPL provides all additional information seek by them during the inspection.Last visit by representative of MoEF & CC, Mr. Yogesh Kumar - IRO, Gandhinagar visited AHPL Hazira on 18.02.2022. We have extended all required supports during his visit.Mr C.C. Hadia (SSA) and B.D. Gohil (AEE) from Regional Office, Gujarat Pollution Control Board (GPCB) Surat visited AHPL on 21.03.2022.																																																																																	
iii.	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	<p>Being Complied</p> <ul style="list-style-type: none">Six monthly monitoring reports regarding the implementation of the stipulated conditions are regularly submitted to the RO - MoEF & CC, Bhopal and other authorities the last report Last report was submitted through e mail on 30.11.2021. The copy of same is also uploaded on company website. The link is http://www.adaniports.com/ports-downloads																																																																																	

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S. No.	Stipulated Conditions	Compliance Status
iv.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary subsequently, if deemed necessary for environmental protection, which shall be complied with.	Noted and agreed to comply
v.	The Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted and agreed to comply
vi.	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to Ministry of Environment and Forests.	Complied Name of the port was changed from Adani Hazira Port Private Limited to Adani Hazira Port Limited and the letter received from MoEF&CC regarding the name change was submitted with last EC compliance report as Annexure 9 on 28.05.2021.
vii.	The project proponents shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Complied Financial Closure date was 29 th September, 2011. Approval from GMB to commence work was obtained on 09 th April, 2010 vide letter No.: GMB/N/PVT/923(10)/42/458. Copy of the same has been submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017.
viii.	A copy of the clearance letter shall be marked to concerned Panchayat/ Local NGO, if any from whom any suggestions/ representations has been received while processing the proposal.	Complied. Copy of the clearance letter was sent to the concerned Panchayat and local NGO. Copy of the RPAD receipt were submitted to MoEF&CC along with six monthly compliance report dated 27.11.2013 and again along with the six monthly compliance report dated 19.05.2017.
ix.	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to AHPL.

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S. No.	Stipulated Conditions	Compliance Status
8.	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 thereafter.	<p>Noted and Complying with 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 2006, including the amendments.</p> <p>AHPL has obtained: -</p> <ul style="list-style-type: none"> Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013. Consolidated Consent and Authorization under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981 vide Consent Order No.: AWH-87176 valid till 14.04.2022. Public Liability Insurance (PLI) vide Policy No.: 41059889 valid up to 31st March, 2022.
9.	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.	<p>Complied.</p> <p>All applicable clearances from respective authorities have been obtained i.e.: -</p> <ol style="list-style-type: none"> PESO License from Chief Controller of Explosive, Nagpur vides Order No.: P/HQ/GJ/15/5294 (P270337), Renewed and valid till 31/12/2025. Copy of the PESO License was submitted with last Six Monthly EC Compliance Report. License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502 / 51410 / 2013 and License No.: 18757, Renewed on 03-11-2018, valid till 23rd December, 2023. Copy of the license to work a factory is submitted with the Six monthly EC compliance Report AHPL/MoEFF&CC 2019-20/001 dated 27.11.2019 Fire NOC for Liquid Terminal- Obtained NOC from Fire Officer, Surat, (Latest on 7th March 2019) and NOC from commissioner of Police (Dated-12th May 2019)
10.	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 Environment and CRZ clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of issue of the clearance letter and a copy of the same should be	<p>Complied.</p> <ul style="list-style-type: none"> Advertisements were published in Gujarat News Paper "Gujarat Mitra" and English News Paper "The Times of India" on 13/05/2013 (within 10 days of receipt of EC & CRZ clearance). Copy of the advertisement is submitted to MoEF & CC along with the six monthly compliance report dated 27th November, 2013.

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S. No.	Stipulated Conditions	Compliance Status
	forwarded to the Regional Office of this Ministry at Bhopal.	
11.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.: 460 of 2004 as may be applicable to this project.	Noted.
12.	Status of Compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied. Compliance report of conditions stipulated in Environment and CRZ Clearance is being uploaded periodically on the company website i.e.: http://www.adaniports.com/ports-downloads
13.	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
14.	A copy of the clearance letter shall be sent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions/ representations if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.	Closed, <ul style="list-style-type: none"> • Copy of the clearance letter was sent to the concerned Panchayat and local NGO from whom the suggestions/ representations received. • Copy of the RPAD receipt is submitted to MoEF & CC along with Six Monthly Compliance Report dated 27.11.2013 and again along with the six monthly compliance report dated 19.05.2017. • Clearance letter is available on website at http://www.adaniports.com/ports-downloads

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S. No.	Stipulated Conditions	Compliance Status
15.	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 MOEF, the respective Zonal Office of CPCB and the SPCB.	<p>Complied.</p> <p>The six monthly compliance report comprising of the status of compliance of the stipulated EC conditions, including results of monitored data is being uploaded on the company website at http://www.adaniports.com/ports-downloads.</p> <p>Also the compliance report was submitted to following:</p> <ol style="list-style-type: none"> 1. IRO -MoEF&CC, Gandhinagar 2. RO - MoEF & CC, Bhopal, 3. MoEF & CC, New Delhi, 4. DoEF, Gandhinagar, 5. Zonal Office - CPCB, Vadodara, 6. HO - GPCB, Gandhinagar, and 7. RO - GPCB, Surat. <p>Last report was submitted on 30.11.2021 through E mail.</p>
16.	The Environmental Statement for each financial year ending 31 st 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 status of compliance of EC Conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	<p>Complied.</p> <p>The Environment Statement in Form-V for the Financial Year: 2020-21 is attached herewith as Annexure 9 along with last Six Monthly EC compliance report on 30.11.2021 also uploaded on company website at http://www.adaniports.com/ports-downloads.</p>

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APPENDIX-1:

COMPLIANCE TO THE CONDITIONS STIPULATED IN CRZ RECOMMENDATIONS

ISSUED BY FORESTS & ENVIRONMENT DEPARTMENT,

GOVERNMENT OF GUJARAT TO MOEF & CC, NEW DELHI


VIDE LETTER NO.: ENV-10-2012-30-E, DATED 11TH MAY, 2012

FOR MODIFICATION / EXPANSION OF MULTI - CARGO PORT FACILITY AT HAZIRA, DIST. - SURAT BY M/S.

ADANI HAZIRA PORT PVT. LIMITED

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Appendix -1: Compliance to the conditions stipulated in CRZ recommendation issued by Forests & Environment Department, Government of Gujarat to MoEF & CC, New Delhi vide letter No.: ENV-10-2012-30-E dated 11th May, 2012 for modification / expansion of Multi-Cargo Port Facility at Hazira, Dist. - Surat by M/s. Adani Hazira Port. Limited: -

S. No.	Conditions	Compliance Status
A.	Specific Condition	
1.	The provision of CRZ Notification 2011 shall be strictly adhered by M/s. AHPPL. No activity in contradiction to the provision of CRZ Notification shall be carried out by M/s. AHPPL.	<p>Complied.</p> <ul style="list-style-type: none"> Construction activities are carried out as as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in CRZ Notification has been done. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006 and subsequent amendments.
2	M/s. AHPPL shall not construct any storage facilities for material / chemicals in the CRZ area except for those permissible as per Annexure - II of CRZ Notification 2011 also for other hazardous chemicals, outside CRZ Areas, the AHPPL shall consult SDMA for Disaster Management Plan.	<p>Complied.</p> <ul style="list-style-type: none"> Only permissible activities being carried out in CRZ area. Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. <p>Regular mock drill to ensure the compliance and preparedness is being done. Last Mock Drill (On Site) was conducted on 31st March 2022, the scenario of mock drill was collision of Chemical Tanker with fixed structure leading to leakage of HF-HSD subsequently led to fire and resulting into multiple injuries collision of Chemical Tanker with fixed structure leading to leakage of HF-HSD subsequently led to fire and resulting into multiple injuries near Main Road, Between LT Phase-3 and CFS and fire</p> 

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S. No.	Conditions	Compliance Status
		   <p>Last Update of ERP & DMP : 28.03.2022</p> <ul style="list-style-type: none"> • Last submission of ERP & DMP to Chief Controller of Explosive on 29th March 2022.
3.	All necessary permissions from different Government Departments / agencies shall be obtained by M/s. AHPPL before commencing the activities.	<p>Complied.</p> <p>All the statutory permissions from the concerned statutory authorities are obtained i.e.: -</p> <ul style="list-style-type: none"> - Environment and CRZ Clearance from MoEF & CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013, - CTE & CC&A from Gujarat Pollution Board (For details Please

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S. No.	Conditions	Compliance Status
		<p>- PESO License from Chief Controller of Explosive, Nagpur License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat. Please refer EC condition 9 for details.</p>
4.	The AHPPL 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.	<p>Noted and complied with.</p> <p>There are no adverse impacts on mangrove as well as flow of water with respect to development activities.</p>
5.	No dredging, reclamation or any other project related activities shall be carried out in CRZ area categorized as CRZ-I (A) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas, if any in the region are not affected due to any of the project activities.	<p>Complied.</p> <p>There is no dredging and reclamation activities in CRZ I (A) area during the compliance period.</p> <p>The mangrove habitats near by the port are being protected by AHPL.</p>
6.	The dredging material shall be disposed of at the location already approved by the Ministry of Environment and Forests, Government of India.	<p>Complied.</p> <p>As per communication from MoEF&CC dated 12th November, 2003 bearing letter No.: J-16011/ 11/2003-IA-III- Hazira Port Pvt Ltd conditions states “dumping of dredged spoils should be dumped at the sites A & C as per the following coordinates: -</p> <p>(A) 21°03' to 21°05' N & 72°28' to 72°30' E</p> <p>(C) 21°03' to 21°05' N & 72°30' to 72°32' E</p> <p>The maintenance dredging is being carried out through Water Injection dredger in which no Dredging material is generated. Some part of dredging is being carried out through Cutter Section Dredger and in this process Dredging material is being generated. No disposal has been done till date. All the dredging material is being utilized for level rising, reclamation and apart from the above activity, if any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p>
7.	All the recommendations and suggestions given by M/s. NIO and Chola mandalam MS Risk Services Ltd, Chennai in their EIA reports for conservation / protection and betterment of environment shall be implemented strictly by M/s. AHPL.	<p>Complied.</p> <p>All the recommendations and suggestions for conservation/protection and betterment of environment are being implemented strictly. Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as <u>Annexure-3.</u></p>

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S. No.	Conditions	Compliance Status
8.	The construction and operational activities 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 reputed institute / organization.	Complied. There are no mangroves and other important coastal / marine / habitats presents within the port development area. There is no construction activity in the compliance period. The Port development work is supervised by Gujarat Maritime Board (GMB).
9.	M/s. AHPPL shall strictly ensure that no creeks or rivers are blocked due to any activity at Shipyard.	Complied. All the activities are carried out as per EC & CRZ clearance and no creeks are blocked due to development activities. Shipyard is not envisaged in our proposal.
10.	The construction debris and / or any other type of waste shall not be disposed of into the sea, creek or in CRZ areas. The debris shall be removed from construction site immediately after the construction is over.	Complied Construction and Demolition waste is being managed as per Construction and Demolition waste rules 2016.
11.	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 construction labours.	Complied. During construction phase labors have been managed through contractors and they are from surrounding villages so they stay in their own residential facilities in the surrounding villages. Drinking water, toilets and rest shelters are being provided to the labors during work.
12.	M/s. AHPPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with National Oil Spill and Disaster Contingency Plan and shall submit the same to this department after having it vetted through Indian Coast Guard.	Complied. <ul style="list-style-type: none"> Oil Spill Contingency Plan is prepared and the same was approved by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). Disaster Management Plan was prepared prior to the commissioning of multi cargo port. DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. Regular mock drill to ensure the compliance and preparedness is being done.

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S. No.	Conditions	Compliance Status
		Last Mock Drill (On Site) was on :31.03.2022 Last Update of ERP & DMP : 28.03.2022 Last submission of ERP & DMP to Chief Controller of Explosive on 29.03.2022
13.	M/s. AHPPL shall bear the cost of external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environment impact of the proposed activities.	Noted and agreeing to bear the cost of external agency, if any that may be appointed by this department.
14.	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. Jetty approach is supported by piles allowing adequate flow of water.
15.	The ground water shall not be tapped within the CRZ areas by the AHPPL to meet with the water requirements in any case.	Being Complied Ground water is not being used for any purpose in the Port. The industrial water requirement is being met through 2000KL of treated waste water from M/s. KRIBHCO and domestic water requirement is met through tanker water.
16.	M/s. AHPPL shall take up massive greenbelt development activities in consultation with Forest Dept. / GEER Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Being Complied The Green Belt is being developed by AHPL. The total Green Belt area developed till 31 st March 2022 is 78.49 Ha. Photograph of Green Belt area is attached herewith as Annexure 5
17.	Mangrove plantation in 200 Ha. shall be carried out in consultation with Gujarat Ecology Commission / Forest Dept. by M/s. AHPPL with in a period of two years from the issuance of CRZ clearance by MoEF, GoI and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Complied Company has carried out mangrove afforestation in an area of 200 hectares i.e.: 50 hectares in Kantiyajal and 150 hectares in Village Nada-Devla of District - Bharuch and same is completed. Consolidated report on mangrove plantation on an area of 200 hectares at Village: Kantiyajal, Taluka: Hansot and Village: Nada-Devla, Taluka: Jambusar, District: Bharuch (Gujarat) developed by M/s. Saline Area Vitalization Enterprise (SAVE) Limited, Ahmedabad. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 20.11.2017.

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S. No.	Conditions	Compliance Status																												
18.	The AHPPL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and action plan in this regard shall have to be submitted to the MoEF - GoI and this Department.	Complied <ul style="list-style-type: none">AHPL has developed Bio-Shield at Village - Tankari Bandar, Taluka - Jambusar, District - Bharuch (Gujarat) in an area of 18 hectares with the help of a local NGO named Saline Area Vitalization Enterprise (SAVE) Limited.																												
19.	M/s. AHPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with Forest and Environment Dept. and the District Collector / District Development Officer.	Being Complied <p>CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.</p> <p>Appropriate financial contribution is being made to the Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the Annexure-2 for the status of the CSR activities planned and carried out during the FY 2021-22.</p> <table><tr><th>Sr. No.</th><th>Vertical</th><th>Approved Budget In Lacs Rupees)</th><th>Utilization amount (In Lacs Rupees)</th></tr><tr><td>1</td><td>Education</td><td>142.80</td><td>111.55</td></tr><tr><td>2</td><td>Health</td><td>104.45</td><td>64.93</td></tr><tr><td>3</td><td>Sustainable Livelihood Development</td><td>147.43</td><td>147.58</td></tr><tr><td>4</td><td>Civil Infrastructure Development</td><td>248.03</td><td>130.06</td></tr><tr><td>5</td><td>General Management and Administration for CSR activities</td><td>26.18</td><td>15.23</td></tr><tr><td colspan="2">Total</td><td>668.89</td><td>469.35</td></tr></table>	Sr. No.	Vertical	Approved Budget In Lacs Rupees)	Utilization amount (In Lacs Rupees)	1	Education	142.80	111.55	2	Health	104.45	64.93	3	Sustainable Livelihood Development	147.43	147.58	4	Civil Infrastructure Development	248.03	130.06	5	General Management and Administration for CSR activities	26.18	15.23	Total		668.89	469.35
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5	General Management and Administration for CSR activities	26.18	15.23																											
Total		668.89	469.35																											
20.	A separate budget shall be earmarked for environment management and socio-economic activities including green belt development / mangrove plantation and details thereof shall be furnished to this Department as well as the MoEF, GoI. The details with respect to the expenditure from this budget head shall also be furnished along with the compliance report.	Being Complied <ul style="list-style-type: none">Environmental Management Plan is in place and the funds earmarked are being utilized for effective implementation of environmental safeguards and environment monitoring. Key components are Environment monitoring, Mangrove plantation, environmental studies etc.Please refer the Annexure-6 for details of budget and Expenditure for Environment Management for the FY: 2021-22.																												

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S. No.	Conditions	Compliance Status
		<ul style="list-style-type: none"> CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. Please refer the Annexure-2 for the status of the CSR activities planned and carried out during the Financial Year: 2021-22.
21.	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Complied. <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. Please refer the Annexure-7 for Environment Management Cell Organogram.
22.	Environment Audit Report including the changes, if any, with respect to baseline environmental quality in the coastal and marine environment shall be submitted every year by M/s. AHPL to this Department as well as MoEF, Gol.	Complied. <ul style="list-style-type: none"> Regular Environmental Monitoring are being carried out through a GPCB approved environment auditor M/s. Pollucon Laboratories, Surat (a MoEF&CC and NABL accredited laboratory) and others concerned authorities along with Six Monthly Compliance Report. No significant changes observed with respect to past monitoring results.
23.	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s. AHPL on a regular basis to this Department as well as MoEF, Gol.	Noted and complied with. <ul style="list-style-type: none"> Six monthly compliance reports are being submitted to all the concerned authorities on regular basis. Last report was submitted on 30.11.2021 through E mail.
24.	Any other condition that may be stipulated by this Department / MoEF, Gol from time to time for environment protection / management purpose shall have to be complied with by M/s. AHPL.	Noted and comply with the additional conditions stipulated by the MoEF & CC, if any.

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ANNEXURE-1:

ACTION PLAN AND COMPLIANCE STATUS ON THE ISSUES RAISED DURING THE PUBLIC HEARING

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Annexure-1: Action plan and compliance status on the issues raised during the public hearing:

S. No.	Name	Details of Representation	Response during PH	Status as on 31st March 2022
1	Rohitbhai Jayantibhai Patel, Sarpanch, Hazira	<p>On behalf of Hazira village, I welcome the expansion project of M/s. Adani Hazira Port Pvt. Ltd. at Hazira. Priority will be given to thousands of people of Hazira and surrounding villages for transport, business and employment opportunities. Company has provided training to the people of Hazira and surrounding villages for crane operation at Mundra and given employment as crane operator at Hazira Port.</p> <p>I believe that company will install latest technology for pollution control. Proposed project will surely care for human life. Due to proposed port Hazira people will surely get water, health and education facilities. I request that company would take required precautions for accident prevention and safety. Adani Foundation has provided required support as and when needed by Hazira village. I request that fishermen's concerns be taken care.</p> <p>I welcome this port as we are getting transport related business opportunities and we hope that same would be continued in future.</p> <p>Please clarify how much priority will be given to people from Hazira and surrounding areas for employment.</p> <p>Forest land is also requested for development of port at Hazira. So kindly clarify for compensation/afforestation.</p> <p>Please clarify what arrangements have been made by company if calamities like Tsunami, Earthquake or Flood arise after implementation of the proposed project.</p>	<p>Rohitbhai, we are happy to note that on behalf of Hazira gram panchayat you have given warm welcome for this project. We whole heartedly thank you for this gesture. We assure you that our Conduct and Approach in managing activities would be in reciprocation to your welcome.</p> <ul style="list-style-type: none"> • National Highway –6 is being widened. On completion the constriction and congestion that we see today will be behind us. As mentioned in the EIA in the first 5 years of the multi cargo port maximum number of 1200 trucks is expected to ply in the national highway connecting the port. After the railway line is developed and the trains start plying 60% of the transportation load will be conveyed through rail transport only 40% will come on the national highway. That is a moderate load. 	<ul style="list-style-type: none"> • Closed. Point is about welcoming the project and does not warrant any further action. • Widening of the National Highway – 6 is completed. Currently there is no traffic congestion on National Highway – 6. Railway line for transport of cargo is yet to be developed.
2.	Dharmendrabhai	We welcome this public hearing. It is good that you are giving preference to	<ul style="list-style-type: none"> • This port will have 	

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	<p>Bhikhubhai Patel, Ex-deputy Sarpanch, Hazira</p>	<p>local affected people and hearing them during public hearing. We don't have any objection against the development of Adani Group along with other industrial development in Hazira leading to development of Gujarat and the Nation. Adani company is complying with the environmental laws promulgated by the State and Union Government. In fact, it is duty of Adani Port to do so. Under their CSR activities Adani Group should provide support for development of Hazira village and employment to unemployed people. All transport businesses should be given to small & big local transporters of Hazira only. Youth from families of affected fishermen should be provided required training and employment. New transport route should be proposed as the present route to take containers is very narrow.</p> <p>We thank Adani Group for giving support for the construction of classrooms for standard 11 & 12 in Navchetan school.</p> <p>I thank you for making me successful in providing compensation to the affected fishermen.</p> <p>I request for employment to locals people and transport contract to local transporters only. We support the development of Adani Port in our area. We don't have any objection to the project in this public hearing.</p>	<p>focus on container cargo. Container cargo comes in boxes and is clean by nature. So the question of fugitive dust emission on the road is not expected to be severe for this port.</p>	<ul style="list-style-type: none"> • Closed. <p>Major cargo handled at the port is container and liquid which do not increase the fugitive dust. AHPL is monitoring ambient air quality at five locations in and around project through a NABL accredited and MoEF recognized laboratory M/s Pollucon laboratories, Surat. Report confirms that ambient air quality is well within the NAAQS. Copy of the reports are enclosed as Annexure – 4A</p>
3	<p>Bhagubhai Maniram Patel, Sarpanch, Junagam</p>	<p>As this is biggest port in the South Gujarat and as there is no government land left, we wish that there will not be resettlement of the Junagam village due to this proposed expansion project of Adani Port.</p> <p>There is a fear in the people of the village that they will have to vacate</p>	<p>• The coal handling will be done taking care that all the trucks are properly covered so that there is no dust emitted on the road. As you know practically all our transporters are from this area. It is their responsibility to take care of overloading. If transporters do not overload, there would not be any spillage on the roads. It is not only responsibility of GPCB or the company but we all have to collectively work</p>	<ul style="list-style-type: none"> • Complying with. <p>All the trucks carrying coal and other dusty cargo are being covered through tarpaulin. AHPL also ensures that no truck goes out of the port with overload.</p>

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	<p>the village in future. So we request collector to give us guarantee in writing that we will be able to live with peace where we are today.</p> <p>Berths will be developed through dredging up to -15 meters. We are getting ground water from the depth of 20 to 65 ft in some of the areas, which we are using for drinking purpose. What will be the impact on the ground water due to dredging upto -15 meters?</p> <p>After construction of liquid berth No.3 which will handle & store 1.95 Million Tones by 2017-18, what emergency steps would be required to save the human life incase just like Bhopal if there will be gas leakage due to Tsunami, Earthquake or terrorist activities.</p> <p>We welcome Adani Port & they require land for the container and coal storage. However, all industries located in the Hazira area have acquired government land and another 2000 acre land is allotted to tourism department. Sir therefore, I request you to declare remaining land of Junagam, Suvali. Damka & Bhatlai as residential area or agricultural zone. This is to ensure that in future we will not be displaced. As the port is to be constructed at the coast line, there are chances of spillage of liquid into sea and impact of solid hazardous waste. In this condition explain plan to mitigate impact on fisher man community.</p> <p>Secondly there is a question of unemployment of the youth of the Hazira area. As told by the company 700 people will be employed, youth from local families presently engaged in farming, animal husbandry and fisheries should be trained. Due to development of the port people from different states of India will come and therefore, there are chances of crime such as gang rape, hooliganism and terrorist attack. Is there any plan to control these potential evils? Training</p>	<p>together for spillage free coal transportation.</p> <ul style="list-style-type: none"> Junagam sarpanchshri expressed apprehension that we will take away government land and lands belonging to farmers in Junagam village. We want to assure you that we do not intend to take any private land of farmers or any house site land. If you carefully see the development plan we have just presented, the map will alleviate your uncalled fears. There would not be any question of rehabilitation of any village. Moreover, we will take care that your property. Your assets and convenience are not jeopardized by our action. You talked about vultures; I would like to point out that there is no sanctuary or national park near by the port. In the EIA, we have studied the entire area and we will take due care to preserve the environment. We re-emphasize that we will comply with all the laws and in doing so we would 	<ul style="list-style-type: none"> Closed. <p>There is no displacement of people, houses or fishermen as the port is being developed on reclaimed land and land allotted by Government as there is no acquisition of private land.</p> <ul style="list-style-type: none"> Closed. <p>There is no sanctuary or national park near by the port. In the EIA, we have studied the entire area and we will take due care to preserve the environment.</p>
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	Adani Hazira Port Limited	From: October 2021 to March 2022
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		to unemployed women and employment is being planned. In future we and Adani Port would like to work together with full cooperation. On behalf of Jungam village and villagers, I welcome the expansion of the terminal.	be guided by GPCB and other concerned authorities.	<ul style="list-style-type: none"> Complied. AHPL is operating the port in compliance with all rules and regulations.
4	Alpeshkumar Thakor – Fisherman, Hazira.	<p>Plantation of the mangroves has been carried out between well numbers 4 to 7. This plantation has been destroyed by dredging and area is filled up.</p> <p>In this area fisherman used to catch prawns, crabs and sustain their livelihood. Through dredging company has destroyed Mangroves. There are approximately 2500 fishermen, belonging to Halpathi and Koli Patel communities living in the village. These people will be unemployed as fishing activity will be stopped due to dredging up to 20 meter by the company. Is it development or destruction?</p> <p>If fishermen get sand from the river by the boat in the Magdalla area, they have to pay royalty for the same. But why companies are given permission for dredging without royalty? What about approximately 2500 fishermen?</p>	<ul style="list-style-type: none"> Some of you have expressed concern about terrorist activity creating great risk to our chemical terminals with attendant adverse consequences in our neighbourhood. We are going to be ISPS compliant; as a result of this discipline, only authorized persons and material can enter into the port. More over district administration and police also take precautionary measures to intercept terrorist activities. Coast guards contribute to this effort. In a sense the entire nation is collectively fighting against terrorism. 	<ul style="list-style-type: none"> Complied. AHPL security system is in compliance with ISPS. ISPS Statement Number is: MMD/KDL/SOC/014 and the verification audit for renewal of certificate is successfully completed and issuance of certificate is Under Process. AHPL has access control system in place to avoid unauthorized entry of men and material.
5	Babubhai Aahir (Sarpanch, Suvali)	<p>As our friends have already given suggestion for safety and employment, it is not required to repeat the same. Foundation should provide employment opportunity to the land looser, fisherman, individual engaged in animal husbandry who are above 50 years and uneducated.</p> <p>Unemployed youth of this area should be provided training and given opportunity for the employment. Company should control the pollution arising due to transportation of chemical or coal. Earlier "Shell" company used to avoid overloading. So Adani Port should also not do the overloading to prevent the accidents. There is no medical facility available for treatment in case of emergency.</p>	<ul style="list-style-type: none"> In the context of natural calamities, we have done modeling studies to understand the risk of oil spillage. We have also prepared Disaster Management Plan. This plan is being presented to the District Collector. After his approval it will go to State Disaster Management Authority at Gandhinagar for necessary approval 	<ul style="list-style-type: none"> Complied. Regional DMP for the Hazira Peninsula, covering all major industries

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		As there is drought this year, company should consider providing drinking water in surrounding area.		
6	Divyeshbhai, Hazira	<p><i>(During the representation of the Shri. Divyeshbhai</i></p> <p><i>there was a aggressive representation of Shri. Jayesh Patel resident of village Dihen, that he wants to present his questions.</i></p> <p><i>Honourable Collector replied that resident or stakeholders from affected villages should represent first. During this time Shri. Jayesh Patel and other people created disturbance which was controlled by Panel and then representation from Mr. Divyeshbhai continued.)</i></p> <p>Why this public hearing is kept at Junagam even it is of Hazira Village? Now we will talk about the pollution. Lots of dust is observed in the houses of the hazira village during the night hours. As per information particles of dust have been found in the lungs of the woman. If this information proves to be true we will file a pitition in the High Court. During the widening of the National Highway No. 6 land in the surroundings villages will be taken. As National Highway is not passing through Hazira, the villagers need to travel 8 Kilometres extra. Why it is not extended straight? Fishermen are being told that there is no fish in the sea but slags are cast in the corners of the sea due to which some fish die. Dolphin is also found at present in the Hazira area. We welcome the project if the port company is ready to give written assurance regarding employment.</p>	<p>and guidance. During natural calamities all local industrial units and government organizations work together to mitigate impacts of natural calamities. In that situation we would work under the guidance of District Collector and police authorities to do the needful. Disaster Management Plan is structured in such a way.</p> <p>• In regard to impact on fisherman, I want to point out the real situation that we are not in the river mouth, but just outside of it. The port development is only in a stretch of 4 km of coast line. We have not displaced any fisherman. The surrounding areas are open for fishing, nevertheless we have compensated fisherman who were identified by the Grampanchayat to be active in the areas where we are now operating. As</p>	<p>and the port has been prepared in consultation with District Authorities and same is being implemented.</p> <p>Oil Spill Contingency Plan has been prepared and the same was approved/ vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>In addition, AHPL has developed and implemented ER & DMP. Regular mock drill to ensure the compliance and preparedness is being done.</p> <p>Last Mock Drill (On Site) was on: 31.03.2022.</p> <p>Last Update of ERP & DMP: 28.03.2022.</p>
7	Jayeshbhai Patel, Resident of Dihen village and President, Gujarat State	<p>I raise my objections against proposed expansion project of AHPL for which public hearing is organized and I request that my objections should be included.</p> <p>M/s. Shell India has got environmental clearance in</p>	<p>mentioned we will support fisherman by giving them tools, nets etc. and be helpful to them.</p> <p>(At this stage Shri Sheikh and Shri Jayeshbhai started</p>	

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	Farmers Samaj	<p>2003 in which clearance was given for development of three berths. These berths are constructed at places other than shown earlier. So I request collector to remove these three berths.</p> <p>Out of proposed 7 berths for container and 4 for bulk terminal, 3 have been already constructed and port is functional. In this situation, I request to include in this public hearing what actions have been taken by collector against Adani for functioning of port & disposal of coal in Hazira and what actions have been taken by GPCB against company for disposal of coal in open.</p> <p>This project is being developed on the mouth of river Tapi therefore it is my feeling and request that it should not be given Environmental Clearance.</p> <p>EIA study does not include the objections of the report of Sugnyaben Bhatt Commission which was set up by Gujarat Government in 2006 in the aftermath of Surat flood. So it is my request that this public hearing and Environmental Clearance should be cancelled.</p> <p>Hazira is located on the mouth of Mindhola & Tapi river. As per ICMAM report of Tapi river, erosion effect had spread up to Dumas because of filling of Tapi river due to Industrialization in this area. Erosion of shore is up to 2500 meter towards Dumas.</p> <p>ICMAM report is not studied. There is no clarity on what steps are required to control the erosion of shore near Dumas, so it is my request that it should not be given Environment Clearance.</p> <p>This area is declared reserved for vultures. As per survey there are about 150 vultures in the forest area. This report does not include what would happen to vultures, where they would go and what would be impact on Environment. So it is my request</p>	<p>shouting & disturbing the clarification of the project proponent. The chairperson told them repeatedly not to disturb the proceedings)</p> <ul style="list-style-type: none"> • We would help sons and daughters of fisherman to educate them and trained. We would do everything practicable to achieve this end. • We are developing the port by reclamation. This cannot any way cause salinity ingress in the ground water. 	<ul style="list-style-type: none"> • Closed. <p>CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.</p> <p>Appropriate financial contribution is being made. Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the Annexure-2 for the status of the CSR activities carried out during the Compliance period.</p> <ul style="list-style-type: none"> • Complied <p>Proper care is being taken during</p>
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	<p>that it should not be given Environmental Clearance.</p> <p>There are approximately 2500-3000 fishermen families. There will be crisis for their livelihood.</p> <p>There is no clarity for rehabilitation and resettlement from Adani. So it is my feeling and request that it should not be given Environmental Clearance.</p> <p>Routes to sea are almost closed specifically for "Pagadia fishermen", who do fishing on foot. There is a big problem of their livelihood. Due to loss of fishing activities now they will not get thousands of crores of rupees which they were supposed to get due to fishing activities. Rs. 15 lacs is not sufficient compensation for that.</p> <p>This area comes under CRZ-IA. Specific fish called "Levta" grows in the mudflat and fishermen catch that fish in this mud and earn their livelihood. Due to excavation and reclamation there will be damage to biological mud and destruction of marine ecology. EIA report does not have clarity on what actions are required. So it is my feeling and request that it should be clarified in EIA report or not be given Environmental Clearance.</p> <p>Before Adani came there was mangrove forest in the area of 40 ha. As per survey today mangroves survive in the area of 15 ha only. Due to destruction of mangrove there will be damage to environment and coastal erosion. This study is not covered in EIA so it is my feeling and request that it should not be given Environmental Clearance.</p> <p>Five ports from 15 different companies and two big ports within 5 Km are coming in this area. The cumulative impact on road & rail transport due to operation of both ports Adani & Essar is not studied while preparing the impacts on land environment. Six-lane-road is also not going to be sufficient for this. So</p>	<p>We are going to investigate the quality of ground water every year</p>	<p>construction activity to avoid salinity ingress and any degradation of water quality. M/s. AHPL is monitoring the Ground Water Quality at one location on monthly basis. Results show no significant change in the quality. Ground water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory).</p> <p>Please refer the Annexure-4B for the Environmental Monitoring / Analysis Reports for the period October 2021 to March 2022</p> <ul style="list-style-type: none"> Complied. <p>CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. Please refer the Annexure-2 for the status of the</p>
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		<p>I request that Environment clearance should be given only after doing cumulative study.</p> <p>As reported, level of Suspended Solids & Petroleum Hydrocarbon is high as compared to desired levels in water. Level of pollution in the areas of water, air and land is already high as compared to other locations in the country. EIA report does not have clarity on what steps will be taken to bring down the pollution. So it is my feeling and request that it should not be given Environmental Clearance.</p> <p><i>(It is to be noted that Mr. Jayeshbhai Patel belongs to "Dihen village" which is approximately 18 Km away from the port site)</i></p>	<p>you.</p> <p><i>(At this stage some of the individuals asked clarification for employment in the company. Collector Shri directed the company representative to answer it, and advised audience to listen to the representative peacefully.)</i></p> <p>• The port has opportunities for both technical and non-technical employment. Moreover indirect employment in transport and other services will also be there. All these opportunities may be taken by local residents. To facilitate them to take this opportunity we will provide necessary training to enhance their competence, so that they may not only get employment in Adani port but else were also.</p> <p><i>(At this stage Jayeshbhai and other peoples repeatedly disturbed the hearing and stopped the company representative to elaborate further. Collector repeatedly asked all concerned to maintain calm and listen to the company representative. All</i></p>	<p>CSR activities carried out during the Compliance period.</p> <p>• Closed</p> <p>Point does not warrant any further action.</p> <p>• Complied.</p> <p>AHPL has always given employment priority to local qualified persons and in future the same will be continued. As on 31st March 2022 total 191 out of 224 On roll employees are from Gujarat.</p>
8	Dhansukhbhai Patel, President Hazira Coastal Area	<p>Employment is given to 30-35 people in the form of contract but we insist that it should be permanent in nature.</p> <p>For this liquid cargo transport, it will be storage of chemicals or processing of chemicals? If it is chemical processing then hazard will increase, so I request to provide information on what measures Adani will take for health and safety?</p> <p>Please provide information if this project has got any clearance from Central Government like what they have got from State Government.</p> <p>Adani has declared only 4-5 villages as affected. Will there not be any impact on Mora, Kawas or Interior of Ichhapur while trucks pass through them?</p> <p>There are 10-12 big companies in this area and they have developed residential township with all facilities for their employees. Is it not possible that each company will take one village from 10-12 villages and also provide them same facilities?</p> <p>For this, MOU is necessary and matters related to self-employment & development of village should be mentioned. We will be benefited in future; only if there will be MOU.</p>	<p>you.</p> <p><i>(At this stage some of the individuals asked clarification for employment in the company. Collector Shri directed the company representative to answer it, and advised audience to listen to the representative peacefully.)</i></p> <p>• The port has opportunities for both technical and non-technical employment. Moreover indirect employment in transport and other services will also be there. All these opportunities may be taken by local residents. To facilitate them to take this opportunity we will provide necessary training to enhance their competence, so that they may not only get employment in Adani port but else were also.</p> <p><i>(At this stage Jayeshbhai and other peoples repeatedly disturbed the hearing and stopped the company representative to elaborate further. Collector repeatedly asked all concerned to maintain calm and listen to the company representative. All</i></p>	<p>CSR activities carried out during the Compliance period.</p> <p>• Closed</p> <p>Point does not warrant any further action.</p> <p>• Complied.</p> <p>AHPL has always given employment priority to local qualified persons and in future the same will be continued. As on 31st March 2022 total 191 out of 224 On roll employees are from Gujarat.</p>

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		<i>(It is to be noted that Mr. Dhansukhbhai Patel belongs to Kawas village which does not fall within 10 Km radius of the study area)</i>	<i>major points being over collector concluded the public hearing.)</i>	
9	Kamlaben Rohitbhai Patel, Choryasi Taluka Panchayat, Leader of opposition party	I welcome the expansion project of Adani company. Due to proposed port priority would be given to Hazira and surrounding area for employment and business. I request that fishermen's concerned would be taken care by this project. Adani Foundation of Adani Company has given commitment for the various activities for the development of village. So I welcome the project and declare my support for the Port of Adani Company at Hazira.		
10	Mohanbhai Ambubhai Patel, Village: Vaswa	<p><i>(Collector informed Mohanbhai to raise those issues only, which were not raised earlier)</i></p> <p>Adani Company has told that 700 people will be employed. Please clarify whether it will be permanent or contractual basis? Thousands of people are working on contractual basis in the surrounding companies but nobody gets permanent employment.</p> <p><i>(Then Regional Officer, GPCB again informed the concerned persons to raise other issues if any. The employment issue will be addressed by the company.)</i></p> <p>As per survey carried out by NIO out of 1600 km of Gujarat coast nearly 25% is already filled due to construction of ports at other places. As a consequence of this, there will be huge damage to agriculture in the surrounding area and there would also be ingress of sea water in the area.</p> <p>Adani Company has decided to pay compensation of Rs. 15 lacs to 40 fishermen but what arrangement company will make for the 4000 fishermen in the surrounding villages?</p> <p>Adani Company is developing their project on 31428 ha of land. Is this</p>		

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		land private or government? If it is on private land then whole Junagam village would be vacated. Survey numbers are also not shown for this land. <i>(It is to be noted that Mr. Mohanbhai Patel belongs to Vanswa village which does not fall within 10 Km radius of the study area)</i>		
11	Jayantibhai Khalasi President, Fish Progress Union, Hazira	You all will go away after this public hearing but whom should we contact regarding pollution in our area? <i>(Then Collector informed him that regarding pollution he may contact GPCB. Regional Officer, GPCB also informed him that regarding pollution he can submit in writing.)</i>		

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ANNEXURE-2:

DETAILS OF THE CSR ACTIVITIES CARRIED OUT AND BUDGET EXPENDITURE FOR FY 2021-22

The Budget and Expenditure of CSR activities in FY 2021-22 is as follows

Thematic Area/	Annual Budget (In INR Lacs)	Utilization (In INR Lacs)
Education	142.80	111.55
Community Health	104.45	64.93
Sustainable Livelihood Development	147.43	147.58
Community Infrastructure Development	248.03	130.06
General Management and Administration	26.18	15.23
Total Amount	668.89	469.35

Details of CSR Expenditure of last three Financial Years

S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)
1	2018-19	307.53	253.50
2	2019-20	330.53	265.75
3	2020-21	255.13	223.61



ANNUAL REPORT

2021-'22

Adani Foundation, Hazira
Annual Report – 2021-'22

Adani Foundation, Hazira

Corporate Social Responsibility plays an important and significant role in the nation building process, and Adani Foundation's social and developmental initiatives are a step in that direction. At Adani Foundation, we believe that companies should and must wholeheartedly participate in CSR activities and give back to the society. Our main objective is to bring about a positive change in people's lives, whom we impact. We are one of the few global companies in the world who start their CSR initiatives. Adani Foundation is working as a CSR wing of Adani Groups in the four major areas; they are Education, Health, Sustainable Livelihood and Community Infrastructure Development.

At Adani Foundation, the CSR approach is strategic in nature and our CSR approach, and it

is embedded in our business processes across the entire value chain of the company. The objective of CSR is to improve 'Quality of Life' of the community on a sustainable basis in a pro development inclusive model of growth. For assessing community needs for a realistic and sustainable development a socio-economic survey of the community was conducted. Based on survey results, the CSR interventions have been taken up by adopting a partnership mode with government agencies, community-based organizations and the local community. Sustainability of the intervention and its impact are being measured through regular third-party audits.



Brief information about Adani Foundation, Hazira

Total Coverage



32 Villages

District two

Block-3

Total Population 1.26 Lakh

08 Core Villages of Choryasi block
and
15 Villages of Olpad block

**Map of Core
villages and
Villages of Olpad
block of Surat
District**



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1.0 Education

1.1 Navchetan Vidyalaya, Junagam

Excellence in education and fostering the love of learning is the hallmark of Primary wing of Navchetan Vidyalaya, Junagam. Hazira. Our staff of dedicated and sincere teachers are working to improve the academic standards of both the Pre-Primary and Primary sections. Efforts are made to promote the holistic development of students encouraging them to participate in both, curricular and co—curricular activities.



Teachers act as the facilitators and explain concepts, facts and provide extra information to the students with a variety of teaching aids. E-learning is an important and essential component in this regard, which makes the teaching- learning process both interesting and interactive. Teachers take good care of the students and assist them to cope with all kinds of problems and challenges.

In the academic year 2021-22, the school has primarily been working in an online mode in accordance with the Government Regulations. All classes and students were in touch with their class teachers and subject teachers through Google Meet and other virtual modes. Efforts



were being made to ensure that all students actively



participated in the online mode and ensured that maximum learning outcomes. Teachers conducted their online lectures with attractive and informative power

point presentations, online activities and even conducted the periodic tests and examinations through the online medium.

When the school reopened physically for a brief period, all precautions of sanitization, thermal checking, wearing of mask and social distancing was maintained. Care was also taken to ensure that the staff were vaccinated well in advance to provide a safe and secure school environment. Once the students got back into the daily routine of regular classes, eligible students were vaccinated.

Students Enrichment Programs:



Just like every year, this year too our students actively participated in all school activities and competitions – but with a difference i.e., in the virtual mode. This included Singing competition, Dance competition, poem singing competition, Drawing and poster making competition, greeting card making competitions in the pre-primary and primary sections.

Festivals and celebrations like Holi, Christmas, Rakshabandhan, Ganesh Festival, etc. are also an integral part of the student's development. All national, religious and regional festivals are held throughout the year to educate the children about the rich cultural and religious heritage of India. These events sensitize the students towards living in harmony in a diverse society – and encourage them to pay respect to the customs and traditions of all religious communities.



Moral education is an essential part of the school curriculum. A series of value education have been also introduced with a focus on child abuse prevention. It includes the academic, psychological, and legal aspect of child safety, gender equality and child rights. Children are familiarized with the POSCO Act. These all the programs were conducted by either psychological experts/ Counsellor or Government officials.

Promotion of Sports and other Co-curricular Activities:

Along with academics, Sports is an integral part of the school curriculum. Students are motivated and guided to be physically fit and mentally alert as a 'Sound mind resides in a healthy body only.' By the coach and PE teacher. Majorly focused on Athletics, in which various Running, Various Jumps are included. Students have also participated in block level competitions by winning



at school levels.

53 students of primary wing of Navchetan Vidyalaya, Junagam of Class-III to VIII participated in the block level competitions of athletics, Chess. Judo, among them 18 students declared winners. Students who stood 1st and 2nd will be participated at district level. They will offer the DLSS admission.



Teachers Training & Professional Development

Our committed staff of teachers are undergoing a process of continuous development by undertaking several training sessions on different portals of DIKSHA. Eager to accept the challenges of teaching in an online mode, the teachers have quickly learnt the different online teaching methods and ways of keeping students actively involved in a virtual mode. They are always eager to learn and accept the recent



trends in education and ensure maximum learning outcomes in the teaching-learning process. Seminar on 'Learning Outcomes' for Primary school students in context of curriculum, 03 Days inhouse Teachers' enrichment program was conducted from 16th to 18th November 2021.

Achievements:

School encourages all the students for external competitive examination for scholarships and entrance examination in JNV/ SAINIK school. In this academic year students have appeared in Jawahar Navodaya Vidyalaya, Entrance Examination among them Master Jay Girishbhai Surati of our school has cracked exam and selected in JNV, Surat district.

1.2 Project: Utthan

Background of Project Utthan:

The future of India depends upon the quality of education imparted to our children. We believe that it is the joint responsibility of the Government and citizens to improve school education. With an aim to enhance the quality of primary education in Surat District, Adani Foundation proposed to adopt 10 government schools of Hazira coastal area of 08 villages under the project '*Utthan*', and from December-2019 the project starts with form MoU signed between Adani Foundation representative and DPEO, Surat. By this intervention, Adani Foundation seeks to facilitate; Focus on progressive learners (PRIYA VIDYARTHI) and celebrate their progress, make learning joyful, provides adequate resources and facilities, strengthen the curricula to provide basic skills, especially in the areas of literacy, numeracy and skills for life. (Strength is of Academic year – 2021-22)

Sr. No.	Name of Utthan School	School up to Class	Boys Strength	Girls Strength	Total Students	Remarks
1	Bhatlai Primary School	Class - VIII	91	88	179	74.86% Migrated students
2	Damka Primary School	Class - VIII	100	88	188	--
3	Halpatiwas Primary School, Hazira	Class - V	13	12	25	100% Halpati students
4	Hazira Primary School	Class - VIII	142	122	264	76% migrated students
5	Junagam Primary School	Class - VIII	58	51	109	--
6	Matafaliya Primary School, Hazira	Class - V	65	73	138	100% migrated students
7	Mora Primary School	Class - VIII	249	240	489	74.36% migrated students
8	Rajagari Primary School	Class - VIII	41	41	82	59.76% Migrated students
9	Suvali Primary School	Class - VIII	51	55	106	49.06% Halpati students
10	Vansva Primary School	Class - VIII	39	45	84	44.05% Halpati students
	Total:		849	815	1664	

Cast wise Students Details:

Sr. No.	School name	SC	ST	OBC	General	Total	Almost all the ST students are from Halpati community & General Category students are Migrant students from other states.
1	Bhatlai Primary School, Bhatlai	12	12	21	134	179	
2	Damka Primary School, Damka	6	34	50	98	188	
3	Hazira Halpatis Primary School, Hazira	0	25	0	0	25	
4	Hazira Primary School, Hazira	2	42	7	213	264	
5	Junagam Primary School, Junagam	0	22	26	61	109	
6	Matafaliya Primary School, Hazira	0	0	0	138	138	
7	Mora Primary School, Mora	29	51	31	378	489	
8	Rajagari Primary School-1, Rajagari	4	4	25	49	82	
9	Suvali Primary School, Suvali	0	52	2	52	106	
10	Vansva Primary School, Vansva	0	37	9	38	84	
		53	279	171	1161	1664	

SDG align with Project Utthan**Goal # 4**

"Ensuring inclusive and equitable quality education and promote lifelong learning opportunities for all. This goal ensures that all girls and boys complete free primary and secondary schooling by 2030."

Goal # 4.1

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

Goal # 4.1.1

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

Goal # 4.2

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

Activities Carried out in Utthan Schools

Awareness sessions on COVID-19 pandemic:



Utthan Sahayaks from Adani foundation, Hazira observed the effects of the pandemic on everyone's day-to-day lives. However, what was most concerning to them was continuing their education whilst complying the safety norms during the period of temporary closure of schools. The said problem affects students across the world; however, students residing in remote regions are impacted more because of the lack of access to technology. The Utthan Sahayaks have created WhatsApp groups of different classes. They have taken awareness sessions of parents and students to deal with the pandemic of COVID-19. The Utthan Sahayaks have

discussed about Mask, Social distancing, Sanitization & Vaccination and insisted the students and parents to deal pandemic with positive mind set. Total 519 students and 188 parents benefited.

Baseline Assessment – 2021-'22:



Main objective of project Utthan is to identify and cater progressive students of Government primary schools. The data of progressive students were very old and to measure loss of learnings during pandemic of CORONA, Adani Foundation has decided to do baseline assess of the students of Class – III to VI for three basic competencies like Reading, Writing of Gujarati language and Numeracy. For each competency students were

assessed for Four levels. Which includes identifying Alphabets, Numbers, Addition, Subtraction, interpretation of words, sentence etc.

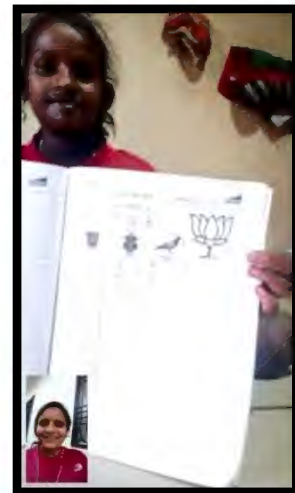
Utthan Sahayaks have conducted Baseline assessment of all 10 Utthan Schools of Hazira coastal area. They have individually measured the levels of students by visiting their Faliyas. The students who have migrated, their assessment was done online by video call. The students who get 04 scores in all three competencies were identified as regular students; rests are progressives' students.



Total 647 students of class-III to VI were identified as progressive students and 1693 competencies were lacking for those progressive students. Utthan Sahayaks have started on teaching individually and in a same competency group. Till March end 546 students are converted in mainstream and 1525 competencies were cleared.

Faliya/Maholla Classes and Online Classes during Lockdown:

When there was a lockdown due to COVID and schools were closed, Utthan Sahayaks have taught the students at their neighbourhood place. Utthan Sahayaks were regularly visited the Faliya/ Maholla of the students, they have created timetable and formed groups as per the residence area of students. At given time students gathered at pre-decide place. Utthan Sahayaks have catered almost 80% of progressive students.



In project villages of Hazira coastal area, 7Approx. 30% students of Government primary school have migrated to their native state like Bihar, UP, MP etc. For those students classes are arranged online. Two times in a week Utthan sahayaks connect with those students and conduct classes, assigned oral and written work.

Introducing English as a third language:



An important goal of teaching English in elementary school is to create a basic vocabulary that consists of single words and short sentences. In Gujarat, Government introduces English from class IV. Project Utthan initiated to provide basics of English from class I with structure syllabus majorly focused on vocabulary, alphabets, numbers, singing rhymes and basic words. Average 442 students of class- I to III of 10 Utthan

schools were learning basic English language from Utthan Sahayaks. USs are teaching, standing line, sleeping line, Curve, Capital & small letters, Identification of alphabet etc. in class- I to III

Cultivating Reading Culture:

Reading for pleasure can benefit a child's mental health. The importance of reading for children cannot be underestimated. Reading for pleasure can benefit a child's education, social and cognitive development, their wellbeing, and their mental health. USs are motivating and issuing library books to the students of class-III to VIII once in fortnight. To develop their interest in reading. 5222 books or magazines were issued/ given to students.



One of the objectives of Utthan is to cultivate the culture of reading in school, Under project Utthan Adani Foundation has provided 276 library books to each Utthan school in December 2020. In December 2021 Adani foundation has added 125 more library books to each 10 Utthan schools including pictorial books, Story books, JNV & NMMS preparation books. AF has also subscribed 15 educational magazines to each Utthan schools for upscaling library resources

Virtual Tour of Plastic Waste Management



Travel and visits have been largely curtailed during the Corona period. Then online has proved to be the best medium for imparting education seamlessly. With the aim of educating children about the effects of Plastic waste on environment and ecosystems AF has planned a virtual tour of Plastic Waste Management on 25/08/2021 at 11.00. 522 Students of Class-VI to VIII of Utthan

Schools of Mundra, Nakhatrana and Hazira have participated. Itinerary of virtual tour was waste collection, segregation, treatment, and disposal

Mothers' Meet:

Parents are the 3rd and most important pillar of child education. In the COVID situation, while students were not going to schools, Parents must make sure and control academic activities of their children. Especially Mothers'. If we can sensitize mother regarding their ward's education, It can definitely impact on the achievement of students. Observing this Project Utthan started conducting Mother's meet every month to discuss an academic and non- academic performance of the student. It helps to know and work for the child's performance. Every month USs have pre decided agendas for the mothers' meet along with

academic growth of their wards. Each and every mother of Progressive students were met by Utthan Sahayaks once in two months.

Month	Agenda
April- 2021	<ul style="list-style-type: none"> • Spending quality time with students
May-2021	<ul style="list-style-type: none"> • Ideal use of mobile phone • Importance of wearing mask
June-2021	<ul style="list-style-type: none"> • Support to Vaccination drive organized by GoG
July-2021	<ul style="list-style-type: none"> • Sending wards in Faliya/Maholla Classes • Awareness about Health & Cleanliness.
August-2021	<ul style="list-style-type: none"> • Ecofriendly Rakhi celebration with corona warrior
September-2021	<ul style="list-style-type: none"> • Inspire students to participate various competitions
October-2021	<ul style="list-style-type: none"> • Mothers can be an entrepreneur • SoPs directed by GoG for schools
November-2021	<ul style="list-style-type: none"> • Encourage child to participate in various competition and celebration
December-2021	<ul style="list-style-type: none"> • Briefing about 'Samaydaan' • Government scheme: Sukanya Samriddhi Yojna and Vahli Dikari Yojna.
January-2022	<ul style="list-style-type: none"> • Facilitate students to attend virtual classes
February-2022	<ul style="list-style-type: none"> • Academic growth of students with action plan
March-2022	<ul style="list-style-type: none"> • Celebration of International Women's Day

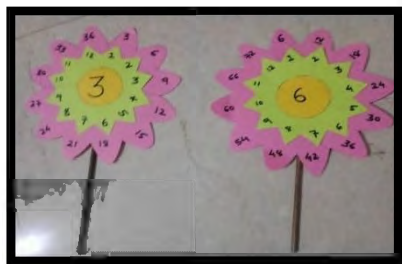
Competitions and celebrations:

Healthy competition inspires kids to exhibit their maximum potential. When students compete, they will become more inquisitive, research independently and learn to work with others. They will strive to do more than is required. These abilities prepare children for future situations of all kinds. In this academic year as situation permits virtually or offline monthly competitions and celebrations were organized under the project.

Month	Title of Celebration / competition	Mode	Activities performed
April- 2021	World Book Day	Online & Offline	<ul style="list-style-type: none"> • Silent Group/ personal Reading, Book Review, Puppetry Show
May-2021	Mother's Day Participation at KALAMRUTAM-2021	Offline Online	<ul style="list-style-type: none"> • Letter to supermom, Card making • Best out of Waste
June-2021	World Environment Day International Yoga Day	Offline	<ul style="list-style-type: none"> • Poster making, Planting 164 sapling. • Performing Yoga Virtually + Physically
July-2021	World emoji day	Offline	<ul style="list-style-type: none"> • Preparing emojis & exchanging.
August-2021	Independence Day JANMASHTAMI Celebration RAKHI making Rakshabandhan Celebration	Online & Offline	<ul style="list-style-type: none"> • Singing patriotic songs, • Poster making, Drawing. • Making ecofriendly Rakhi • Tie Rakhi to Corona warrior
September-2021	Teachers' day	Online &	<ul style="list-style-type: none"> • Preparing cards, Display message on soft boards, Acted like teacher.

	GANESH CHATURTHI	Offline	<ul style="list-style-type: none"> • Making Ganesha idols by using soil & biodegradable materials, rangolis, Drawings
October-2021	International Day of Non-violence. NAVRATRI DIWALI	Online & Offline	<ul style="list-style-type: none"> • Drama/ play, Reciting songs • Card making, Playing GARBAS • Preparing DIYAs & Cards
November-2021	Children's Day	Offline	<ul style="list-style-type: none"> • Paint party
December-2021	National Mathematics Day Christmas Celebration	Offline	<ul style="list-style-type: none"> • Sudoku Competition, Shape Painting, Documentary movie on Shri Ramanujan. • Tree making, Card making, Drawing
January-2022	National Youth Day National Girl Child Day	Offline	<ul style="list-style-type: none"> • Character sketch of Swami Vivekananda, Speech on Swamiji, Quote Competition, Documentary on Swamiji. • Contribution of Savitribai Phule in girl child education
February-2022	National Science Day	Offline	<ul style="list-style-type: none"> • Ramp walk of Fruits & Vegetables, Movie: Raman effect was showed, Softboard was decorated, Rangoli of Flowers and leaves were created Ramp walk: Girl/Women noble laurels in science
March-2022	International Women's Day Holi, World Water Day, Remembrance of DANDIKOOCH, International Day of Forests	Offline	<ul style="list-style-type: none"> • Women's Day with Mothers • Guest lecture, Playing with colors • Movie, Play and lecture on water • March in the village, Play • Wall painting, Drawing, Lectures

Making of Teaching Learning Materials (TLMs):



Learning resources plays an important role in transecting the knowledge in more child centric way. Teaching Learning Materials(TLMs) play vital role in off class learning. Utthan Sahayaks have identified many games and made handmade TLMs for the students impactful during this pandemic. Prepared TLMs are not just for curricular subjects but to improve their mathematical ability and skills. Utthan Sahayaks have made approx. 90 TLMs with using the materials we are surrounded.

Capacity Building Programs:

Teachers have one of the most demanding vocations in the world and to fulfil their important roles with excellence, they need training, motivation as well as regular mental, emotional and spiritual rejuvenation. In the academic year 2021-'22 Utthan Sahayaks have received 339 certificates, which includes Course offered by DiKSHA of GoG, Webinar/Seminar arranged by Universities or International Educational institutes. Moreover 02 offline 03 days workshops were also conducted to enrich their content, understanding of child psychology and innovative methods for teaching.

MoU of Phase -II schools:



10 Government Primary Schools were taken under umbrella of Utthan at Hazira site in Hazira coastal area in November 2019. After observing positive impact of project Utthan in Hazira coastal area, District Primary Education Officer (DPEO), Surat has approached Adani Foundation for extending number of schools under project Utthan. On 06/12/2021 Adani Foundation, Hazira has signed the MoU with DPEO for 15 more schools of Olpad block. Now Adani Foundation, Hazira will work with 25 schools of Choryasi & Olpad block and with 2865 number of students reaching 22 villages at Hazira site.

In those 15 new schools of Olpad block, AF has developed joyful learning spaces by using Building as Learning Aid (BaLA) and provided a smart class in each school with 3 years subscription of E-learning software.



Achievements

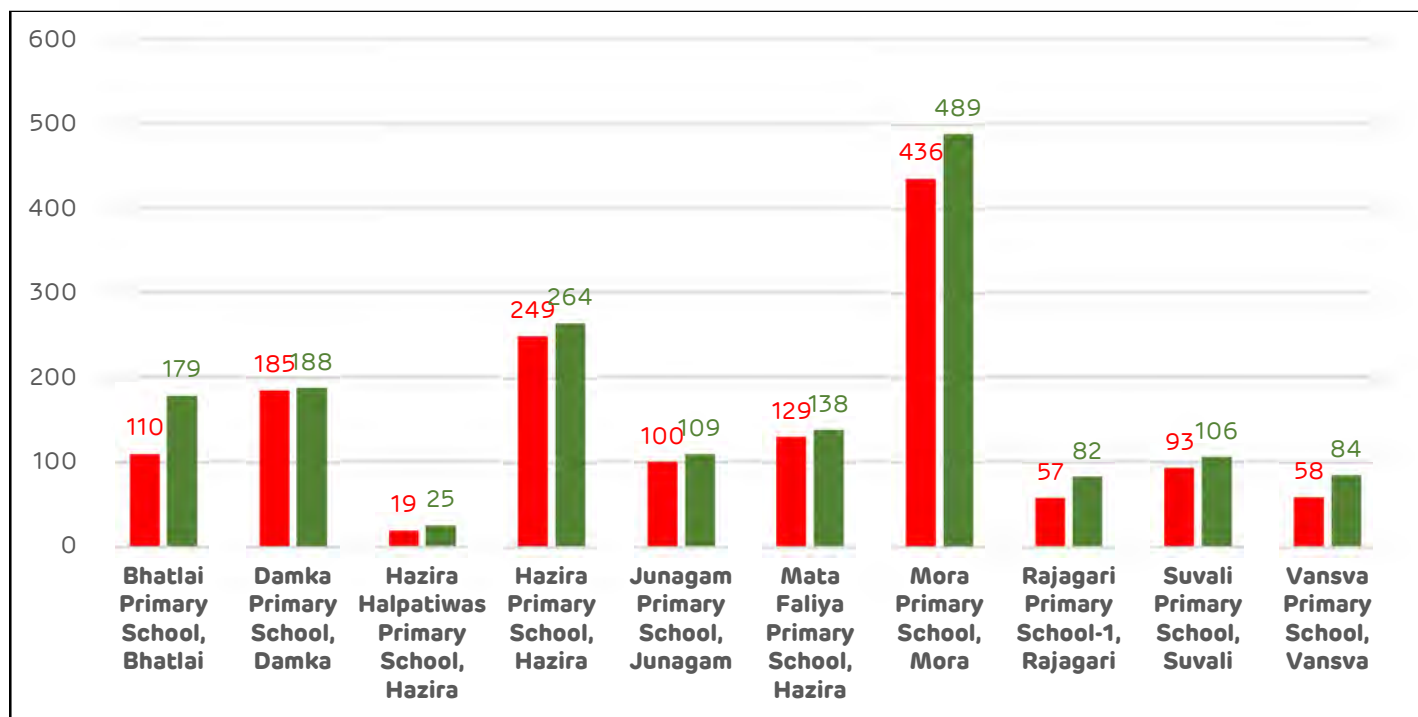
Achievement in Jawahar Navodaya Vidyalaya Entrance Examination:

Under flagship of Utthan, Adani foundation, Hazira has identified students with support of Utthan Sahayaks and enrolled them for Jawahar Navodaya Vidyalaya Entrance Examination -2021. 68 students from Hazira coastal area and 940 students were from Valod, Dolwan, Songadh and Uchchhal blocks of Tapi district. 01 student from Hazira area and 21 students from Tapi district have cracked the examination and got admission in JNV,

Improvement in School Strength:

To bring progressive students in mainstream is main objective of Utthan project. Utthan Sahayaks (USs) are teaching individually to the progressive students of Government Primary schools. In the COVID pandemic. Utthan Sahayaks regularly visit their Faliya/Maholla. They teach basic skills of Reading, Writing & Mathematics. And built good rapport with students and parents, by seeing the teaching of Utthan Sahayaks in the Faliya/Maholla the parents impressed and have approached USs to enrol their ward in the Government school. In this way strength of Government primary school increased.

School name	School Strength 2019-20	School Strength 2021-22	Difference
Bhatlai Primary School, Bhatlai	110	179	+ 69
Damka Primary School, Damka	185	188	+ 3
Hazira Halpatiswas Primary School, Hazira	19	25	+ 6
Hazira Primary School, Hazira	249	264	+ 15
Junagam Primary School, Junagam	100	109	+ 9
Matafaliya Primary School, Hazira	129	138	+ 9
Mora Primary School, Mora	436	489	+ 53
Rajagari Primary School-1, Rajagari	57	82	+ 25
Suvali Primary School, Suvali	93	106	+ 13
Vansva Primary School, Vansva	58	84	+ 26
Total	1436	1664	+ 228

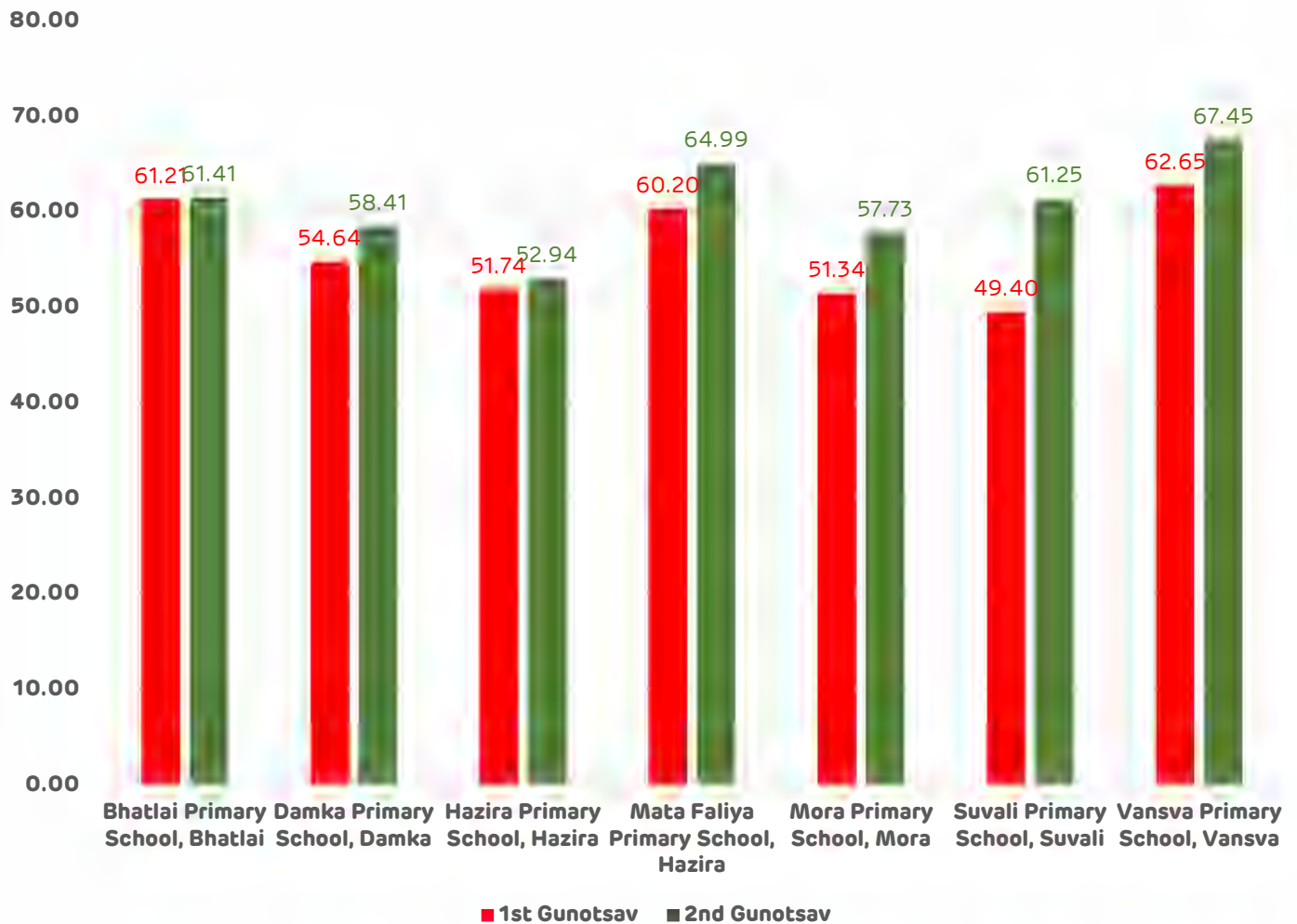


Improvement in Results of GUNOTSAV:

Department of Education is conducting inspection named as GUNOTSAV of primary school evaluation of the schools run by Government by School Inspectors (SIs). In Academic year 2021-2022. One main role of the Utthan project is to improve quality of education in Government primary school and improve rank in GUNOTSAV. Government did 02 GUNOTSAVs considering major 04 criteria.

From 10 Utthan schools of Hazira area Education department has declared results of 07 schools. All the school have scored higher in GUNOTSAV from I and II.

Sr. No.	Criterial :>	School		Cocurricular Activities		Overall	
	School name	Result of Gunotsav I	Result of Gunotsav II	Result of Gunotsav I	Result of Gunotsav II	Result of Gunotsav I	Result of Gunotsav II
1	Bhatlai Primary School	52.78	71.25	35.00	44.67	61.21	61.41
2	Damka Primary School	61.03	61.25	35.63	46.91	54.64	58.41
3	Hazira Primary School	53.97	75.00	34.55	40.00	51.74	52.94
4	Matafaliya Primary School	47.69	72.50	23.53	45.33	60.20	64.99
5	Mora Primary School	33.75	48.19	51.11	52.36	51.34	57.73
6	Suvali Primary School	52.75	68.75	40.63	51.00	49.40	61.25
7	Vansva Primary School	52.67	71.25	25.00	59.33	62.65	67.45



2.0 Community Health

India has a very defined and structured healthcare policy, but with issues related to infrastructural development and people's health seeking behavior, access to quality healthcare services is a challenge, especially in rural India. Access to primary healthcare facility due to factors like poverty, poor nutrition patterns, lack of correct information and traditional beliefs.

AF comprehensive health care Programme emphasizes on an integrated approach to community health intervention, wherein development issues like water, sanitation, livelihood, nutrition, education which determine village health, are given equal attention.

At Adani Foundation, Hazira we believe that ensuring good health of people is critical for development of a nation. Its key focus is improving access to quality healthcare services for people from the grassroots level belonging to the weaker sections of the society. In this pursuit, AF Hazira implements a holistic and programmatic intervention in villages, addressing general and special health needs of communities through multi-specialty health checkup camps, Gynecologist visits for adolescent girls & women in villages, Eye checkup camps etc. We have also focused on de-addiction Programme which was really needed in the area.

Objective:

Multi-specialty health camps are organized at different villages in the region. Objective behind these Camps is to deliver free medical services to community and needy people at remote area. The camps also provide timely referral services to the patients for further specialized care also save time and money. Below mentioned programs/activities implemented in the FY 2021-22

SDG Alignment

Sustainable Development Goals (SDG 3)



ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

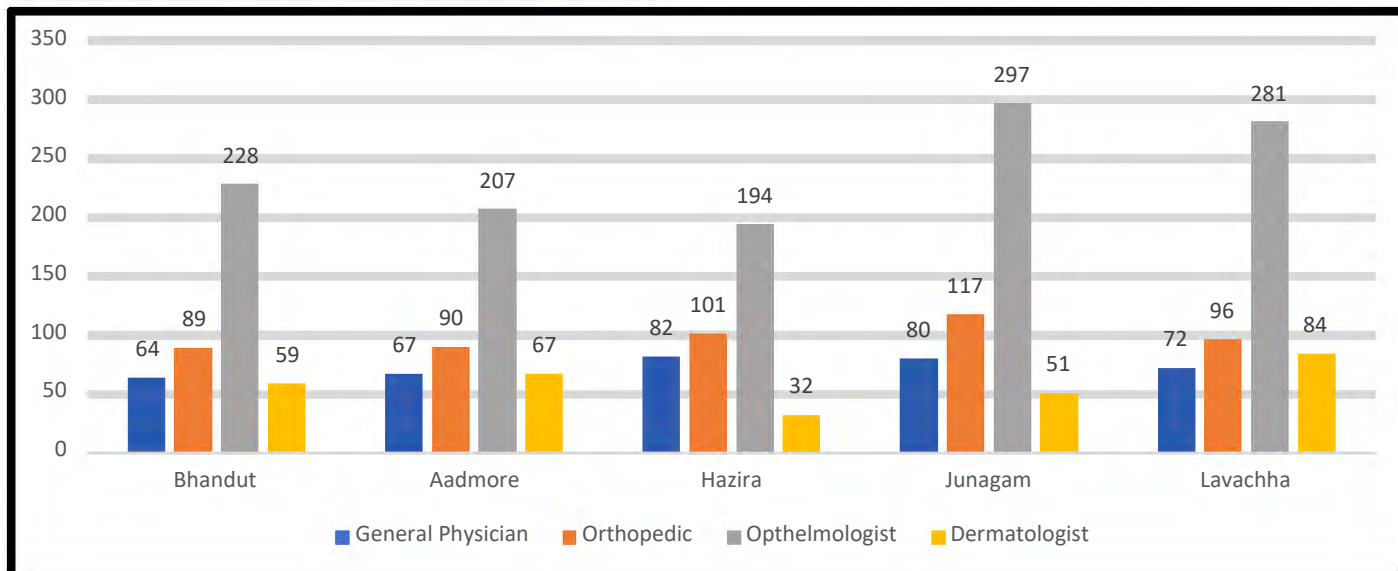
3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.

Activities carried out under Community Health initiatives

2.1 Multi-specialty medical health checkup camps

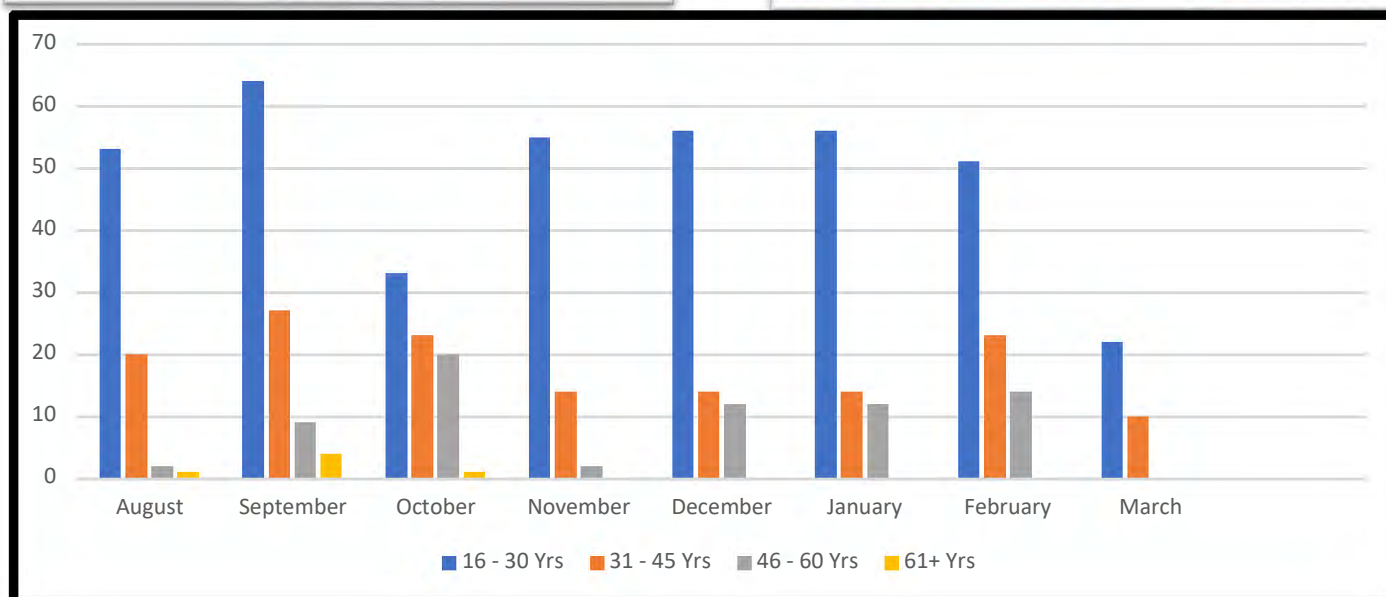
With an objective to provide better healthcare facilities at village level, Adani Foundation, Hazira organized multi -specialty medical health checkup camp in 5 villages of Choryasi and Olpad taluka in Surat district.

General Physician, Gynecologist, Dermatologist, Orthopedic, Ophthalmologist and Dentist were available in camp. proper consultation with free of cost medicines provided in medical camps and spectacles provided to patients those who needed without any charges. In this year total 2358 People are diagnosed and treated in various camps.



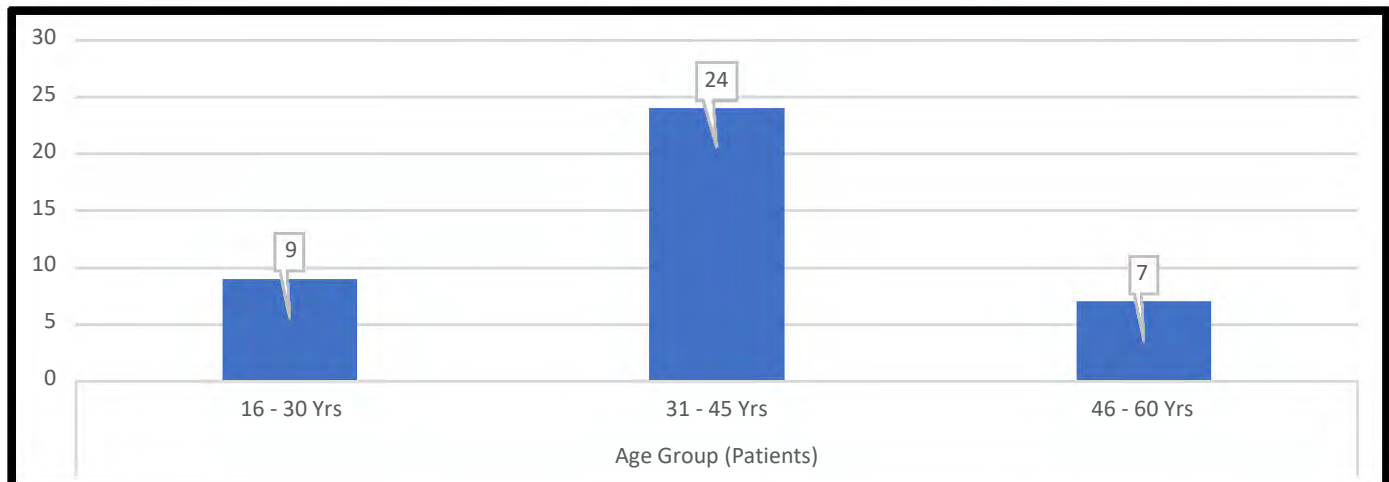
2.2 Gynecologist visits for women health issues

Due to industrial development in Hazira region, Migrant labor came from all over India and lives in Hazira and nearby villages with local community but there are no adequate healthcare facilities available for adolescent girls and women in this region. After discussion on various health issues from health & hygiene to various diseases of adolescent girls and women with local health department, Adani Foundation, Hazira started gynecologist visits for women health issues on monthly basis in 5 densely populated villages in hazira region. In the year 2021-22 612 patients diagnosed by our gynecologist doctor through regular visits.



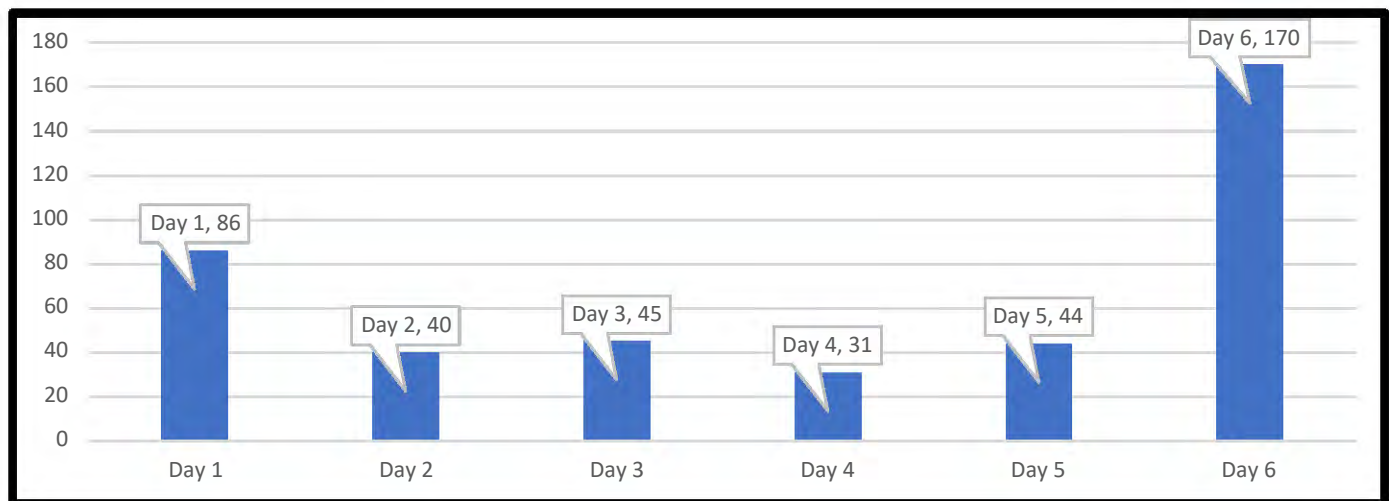
2.3 De – addiction Program

With an objective to reduction addiction of alcohol and other substances in villages of Choryasi and Olpad taluka which is widely available due to industrialization and migrants came from all over india. Adani foundation, Hazira runs a program for de-addiction with support from Parivartan trust, Surat. Under this program patient has been attended 21 days residential training session for de-addiction, where they have learned how to control their urges for addiction through various activities like meditation, yoga, counselling, group activities etc. along with proper treatment and medication. After training completion medicines provided to patients for next 6 months with time interval of 15 days and counselling sessions also conducted on regular basis. In this year 2021-22 total 40 patients treated under de- addiction program from Choryasi and Olpad taluka.



2.4 Serving those that serve us (Eye Checkup camp for truckers)

Truck drivers play a significant role in transporting freight at Adani Hazira port; however, their unorganized nature of work prohibits them to take their health issues seriously. Adani foundation, Hazira organized eye checkup camp for truckers at Adani hazira port during National safety week and road safety week. After checkup spectacles also provided to truckers including an understanding of basic eye care and the use of spectacles so they understand about the relationship between good vision and road safety. Total 400 plus truckers treated during camp.



2.5 Equipment Support to Government old civil hospital, Surat

Aligning activities with SDG goals of access to quality essential health-care services to community, Adani foundation, Hazira Donated medical equipment's to ophthalmologist department in old civil hospital, Surat. These advanced equipment's were used in treatment for eye patients. Earlier these equipment's were available in private hospital which is not cheaper for everyone. Now advance equipment's are available in govt. hospital so entire community gain access to better health care services.



2.6 Support to govt. hospital during pandemic

With an objective to access better healthcare facilities for community, Adani Foundation, Hazira provided oxygen plant to Chikhlli referral hospital, Navsari and civil hospital, Surat to enhance health care service and helps them to fight against COVID during pandemic situation. These oxygen plants will provide oxygen to patients when needed and saving lives with serving humanity.



3.0 Sustainable Livelihood Development

3.1 Distribution of woolen cloth to tribal community

With an objective to serve needy and under privileged backward community of Surat & Tapi district. due to lack of resources and regular income flow they are unable to procure adequate clothing and accessories for winter and rainy seasons resulting health problems like, fever, cough, cold and other increases. These problems instantly impact on household income. Adani foundation, Hazira provides woolen clothes to students and



tribal community in villages of Songadh taluka in Tapi district and students of backward community in Choryasi taluka of Surat district. Woolen cloths give them strength to work and reduces health issues in winter & rainy seasons. Total 3950 woolen cloths distributed in Tapi and Surat district.



3.2 Livelihood activity for Tribal community

With an objective to provide sustainable livelihood for tribal community, Adani foundation, Hazira provide support for sustainable development of an SHG group Jagruti Sakhi Mandal, group of tribal women from Songadh taluka in Tapi district with the help of Mr. D D Kapadia (DDO, Tapi district) and DRDA team of tapi district.

Adani foundation, Hazira provided machinery and raw material for making sanitary pads as an initial setup to SHG group whereas MOU between ICDS and SHG group take place for procurement of sanitary napkins prepared under various schemes with the help of DDO, tapi district. This unit will provide sustainable livelihood to 10 rural tribal women of Jagruti Sakhi Mandal from Gopalpura village in Songadh taluka of Tapi district. Manufacturing unit is inaugurated by Padmashri Ramilaben Gamit and Mr. D D Kapadia (DDO, Tapi district



3.3 Project: Kamdhenu

Indian agriculture is an economic symbiosis of crop and cattle population, one complementing the other. It is not merely a source of livelihood but a way of life in India. Over 70 percent population and their livelihood is dependent on agriculture. Livestock sector plays a multi-faceted role in socio-economic development of rural households.

Abundant labour and a small land base encourage farmers to practice dairying as an occupation subsidiary to agriculture. While income from crop production is seasonal, dairying provides a stable, year-round income, which is an important economic incentive for the small farmer to take to dairying.



Livestock also contribute to the ecosystems in which they live, providing services such as seed dispersal and nutrient cycling. Livestock as a resource, reduced the disparity in income and wealth distribution in rural areas. With estimated continuous progress of milk production, more and more people are getting employed in dairy related profession and therefore are contributing to the country's economy.

Cattle Breeding Centre:

Animal	AI	P.D Follow-up				Calving						
		Rep	Empty	Prag.	Total	Female	Male	Sold	Transfer	Died	Abortion	Total
Cow	850	45	208	308	556	47	34	3	0	0	1	85
Buff	1411	42	350	480	831	57	32	6	0	0	0	95
Total	2261	87	558	788	1387	104	66	9	0	0	1	179
Communitive												
Cow	2384	182	831	1082	2090	396	377	55	2	12	18	860
Buff	3903	199	1382	1783	3323	674	626	60	0	2	33	1395
Total	6287	381	2213	2865	5413	1070	1003	115	2	14	51	2255

Breeding is one of the important tools to facilitate production potentials and bring about progressive genetic improvement in production on a long-term basis in animals.

Livestock Development Programme initiated in 2017-18 that have acted as a tool to ensure sustainable livelihood through improved milk production. The programme covers the adoption of Cattle and Buffalo breeding services along with technological upgradation at the doorstep

of the farmers. Extension support for livestock management and dairy practices is an integral part of the programme.

To improve the cattle and Buffalo breed to produce superior quality animals using modern technologies having potential to produce 2500-3000 liter milk per lactation.



Services are provide at the doorstep of the farmer through a well-trained technician who looks after the operation of the centre, which is establish at the village level with all required equipment's.

During the year 2021-22, total 2261 Artificial inseminations performed through hazira site Cattle Breeding Centre, 1114 dairy animals conceived and 1066 calves are born in cows and buffaloes out of which 427 are female calves.

PROMOTION OF SEX SORTED SEMEN

Sexed semen is sorted semen either to contain X or Y chromosome bearing sperms and the use of it would produce a desired sex i.e. male or female animal. In dairy sector, preference is always given to a female calf and thus the use of X chromosome bearing sperms semen is useful to produce maximum number of females. The sorted semen technology is an excellent tool for rapid multiplication of female genetic material as per the need of dairy farmer. Use of sex sorted semen for AI to produce 90% female calves in place of conventional semen with possibility of 50:50 calf sex ratios.





- During the year 2017-18, total 392 Artificial inseminations with the use of sex sorted semen were performed through Hazira site out of which follow up of 248 inseminations for conform pregnancy was completed, 123 animals are found conform pregnant.
- During the year, total 113 calving reported out of which 97 are female calves, 9 male calves.
- 3 sold and 4 abortion calf.

CAPACITY BUILDING THROUGH TRAINING PROGRAMME

Trained farmer is a key component for success of projects. Continuous capacity building is essential for better implementation of the continued its efforts in this direction. Under Kamdhenu Project. During this year 23 Animal Husbandry Training was conducted by Adani Foundation Hazira in the villages of Olpad taluka in which 386 beneficiaries were present.



VACCINATION (Convergence Activity)

A significant obstacle in growth and production of livestock is the prevalence of diseases that cause huge economic losses in India. Various animal diseases adversely affect the livestock productivity and many of them are zoonotic. Animal health management is important to reduce productivity losses and overall production from the livestock sector. Foot-and-Mouth disease and haemorrhagic septicaemia inflict huge economic losses.



The most effective way to increase livestock productivity and minimize losses from disease morbidity and mortality is by monitoring health, and diagnosis and control of diseases by using effective vaccines. Vaccines not only protect the vaccinated animals, but also reduce disease among non-vaccinated ones through herd immunity. They also reduce antimicrobial usage and minimize the risk of antimicrobial resistance.

During the year total 10000 vaccinations for Foot & Mouth Disease disease was done in 20 villages. Not a single case for Foot and Mouth disease was noted in said project village where vaccination was done. Previously sporadic incidences were noted due to which farmers have to bear heavy economic losses in terms of production and treatment cost even chances for loss of animals.

DEWORMING:

Deworming means removing worms from the digestive system, particularly from the stomach, intestine and liver. Deworming makes the animal more resistant to diseases. It helps the animal grow faster, perform better and produce better milk Adani Foundation has given deworming drugs to 11077 animals in 19 villages of Choryasi and Olpad talukas.





The last 4 years of deworming by the Adani Foundation has resulted in a reduction in worm infestation in cows and buffaloes resulting in better animal health which has a direct impact on production and calf interval.

PROMOTION OF MINERAL MIXTURE AS ROUTINE FARM PRACTICES:

Loss of productivity in dairy animals is a common occurrence. Various stress factors affect physiological and production parameters among animals. Consequently, feed intake declines significantly and milk production drops. A drop in fertility and conception rate is noted.

During the year 2021-21 2835 kg mineral mixture was given to 945 farmers from 26 project villages.



- Health Condition of animals is improved as feed intake is improved
- Milk production of animals is increase by 12-15%.
- Reduced age at first calving by 6 months in buffalo heifers previously it was reported as 4.5 years
- Inter-calving period will be reduced by 6 months
- Helps to reduce economic burden for rearing of unproductive animals for longer period

INFERTILITY AND GENERAL HEALTH CAMP:

Reproductive performance is one of the most important factors affecting dairy farm profitability. It directly or indirectly influences the yield of milk, reproductive culling rate and the cost for breeding and calf sales. Dairy cows should calve one time every year to maximize economic efficiency. Cows that have been highly selected for milk production in recent decades have suffered a decline in cow fertility, fertility is a multi-factorial trait and a network of genetic, environmental and managerial factors and their complex interactions have caused its deterioration.

Adani Foundation organized 20 infertility and general health camp in 18 villages of Olpad taluka in which 679 animals of 415 beneficiaries were treated.



- General Health Camp camps encouraged to provide health education to the people attending the camp.
- Timely treatment of affected animals suffering from clinical disorders helps to reduce economic losses.
- Helps to reduce long inter-calving period, age at first calving and other clinical disorders.
- Reduces economic burden on livestock holding families to rear unproductive animals.

FODDER DEMONSTRATION:

Feeding optimum quantity of green fodder is indispensable for economical milk production. However, the persistent deficiency of green fodder continues to be a major constraint. Given the limited area under green fodder cultivation, the best option to increase availability of green fodder is the usage of fodder seed of improved varieties, with high potential yields.

- To create awareness among farmers for fodder crop varieties.
- To reduce the cost of production of milk and dairying profitable

- To increase area under fodder cultivation
- To make fodder available round the year

For effective implementation of fodder development activities, technical support was provided to 92 farmers of 21 project villages. support of 925600 stumps of BNH 10 variety was given to individual farmer for cultivation in 11.45 acres.



- Helpful to meet out the need of green fodder having prime importance for lactating, growing, pregnant animals
- Getting aware with high yielding fodder crop varieties.
- Additional fodder will be sold out serve as an additional income

SILAGE PRAMOTION:

Forage conservation technologies could mitigate the dry season feed problem. Silage is type of fodder made from green crops which have been preserved by acidification achieved through fermentation. Maize & sorghum are the most common crops use for silage making. Promotion can lead to significant and sustained adoption. The polythene bag method is a technology of making small quantities of silage in polythene bags.

- To improve the farm productivity by reducing cost of production.
- To meet out fodder requirement during scarcity of fodder especially during summer season.
- To produce quality milk
- To improve health condition of animals

During the year 103 farmers from 4 project villages were selected for demonstration of Silage feeding. Support of 200kg silage has provided to individual participant.



CALF RALLY:

Adani Foundation Hazira has been running an animal development center in Barbodhan village for the last 5 years. Through which, on 23-02-2023, an exhibition fair of calves of 17 villages around Barbodhan was organized in which 170 calves came. All the calves in the fair were encouraged by giving prizes. In this program were presents Surat District Deputy Director of Animal husbandry, Dr. K.S. Modi, Dr. G.G. Chaudhary, K.S. Patidar, Surat District Panchayat Member Mrs. Monaben Rathod, olpad Taluka Panchayat Member Mrs. Nimiishaben Patel and Bhartiben Patel Sarpanchs of surrounding villages.



Hydroponic demonstration:

The hydroponic fodder is young tender grass grown from cereal grain, mostly barley. In essence, it replaces grains like a dairy meal, pig's feeds, and poultry feed concentrates. Globally, hydroponic fodder is the best livestock feed. Adani Foundation, Hazira has provided structure of Hydroponics to 07 beneficiaries of Junagam, Suvali, Damka, Rajagari, Vansva and Hazira. 5 % of the amount was collected from the beneficiaries.



3.4 Installation of Solar Water Pump for Irrigation: Clean Energy

Bhandut is the village of Olpad Block in Surat District with total aprox. 268 families residing.



The majority population of this village are engaged with farming/agriculture activities. Most of the people are marginal farmers as they are holding small portion of land and hence the main crop is vegetables in the region. There are 03 lakes in which water gets stored during monsoon season and having irrigation canal connection with the lakes, so

water stays round the year. Different group of farmers are formed based on the vicinity of their farm/land location. The pipelines were laid from nearby lake with multiple outlets. Diesel Engines for the withdrawal of water from the lake were installed. Those who want to irrigate their farm must go the lake with their Diesel Engine or to fill the Diesel in Engine. As per the discussion with local farmers, the cost of Diesel and efforts they required for irrigating their farm were very high.

Adani Foundation, Hazira intervention:

Adani Foundation, Hazira understood this issue from farmers during their field visits. The concept of providing Solar Energy operated pumps for withdrawal of water from lake were deliberated and immediately implemented.

Adani Foundation, Hazira presently installed 9 Nos. of Solar Pumps each of 5 HP capacity as eco-friendly alternate for withdrawal of water and



pump water to the last mile requirement. Bhandut village farmers which includes a total of 488 bighas of land belonging to 301 farmers of the village. In last 6 month saving Rs. 100000 farmers on fuel.

Benefits from the initiatives:



There will be “Zero” cost for operating the pump for withdrawal of water. Avoiding use of Diesel Machine will lead to avoid Carbon Emission and clean environment will be maintained in village. There is a huge benefit to farmers in monetary terms as well as reduction in their physical efforts. As per the information shared by beneficiary farmers, they will be able to avoid apx.

5500 lts of Diesel use every season. Also, the time for irrigating farm is reduced due to high and continuous flow of water. The result of this initiative is seen in very few days of its installation, farmers are expressing their happiness and gratitude towards the Adani Foundation, Hazira for this support.

3.5 Income generation project with SEWA for SHGs:

Adani Foundation, Hazira joins hand with Self-Employed Women’s Association (SEWA) for income generation project of SHGs of Hazira coastal area. representatives from SEWA have visited core villages of AF, Hazira and did feasibility study in the different villages Bhatlai, Damka, Vansava, Halpati vas in Hazira Village from 8 to 10 December 2021. Team visited these villages and done group discussion, field survey, visited nearby shops to know the sisters’ condition, market and products available and demand.

KEY OBSERVATION FROM THE VISIT:

- The economic status of the sisters here is good, but they do not have any assets in their name.
- The sisters here have to create their own asset in their name and establish their own identity.
- The sisters confined to Hazira and even in that, they confirmed to their own villages. They have not even gone to Surat, which is 20 kilometres away.
- Being an industrial area here, have trained to meet government targets but nothing more.

- The mindset of the sisters becomes such that they want to work from home if you want then you come and take it for sale, and they will do when an order will be given.
- Further observed that the women work in the groups, but decision-making power given to one or two women, other women's opinion is not considered. Thus, effective decision-making in-group is essential for a successful business.

RECOMMENDATIONS:

- To provide the capacity building to the sister.
- To organize educational tours for sisters to SEWA and to train CBO management.
- To explain in detail on the importance of organization when sisters come for educational tour.
- To help them how to identify the potential market for sales of their products.
- To make proposal for the next three years after the educational tour.

As per the recommendation by SEWA, AF and SEWA have prepared 03 years plan and project for Bakery unit establishment. Which is run and owned by SHG in coming years.

3.6 A step towards Environmental Education: Eco Club Project

In September 2021, Nature Club Surat along with Adani Foundation initiated Eco Club Project in three schools in Choryasi Taluka. Three schools namely, Navchetan

Vidyalaya, Junagam, Damka Primary School and Hazira Primary School were selected for the



project. Around 50 students from each school on the basis of first come first serve criteria were selected for the project. This program aims to make the students of standard 6th-8th aware about the nature, natural resources, threats to their existence and ways to curb the threats. This project also aims to make the students

'Paryavaran Rakshak' which comes with the duty to curb the threats to nature and to spread awareness about the same in the society.



Though youngsters can be valuable partners in addressing environmental concerns, they often need encouragement, direction and expertise for taking on the challenges of environmental stewardship and it is this gap that Nature Club Surat looks to fill in. The EEPs are aimed at providing educational opportunities to the teenage students to learn about environmental conservation, the threats, the remedies and the

preventive mechanisms for safeguarding our natural resources and building stewardship for their long-term conservation. These learning opportunities will develop leadership; decision making and critical thinking skills and help the youngsters identify environmental concerns and take actions to resolve them.

Since the project has started several aspects of nature have been learnt both theoretically and practically by the students, which are as follows.

Sr. no.	Topic	Activities
1	Snake Awareness Program	Interaction with live snakes
2	Collecting Pre Data	Pre-assessment test
3	Inaugural session	T-shirt distribution
4	How festive are festivals?	Make an Environment God sketch
5	Flora identification	Prepare a checklist of flora around you
6	Fauna identification	Prepare a checklist of fauna around you
7	Kitchen gardening	Growing vegetable crops in various types of containers
8	Ecosystem	Terrarium making
9	Common bird of Gujarat	Identification of common birds around us
10	Honeybees and their rearing	Various Honeybee rearing equipment
11	Bird nests and their types	Prepare bird feeder and water filler for birds
12	Soil	Demonstration of different soil types
13	Biodiversity conservation	Mapping of the Protected Areas of India
14	Pollution	--
15	Life underground	Played Bat and Moth game
16	Soil Erosion	Demonstration of different types of soil erosion
17	Butterflies around us	Butterfly making using Origami
18	Plastic and Solid waste management	Waste segregation

4.0 Community Infrastructure Development

4.1 Pond deepening at Suvali and Damka Village:

India is an agrarian country with majority of the rural communities of the country is dependent on monsoon. The success or failure of agriculture depends upon monsoon rainfall and water availability for farming. With the rise in global warming and climate change, the rainwater cycle gets disturbed easily. The limited available of water



or excessive rainfall during monsoon led to crop failure which results in increase of farmer's distress rate. We have received demand for pond deepening work for water storage capacity increase and use storage water to help for irrigation purpose from Damka, Bhatlai and Suvali village. currently available water storage is not sufficient for rabi season for irrigation. Total three villages will be benefited through this intervention. Total 51600 Cmt water will be storage through this work. Village panchayat will be managing this water bodies and also taking responsibilities of repair and maintenance of this projects and ensure using this water for agriculture purpose. Area of irrigation by taking up community water harvesting structure intervention it will Increasing water storage capacity, Providing support irrigation for Kharif and Rabi Crop. & To increase area of irrigation and increase double cropping.

4.2 Construction of Girls' Hostel at Umarda:

Adani foundation is working in various villages near Hazira costal area of Choryasi block for community infrastructure development (CID). AF has received request from UKAI NAVNIRMAN SAMITI, Songadh for construction of girls' hostel rooms at VANRAJ UTTAR BUNIYADI ASHRAM SHALA, Umarda. VANRAJ UTTAR BUNIYADI ASHRAM SHALA, Umarda.is basically a residential co-education



school. The students are coming from nearby villages of 03 districts, Surat, Narmada and Tapi. A total of 150 tribal students are living and study there out of which 75 are girls and 75 are

boys from std. 6 to 8 std. All the students studying is from the surrounding tribal communities who are economically very poor.

4.3 Construction of Community Hall at Damka:

The work was requested by the Damka Gram Panchayat and community leaders. Damka has population of approx. 8000, Village is divided in 18 faliyas and 10 wards. Village has people of different castes. As of now there is only one community hall available for social gatherings, meetings etc. which is not enough to cater the needs of entire village.



The community hall will be very beneficial for marginalized community of village. Such community hall can be used during the times of disasters like cyclones and heavy rainfall. Since, this is a coastal area, cyclones are a frequent phenomenon. Such halls can also be useful while conducting training programs for village.

4.4 Increase footprints of Renewable energy:

Using a source of renewable energy helps not only your individual school, but the contiguous neighborhood as well. Installing solar enables your school to run on clean energy while at the same time combatting greenhouse gas emissions and global warming. In addition, especially with an on-site solar installation, it reduces dependence on outsourced fossil fuels and promotes renewable.



energy use in the surrounding area. The cost savings inherited by a school's transition to solar are truly substantial. At Navchetan Vidyalaya, Junagam and Ahir Samaj Vadi at Palsana, Adani Foundation has installed a solar power electricity generation unit.

5.0 Community Engagement

5.1 Adani Gramin Cricket



The Adani Foundation, Hazira organized the Adani Rural Cricket Tournament in 2020-21, in which 600 players from 40 villages and 40 teams participated. The final match of the tournament was played between Shivalaya XI, Junagam and Black Commando, Hazira on 26 January 2022 at Navchetan Cricket Ground which was won by Shivalaya XI, Junagam. The final match of the

tournament was tossed by Adani Port Hazira CEO Capt. Jayaraj. The winners and runners-up trophies were handed over by Mr. Jignesh bhai Patil, President of 'Youth for Gujarat', President of Surat District Basketball Association as well as Vice President of Gujarat State Football Association and Chief Coach of Tapi. District Shri Chetan bhai Patel .



5.2 Celebration of Farmers Day:

Farmers have great importance in our society. They are the ones who provide us food. Since every person needs proper food for their living, so they are a necessity for the society. There are different types of farmers, and they all have equal significance

Adani Foundation, Hazira celebrate National Farmer Day in Rajgari Village on 23rd December 2021. Our



Guest speaker

Mr. Mahendra Bhai Bagul from BAIF conducted training session management and integrated plant nutrition management and how to double income of farmers by different interventions and explains about new possible initiatives like drip irrigation and orchard



plantation.

Total 83 Farmers were present in farmers day celebration from various villages of novel also given to farmers those who were present in program.

International Women's Day Celebration:

8th March is observed as International Women's Day across the globe. This day brings many things for women – a cause for celebration, a reason to pause and re-evaluate a remembrance,

an inspiration and a time to honor, loved and admired. Adani Foundation-Hazira celebrated the International Women's Day at Community Hall at Village – Bhatlai. The main aim of organizing this event was to motivate and share knowledge with women who are part of various Self-Help Groups(SHG) from different villages of Hazira



region. The platform for selling different items made by them like *Namkeens*, Masalas, Art Pieces etc. were also provided to them during the event.

Adani Foundation has been doing activities of formation of new SHGs and strengthening existing SHGs through various initiatives like imparting trainings, organizing exposure visits, material support etc. As a result, many SHGs have made their own identities in the society and women who are part of these SHGs are also able to extend financial support to their family. During last the last year, Adani Foundation has joined hands with SEWA, a renowned organization of women in the country, for availing benefits of their long experience. Under this initiatives Adani Foundation organized exposure visits for women and made them aware about the potential markets for their product. Such initiatives will be continued by Adani Foundation – Hazira in future also.

In this event of Women's Day celebration, Ms. Kapilaben–President of SEWA, Mrs. Babita Choudhary and elected members from Taluka Panchayat and Gram Panchayat were remained present.



During the motivational speech, Mrs. Babita Choudhary discussed about the women empowerment and emphasized nutritional values of various locally available foods. She elaborated that for women health is most important for the family, if women in family is healthy, she can keep other members of the family healthy and happy. Ms. Kapilaben spoke about her journey from a farm

labour to President of SEWA and shared her various experiences and difficulties during the journey. Ms. Falguni Desai – Taluka Livelihood Officer has acknowledged Adani Foundation initiatives in formation and strengthening of SHGs in this region. She gave details only few SHGs are active out of apx. 250 SHGs in Hazira region. Other dignitaries have also motivated women during their address. There were apx. 150 women from different villages have participated in the event.

Following SHGs were given opportunity to display and sell their products during the event.

1. Pardevi Sakhi Mandal, by selling Spices, Pickles etc.
2. Pragati Sakhi Mandal, by selling Kani (NAMKEEN item), Papad etc.
3. Star Sakhi Mandal is preparing handicraft materials.
4. Radhe Krishna Group is making Deep Jyot, Papadi etc.

Pragati Sakhi Mandal – SHG of Damka village having 13 members was formed in 2008. The activities of this SHG are revived with constant efforts from Adani Foundation – Hazira. This group has opened shop in the village where they are selling products made by them. Adani Foundation has provided material support – Deep Fridge 500 Ltrs and Display Counter to this group on the occasion of International Women's Day 2022.



6.0 Success Story:

"Now, Ushma is going to school..."



Ushma Mahendrabhai Patel was studying in Class-VIII of Rajagari Primary School. She came from economical weaker family. Her father does fishing as pagariya. Ushma is very bright in academic and very enthusiastic in sports as well as other activities. In Class-VIII she passes first number. With the blessings of all the teachers, she was preparing to go to secondary school with his result sheet. The teachers were also confident that she would go a long way and brighten the name of our school. It's been six months.

Ushma's younger brother was studying Class-VII in Rajagari Primary School. One day, US asked her, "How is your sister's study going?" She was very sad to hear his answer, "Ushma has dropped out of school for family reasons and joined a sewing class." It is not right for such a gifted student to drop out of school. So, US visited her home with the intention of resuming her studies. And asked Ushma, why? In response to question, she said, "I am unable to survive in new school and economical condition of family is going weaker." Then US counselled her and motivated that, US also had struggle in school day. If US too had left the study after seeing the difficulties at home, giving up the situation at home, she would not be in front of you as a teacher. Everyone has to struggle. Success is possible only if we persevere and move forward towards our goal in any situation"

US has also discussed her studies with her parents and said, "Your daughter is very good at academic and someday, she can go ahead and get a good job. Also, Adani Foundation and we all are with you if you have any financial difficulties in educating your daughter, it will be managed". Then, the parents also showed readiness to educate and send their daughter to school. Now, Ushma was ready to study further.

Now it was a question of admission. she had dropped out in the middle of the academic year, so it was difficult for her to get admission again. US went to nearby high school with her and met the principal. US also explained the situation to the principal and requested for re-admission. In the end US's attempt succeeded. Ushma got re-admission in Class-IX. AF has

arranged a full-scape notebooks & Pen set. Ushma now goes to school regularly and studies well.

Kishorbhai Nathubhai Patel, (A proud Husband)

Name Kishorbhai Patel, Age 45 Yrs. Lived in Mora Village of Choryasi taluka in Surat district. working as a forklift operator in Reliance company since 1993. Situation is this family is not



always as good as it is seen now. He started drinking alcohol after his mother's death in 2002. because earlier his mother is handling all family affairs and now responsibility of his family came on his shoulders. Trauma of sudden death of his mother and family responsibility push him on the path of addiction. He started drinking alcohol on regular basis. He started abusing and beating his wife and children after drinking he also started fighting with villagers and family members.

Family is financially unstable because, he was not going on his job on regular basis. At that time in a month, he was going to work for 10-15 days. In 2020 after many warnings Reliance company officials take his gate pass and warned him to quit drinking and then came for job otherwise never shown his face. When AF team members met his family and colleagues. AF team explained them about our de-addiction program and convinced them to send him for 21 days rehabilitation in Parivartan trust, Surat. In February month of 2021 he started his 21 days residential de-addiction program. After some days of de addiction program, he tries to run from center but with support of team, he has successfully completed de-addiction program. After course he was regularly going for follow up sessions. After de-addiction program he take vows to never look back on path of addiction and working as our brand ambassador in village and talks about de-addiction program with various peoples and till date convinced 2 persons for de-addiction program. They have also completed their de-addiction course. Reliance company welcomes Kishore Bhai after completion of De-addiction program to resume his duties as a forklift operator



in plant. His colleagues and seniors are very happy with this new improved and energetic version of Kishore bhai.

He always said "Thank God for my family. One of the things that breaks my heart is that I was not always there for my family as much as I feel I should have been. I was really being driven by addiction. They supported me through my entire journey. His family thanked Adani foundation and felt gratitude towards their support.

7.0 Media Coverage:

અદાણી ફાઉન્ડેશન-હજીરા દ્વારા તાલીમબદ્ધ ૭૦ વિદ્યાર્થીઓ નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષામાં ઉત્તીર્ણ

સુરત: સમાજના નબળા વર્ગમાંથી આવતાં વિદ્યાર્થીઓને સ્પર્ધાત્મક પરીક્ષાઓ માટે સજ્જ કરવા માટે અદાણી ફાઉન્ડેશન-હજીરા દ્વારા સુરત મહાનગરપાલિકા સંચાલિત ૧૫ શાળાઓ અને સુરત જિલ્લા પંચાયત સંચાલિત ગ્રામ્ય વિસ્તારની ૧૭ શાળાઓના કુલ ૩૫૪ વિદ્યાર્થીઓને નેશનલ મિન્સ મેરીટ સ્કોલરશીપ (કપ્પડ) પરીક્ષાની તૈયારી માટે પ્રોત્સાહિત અને તાલીમબદ્ધ કરવામાં હતા. જે માટે - ' બેન્ક સાથે અન્ય શૈક્ષણિક સાહિત્ય આ વિદ્યાર્થીઓને પૂરું પાડવામાં આવ્યું હતું. ગત ફેબ્રુઆરી મહિનામાં લેવાયેલી નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષા ઉજવી દેખાવ કરતાં આ ૩૫૪ વિદ્યાર્થીઓ પૈકી ૭૦ વિદ્યાર્થીઓ ઉચ્ચ મેરીટ સાથે ઉત્તીર્ણ થયા છે. મેરીટમાં આવનાર દરેક વિદ્યાર્થીને ચાર વર્ષ સુધી સરકાર દ્વારા રૂ. ૧૨ હજારની આર્થિક મદદ કરવામાં આવશે ને સીધા લાભાર્થીના ખાતામાં જમા થશે. ઉત્તીર્ણ થનાર ૭૦ વિદ્યાર્થીઓને ચાર વર્ષમાં કુલ રૂ. ૩૩ લાખ ૬૦ હજાર ની સ્કોલરશીપ મળશે. નોંધનીય છે કે, અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા બે વર્ષથી કપ્પડ તથા જવાહર નવોદય -વેશ પરીક્ષા માટે કાંઠા વિસ્તાર હજીરામાં કોચિંગ ક્લાસ સાથે જરૂરી શૈક્ષણિક સાહિત્ય પૂરું પાડવામાં આવે છે અને કોચિંગ ક્લાસમાં નિષ્ણાંત શિક્ષકો દ્વારા બાળકોને આયોજનબદ્ધ તૈયારી કરાવવામાં આવે છે. ઉપરોક્ત પ્રયાસોના ફળસ્વરૂપે આ વર્ષે મોરા ગામની એક વિદ્યાર્થીનીને જવાહર નવોદય શાળામાં એડમિશન પણ મળ્યું છે.

અદાણી ફાઉન્ડેશન-હજીરા દ્વારા પ્રોત્સાહિત કરેલ વિદ્યાર્થીઓનું NMMS પરીક્ષામાં ઉત્કૃષ્ટ પ્રદર્શન



કુલ ૩૫૪ પૈકી ૭૦ વિદ્યાર્થીઓ ઉચ્ચ મેરીટ સાથે નેશનલ મિન્સ મેરીટ સ્કોલરશીપ (NMMS)માં ઉત્તીર્ણ થયા હતા

અદાણી ફાઉન્ડેશન-હજીરા દ્વારા સુરત મહાનગરપાલિકા સંચાલિત ૧૫ શાળાઓ અને સુરત જિલ્લા પંચાયત સંચાલિત ગ્રામ્ય વિસ્તારની ૧૭ શાળાઓના કુલ ૩૫૪ વિદ્યાર્થીઓને નેશનલ મિન્સ મેરીટ સ્કોલરશીપ (કપ્પડ) પરીક્ષાની તૈયારી માટે પ્રોત્સાહિત અને તાલીમબદ્ધ કરવામાં હતા. જે માટે - ' બેન્ક સાથે અન્ય શૈક્ષણિક સાહિત્ય આ વિદ્યાર્થીઓને પૂરું પાડવામાં આવ્યું હતું. ગત ફેબ્રુઆરી મહિનામાં લેવાયેલી નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષા ઉજવી દેખાવ કરતાં આ ૩૫૪ વિદ્યાર્થીઓ પૈકી ૭૦ વિદ્યાર્થીઓ ઉચ્ચ મેરીટ સાથે ઉત્તીર્ણ થયા છે. મેરીટમાં આવનાર દરેક વિદ્યાર્થીને ચાર વર્ષ સુધી સરકાર દ્વારા રૂ. ૧૨ હજારની આર્થિક મદદ કરવામાં આવશે ને સીધા લાભાર્થીના ખાતામાં જમા થશે. ઉત્તીર્ણ થનાર ૭૦ વિદ્યાર્થીઓને ચાર વર્ષમાં કુલ રૂ. ૩૩ લાખ ૬૦ હજાર ની સ્કોલરશીપ મળશે. નોંધનીય છે કે, અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા બે વર્ષથી કપ્પડ તથા જવાહર નવોદય -વેશ પરીક્ષા માટે કાંઠા વિસ્તાર હજીરામાં કોચિંગ ક્લાસ સાથે જરૂરી શૈક્ષણિક સાહિત્ય પૂરું પાડવામાં આવે છે અને કોચિંગ ક્લાસમાં નિષ્ણાંત શિક્ષકો દ્વારા બાળકોને આયોજનબદ્ધ તૈયારી કરાવવામાં આવે છે. ઉપરોક્ત પ્રયાસોના ફળસ્વરૂપે આ વર્ષે મોરા ગામની એક વિદ્યાર્થીનીને જવાહર નવોદય શાળામાં એડમિશન પણ મળ્યું છે.

શનિવાર, તા. ૧૫ મે ૨૦૨૧



નેશનલ મિન્સ મેરીટ સ્કોલરશીપ માટે ૭૦ વિદ્યાર્થીઓની પસંદગી અદાણી ફાઉન્ડેશન દ્વારા વિદ્યાર્થીઓને તાલીમ અપાઈ હતી

અદાણી ફાઉન્ડેશન-હજીરા દ્વારા સુરત મહાનગરપાલિકા સંચાલિત ૧૫ શાળાઓ અને સુરત જિલ્લા પંચાયત સંચાલિત ગ્રામ્ય વિસ્તારની ૧૭ શાળાઓના કુલ ૩૫૪ વિદ્યાર્થીઓને નેશનલ મિન્સ મેરીટ સ્કોલરશીપ (કપ્પડ) પરીક્ષાની તૈયારી માટે પ્રોત્સાહિત અને તાલીમબદ્ધ કરવામાં હતા. જે માટે - ' બેન્ક સાથે અન્ય શૈક્ષણિક સાહિત્ય આ વિદ્યાર્થીઓને પૂરું પાડવામાં આવ્યું હતું. ગત ફેબ્રુઆરી મહિનામાં લેવાયેલી નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષા ઉજવી દેખાવ કરતાં આ ૩૫૪ વિદ્યાર્થીઓ પૈકી ૭૦ વિદ્યાર્થીઓ ઉચ્ચ મેરીટ સાથે ઉત્તીર્ણ થયા છે. મેરીટમાં આવનાર દરેક વિદ્યાર્થીને ચાર વર્ષ સુધી સરકાર દ્વારા રૂ. ૧૨ હજારની આર્થિક મદદ કરવામાં આવશે ને સીધા લાભાર્થીના ખાતામાં જમા થશે. ઉત્તીર્ણ થનાર ૭૦ વિદ્યાર્થીઓને ચાર વર્ષમાં કુલ રૂ. ૩૩ લાખ ૬૦ હજાર ની સ્કોલરશીપ મળશે. નોંધનીય છે કે, અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા બે વર્ષથી કપ્પડ તથા જવાહર નવોદય -વેશ પરીક્ષા માટે કાંઠા વિસ્તાર હજીરામાં કોચિંગ ક્લાસ સાથે જરૂરી શૈક્ષણિક સાહિત્ય પૂરું પાડવામાં આવે છે અને કોચિંગ ક્લાસમાં નિષ્ણાંત શિક્ષકો દ્વારા બાળકોને આયોજનબદ્ધ તૈયારી કરાવવામાં આવે છે. ઉપરોક્ત પ્રયાસોના ફળસ્વરૂપે આ વર્ષે મોરા ગામની એક વિદ્યાર્થીનીને જવાહર નવોદય શાળામાં એડમિશન પણ મળ્યું છે.

અદાણી ફાઉન્ડેશન - હજીરા દ્વારા પ્રોત્સાહિત છાત્રોનું નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષામાં ઉત્કૃષ્ટ પ્રદર્શન

અદાણી ફાઉન્ડેશન-હજીરા દ્વારા સુરત મહાનગરપાલિકા સંચાલિત ૧૫ શાળાઓ અને સુરત જિલ્લા પંચાયત સંચાલિત ગ્રામ્ય વિસ્તારની ૧૭ શાળાઓના કુલ ૩૫૪ છાત્રોને નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષાની તૈયારી માટે પ્રશ્ન બેન્ક સાથે અન્ય શૈક્ષણિક સાહિત્યનું વિતરણ કરવામાં આવ્યું હતું. આ સંદર્ભનો મુખ્ય ઉદ્દેશ સમાજના નબળા વર્ગમાંથી આવતાં વિદ્યાર્થીઓને આ પ્રકારની સ્પર્ધાત્મક પરીક્ષાઓમાં માટે સામનો કરવા તૈયાર કરવાનો હતો. ગત ફેબ્રુઆરી મહિનામાં લેવાયેલ નેશનલ મિન્સ મેરીટ સ્કોલરશીપ પરીક્ષામાં જાહેર કરવામાં આવ્યું હતું, તેમાં અદાણી ફાઉન્ડેશન દ્વારા પ્રોત્સાહિત કરાયેલ કુલ ૩૫૪ પૈકી ૭૦ છાત્રો ઉચ્ચ મેરીટ સાથે ઉત્તીર્ણ થયા છે. મેરીટમાં આવનાર દરેક વિદ્યાર્થીને ચાર વર્ષ સુધી સરકાર દ્વારા રૂ. ૧૨ હજાર ની આર્થિક મદદ સીધા લાભાર્થીના ખાતામાં જમા કરવામાં આવશે. ઉત્તીર્ણ થનાર ૭૦ છાત્રોને ચાર વર્ષમાં ૩૩ લાખ ૬૦ હજારની સ્કોલરશીપ મળશે. અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા

ઉત્થાન શાળા પ્રોજેક્ટ હેઠળ

વિદ્યાર્થીઓએ Plastic Waste Management Plant ની ઓનલાઇન મુલાકાત લીધી



સુરતઃ કોરોના કાળના કારણે બાળકોને ઓનલાઇનના માધ્યમથી શિક્ષણ આપવામાં આવી રહ્યું છે. ત્યારે આજે પંચવટીની નવનિર્મિત અને ડિજિટલ રૂમ થી સરકારી શાળાના ૧૦૦ વિદ્યાર્થીઓએ ઓનલાઇન મુલાકાત લીધી. આ કાર્યક્રમ Ecovision Environmental Resources LLP ના સહયોગે આયોજીત હતો. આ દરમિયાન વિદ્યાર્થીઓએ Plastic Waste Management Plant ની આંતરિક માહિતગાર થયા તે મુખ્યત્વે, અહીં કોરોના કાળના નવા પ્રોજેક્ટ અંતર્ગત હજારો કીલોગ્રામ પ્લાસ્ટિક કચરાનો સંગ્રહ કરવામાં આવેલો છે. આ કચરાને ઓનલાઇન મુલાકાત કરી અને ત્યારે

Tour (ઓનલાઇન પ્રવાસ) નું આયોજન કરવામાં આવ્યું હતું. આ કાર્યક્રમમાં હજારો વિદ્યાર્થીઓ ૧૦૦ સરકારી શાળાના ૧૦૦ વિદ્યાર્થીઓએ ઓનલાઇન મુલાકાત લીધી. આ કાર્યક્રમ Ecovision Environmental Resources LLP ના સહયોગે આયોજીત હતો. આ દરમિયાન વિદ્યાર્થીઓએ Plastic Waste Management Plant ની આંતરિક માહિતગાર થયા તે મુખ્યત્વે, અહીં કોરોના કાળના નવા પ્રોજેક્ટ અંતર્ગત હજારો કીલોગ્રામ પ્લાસ્ટિક કચરાનો સંગ્રહ કરવામાં આવેલો છે. આ કચરાને ઓનલાઇન મુલાકાત કરી અને ત્યારે

ઓનલાઇન માધ્યમથી હજારો, મુન્દ્રા અને નખત્રાના વિદ્યાર્થીઓના ઉત્થાન કાર્યક્રમમાં હજારો વિદ્યાર્થીઓ ૧૦૦ સરકારી શાળાના ૧૦૦ વિદ્યાર્થીઓએ ઓનલાઇન મુલાકાત લીધી. આ કાર્યક્રમ Ecovision Environmental Resources LLP ના સહયોગે આયોજીત હતો. આ દરમિયાન વિદ્યાર્થીઓએ Plastic Waste Management Plant ની આંતરિક માહિતગાર થયા તે મુખ્યત્વે, અહીં કોરોના કાળના નવા પ્રોજેક્ટ અંતર્ગત હજારો કીલોગ્રામ પ્લાસ્ટિક કચરાનો સંગ્રહ કરવામાં આવેલો છે. આ કચરાને ઓનલાઇન મુલાકાત કરી અને ત્યારે

શુક્રવાર ૨૭ ઓગસ્ટ, ૨૦૨૧


સંક્ષિપ્ત સમાચાર

ઉત્થાન શાળાના વિદ્યાર્થીઓએ કરી Plastic Waste Management Plantની ઓનલાઇન મુલાકાત



સુરતઃ બાળકો પર્વાવરણની માનવજીવન અને જીવસૃષ્ટિ પર થતી અસરો જાણી, પર્વાવરણને પ્રદુષિત કરનારા પરિબળો વિશે સમજે અને ઘરેલુ તેમજ અન્ય કચરાના નિકાલની વ્યવસ્થા તેમજ Plastic Waste Management અંગેની બાબતોથી માહિતગાર થાય તે હેતુથી, અદાદી ફાઉન્ડેશન, હજીરાના ઉત્થાન પ્રોજેક્ટ અંતર્ગત હજારો કીલોગ્રામ પ્લાસ્ટિક કચરાનો સંગ્રહ કરવામાં આવેલો છે. આ કચરાને ઓનલાઇન મુલાકાત લીધી. આ કાર્યક્રમ Ecovision Environmental Resources LLP ના સહયોગે આયોજીત હતો. આ દરમિયાન વિદ્યાર્થીઓએ Plastic Waste Management Plant ની આંતરિક માહિતગાર થયા તે મુખ્યત્વે, અહીં કોરોના કાળના નવા પ્રોજેક્ટ અંતર્ગત હજારો કીલોગ્રામ પ્લાસ્ટિક કચરાનો સંગ્રહ કરવામાં આવેલો છે. આ કચરાને ઓનલાઇન મુલાકાત કરી અને ત્યારે

natureclubsurat



232 likes

natureclubsurat India generates approximate 90,000 tons of plastic waste EVERY DAY and 36,000 tons remain uncollected. While 54,000 tons of collected plastic is not segregated, some of it is also not recyclable. To better understand how segregated plastic waste can be recycled and be used for new products, Nature Club Surat team under the Uththan Project by Adani Foundation arranged the virtual tour of Eco-Vision Plastic Waste Management for students of government schools.

600 Students from Mundra, Nakhatrana and Hazira schools attended the virtual tour to become aware about plastic waste management.

ગુજરાત મિત્ર તા:-02-09-21

ઓલપાડના સેલુત ગામે પશુવિકાસ કેન્દ્રનો શુભારંભ



દેવાડઃ ઓલપાડના સેલુત ગામે અદાદી ફાઉન્ડેશન દ્વારા પુરસ્કૃત અને પશુપાલન ક્ષેત્રે કામગીરી કરતી જાણીતી સંસ્થા બાયક (BAIF) દ્વારા સંચાલિત પશુવિકાસ કેન્દ્રનો શુભારંભ થયો હતો. આ કેન્દ્ર થકી સેલુત, આડમોર, ડભોઈ, કુદિયાણા, નરથાણ, છીછી, લવાછા અને વેલુક ગામના પશુપાલકોને કૃત્રિમ બીજાદાન સહિતની સુવિધાઓ મળી રહેશે. આ કાર્યક્રમમાં અદાદી હજીરા પોર્ટના મિહિરકુમાર કર, બાયક સંસ્થાના ગુજરાતના ચીફ કો-ઓર્ડિનેટર જયંતી મોરી, ડી.કે. પટેલ, ઓલપાડ તાલુકાના પંચાયત કારોબારીના અધ્યક્ષ મુકેશ પટેલ, કુદિયાણા સિદ્ધ સોમેશ્વર દુધ ઉત્પાદક સહકારી મંડળના ચેરમેન ધર્મેશ આદીર, અદાદી ફાઉન્ડેશનના હેમંત પટેલ, આસપાસનાં ગામોના સરપંચ તથા દુધ ઉત્પાદકો ઉપસ્થિત રહ્યા હતા.

ગુજરાત ગાર્ડિયન તા:-02-09-21

ઓલપાડના સેલુતમાં પશુવિકાસ કેન્દ્રનો પ્રારંભ સાતથી વધુ ગામના પશુપાલકોને લાભ મળશે



ઓલપાડ તાલુકાના સેલુત ગામે અદાદી ફાઉન્ડેશન દ્વારા પુરસ્કૃત અને પશુપાલન ક્ષેત્રે કામગીરી કરતી જાણીતી સંસ્થા બાયક (BAIF) દ્વારા સંચાલિત પશુવિકાસ કેન્દ્રનો શુભારંભ થયો હતો. આ કેન્દ્ર થકી સેલુત, આડમોર, ડભોઈ, કુદિયાણા, નરથાણ, છીછી, લવાછા અને વેલુક ગામના પશુપાલકોને કૃત્રિમ બીજાદાન સહિતની સુવિધાઓ મળી રહેશે. આ કાર્યક્રમમાં અદાદી હજીરા પોર્ટના મિહિરકુમાર કર, બાયક સંસ્થાના ગુજરાતના ચીફ કો-ઓર્ડિનેટર જયંતી મોરી, ડી.કે. પટેલ, ઓલપાડ તાલુકાના પંચાયત કારોબારીના અધ્યક્ષ મુકેશ પટેલ, કુદિયાણા સિદ્ધ સોમેશ્વર દુધ ઉત્પાદક સહકારી મંડળના ચેરમેન ધર્મેશ આદીર, અદાદી ફાઉન્ડેશનના હેમંત પટેલ, આસપાસનાં ગામોના સરપંચ તથા દુધ ઉત્પાદકો ઉપસ્થિત રહ્યા હતા.

બારડોલી-ન્યારા ભાસ્કર 02-09-2021

ઓલપાડના સેલુત ગામે પશુવિકાસ કેન્દ્રનો પ્રારંભ 7થી વધુ ગામના પશુપાલકોને લાભ



ઓલપાડ તાલુકાના સેલુત ગામે અદાદી ફાઉન્ડેશન દ્વારા પુરસ્કૃત અને પશુપાલન ક્ષેત્રે કામગીરી કરતી જાણીતી સંસ્થા બાયક (BAIF) દ્વારા સંચાલિત પશુવિકાસ કેન્દ્રનો શુભારંભ થયો હતો. આ કેન્દ્ર થકી સેલુત, આડમોર, ડભોઈ, કુદિયાણા, નરથાણ, છીછી, લવાછા અને વેલુક ગામના પશુપાલકોને કૃત્રિમ બીજાદાન સહિતની સુવિધાઓ મળી રહેશે. આ કાર્યક્રમમાં અદાદી હજીરા પોર્ટના મિહિરકુમાર કર, બાયક સંસ્થાના ગુજરાતના ચીફ કો-ઓર્ડિનેટર જયંતી મોરી, ડી.કે. પટેલ, ઓલપાડ તાલુકાના પંચાયત કારોબારીના અધ્યક્ષ મુકેશ પટેલ, કુદિયાણા સિદ્ધ સોમેશ્વર દુધ ઉત્પાદક સહકારી મંડળના ચેરમેન ધર્મેશ આદીર, અદાદી ફાઉન્ડેશનના હેમંત પટેલ, આસપાસનાં ગામોના સરપંચ તથા દુધ ઉત્પાદકો ઉપસ્થિત રહ્યા હતા.

અદાદી ફાઉન્ડેશન દ્વારા નિઃશુલ્ક આરોગ્ય શિબિરનું આયોજન કરવામાં આવ્યું



હજીરા, અદાદી ફાઉન્ડેશન દ્વારા ગામ પંચાયત ભવન, બાઈટ માટે નિઃશુલ્ક સર્વેલેન્સ આરોગ્ય શિબિરનું આયોજન કરવામાં આવ્યું હતું. આ કાર્યક્રમમાં અદાદી હજીરા પોર્ટના મિહિરકુમાર કર, બાયક સંસ્થાના ગુજરાતના ચીફ કો-ઓર્ડિનેટર જયંતી મોરી, ડી.કે. પટેલ, ઓલપાડ તાલુકાના પંચાયત કારોબારીના અધ્યક્ષ મુકેશ પટેલ, કુદિયાણા સિદ્ધ સોમેશ્વર દુધ ઉત્પાદક સહકારી મંડળના ચેરમેન ધર્મેશ આદીર, અદાદી ફાઉન્ડેશનના હેમંત પટેલ, આસપાસનાં ગામોના સરપંચ તથા દુધ ઉત્પાદકો ઉપસ્થિત રહ્યા હતા.

ન્યાય દર્શન તા:-02-09-21

હજીરાથી કુદીયાણા સુધીના ૩૧ ગામના પશુપાલકો માટે પશુ કેન્દ્ર આર્શીવાદરૂપ



ઓલપાડ તાલુકાના સેલુત ગામે પશુ વિકાસ કેન્દ્રનો શુભારંભ : સાતથી વધુ ગામના પશુપાલકોને લાભ થશે

ઓલપાડ તાલુકાના સેલુત ગામે અદાદી ફાઉન્ડેશન દ્વારા પુરસ્કૃત અને પશુપાલન ક્ષેત્રે કામગીરી કરતી જાણીતી સંસ્થા બાયક (BAIF) દ્વારા સંચાલિત પશુવિકાસ કેન્દ્રનો શુભારંભ થયો હતો. આ કેન્દ્ર થકી સેલુત, આડમોર, ડભોઈ, કુદિયાણા, નરથાણ, છીછી, લવાછા અને વેલુક ગામના પશુપાલકોને કૃત્રિમ બીજાદાન સહિતની સુવિધાઓ મળી રહેશે. આ કાર્યક્રમમાં અદાદી હજીરા પોર્ટના મિહિરકુમાર કર, બાયક સંસ્થાના ગુજરાતના ચીફ કો-ઓર્ડિનેટર જયંતી મોરી, ડી.કે. પટેલ, ઓલપાડ તાલુકાના પંચાયત કારોબારીના અધ્યક્ષ મુકેશ પટેલ, કુદિયાણા સિદ્ધ સોમેશ્વર દુધ ઉત્પાદક સહકારી મંડળના ચેરમેન ધર્મેશ આદીર, અદાદી ફાઉન્ડેશનના હેમંત પટેલ, આસપાસનાં ગામોના સરપંચ તથા દુધ ઉત્પાદકો ઉપસ્થિત રહ્યા હતા.





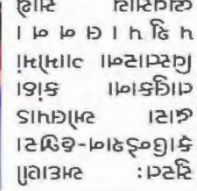
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।सप्त ।द्विष ।भक्तुग्राह ।प्राज्ञा ।कृतापराध ।अप्रार ।भक्तिपा ।साक्षात्

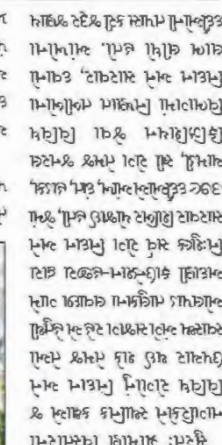
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Adani Foundation distributes sweaters
Surat: Adani Foundation, Hazira, distributed 2,245 sweaters to tribal people living in Umarpada taluka of Surat district. The sweaters were distributed in presence of corporate affairs head of Adani Port, Bhavesh Donda. Among those who received a sweater include 1,232 school students from Likai Naynirman Samiti.

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આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં...

આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં

આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં...

આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં



આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં...

આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં આદાની ફાઉન્ડેશન દ્વારા આયોજીત 'સુસ્વસ્થ' કાર્યકરમાં...

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Annexure-3:

Compliance Status of EMP as mentioned in the Integrated EIA Report, Sep. 2012:

S. No.	EMP Conditions	Compliance Status as on 31.03.2022
I.	AS PER TERRESTRIAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: -	
A	CONSTRUCTION PHASE:-	
1.	Dredged Soils Management Plan: AHPL has been permitted to dredge about 37 million cubic meter of soil, which shall be reused for backfilling in the project site. The dredged soil samples will be collected and analysed periodically for designated pollutants as per the recommendations of statutory authorities.	Complied. No disposal was done till date. All the dredging material was utilized for level raising, reclamation. If any excess material generated will be disposed of at the location already approved by the MoEF&CC.
2.	Air Quality Management: Fugitive dust will be generated during construction phase of the project due to handling of wet dredged and excavated soils. Dust control program will be implemented to reduce the dust generation during construction at project site. Water sprinkling will be adopted on haulage roads and construction site.	Being Complied Water sprinkling was being done on haulage roads on regular basis.
3.	Noise Control Programs: 1. Onsite fabrication activities should be undertaken at a designated location, which should be located away from the office buildings and any other working areas. 2. 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 can be installed. 3. Portable diesel engine generators and diesel engine driven compressors, if any, should be covered with noise enclosures.	Complied Fabrication activities was done at a designated location away from the office buildings and working areas. Complied Noise level was below 85 dB(A) during the fabrication. Currently no fabrication activities are going on. Complied. In-built noise enclosures are available in portable diesel engine generators and diesel engine driven compressors to reduce the noise level.
4.	Sewage Management Program: Sewage generated from the construction site will be treated in modular STP and shall be used for green belt development / landscaping after achieving prescribed standards by GPCB.	Being Complied Sewage generated from the construction site is being treated in STP and treated water is being used for greenbelt development.
5.	Solid and Hazardous Waste Management Program: The solid waste generated should be segregated and categorized under various rules such as HWM 2008, SWM 2000, the Batteries Rules 2001 including processing of used oil by authorized recyclers should be carried out by the rules and procedures prescribed by CPCB and also meet the requirements of GPCB.	Being Complied All the wastes are being segregate at source and handled as per applicable rules/ guidelines and disposed off through GPCB approved agency.
6.	Construction Phase Storm Water Runoff:	Complied

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	It has been recommended to adopt soil stabilization plans and storm water sedimentation basins to control the silt before discharging the storm water into sea.	Separate storm water drain was developed to discharge the storm water.
7.	Sanitation: The facilities presently available with the nearby villages will continued to be used during construction activities and no major sanitation problem is expected during construction period. The workers at the project site will be provided with proper sanitation arrangement.	Complied Proper sanitation arrangements were available for workers at project site.
B.	OPERATION PHASE: -	
1.	Air Quality Management:	
i.	Cargo-Handling Equipment: 1. Retrofitting the old equipment to meet the vehicular emission standards. 2. All the vehicles and equipment will be certified with PUC norms shall be deployed.	Being Complied All the deployed vehicles and equipment are PUC certified.
ii.	Standby Diesel Generators: DG Sets will be operated on clean diesel fuel with sulphur content less than 0.5%. Minimum stack height of 30m will be provided to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Being Complied DG Sets are being operated only in case of power failure, DG are operated on clean diesel fuel with sulphur content less than 0.5% and provided the adequate stack height are being provided as per CPCB/GPCB norms to disperse the gases into the atmosphere.
iii.	Fugitive Coal Dust Control Program: The management of AHPL has proposed to adopt the following fugitive coal dust control measures: - a. Dry Fog System - A new, proven and cost effective technique to control dust is “Dry Fog” system to suppress the dust from the air. The name fog is just what it implies small droplets of water injected into the air. Fogging works by releasing very small droplets of water into the air. Airborne dust particles adhere to the water droplet and agglomerate. If the fog is generated in the right way, by using pressurized water, the energy required can be very low between 2 to 3 kW for a system requiring hundreds of nozzles, e.g.: A large stockpile tripper conveyor - giving considerable operating cost savings when compared to other techniques, The sprinkler droplet sizes should be maintained less than 100 microns. b. Sprinklers: Once stockpiled, water can be sprayed on the stockpiles to keep them damped down. Swivelling sprinklers should be used along the lengths of the stockpile with caution, however, as the volume of water required can be significant, causing drainage and run-off treatment problems.	Complied. Following control measures are in place and effectively working at port to control fugitive dust: - 1. Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood. 2. Water sprinklers in the coal yard, 3. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute, 4. Water spray through Water Browsers, 5. Water Mist Canon / Fog System, 6. Wind Brake Shield of 14 meters high and 1900 meters long, 7. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin, 8. Regular cleaning of the roads through Road Sweeping Machines, and 9. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha within the port premises.
2.	Noise Control Program: The following source noise control plans have been suggested: -	Complied. • All the sound intensive components (DG Set and Compressor) are with acoustic enclosures.

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	<ul style="list-style-type: none"> ➤ Covering of sound intensive components with insulation. ➤ Using noise absorbing building materials if required for housing compressors and diesel generators etc. as per the guidelines suggested by Central Pollution Control Board. ➤ Adopting low noise driving (Eco-driving) ➤ Using silent exhaust pipes for major diesel engine vehicles and heavy trucks operated inside the port. ➤ Planting trees which act as barrier to arrest dispersion of noise levels. ➤ Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible. 	<ul style="list-style-type: none"> • Green belt development is in progress. • All RTGs and Quay Cranes are electricity operated.
3.	<p>Waste Water Management: Port handling operations would generate wastewater from the following sources: -</p> <ol style="list-style-type: none"> 1. Ship ballast water, 2. Ship deck wastewater including sewage, 3. Rejects from desalination plant, 4. Workshop and vehicle maintenance shop wastewater, 5. Leachate from coal stock yard, 6. Floor cleaning and tank cleaning wastewater from the liquid tank farm, 7. Sewage from port facilities. The proposed wastewater treatment and reuse program has been presented hereunder: - <p>A variety of vessels use the waters within the port, including bulk coal ships, tugs and line boats. Discharges from bulk ships are not expected to occur within the port because these large ships normally have on-board storage and sewage treatment plants, allowing discharge of treated effluent at sea as per the provision of MARPOL.</p> <ul style="list-style-type: none"> ➤ Except monsoon, leachate from coal stock yard is not envisaged. However small quantities, if any, will be treated in the effluent treatment plant. Wastewater from vehicle work-shops will also be treated in the proposed onsite effluent treatment plant. ➤ As far as possible all chemical spills at liquid handling facilities will be treated with dry spill absorbing material and water will not be used. Spillage if any occurs will be treated in a dedicated onsite wastewater treatment plant, which consists of an oil removal unit, primary chemical treatment unit and biological treatment units followed by activated carbon unit. Biologically treated wastewater will be further 	<p>Being Complied</p> <ul style="list-style-type: none"> - AHPL is not accepting Ballast/ Sewage water from Ships. - Desalination plant not yet installed. - There is no effluent generation from workshop. Vehicle maintenance is not done in port premises. - There is no leachate from dump pond. - Tank cleaning wastewater is being treated into ETP. - Domestic waste water is being treated in the STP and then used for horticulture purpose within the port premises. <p>Complied. Dedicated coal dump pond is provided to collect the runoff (if any) from coal yard and it is further reused for dust suppression purpose into coal yard.</p> <p>Complied with. No spill has occurred till date. If, spills occurred, spilled material/chemical will be treated into ETP and treated waste water will be reused in greenbelt development / plantation purpose.</p>

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	<p>treated in the central sewage treatment plant. Treated wastewater will be used for dust suppression and horticulture applications at the facility. No treated wastewater will be discharged outside the port facilities.</p>	
4.	<p>Storm Water Management Plan:</p> <ul style="list-style-type: none"> ➤ Storm water from the coal stockpile area will be passed through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. It has been proposed to construct a garland drain for all bulk storage facilities to avoid silting into the marine eco-system. ➤ All liquid storage tanks will be provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains shall be designed in order to avoid any flooding of the coal stock yard and liquid chemical tank farm areas. 	<p>Complied</p> <p>Garland drain for all bulk storage facilities are provided to avoid silting into the marine eco-system. Storm water from the coal stockpile area is collected into dump ponds to remove the coal sediment.</p> <p>Complied.</p> <p>All liquid storage tanks are provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains and effluents drains are separate.</p>
5.	<p>Solid and Hazardous Waste Management:</p> <ul style="list-style-type: none"> ➤ Solid wastes generated from the port handling facilities consist of packaging waste such as wood, paper/carton, steel scrap etc. ➤ All the hazardous wastes and solid wastes such as Oil containing cargo residue, Chemical containing cargo residue and sludge, contaminated cotton waste, spent exchange resin and ETP Sludge, etc. shall be segregated at source and stored at the earmarked area. ➤ Recyclable wastes will be collected and disposed to waste recycling vendors through certified recyclers wherever applicable. ➤ Hazardous wastes include contaminated chemical spills, spent dry adsorbing spill absorbing material used for large marine and onshore chemical spills, used lubricating oils and greases. The chemicals spill inventories and spent dry absorbing material will be stored in a dedicated onsite tank and will be disposed to authorized hazardous waste incinerators. ➤ Spent lube oils and greases will be disposed to authorized used oil recycling vendors. 	<p>Complied.</p> <ul style="list-style-type: none"> - Solid wastes generated during port development i.e.: construction & demolition wastes are reused for level rising of low lying area within the port premises. Kitchen/ Food, Horticulture/Garden wastes are being sent to Organic Waste Converter (OWC) to convert it into compost and reused as manure in greenbelt/plantation. - Packaging materials generated from the cargo handling i.e.: Wood, Paper/Carton, Steel Scrap, Plastic/Tarpaulin etc. are collected and sold out to recyclers. <p>Complied.</p> <p>All the wastes are segregated at source and stored at a dedicated Hazardous Waste storage shed/yard.</p> <p>Complied.</p> <p>Recyclable waste is being collected and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied.</p> <p>No spill has occurred till date.</p> <p>Complied.</p>

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	<ul style="list-style-type: none">➤ A dedicated and completely enclosed shed will be identified to store the hazardous wastes in order to avoid any cross contamination from storm water.➤ All the waste should be segregated, collected, categorized as per the HWM Rules 2008, SWM Rules 2000 and Batteries Rules 2001 prescribed by CPCB under Environmental Protection Act, 1986.	<p>Recyclable wastes is being collected and disposed off through CPCB/GPCB registered recyclers.</p> <p>Complied.</p> <p>All the wastes are stored at a dedicated hazardous waste storage shed/yard.</p> <p>Being Complied</p> <p>All the wastes are being segregate at source and handled as per applicable rules/guidelines.</p>																
6.	<p>Greenbelt and Plantation:</p> <ul style="list-style-type: none">➤ AHPL will develop thick green belt plantation in and around the proposed project facility covering 81.27 Ha. Efforts will be taken to increase the green cover in and around the project boundary using local species with a view to ameliorating project related disturbances and enhancing the ecological value of the area. Greenbelt would be developed as per the CPCB guidelines.➤ A capital cost of Rs. 1.62 Crore and an annual recurring budget of Rs. 0.65 Crore will be earmarked for this purpose.	<p>Complied</p> <p>Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha till 30th September 2021.</p> <p>Horticulture budget for FY 2021-22 is Rs. 160 Lakhs.</p>																
7.	<p>Community Development Plan:</p> <p>AHPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows: -</p> <ol style="list-style-type: none">1. Infrastructure development for educational facilities like building of schools, computer rooms, multipurpose activity halls2. Supporting education through distribution of stationary, scholarships, science kits, bicycles to children, conducting education camps, competitions.3. Strengthening the community health by arranging health camps, AID awareness camps, providing financial support to senior citizens and poor people, building dispensaries and mobile dispensaries.4. Improvement of rural sanitation by conducting mass awareness campaign, helping villagers for constructing and maintaining household toilets, school toilets.5. Improvement in animal husbandry and agriculture by arranging camps for farmers and cattle owners, conducting programs to use new irrigation technologies, organic farming, and free fodder supply.6. Organizing need based skill development program to women and youth for their empowerment.7. Rural infrastructure development by construction of rainwater harvesting ponds, check dams, roads, bus stops, drainage systems, fish landing shed, solar street lamps.	<p>Complied.</p> <ul style="list-style-type: none">• CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.• Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports.• Please refer the Annexure-2 for the status of the CSR activities during the compliance period Financial Year: 2021-22. The total Expenditure in CSR activities in the FY 2021-22 is INR 469.35 Lacs. <table><tr><th>S.NO</th><th>FY</th><th>Budget (In INR Lacs)</th><th>Expenditure (In INR Lacs)</th></tr><tr><td>1</td><td>2018-19</td><td>307.53</td><td>253.50</td></tr><tr><td>2</td><td>2019-20</td><td>330.53</td><td>265.75</td></tr><tr><td>3</td><td>2020-21</td><td>255.13</td><td>223.61</td></tr></table>	S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)	1	2018-19	307.53	253.50	2	2019-20	330.53	265.75	3	2020-21	255.13	223.61
S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)															
1	2018-19	307.53	253.50															
2	2019-20	330.53	265.75															
3	2020-21	255.13	223.61															

	<p>AHPL has committed to spend about Rs. 8.21 Crore in the first five years of the operation towards various rural upliftment and community development programs and tentative budget has been presented in the below table - Budgeted Expenditure for CSR and Community Development Activities:-</p> <table border="1" data-bbox="329 489 886 800"> <thead> <tr> <th>S. No.</th><th>Descriptions</th><th>Budgeted Amount For 1st 5 year Period (Amount rupees in Crore)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Education</td><td>2.29</td></tr> <tr> <td>2</td><td>Community Health</td><td>1.18</td></tr> <tr> <td>3</td><td>Sustainable Livelihood Activities</td><td>1.43</td></tr> <tr> <td>4</td><td>Rural Infrastructure Development</td><td>2.04</td></tr> <tr> <td>5</td><td>Entry Point Activities</td><td>1.27</td></tr> <tr> <td colspan="2">Total</td><td>8.21</td></tr> </tbody> </table>	S. No.	Descriptions	Budgeted Amount For 1 st 5 year Period (Amount rupees in Crore)	1	Education	2.29	2	Community Health	1.18	3	Sustainable Livelihood Activities	1.43	4	Rural Infrastructure Development	2.04	5	Entry Point Activities	1.27	Total		8.21	
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3	Sustainable Livelihood Activities	1.43																					
4	Rural Infrastructure Development	2.04																					
5	Entry Point Activities	1.27																					
Total		8.21																					
II.	MARINE ENVIRONMENT MANAGEMENT PLAN:																						
A.	<p>CONSTRUCTION PHASE: -</p> <ul style="list-style-type: none"> ➤ The dredge spoil generated during capital dredging will be used for land reclamation for the port development and associated utilities. ➤ Unused dredged material will be disposed off at approved dump sites to the north of port area including dredged soil generated through maintenance dredging. ➤ Appropriate dredging methodology shall be adopted to control the generation of high levels of suspended solids. If the suspended solids concentration increases, the dredging operation should be stopped till the normal conditions are achieved. ➤ General clean up along the corridor used for construction related activities, adjacent intertidal areas, creeks etc. should be undertaken and all the discarded materials must be removed from the site and aesthetic quality of the surroundings to be restored, once the construction activities are completed. 	<p>Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation.</p> <p>Complied If any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p> <p>Noted & Being Complied Monitoring of turbidity level in the sea water is being done and there is no abnormal increase observed.</p> <p>Being Complied. Clean up of the area is regularly being done.</p>																					
B.	<p>OPERATION PHASE: -</p> <p>The following mitigation measures are recommended during port operation: -</p> <ul style="list-style-type: none"> ➤ Sewage generated from the port operations will be treated in sewage treatment plant and treated water shall be used for horticulture and green belt development. ➤ All the solid waste generated from the port will be properly segregated, stored and disposed as per the applicable statutory requirement. ➤ All the structures shall be designed in such a way that it should not restrict the prevailing tidal ingress in the creek and mangrove habitats in the vicinity to ensure good health condition. 	<p>Complied. Sewage generated from the port operations is being treated in STP and treated water is being used for horticulture and green belt development.</p> <p>Complied. All the solid waste generated from the port is properly segregated, stored and disposed as per the applicable rules.</p> <p>Being Complied Free flow to the mangrove is not restricted by any of our activity.</p> <p>Complied.</p>																					

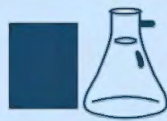
	Adani Hazira Port Limited	From: October 2021 to March 2022
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<p>➤ Coastline between Suwali Point and Tapti Estuary mouth and around the port area will be periodically surveyed to assess erosion and accretion. Should the need arises the corrective action in terms of shore stabilization shall be undertaken.</p>	<p>Shoreline change study was conducted by NIO, Vizag during the period from November, 2014 to December, 2015. Study confirms that there is no significant change in the nearby shoreline except for the approved layout of the AHPL. The report did not warrant any mitigation measures.</p> <p>Noted and Being Complied.</p> <p>Shoreline Change Assessment in the port boundary and nearby the area through a reputed Institute is being carried out and the report will be submitted after completion of the study.</p> <p>There is no oil spill till date.</p> <p>Complied.</p> <p>Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>Noted and Being Complied</p> <p>No effluent is being discharged.</p> <p>Complied.</p> <p>Please refer the Annexure-4D for the Sea Water Quality Monitoring / Analysis Reports for the compliance period October 2021 to March 2022.</p> <p>Noted,</p> <p>AHPL is not discharging any effluent outside the port premises.</p>
<p>➤ All the minor and major spillages of chemicals will be effectively controlled with appropriate tools and equipments.</p> <p>➤ An oil/chemical spill management plan shall be evolved and be in place for tier-1 (100t) and tier-2 (700t) spills in consultation with Gujarat Maritime Board/Coast Guard.</p> <p>➤ All the marine outfall shall meet the Gujarat Pollution Control Board Effluent Discharge Criteria for Seawater Disposal Standards.</p> <p>➤ Monitoring of water area of the port and effluent disposal sited shall be studied for pH and Corg, Suspended Solids, DO, BOD in order to identify for deviations if any from the baseline environmental quality.</p> <p>➤ The mitigation measures suggested for effluent release and maintaining of effluent disposal sites should also be adopted for effluent release by NIKO should be implemented.</p>	

	Adani Hazira Port Limited	From: October 2021 to March 2022
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ANNEXURE-4

Environmental Monitoring / Analysis Results For The Period From October 2021 to March 2022



4A. AMBIENT AIR QUALITY MONITORING (OCTOBER-2021 TO MARCH-2022): -

Table-1.1: Ambient Air Quality Monitoring Results At Near Port Gate No.: 2

Sr. No.	Date of Sampling	Location-1: Near Port Gate No.: 2 (N 21° 05.426'E 72° 37.739')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	78.36	44.40	0.62	ND*	2.54	10.43	0.56	ND*	25.33	12.43	34.60	27.46
2	07/10/2021	72.49	34.66	ND*	ND*	ND*	ND*	0.93	ND*	32.42	23.31	36.88	25.98
3	11/10/2021	86.55	45.65	ND*	ND*	ND*	ND*	0.70	ND*	21.39	16.58	28.39	21.69
4	14/10/2021	90.22	48.35	0.58	ND*	2.34	10.64	0.77	ND*	29.71	20.88	33.68	24.65
5	18/10/2021	81.25	41.60	ND*	ND*	ND*	ND*	0.80	ND*	38.43	25.36	38.52	16.58
6	21/10/2021	77.89	38.42	ND*	ND*	ND*	ND*	0.94	ND*	34.39	15.75	32.55	26.25
7	25/10/2021	69.15	35.62	ND*	ND*	ND*	ND*	1.01	ND*	24.66	24.58	40.39	17.62
8	28/10/2021	85.36	43.55	0.75	ND*	2.46	10.88	0.89	ND*	35.74	21.67	37.74	20.23
9	01/11/2021	73.59	48.35	ND*	ND*	ND*	10.32	0.85	ND*	26.65	19.30	30.40	24.33
10	04/11/2021	80.32	41.27	ND*	ND*	ND*	ND*	0.71	ND*	34.41	17.62	28.83	29.42
11	08/11/2021	87.58	44.57	0.65	ND*	2.18	ND*	0.64	ND*	38.94	20.18	31.38	20.25
12	11/11/2021	75.49	38.44	ND*	ND*	ND*	ND*	0.57	ND*	28.44	25.79	39.57	27.85
13	15/11/2021	92.42	52.62	0.78	ND*	2.16	10.73	0.79	ND*	25.67	21.32	32.54	25.40
14	18/11/2021	79.47	46.37	ND*	ND*	ND*	ND*	0.81	ND*	30.68	16.17	29.49	22.32
15	22/11/2021	88.76	49.47	ND*	ND*	ND*	ND*	0.92	ND*	27.56	23.52	41.34	28.40
16	25/11/2021	77.62	42.53	ND*	ND*	ND*	ND*	0.76	ND*	32.45	14.63	35.17	26.38
17	30/11/2021	93.49	51.21	0.67	ND*	2.34	10.88	0.93	ND*	36.58	22.31	38.75	30.48
18	02/12/2021	75.33	36.37	ND*	ND*	ND*	ND*	0.78	ND*	30.13	18.36	38.63	25.50
19	06/12/2021	85.63	47.57	ND*	ND*	ND*	ND*	0.85	ND*	28.67	25.63	35.39	27.69
20	09/12/2021	91.27	52.46	0.62	ND*	2.84	10.66	0.46	ND*	35.48	23.45	32.68	22.13
21	13/12/2021	87.84	53.43	ND*	ND*	ND*	ND*	0.86	ND*	37.97	21.43	36.34	18.44
22	16/12/2021	82.62	42.61	0.68	ND*	2.55	10.73	0.93	ND*	34.95	17.66	33.53	24.87
23	20/12/2021	70.55	40.25	ND*	ND*	ND*	ND*	0.61	ND*	25.83	19.73	42.46	28.46
24	23/12/2021	84.75	46.23	0.59	ND*	2.34	10.49	0.77	ND*	29.44	13.52	26.78	26.37
25	27/12/2021	76.35	44.30	ND*	ND*	ND*	ND*	0.94	ND*	31.24	24.63	40.38	19.68
26	30/12/2021	88.63	48.27	ND*	ND*	ND*	ND*	0.70	ND*	27.52	20.21	37.59	21.28
27	03/01/2022	79.38	42.65	ND*	ND*	ND*	ND*	0.57	ND*	23.18	16.55	33.94	23.49
28	06/01/2022	92.34	50.20	0.76	ND*	2.36	ND*	0.66	ND*	31.63	20.31	36.60	18.24

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29	11/01/2022	73.49	43.56	ND*	ND*	ND*	10.32	0.92	ND*	25.48	25.36	39.54	29.54
30	15/01/2022	89.36	52.44	0.66	ND*	2.42	ND*	1.03	ND*	34.85	23.87	42.72	24.47
31	17/01/2022	78.67	36.28	ND*	ND*	ND*	10.39	0.87	ND*	24.57	13.47	37.61	28.55
32	20/01/2022	88.36	48.35	0.75	ND*	2.36	10.70	0.94	ND*	32.34	24.23	26.76	26.73
33	24/01/2022	69.41	33.45	ND*	ND*	ND*	ND*	0.61	ND*	26.82	15.27	34.32	20.85
34	27/01/2022	74.21	41.33	ND*	ND*	ND*	ND*	1.01	ND*	35.46	21.35	27.18	17.51
35	31/01/2022	85.21	45.33	ND*	ND*	ND*	ND*	0.80	ND*	28.24	18.38	32.68	25.23
36	03/02/2022	67.34	33.77	ND*	ND*	ND*	ND*	0.89	ND*	39.66	26.26	42.71	29.11
37	07/02/2022	90.25	48.68	0.62	ND*	2.42	10.88	0.78	ND*	20.88	16.36	28.40	22.11
38	10/02/2022	82.65	44.61	ND*	ND*	ND*	ND*	0.63	ND*	42.65	21.60	38.54	27.19
39	14/02/2022	72.31	37.53	ND*	ND*	ND*	ND*	0.95	ND*	33.87	22.66	35.73	30.60
40	17/02/2022	79.42	43.57	ND*	ND*	ND*	ND*	0.77	ND*	30.51	25.58	39.53	25.31
41	21/02/2022	89.61	46.23	0.52	ND*	2.34	10.60	0.73	ND*	23.56	18.47	32.66	20.24
42	24/02/2022	80.22	41.54	ND*	ND*	ND*	ND*	0.98	ND*	27.69	23.44	40.30	28.34
43	28/02/2022	73.56	36.67	ND*	ND*	ND*	ND*	0.85	ND*	34.14	14.85	36.21	24.21
44	03/03/2022	71.52	40.27	ND*	ND*	ND*	ND*	0.96	ND*	29.83	20.44	31.66	24.36
45	07/03/2022	88.69	47.56	0.84	ND*	2.55	10.50	0.82	ND*	26.49	22.85	37.59	27.29
46	10/03/2022	76.52	42.31	ND*	ND*	ND*	ND*	0.80	ND*	34.18	17.73	33.52	21.58
47	14/03/2022	68.47	38.62	ND*	ND*	ND*	ND*	0.89	ND*	27.54	15.41	38.51	26.34
48	17/03/2022	85.63	49.57	0.66	ND*	2.65	10.33	0.95	ND*	20.12	23.50	32.43	30.42
49	21/03/2022	73.59	39.46	ND*	ND*	ND*	ND*	0.85	ND*	28.45	25.66	34.59	25.64
50	24/03/2022	83.48	26.39	ND*	ND*	ND*	ND*	0.79	ND*	35.61	19.50	44.60	29.54
51	28/03/2022	90.32	51.23	0.62	ND*	2.76	10.57	0.60	ND*	25.17	16.32	35.68	20.86
52	31/03/2022	74.63	29.43	ND*	ND*	ND*	ND*	0.73	ND*	38.44	26.29	42.75	28.45

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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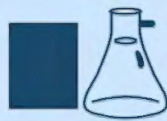


Table-1.2: Ambient Air Quality Monitoring Results at HSE Building Terrace

Sr. No.	Date of Sampling	Location-2: HSE Building Terrace (N 21° 05.043' E 72° 38.491')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	68.95	39.57	ND*	ND*	ND*	ND*	0.53	ND*	12.17	11.22	16.39	15.87
2	07/10/2021	59.52	28.57	ND*	ND*	ND*	ND*	0.44	ND*	17.57	18.58	20.44	17.51
3	11/10/2021	70.34	36.18	ND*	ND*	ND*	ND*	0.55	ND*	10.65	15.48	25.44	10.56
4	14/10/2021	77.61	33.87	ND*	ND*	ND*	ND*	0.49	ND*	20.57	9.37	28.97	23.81
5	18/10/2021	69.67	35.54	ND*	ND*	ND*	ND*	0.62	ND*	21.19	22.35	34.60	14.64
6	21/10/2021	52.64	27.62	ND*	ND*	ND*	ND*	0.81	ND*	14.54	12.85	30.50	12.34
7	25/10/2021	46.26	16.50	ND*	ND*	ND*	ND*	0.66	ND*	11.23	17.49	19.57	13.28
8	28/10/2021	67.69	23.90	ND*	ND*	ND*	ND*	0.73	ND*	13.87	19.62	21.36	11.51
9	01/11/2021	64.56	37.88	ND*	ND*	ND*	ND*	0.62	ND*	21.42	13.47	17.13	17.53
10	04/11/2021	75.71	29.47	ND*	ND*	ND*	ND*	0.58	ND*	27.15	15.82	24.20	21.40
11	08/11/2021	82.66	34.81	ND*	ND*	ND*	ND*	0.26	ND*	30.39	7.77	14.63	19.39
12	11/11/2021	66.41	31.54	ND*	ND*	ND*	ND*	0.31	ND*	8.84	12.33	20.23	14.58
13	15/11/2021	81.36	46.30	ND*	ND*	ND*	ND*	0.40	ND*	14.32	17.22	25.78	18.37
14	18/11/2021	62.28	33.68	ND*	ND*	ND*	ND*	0.49	ND*	17.33	14.18	18.37	10.31
15	22/11/2021	78.49	36.42	ND*	ND*	ND*	ND*	0.45	ND*	13.22	19.18	29.62	16.27
16	25/11/2021	65.34	32.51	ND*	ND*	ND*	ND*	0.33	ND*	23.65	6.53	22.40	20.36
17	30/11/2021	88.24	47.54	ND*	ND*	ND*	ND*	0.30	ND*	28.53	11.61	19.58	12.63
18	02/12/2021	62.31	32.15	ND*	ND*	ND*	ND*	0.25	ND*	17.47	12.41	21.24	16.60
19	06/12/2021	55.47	27.66	ND*	ND*	ND*	ND*	0.73	ND*	13.29	9.25	27.35	11.90
20	09/12/2021	81.37	39.40	ND*	ND*	ND*	ND*	0.40	ND*	19.67	20.39	29.48	15.37
21	13/12/2021	72.57	43.51	ND*	ND*	ND*	ND*	0.50	ND*	21.27	13.72	17.33	20.44
22	16/12/2021	64.51	34.51	ND*	ND*	ND*	ND*	0.55	ND*	11.59	10.13	20.80	12.43
23	20/12/2021	58.42	31.52	ND*	ND*	ND*	ND*	0.32	ND*	18.99	16.23	34.61	18.34
24	23/12/2021	79.36	33.40	ND*	ND*	ND*	ND*	0.27	ND*	16.18	11.25	18.66	24.38
25	27/12/2021	70.43	38.34	ND*	ND*	ND*	ND*	0.42	ND*	20.61	21.24	32.47	17.43
26	30/12/2021	83.58	42.52	ND*	ND*	ND*	ND*	0.56	ND*	14.53	15.42	30.45	14.86
27	03/01/2022	73.55	39.84	ND*	ND*	ND*	ND*	0.50	ND*	20.33	7.43	15.65	18.67
28	06/01/2022	86.30	36.52	ND*	ND*	ND*	ND*	0.32	ND*	17.85	11.77	21.68	15.28
29	11/01/2022	50.28	21.52	ND*	ND*	ND*	ND*	0.76	ND*	13.69	18.52	18.58	20.70

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30	15/01/2022	74.62	19.54	ND*	ND*	ND*	ND*	0.71	ND*	19.33	21.56	23.21	17.82
31	17/01/2022	68.54	23.83	ND*	ND*	ND*	ND*	0.60	ND*	16.51	14.53	19.41	23.87
32	20/01/2022	82.69	45.46	ND*	ND*	ND*	ND*	0.65	ND*	27.55	10.14	16.90	16.82
33	24/01/2022	61.27	30.35	ND*	ND*	ND*	ND*	0.54	ND*	10.38	13.66	26.56	14.57
34	27/01/2022	66.22	37.61	ND*	ND*	ND*	ND*	0.73	ND*	18.45	9.26	14.35	22.30
35	31/01/2022	78.51	31.73	ND*	ND*	ND*	ND*	0.46	ND*	22.27	12.37	25.33	19.27
36	03/02/2022	45.65	20.82	ND*	ND*	ND*	ND*	0.65	ND*	27.57	15.24	28.60	12.18
37	07/02/2022	66.53	30.73	ND*	ND*	ND*	ND*	0.57	ND*	16.64	20.34	32.42	14.43
38	10/02/2022	55.65	25.45	ND*	ND*	ND*	ND*	0.32	ND*	20.23	11.69	35.35	18.35
39	14/02/2022	63.65	29.59	ND*	ND*	ND*	ND*	0.61	ND*	15.31	17.35	27.88	13.88
40	17/02/2022	57.31	26.56	ND*	ND*	ND*	ND*	0.37	ND*	10.56	22.50	33.59	15.61
41	21/02/2022	71.55	28.59	ND*	ND*	ND*	ND*	0.27	ND*	12.67	9.28	25.53	11.56
42	24/02/2022	64.59	36.52	ND*	ND*	ND*	ND*	0.36	ND*	22.15	16.84	22.68	19.96
43	28/02/2022	54.34	21.53	ND*	ND*	ND*	ND*	0.80	ND*	24.61	10.11	15.41	16.37
44	03/03/2022	63.67	33.53	ND*	ND*	ND*	ND*	0.26	ND*	19.41	14.85	18.19	17.66
45	07/03/2022	82.64	44.29	ND*	ND*	ND*	ND*	0.70	ND*	10.65	16.99	24.70	11.55
46	10/03/2022	67.56	37.52	ND*	ND*	ND*	ND*	0.65	ND*	28.38	9.82	27.26	15.63
47	14/03/2022	60.35	32.49	ND*	ND*	ND*	ND*	0.47	ND*	20.21	6.56	16.66	19.57
48	17/03/2022	76.85	42.63	ND*	ND*	ND*	ND*	0.74	ND*	15.68	15.85	23.59	24.26
49	21/03/2022	55.68	25.89	ND*	ND*	ND*	ND*	0.49	ND*	24.21	21.53	14.55	21.75
50	24/03/2022	72.41	22.41	ND*	ND*	ND*	ND*	0.66	ND*	31.61	10.56	34.33	27.66
51	28/03/2022	80.36	45.61	ND*	ND*	ND*	ND*	0.30	ND*	14.76	13.62	31.29	14.39
52	31/03/2022	61.29	15.63	ND*	ND*	ND*	ND*	0.53	ND*	33.57	17.56	26.53	16.58

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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Table-1.3: Ambient Air Quality Monitoring Results at Central Water Pump House

Sr. No.	Date of Sampling	Location-3: Central Water Pump House (N 21° 04.697'E 72° 38.420')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	58.47	21.29	ND*	ND*	ND*	ND*	0.26	ND*	10.31	8.24	28.70	13.61
2	07/10/2021	47.28	18.64	ND*	ND*	ND*	ND*	0.71	ND*	13.76	22.48	32.53	15.36
3	11/10/2021	54.38	22.68	ND*	ND*	ND*	ND*	0.27	ND*	20.32	13.53	26.47	14.35
4	14/10/2021	73.12	30.39	ND*	ND*	ND*	ND*	0.25	ND*	12.49	11.60	23.70	17.71
5	18/10/2021	56.34	25.83	ND*	ND*	ND*	ND*	0.40	ND*	23.52	15.25	25.45	11.36
6	21/10/2021	60.32	31.33	ND*	ND*	ND*	ND*	0.30	ND*	21.89	6.36	21.69	16.37
7	25/10/2021	51.59	24.66	ND*	ND*	ND*	ND*	0.61	ND*	16.82	10.74	16.89	10.98
8	28/10/2021	57.89	20.23	ND*	ND*	ND*	ND*	0.38	ND*	19.88	18.67	22.42	19.55
9	01/11/2021	69.56	28.40	ND*	ND*	ND*	ND*	0.37	ND*	14.29	7.52	14.30	15.48
10	04/11/2021	56.37	34.62	ND*	ND*	ND*	ND*	0.21	ND*	20.23	14.52	21.28	13.59
11	08/11/2021	60.15	31.33	ND*	ND*	ND*	ND*	0.63	ND*	26.54	18.29	28.50	22.50
12	11/11/2021	51.71	21.62	ND*	ND*	ND*	ND*	0.46	ND*	10.65	20.31	24.53	12.29
13	15/11/2021	70.85	40.66	ND*	ND*	ND*	ND*	0.77	ND*	21.67	13.80	19.50	16.36
14	18/11/2021	52.81	25.86	ND*	ND*	ND*	ND*	0.44	ND*	13.46	10.20	15.38	19.25
15	22/11/2021	67.53	30.45	ND*	ND*	ND*	ND*	0.39	ND*	18.62	8.57	25.68	24.55
16	25/11/2021	55.42	24.22	ND*	ND*	ND*	ND*	0.60	ND*	15.54	12.36	16.67	21.59
17	30/11/2021	72.89	38.37	ND*	ND*	ND*	ND*	0.24	ND*	23.55	9.33	23.69	14.38
18	02/12/2021	43.67	18.34	ND*	ND*	ND*	ND*	0.57	ND*	19.25	6.21	25.89	17.21
19	06/12/2021	70.36	32.51	ND*	ND*	ND*	ND*	0.36	ND*	16.79	12.42	22.32	14.22
20	09/12/2021	64.34	35.64	ND*	ND*	ND*	ND*	0.34	ND*	24.69	14.72	18.28	11.36
21	13/12/2021	53.46	27.50	ND*	ND*	ND*	ND*	0.33	ND*	18.26	16.42	26.86	16.21
22	16/12/2021	42.56	19.54	ND*	ND*	ND*	ND*	0.22	ND*	15.35	9.50	17.49	18.62
23	20/12/2021	46.52	22.35	ND*	ND*	ND*	ND*	0.24	ND*	12.48	11.29	24.63	20.38
24	23/12/2021	50.39	26.22	ND*	ND*	ND*	ND*	0.52	ND*	20.25	7.42	15.97	22.32
25	27/12/2021	63.21	33.42	ND*	ND*	ND*	ND*	0.47	ND*	26.35	10.80	23.96	10.39
26	30/12/2021	71.56	23.63	ND*	ND*	ND*	ND*	0.79	ND*	17.64	8.35	21.54	13.59
27	03/01/2022	57.52	29.53	ND*	ND*	ND*	ND*	0.22	ND*	17.53	10.91	24.67	13.36
28	06/01/2022	50.45	17.59	ND*	ND*	ND*	ND*	0.16	ND*	27.08	7.66	14.38	20.42
29	11/01/2022	56.72	24.83	ND*	ND*	ND*	ND*	0.53	ND*	18.51	9.56	21.29	23.52


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30	15/01/2022	65.69	16.35	ND*	ND*	ND*	ND*	0.68	ND*	25.02	13.95	19.53	14.41
31	17/01/2022	58.46	20.27	ND*	ND*	ND*	ND*	0.42	ND*	13.52	17.87	25.66	10.31
32	20/01/2022	63.43	32.46	ND*	ND*	ND*	ND*	0.56	ND*	16.36	8.29	22.43	15.57
33	24/01/2022	45.32	15.84	ND*	ND*	ND*	ND*	0.64	ND*	12.46	6.56	18.29	11.79
34	27/01/2022	59.33	25.64	ND*	ND*	ND*	ND*	0.33	ND*	23.43	11.55	30.30	16.50
35	31/01/2022	52.54	21.18	ND*	ND*	ND*	ND*	0.31	ND*	19.22	15.34	15.39	12.60
36	03/02/2022	50.93	22.78	ND*	ND*	ND*	ND*	0.69	ND*	23.38	9.50	19.59	15.36
37	07/02/2022	71.26	26.45	ND*	ND*	ND*	ND*	0.52	ND*	11.87	6.41	16.29	11.72
38	10/02/2022	61.98	30.55	ND*	ND*	ND*	ND*	0.47	ND*	22.45	10.21	13.60	20.56
39	14/02/2022	52.52	25.67	ND*	ND*	ND*	ND*	0.44	ND*	16.57	12.46	18.53	18.97
40	17/02/2022	65.34	37.54	ND*	ND*	ND*	ND*	0.38	ND*	24.58	18.37	26.41	16.43
41	21/02/2022	59.28	24.57	ND*	ND*	ND*	ND*	0.62	ND*	19.29	13.28	15.71	14.64
42	24/02/2022	54.21	28.48	ND*	ND*	ND*	ND*	0.29	ND*	14.85	11.60	27.55	12.58
43	28/02/2022	49.53	18.50	ND*	ND*	ND*	ND*	0.56	ND*	20.34	7.66	24.64	22.34
44	03/03/2022	45.92	21.37	ND*	ND*	ND*	ND*	0.52	ND*	10.84	11.34	14.63	12.62
45	07/03/2022	63.43	29.57	ND*	ND*	ND*	ND*	0.64	ND*	21.24	14.28	22.29	10.57
46	10/03/2022	40.54	25.48	ND*	ND*	ND*	ND*	0.32	ND*	16.33	8.57	24.27	17.39
47	14/03/2022	46.32	27.58	ND*	ND*	ND*	ND*	0.21	ND*	13.44	10.33	21.61	21.49
48	17/03/2022	52.45	30.46	ND*	ND*	ND*	ND*	0.23	ND*	18.27	12.43	19.61	15.32
49	21/03/2022	42.34	22.36	ND*	ND*	ND*	ND*	0.40	ND*	11.27	17.34	27.60	11.38
50	24/03/2022	55.73	14.56	ND*	ND*	ND*	ND*	0.58	ND*	24.51	9.44	25.43	19.45
51	28/03/2022	68.26	34.84	ND*	ND*	ND*	ND*	0.46	ND*	12.83	15.76	28.60	13.42
52	31/03/2022	50.28	20.42	ND*	ND*	ND*	ND*	0.62	ND*	25.61	7.53	20.33	18.26

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.1

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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Table-1.4: Ambient Air Quality Monitoring Results at Container Terminal

Sr. No.	Date of Sampling	Location-4: Container Terminal (N 21° 05.187'E 72° 37.774)											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	62.42	30.16	ND*	ND*	ND*	ND*	0.37	ND*	14.38	15.32	24.42	20.31
2	07/10/2021	54.23	22.51	ND*	ND*	ND*	ND*	0.63	ND*	21.58	12.12	27.70	12.45
3	11/10/2021	77.57	40.30	ND*	ND*	ND*	ND*	0.19	ND*	17.64	8.38	18.63	19.73
4	14/10/2021	68.35	37.54	ND*	ND*	ND*	ND*	0.47	ND*	11.58	18.43	31.30	16.66
5	18/10/2021	51.76	33.43	ND*	ND*	ND*	ND*	0.52	ND*	15.21	20.43	28.48	23.41
6	21/10/2021	71.62	23.55	ND*	ND*	ND*	ND*	0.57	ND*	26.47	19.20	23.86	17.36
7	25/10/2021	64.36	29.35	ND*	ND*	ND*	ND*	0.22	ND*	23.98	13.62	22.09	11.94
8	28/10/2021	52.58	27.25	ND*	ND*	ND*	ND*	0.34	ND*	16.34	11.82	17.70	14.52
9	01/11/2021	53.21	40.29	ND*	ND*	ND*	ND*	0.61	ND*	10.25	14.30	19.44	19.63
10	04/11/2021	66.39	31.42	ND*	ND*	ND*	ND*	0.41	ND*	25.39	11.42	16.65	23.49
11	08/11/2021	72.74	25.35	ND*	ND*	ND*	ND*	0.23	ND*	14.64	13.23	23.48	15.40
12	11/11/2021	56.83	23.43	ND*	ND*	ND*	ND*	0.38	ND*	20.33	15.61	32.52	22.56
13	15/11/2021	76.55	43.47	ND*	ND*	ND*	ND*	0.16	ND*	11.21	8.38	17.70	20.54
14	18/11/2021	68.49	28.66	ND*	ND*	ND*	ND*	0.22	ND*	24.54	12.64	22.69	16.63
15	22/11/2021	73.83	39.53	ND*	ND*	ND*	ND*	0.56	ND*	15.64	17.29	33.70	10.26
16	25/11/2021	60.36	20.27	ND*	ND*	ND*	ND*	0.47	ND*	18.48	21.21	29.34	13.65
17	30/11/2021	78.32	35.54	ND*	ND*	ND*	ND*	0.19	ND*	26.37	18.63	25.43	11.14
18	02/12/2021	62.31	32.15	ND*	ND*	ND*	ND*	0.25	ND*	17.47	12.41	21.24	16.60
19	06/12/2021	55.47	27.66	ND*	ND*	ND*	ND*	0.73	ND*	13.29	9.25	27.35	11.90
20	09/12/2021	81.37	39.40	ND*	ND*	ND*	ND*	0.40	ND*	19.67	20.39	29.48	15.37
21	13/12/2021	72.57	43.51	ND*	ND*	ND*	ND*	0.50	ND*	21.27	13.72	17.33	20.44
22	16/12/2021	64.51	34.51	ND*	ND*	ND*	ND*	0.55	ND*	11.59	10.13	20.80	12.43
23	20/12/2021	58.42	31.52	ND*	ND*	ND*	ND*	0.32	ND*	18.99	16.23	34.61	18.34
24	23/12/2021	79.36	33.40	ND*	ND*	ND*	ND*	0.27	ND*	16.18	11.25	18.66	24.38
25	27/12/2021	70.43	38.34	ND*	ND*	ND*	ND*	0.42	ND*	20.61	21.24	32.47	17.43
26	30/12/2021	83.58	42.52	ND*	ND*	ND*	ND*	0.56	ND*	14.53	15.42	30.45	14.86
27	03/01/2022	62.31	31.52	ND*	ND*	ND*	ND*	0.44	ND*	31.18	12.68	27.61	15.68
28	06/01/2022	71.87	27.55	ND*	ND*	ND*	ND*	0.58	ND*	12.61	19.56	18.73	11.56
29	11/01/2022	63.58	36.54	ND*	ND*	ND*	ND*	0.39	ND*	15.36	16.89	35.60	16.32


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30	15/01/2022	79.72	39.56	ND*	ND*	ND*	ND*	0.63	ND*	30.41	10.27	26.46	21.60
31	17/01/2022	45.23	15.36	ND*	ND*	ND*	ND*	0.47	ND*	10.59	18.62	30.51	13.59
32	20/01/2022	67.62	37.23	ND*	ND*	ND*	ND*	0.45	ND*	21.55	15.56	24.27	19.34
33	24/01/2022	56.34	26.34	ND*	ND*	ND*	ND*	0.25	ND*	17.25	9.37	15.53	12.35
34	27/01/2022	51.27	35.41	ND*	ND*	ND*	ND*	0.52	ND*	20.48	14.18	23.44	10.42
35	31/01/2022	68.34	38.65	ND*	ND*	ND*	ND*	0.34	ND*	11.57	8.62	19.32	14.17
36	03/02/2022	57.64	27.83	ND*	ND*	ND*	ND*	0.79	ND*	36.48	17.85	28.42	18.76
37	07/02/2022	77.58	33.45	ND*	ND*	ND*	ND*	0.46	ND*	15.67	9.56	20.30	10.38
38	10/02/2022	68.95	37.86	ND*	ND*	ND*	ND*	0.42	ND*	13.54	15.46	30.35	15.90
39	14/02/2022	47.67	22.37	ND*	ND*	ND*	ND*	0.71	ND*	25.46	11.21	21.73	19.30
40	17/02/2022	50.44	35.39	ND*	ND*	ND*	ND*	0.34	ND*	14.54	13.52	23.57	12.46
41	21/02/2022	78.51	39.53	ND*	ND*	ND*	ND*	0.23	ND*	18.54	7.60	17.67	17.65
42	24/02/2022	69.32	32.44	ND*	ND*	ND*	ND*	0.68	ND*	21.66	18.52	31.54	21.88
43	28/02/2022	59.46	24.24	ND*	ND*	ND*	ND*	0.88	ND*	16.38	20.30	29.61	11.32
44	03/03/2022	58.38	26.30	ND*	ND*	ND*	ND*	0.56	ND*	22.37	16.30	26.52	20.79
45	07/03/2022	72.54	32.47	ND*	ND*	ND*	ND*	0.34	ND*	16.53	20.29	33.23	16.24
46	10/03/2022	60.29	30.33	ND*	ND*	ND*	ND*	0.57	ND*	10.27	12.85	22.43	14.58
47	14/03/2022	55.35	24.31	ND*	ND*	ND*	ND*	0.45	ND*	17.58	9.83	19.68	13.87
48	17/03/2022	65.88	34.58	ND*	ND*	ND*	ND*	0.71	ND*	12.87	11.23	15.37	17.58
49	21/03/2022	59.47	31.79	ND*	ND*	ND*	ND*	0.61	ND*	20.38	14.63	23.45	15.84
50	24/03/2022	64.58	16.38	ND*	ND*	ND*	ND*	0.42	ND*	18.62	17.24	21.27	24.89
51	28/03/2022	73.28	28.87	ND*	ND*	ND*	ND*	0.41	ND*	11.96	8.63	14.41	18.62
52	31/03/2022	56.35	25.34	ND*	ND*	ND*	ND*	0.29	ND*	21.84	19.57	28.67	21.28

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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Table-1.5: Ambient Air Quality Monitoring Results at Hazira Village

Sr. No.	Date of Sampling	Location-5: Hazira Village (N 21° 05.44' E 72° 38.44')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	73.24	34.53	0.56	ND*	2.36	10.26	0.58	ND*	19.42	13.83	31.37	26.31
2	07/10/2021	67.54	32.39	ND*	ND*	ND*	ND*	0.78	ND*	28.33	19.36	29.57	22.38
3	11/10/2021	60.52	29.44	ND*	ND*	ND*	ND*	0.65	ND*	24.33	11.30	23.47	18.66
4	14/10/2021	84.34	42.43	0.56	ND*	2.18	10.42	0.45	ND*	31.57	15.91	26.91	28.68
5	18/10/2021	76.33	30.56	ND*	ND*	ND*	ND*	0.54	ND*	27.67	18.89	24.79	24.34
6	21/10/2021	66.33	36.32	ND*	ND*	ND*	ND*	0.72	ND*	30.29	14.41	28.55	23.59
7	25/10/2021	57.61	31.54	ND*	ND*	ND*	ND*	0.92	ND*	13.59	21.13	37.55	16.42
8	28/10/2021	78.52	40.75	0.64	ND*	2.75	10.55	0.79	ND*	25.87	16.45	33.54	10.32
9	01/11/2021	59.31	44.37	ND*	ND*	ND*	10.11	0.42	ND*	32.95	17.49	34.54	23.57
10	04/11/2021	71.39	38.25	ND*	ND*	ND*	ND*	0.34	ND*	18.35	20.52	31.29	17.63
11	08/11/2021	77.54	36.57	0.55	ND*	2.45	ND*	0.54	ND*	33.96	16.49	26.42	27.52
12	11/11/2021	82.30	50.39	ND*	ND*	ND*	ND*	0.52	ND*	23.48	23.40	35.69	24.43
13	15/11/2021	88.30	47.25	0.68	ND*	2.62	10.55	0.68	ND*	17.54	11.47	27.56	28.60
14	18/11/2021	74.56	42.60	ND*	ND*	ND*	ND*	0.86	ND*	26.43	19.60	25.93	26.85
15	22/11/2021	84.62	46.54	ND*	ND*	ND*	ND*	0.80	ND*	21.24	26.50	38.50	21.64
16	25/11/2021	72.43	37.59	ND*	ND*	ND*	ND*	0.55	ND*	28.31	15.29	32.65	25.65
17	30/11/2021	83.52	43.63	0.58	ND*	2.56	10.39	0.70	ND*	34.52	24.28	41.55	22.81
18	02/12/2021	68.44	28.43	ND*	ND*	ND*	ND*	0.84	ND*	25.38	23.61	28.43	22.53
19	06/12/2021	79.63	42.63	ND*	ND*	ND*	ND*	0.48	ND*	23.21	21.68	26.46	30.27
20	09/12/2021	87.67	48.66	0.52	ND*	2.64	10.29	0.71	ND*	32.27	18.70	30.49	23.42
21	13/12/2021	81.36	46.22	ND*	ND*	ND*	ND*	0.62	ND*	26.31	24.50	32.48	26.58
22	16/12/2021	70.62	31.41	0.60	ND*	2.22	10.44	0.45	ND*	30.38	15.50	36.47	14.51
23	20/12/2021	62.42	29.85	ND*	ND*	ND*	ND*	0.60	ND*	28.24	10.37	39.48	17.57
24	23/12/2021	90.31	36.47	0.51	ND*	2.58	10.39	0.69	ND*	22.33	8.92	22.03	19.46
25	27/12/2021	83.62	49.22	ND*	ND*	ND*	ND*	0.88	ND*	36.52	17.51	35.47	24.57
26	30/12/2021	77.37	37.67	ND*	ND*	ND*	ND*	0.49	ND*	31.57	9.58	27.85	16.34
27	03/01/2022	67.69	34.55	ND*	ND*	ND*	ND*	0.78	ND*	36.44	14.36	30.63	21.43
28	06/01/2022	81.27	30.27	0.68	ND*	2.12	ND*	0.74	ND*	24.22	16.37	25.30	25.60
29	11/01/2022	68.49	40.26	ND*	ND*	ND*	10.14	0.82	ND*	20.22	20.32	32.45	28.23


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30	15/01/2022	84.51	44.59	0.58	ND*	2.26	ND*	0.96	ND*	27.85	18.25	36.26	18.50
31	17/01/2022	63.62	32.43	ND*	ND*	ND*	10.33	1.00	ND*	21.15	24.56	33.81	26.49
32	20/01/2022	77.81	41.34	0.65	ND*	2.12	10.55	0.41	ND*	34.14	21.72	29.47	29.35
33	24/01/2022	50.39	23.46	ND*	ND*	ND*	ND*	0.36	ND*	23.44	11.24	31.60	22.42
34	27/01/2022	82.49	29.47	ND*	ND*	ND*	ND*	0.69	ND*	31.52	23.41	34.64	20.28
35	31/01/2022	73.67	35.95	ND*	ND*	ND*	ND*	0.81	ND*	25.35	17.53	28.68	23.68
36	03/02/2022	61.35	30.25	ND*	ND*	ND*	ND*	0.66	ND*	31.43	22.29	39.39	27.56
37	07/02/2022	83.52	46.60	0.57	ND*	2.35	10.60	0.84	ND*	25.61	15.33	23.20	19.60
38	10/02/2022	77.62	41.58	ND*	ND*	ND*	ND*	0.53	ND*	28.44	17.53	25.37	13.76
39	14/02/2022	68.58	32.43	ND*	ND*	ND*	ND*	0.74	ND*	30.27	19.24	33.46	24.39
40	17/02/2022	72.68	40.27	ND*	ND*	ND*	ND*	0.60	ND*	26.29	14.50	20.60	11.13
41	21/02/2022	84.37	42.66	0.62	ND*	2.15	10.39	0.55	ND*	13.84	18.21	30.52	26.22
42	24/02/2022	75.67	39.44	ND*	ND*	ND*	ND*	0.93	ND*	19.63	21.66	35.49	16.23
43	28/02/2022	67.23	33.51	ND*	ND*	ND*	ND*	0.76	ND*	32.47	16.55	32.90	25.73
44	03/03/2022	52.96	24.67	ND*	ND*	ND*	ND*	0.86	ND*	27.68	18.67	24.46	16.69
45	07/03/2022	77.55	36.53	0.76	ND*	2.42	10.34	0.38	ND*	13.59	25.46	27.87	22.31
46	10/03/2022	62.92	33.64	ND*	ND*	ND*	ND*	0.92	ND*	22.49	15.62	30.90	19.84
47	14/03/2022	75.64	30.36	ND*	ND*	ND*	ND*	0.88	ND*	19.29	13.59	34.82	15.27
48	17/03/2022	70.39	37.70	0.61	ND*	2.35	10.23	0.72	ND*	23.43	19.38	28.48	21.62
49	21/03/2022	67.21	35.42	ND*	ND*	ND*	ND*	0.69	ND*	26.56	12.61	31.54	23.52
50	24/03/2022	78.25	20.61	ND*	ND*	ND*	ND*	0.76	ND*	16.83	22.52	37.34	20.65
51	28/03/2022	61.33	38.21	0.52	ND*	2.22	10.29	0.55	ND*	21.49	11.76	25.47	17.88
52	31/03/2022	68.31	23.49	ND*	ND*	ND*	ND*	0.44	ND*	30.35	23.42	35.44	26.51

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.1

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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Table-1.6: Ambient Air Quality Monitoring Results at Suvali Village

Sr. No.	Date of Sampling	Location-6: Suvali Village (N 21° 08.55' E 72° 38.24')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2021	---	---	---	---	---	---	---	---	---	---	---	---
2	07/10/2021	---	---	---	---	---	---	---	---	---	---	---	---
3	11/10/2021	---	---	---	---	---	---	---	---	---	---	---	---
4	14/10/2021	---	---	---	---	---	---	---	---	---	---	---	---
5	18/10/2021	63.25	16.78	ND*	ND*	ND*	ND*	0.36	ND*	17.56	12.94	17.60	11.88
6	21/10/2021	46.91	23.44	ND*	ND*	ND*	ND*	0.39	ND*	23.65	9.62	13.97	17.48
7	25/10/2021	39.41	15.35	ND*	ND*	ND*	ND*	0.29	ND*	20.49	15.67	28.79	12.63
8	28/10/2021	64.29	33.20	ND*	ND*	ND*	ND*	0.41	ND*	18.21	13.26	19.81	14.59
9	01/11/2021	43.69	25.47	ND*	ND*	ND*	ND*	0.48	ND*	18.32	12.64	24.44	12.47
10	04/11/2021	50.32	18.60	ND*	ND*	ND*	ND*	0.14	ND*	14.29	8.63	16.53	14.33
11	08/11/2021	68.23	28.39	ND*	ND*	ND*	ND*	0.36	ND*	20.89	10.21	19.55	11.66
12	11/11/2021	46.31	19.44	ND*	ND*	ND*	ND*	0.29	ND*	15.36	17.54	27.56	18.45
13	15/11/2021	64.35	27.49	ND*	ND*	ND*	ND*	0.53	ND*	11.32	14.51	21.63	10.36
14	18/11/2021	57.59	35.41	ND*	ND*	ND*	ND*	0.27	ND*	19.43	6.50	15.74	13.45
15	22/11/2021	62.42	33.60	ND*	ND*	ND*	ND*	0.32	ND*	10.66	16.30	22.52	15.68
16	25/11/2021	48.62	29.24	ND*	ND*	ND*	ND*	0.25	ND*	13.41	9.61	25.64	17.54
17	30/11/2021	67.52	24.40	ND*	ND*	ND*	ND*	0.18	ND*	21.58	13.39	20.30	19.27
18	02/12/2021	57.65	24.25	ND*	ND*	ND*	ND*	0.38	ND*	20.26	16.43	17.72	10.63
19	06/12/2021	47.59	21.23	ND*	ND*	ND*	ND*	0.26	ND*	11.33	11.33	24.37	21.25
20	09/12/2021	54.31	29.47	ND*	ND*	ND*	ND*	0.41	ND*	14.54	12.47	14.25	14.65
21	13/12/2021	58.46	23.43	ND*	ND*	ND*	ND*	0.19	ND*	16.26	6.28	19.87	17.21
22	16/12/2021	48.26	26.54	ND*	ND*	ND*	ND*	0.23	ND*	13.67	8.65	25.45	20.24
23	20/12/2021	40.68	16.34	ND*	ND*	ND*	ND*	0.54	ND*	21.44	13.39	28.69	11.26
24	23/12/2021	59.43	22.33	ND*	ND*	ND*	ND*	0.11	ND*	18.44	10.39	23.59	16.41
25	27/12/2021	50.21	27.95	ND*	ND*	ND*	ND*	0.37	ND*	15.69	7.53	21.34	12.68
26	30/12/2021	43.75	20.36	ND*	ND*	ND*	ND*	0.63	ND*	10.32	14.25	18.31	18.38
27	03/01/2022	48.46	23.31	ND*	ND*	ND*	ND*	0.27	ND*	13.82	9.31	20.35	11.85
28	06/01/2022	63.81	19.58	ND*	ND*	ND*	ND*	0.40	ND*	17.24	6.56	22.42	16.51
29	11/01/2022	44.25	15.67	ND*	ND*	ND*	ND*	0.14	ND*	10.59	15.67	26.58	12.60


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30	15/01/2022	60.37	24.68	ND*	ND*	ND*	ND*	0.62	ND*	14.55	8.65	16.66	15.62
31	17/01/2022	54.85	28.22	ND*	ND*	ND*	ND*	0.48	ND*	18.52	11.66	23.28	18.27
32	20/01/2022	49.52	25.60	ND*	ND*	ND*	ND*	0.49	ND*	23.49	14.25	27.58	20.83
33	24/01/2022	42.39	20.48	ND*	ND*	ND*	ND*	0.29	ND*	16.54	7.54	21.63	17.58
34	27/01/2022	64.24	31.82	ND*	ND*	ND*	ND*	0.18	ND*	11.27	10.26	19.59	13.55
35	31/01/2022	46.55	23.72	ND*	ND*	ND*	ND*	0.55	ND*	15.65	12.42	24.27	10.46
36	03/02/2022	40.26	15.25	ND*	ND*	ND*	ND*	0.14	ND*	19.52	12.43	18.62	19.40
37	07/02/2022	61.22	28.66	ND*	ND*	ND*	ND*	0.54	ND*	13.54	10.31	15.51	12.45
38	10/02/2022	50.23	34.22	ND*	ND*	ND*	ND*	0.21	ND*	11.51	8.68	19.67	16.68
39	14/02/2022	42.21	20.47	ND*	ND*	ND*	ND*	0.45	ND*	12.41	14.60	24.19	21.52
40	17/02/2022	53.23	24.38	ND*	ND*	ND*	ND*	0.30	ND*	15.32	7.61	14.71	10.94
41	21/02/2022	63.43	35.62	ND*	ND*	ND*	ND*	0.25	ND*	22.48	15.43	23.73	15.38
42	24/02/2022	60.28	23.54	ND*	ND*	ND*	ND*	0.33	ND*	10.26	9.51	17.65	11.35
43	28/02/2022	65.64	30.41	ND*	ND*	ND*	ND*	0.41	ND*	14.36	6.35	20.29	14.27
44	03/03/2022	42.48	19.32	ND*	ND*	ND*	ND*	0.36	ND*	14.58	10.57	22.24	14.36
45	07/03/2022	53.48	25.65	ND*	ND*	ND*	ND*	0.27	ND*	12.55	13.48	19.60	20.26
46	10/03/2022	48.42	28.43	ND*	ND*	ND*	ND*	0.50	ND*	15.49	6.51	16.37	10.55
47	14/03/2022	41.69	16.50	ND*	ND*	ND*	ND*	0.14	ND*	23.58	11.54	25.46	16.59
48	17/03/2022	57.55	27.72	ND*	ND*	ND*	ND*	0.25	ND*	17.65	9.57	18.59	12.46
49	21/03/2022	52.63	20.34	ND*	ND*	ND*	ND*	0.54	ND*	10.34	16.31	21.60	19.54
50	24/03/2022	43.45	18.53	ND*	ND*	ND*	ND*	0.18	ND*	13.56	8.19	17.54	15.64
51	28/03/2022	56.41	24.54	ND*	ND*	ND*	ND*	0.33	ND*	20.21	17.50	23.89	11.55
52	31/03/2022	45.75	17.70	ND*	ND*	ND*	ND*	0.63	ND*	16.34	14.19	15.42	13.51

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.1

ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01

ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2

ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5

ND*: - Not Detected - Arsenic as As (ng/m^3): 2

ND*: - Not Detected - Nickel as Ni (ng/m^3): 5



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4B. GROUND WATER QUALITY MONITORING: -
Table-1.7A: Ground Water Quality Results for the period: October, 2021 to March, 2022

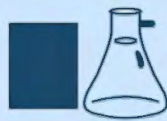
Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Colour	Hazen	2	3	3	2	3	3
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.11	0.17	0.12	0.15	0.12	0.15
5	pH Value	--	7.93	7.83	7.75	7.89	7.75	8.14
6	Total Hardness as CaCO ₃	mg/L	472	458	424	456	443	462
7	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Chloride as Cl	mg/L	128	112	105	110	99.9	108
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.078	0.091	0.120	0.093	0.110	0.170
11	Total Dissolved Solids	mg/L	1184	1132	1075	1028	1004	1026
12	Calcium as Ca	mg/L	72.4	84	70	78	70	74.4
13	Magnesium as Mg	mg/L	69.84	59.52	59.76	62.64	64.32	66.24
14	Copper as Cu	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
16	Sulphate as SO ₄	mg/L	39.40	34.60	25.60	29.32	26.10	32.80
17	Nitrate Nitrogen as NO ₃	mg/L	7.12	6.79	3.50	3.70	5.60	4.92
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
22	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.280	0.230	0.120	0.017	0.092	0.140
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromium as Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	316	305	274	286	264	273
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
31	Boron as B	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32	Pesticides							
32.1	Alachor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected


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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
32.4	Alpha HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.5	Beta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyrifos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.8	Delta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p,p,p- Isomers of DDT, DDE & DDD	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

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


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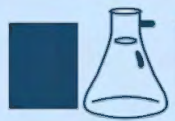


Table-1.7B: Ground Water Quality Results for the period: October, 2021 to March, 2022

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Colour	Hazen	2	4	3	2	2	3
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.14	0.19	0.14	0.17	0.09	0.13
5	pH Value	--	7.62	7.52	7.54	7.63	7.52	7.68
6	Total Hardness as CaCO ₃	mg/L	362	334	318	342	368	382
7	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Chloride as Cl	mg/L	110	108	99.9	103	95.9	106
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.064	0.073	0.095	0.074	0.09	0.086
11	Total Dissolved Solids	mg/L	1028	982	913	968	942	992
12	Calcium as Ca	mg/L	61.6	75.6	68.0	66.4	60.0	68.8
13	Magnesium as Mg	mg/L	49.92	34.80	35.52	42.24	52.32	50.40
14	Copper as Cu	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
16	Sulphate as SO ₄	mg/L	18.80	20.30	20.40	17.56	14.80	21.36
17	Nitrate Nitrogen as NO ₃	mg/L	5.12	4.27	4.90	4.13	4.80	3.74
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
22	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.170	0.150	0.095	0.086	0.110	0.150
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromium as Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	304	298	261	273	259	276
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
31	Boron as B	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32								
32.1	Alachor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.4	Alpha HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.5	Beta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyrifos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.8	Delta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p,p,p- Isomers of DDT, DDE & DDD	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

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



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4C. SURFACE WATER QUALITY MONITORING: -
Table-1.8: Surface Water (Pond) Quality Results for the period: October, 2021 to March, 2022

Sr. No.	Parameters	Unit	At Mora Village (Surface Water – Pond)					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	2	3	2	3	2	3
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	7.51	7.65	7.92	7.45	7.63	7.73
5	Turbidity	NTU	0.14	0.13	0.15	0.12	0.19	0.14
6	Total Dissolved Solids	mg/L	672	652	793	678	638	695
7	Total Hardness as CaCO ₃	mg/L	238	228	258	230	214	232
8	Chloride as Cl	mg/L	92.0	84.0	96.0	83.4	76.0	84.0
9	Fluoride as F	mg/L	0.23	0.21	0.25	0.18	0.19	0.21
10	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
11	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
12	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

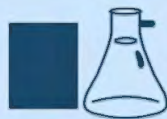
Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Surface Water.


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4D. SEA WATER QUALITY MONITORING: -

Table-1.9: Sea Water Quality Analysis Results of CB2 South End towards Landside from the Sea Basin for the period: October, 2021 to March, 2022

Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.09	7.98	8.11	8.07	8.09	8	7.76	7.91	7.86	7.81	7.79	7.73
2	Temperature	°C	30	29.8	29.8	29.6	29.7	29.6	29.5	29.2	29.7	29.6	30.3	30.1
3	Total Suspended Solids	mg/L	107	89	117	103	128	114	193	208	203	187	158	129
4	BOD (3 Days @ 27 °C)	mg/L	2.50	Not Detected	2.68	Not Detected	3.12	2.30	2.87	2.40	3.16	2.79	2.94	2.30
5	Dissolved Oxygen	mg/L	5.80	5.70	5.85	5.75	5.75	5.59	5.80	5.75	5.85	5.70	5.95	5.80
6	Salinity	ppt	27.96	28.40	28.52	28.84	28.86	29.12	33.90	34.48	34.29	34.68	35.20	35.82
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	μmol/L	3.28	3.14	2.74	2.63	2.39	2.27	3.18	3.10	2.58	2.41	3.28	3.14
9	Nitrite as NO ₂	μmol/L	1.13	0.98	1.23	1.17	0.94	0.89	0.83	0.75	0.64	0.53	0.81	0.72
10	Ammonical Nitrogen as NH ₃	μmol/L	2.56	2.35	2.36	2.23	2.13	2.06	2.29	2.18	2.74	2.68	2.56	2.41
11	Phosphates as PO ₄	μmol/L	2.34	2.21	2.29	2.21	1.79	1.63	2.14	2.06	2.36	2.29	2.18	1.96
12	Total Nitrogen	μmol/L	6.97	6.47	6.33	6.03	5.46	5.22	6.30	6.03	5.96	5.62	6.65	6.27
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29546	29964	30106	30368	29948	30634	34562	35126	34910	35398	35746	36298
15	COD	mg/L	11.80	9.40	12.20	9.13	13.60	10.20	14.73	11.80	14.98	12.96	14.86	10.20
A Phytoplankton														
16.1	Chlorophyll	mg/m ₃	2.99	2.67	2.48	2.28	2.44	2.08	2.29	2.16	3.01	2.67	2.88	2.64
16.2	Phaeophytin	mg/m ₃	1.46	1.85	0.46	0.19	0.50	0.39	1.18	0.49	0.95	0.38	1.08	0.40
16.3	Cell Count	No.x10 ³ /L	178	116	164	102	172	118	142	106	182	126	192	150
16.4	Name of Group Number and name of group species of each group	--	Melosira sp. Thalassionema sp. Navicula sp. Skeletonema sp. Asterionella sp. Surirella sp.	Nitzschia sp. Cyclotella sp. Amphora sp. Pleurosigma sp. Synedra sp.	Navicula sp. Skeletonema sp. Thalassionema sp. Biddulphia sp. Peridinium sp. Navicula sp.	Synedra sp. Pleurosigma sp. Nitzschia sp. Rhizosolenia sp.	Navicula sp. Closterium sp. Scenedesmus sp. Ankistrodesmus sp.	Thalassiosira sp. Nitzschia sp. Biddulphia sp. Gyrosigma sp.	Thalassionema sp. Guinardia sp. Ankistrodesmus sp. Navicula sp. Rhizosolenia sp.	Nitzschia sp. Pediastrum sp. Synedra sp. Gyrosigma sp.	Leptocylindrus sp. Guinardia sp. Rhizosolenia sp. Coscinodiscus sp.	Nitzschia sp. Navicula sp. Pleurosigma sp. Pediastrum sp.	Rhizosolenia sp. Scenedesmus sp. Coscinodiscus sp. Skeletonema sp. Asterionella sp.	Nitzschia sp. Pleurosigma sp. Pediastrum sp. Synedra sp.

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Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B	Zooplanktons													
17.1	Abundance (Population)	Nox103 /100m ³	16		24		22		27		21		24	
17.2	Name of Group Number and name of group species of each group	--	Copepods Polychaetes Ostracods		Polychaetes Decapods Bivalves Ostracodes		Polychaetes Bivalves Foraminifora		Copepods Lamellibranches Polychaetes		Copepods Polychaetes Decapods		Copepods Polychaetes Decapods	
17.3	Total Biomass	ml/100 m ³	1.55		2.10		2.05		2.65		2.05		2.30	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ml	2760		2160		2420		2170		2380		2280	
18.2	Total Coliform	/ml	Present		Present		Present		Present		Present		Present	
18.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.4	Enterococcus species	/ml	Present		Present		Present		Present		Present		Present	
18.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

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



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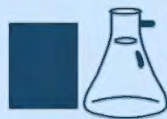


Table-1.10: Sea Water Quality Analysis Results of MP1 West End towards Channel from the Sea Basin for the period: October, 2021 to March, 2022

Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.13	8.04	8.09	8.03	8.13	8.04	7.94	7.89	7.89	7.85	7.72	7.93
2	Temperature	oC	29.8	29.7	29.7	29.5	29.8	29.6	29.6	29.5	29.8	29.6	30.3	30.1
3	Total Suspended Solids	mg/L	114	93	124	113	112	107	158	132	219	207	168	142
4	BOD (3 Days @ 27 °C)	mg/L	2.40	Not Detected	2.72	Not Detected	3.00	2.20	2.98	2.34	3.12	2.91	2.98	2.74
5	Dissolved Oxygen	mg/L	5.95	5.80	5.85	5.75	5.70	5.65	5.75	5.65	5.85	5.70	5.90	5.85
6	Salinity	ppt	28.14	28.68	28.46	28.69	28.92	29.24	34.26	34.78	34.38	34.97	34.18	34.86
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	μmol/L	3.24	3.16	2.93	2.81	2.52	2.39	2.97	2.88	2.69	2.50	3.14	3.08
9	Nitrite as NO ₂	μmol/L	1.10	0.98	1.27	1.13	0.99	0.87	0.75	0.69	0.73	0.53	0.87	0.79
10	Ammonical Nitrogen as NH ₃	μmol/L	2.37	2.23	2.29	2.18	2.21	2.08	2.36	2.27	2.54	2.39	2.41	2.36
11	Phosphates as PO ₄	μmol/L	2.18	2.08	2.37	2.29	1.87	1.79	2.18	2.04	2.31	2.27	2.29	2.15
12	Total Nitrogen	μmol/L	6.71	6.37	6.49	6.12	5.72	5.34	6.08	5.84	5.96	5.42	6.42	6.23
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29708	30214	30093	30298	30468	30780	34898	35362	34994	35540	34824	35448
15	COD	mg/L	10.60	7.68	12.30	8.94	13.46	9.84	14.90	11.82	13.92	12.34	14.29	12.90
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.93	2.72	2.64	2.29	2.51	2.32	2.38	2.26	2.86	2.75	2.94	2.80
16.2	Phaeophytin	mg/m ³	1.29	1.09	0.19	0.20	0.32	0.17	0.88	1.00	0.54	0.73	0.46	0.67
16.3	Cell Count	No.x10 ³ /L	164	108	152	108	174	102	162	112	178	126	184	138
16.4	Name of Group Number and name of group species of each group	--	Scenedesmus sp. Pediastrum sp. Navicula sp. Thalassiosira sp.	Nitzschia sp. Synedra sp. Closterium sp. Pinnularia sp.	Pediastrum sp. Navicula sp. Thalassiosira sp. Rhizosolenia sp. Melosira sp.	Nitzschia sp. Synedra sp. Biddulphia sp. Skeletonema sp.	Guinardia sp. Fragillaria sp. Gyrosigma sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Melosira sp. Pleurosigma sp.	Closterium sp. Guinardia sp. Melosira sp. Amphiprora sp. Peridinium sp. Biddulphia sp.	Synedra sp. Thalassiosira sp. Rhizosolenia sp. Navicula sp.	Cheatoceus sp. Gyrosigma sp. Thalassiosira sp. Nitzschia sp.	Navicula sp. Guinardia sp. Melosira sp. Pleurosigma sp.	Coscinodiscus sp. Rhizosolenia sp. Skeletonema sp. Navicula sp. Thalassiosira sp.	Guinardia sp. Melosira sp. Pleurosigma sp. Synedra sp.

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Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B	Zooplanktons													
17.1	Abundance (Population)	Nox10 3/100 m³	18		23		20		25		19		21	
17.2	Name of Group Number and name of group species of each group	--	Copepods Polychaetes Decapods Isopodes		Polychaetes Gastropods Decapods Isopods		Copepods Gastropods Amphipods Decapods		Gastropods Amphipods Polychaetes Ostracoods		Copepods Amphipods Decapods Fish Larvae		Copepods Amphipods Polychaetes Gastropods	
17.3	Total Biomass	ml/100 m³	1.70		2.25		1.95		2.45		1.85		2.05	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ml	2450		2670		2510		2730		2260		2620	
18.2	Total Colliform	/ml	Present		Present		Present		Present		Present		Present	
18.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.4	Enterococcus species	/ml	Present		Present		Present		Present		Present		Present	
18.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

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



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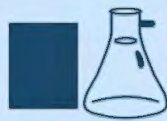


Table-1.11: Sea Water Quality Analysis Results of CB1 End towards Channel from the Sea Basin for the period: October, 2021 to March, 2022

Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.15	8.04	8.12	8.07	8.10	8.06	7.97	7.92	7.93	7.90	7.89	7.95
2	Temperature	oC	29.9	29.8	29.8	29.7	29.8	29.6	29.4	29.3	29.7	29.6	30.4	30.2
3	Total Suspended Solids	mg/L	128	102	129	110	118	105	168	184	213	190	153	132
4	BOD (3 Days @ 27 °C)	mg/L	2.30	Not Detected	2.82	Not Detected	2.96	2.16	3.10	2.36	3.34	3.10	2.87	2.56
5	Dissolved Oxygen	mg/L	5.95	5.85	5.90	5.80	5.75	5.65	5.70	5.60	5.85	5.75	5.95	5.80
6	Salinity	ppt	27.82	28.46	28.32	28.78	28.63	29.24	34.16	34.79	34.30	34.92	35.18	35.62
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	μmol/L	3.16	3.04	2.89	2.73	2.47	2.36	3.17	3.10	2.81	2.67	3.19	3.06
9	Nitrite as NO ₂	μmol/L	1.12	0.95	1.17	0.98	0.92	0.83	0.89	0.78	0.72	0.58	0.87	0.69
10	Ammonical Nitrogen as NH ₃	μmol/L	2.28	2.16	2.13	2.04	2.28	2.19	2.17	2.09	2.30	2.24	2.48	2.35
11	Phosphates as PO ₄	μmol/L	2.26	2.09	2.36	2.27	1.85	1.76	2.20	2.10	2.56	2.35	2.21	2.17
12	Total Nitrogen	μmol/L	6.56	6.15	6.19	5.75	5.67	5.38	6.23	5.97	5.83	5.49	6.54	6.10
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29386	30106	29874	30316	29740	30312	34812	35394	34938	35502	35728	36142
15	COD	mg/L	11.82	7.14	12.80	7.92	12.95	9.42	14.79	12.16	15.86	12.97	14.83	11.75
A Phytoplankton														
16.1	Chlorophyll	mg/m ₃	2.61	2.44	2.36	2.26	2.42	2.21	2.37	2.13	2.88	2.67	2.83	2.58
16.2	Phaeophytin	mg/m ₃	1.98	0.16	0.12	0.22	0.61	0.19	0.76	0.70	0.16	0.33	0.31	0.25
16.3	Cell Count	No.x10 ³ /L	172	114	168	126	182	116	156	102	172	118	180	118
16.4	Name of Group Number and name of group species of each group	--	Navicula sp. Melosira sp. Thalassiosira sp. Ankistrodesmus sp. Pinnularia sp. Gyrodinium sp.	Nitzschia sp. Synedra sp. Pediastrum sp. Closterium sp. Closterium sp.	Thalassionema sp. Pediastrum sp. Closterium sp. Coscinodiscus sp.	Navicula sp. Synedra sp. Rhizosolenia sp. Pleurosigma sp.	Thalassionema sp. Guinardia sp. Fragillaria sp. Pleurosigma sp.	Navicula sp. Melosira sp. Guinardia sp. Pleurosigma sp.	Melosira sp. Coscinodiscus sp. Pediastrum sp. Leptocyclus sp.	Navicula sp. Thalassionema sp. Guinardia sp. Pleurosigma sp.	Leptocyclus sp. Melosira sp. Pleurosigma sp. Chaetognathus sp.	Nitzschia sp. Guinardia sp. Rhizosolenia sp. Gyrodinium sp.	Leptocyclus sp. Melosira sp. Synedra sp. Chaetognathus sp. Guinardia sp.	Nitzschia sp. Rhizosolenia sp. Guinardia sp. Navicula sp.

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Sr. No.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			29/10/2021		30/11/2021		30/12/2021		31/01/2022		25/02/2022		31/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B	Zooplanktons													
17.1	Abundance (Population)	Nox103 /100m³	19		24		21		24		20		25	
17.2	Name of Group Number and name of group species of each group	--	Decapods Gastropodes Polychaetes		Polychaetes Bivalves Ostracodes Isopods		Copepods Isopods Chaetognaths Gastropods		Polychaetes Gastropods Decapods Ostracods		Copepods Polychaetes Amphipods		Copepods Polychaetes Gastropods Isopods	
17.3	Total Biomass	ml/100 m³	1.70		2.30		2.05		2.35		1.95		2.45	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ml	2370		2590		2620		2350		2410		2700	
18.2	Total Coliform	/ml	Present		Present		Present		Present		Present		Present	
18.3	E.coli	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.4	Enterococcus species	/ml	Present		Present		Present		Present		Present		Present	
18.5	Salmonella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.6	Shigella species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	
18.7	Vibrio species	/ml	Absent		Absent		Absent		Absent		Absent		Absent	

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



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4E. DUMP POND DISCHARGE WATER QUALITY MONITORING: -
Table-1.12: Dump Pond Water Quality Analysis Results for the Period: October, 2021 to March, 2022

Sr. No.	Parameters	Unit	26/11/2021	26/11/2021	25/02/2022	25/02/2022
			OLD COAL YARD	PET COCK	OLD COAL YARD	PET COCK
1	pH	--	8.85	8.75	8.69	8.71
2	Total Dissolved Solids	mg/L	2240	2192	2314	2034
3	Total Suspended Solids	mg/L	65	60	79	68
4	Turbidity	NTU	10.8	9.4	13.0	11.0
5	BOD (3 Days @ 27 °C)	mg/L	25	28	27	32
6	Dissolved Oxygen	mg/L	6.4	6.2	6.0	5.9
7	COD	mg/L	144	156	150	163
8	Salinity	ppt	1.95	1.90	1.57	1.60
9	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10	Total Hardness as CaCO ₃	mg/L	198	190	183	197
11	Fluoride as F	mg/L	0.56	0.50	0.46	0.54
12	Chloride as Cl	mg/L	889	865	872	886
13	Zinc as Zn	mg/L	0.52	0.39	0.58	0.45
14	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
15	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
16	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected

Detection Limit, Mercury as Hg: 0.00025 mg/L, Oil & Grease: 2.0 mg/L, Cadmium as Cd: 0.001 mg/L, Lead as Pb: 0.005 mg/L

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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4F. AMBIENT NOISE LEVEL MONITORING: -
Table-1.13: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	04/10/2021	01/11/2021	02/12/2021	03/01/2022	03/02/2022	03/03/2022
06:00-07:00	69.4	65.7	68.2	70.5	65.4	61.3
07:00-08:00	64.7	62.7	63.8	61.9	59.8	66.7
08:00-09:00	65.6	66.7	65.1	66.7	69.5	63.2
09:00-10:00	62.4	61.9	63.6	60.4	58.7	65.4
10:00-11:00	60.3	60.8	59.4	63.8	61.2	59.6
11:00-12:00	58.4	57.1	58.5	61.4	57.4	66.9
12:00-13:00	57.6	56.0	56.3	59.7	55.3	62.3
13:00-14:00	56.2	56.4	57.8	55.2	54.1	51.4
14:00-15:00	60.6	60.9	62.7	64.8	66.8	70.9
15:00-16:00	59.3	59.9	60.4	62.9	58.5	63.7
16:00-17:00	58.6	58.3	58.1	60.5	56.4	52.3
17:00-18:00	59.6	56.2	57.5	55.4	55.6	65.1
18:00-19:00	57.5	55.8	56.2	59.8	57.3	53.2
19:00-20:00	56.9	54.3	53.4	56.4	52.6	58.7
20:00-21:00	54.3	53.0	54.7	60.9	57.8	62.2
21:00-22:00	58.9	56.7	58.6	63.7	61.0	57.2
*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						

Table-1.14: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	04/10/2021 & 05/10/2021	01/11/2021 & 02/11/2021	02/12/2021 & 03/12/2021	03/01/2022 & 04/01/2022	03/02/2022 & 04/02/2022	03/03/2022 & 04/03/2022
22:00-23:00	50.5	52.3	51.2	53.6	48.7	45.7
23:00-00:00	54.7	55.5	54.7	56.5	52.4	50.6
00:00-01:00	52.4	51.6	52.8	51.7	54.3	61.8
01:00-02:00	55.4	55.2	56.1	58.9	51.2	57.4
02:00-03:00	50.0	50.3	49.4	52.4	55.8	47.3
03:00-04:00	52.3	53.9	54.5	58.2	53.1	62.5
04:00-05:00	54.5	55.4	56.3	59.1	54.5	58.9
05:00-06:00	56.3	55.0	53.6	55.2	56.8	51.8
*dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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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Table-1.15: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	11/10/2021	08/11/2021	09/12/2021	11/01/2022	10/02/2022	10/03/2022
06:00-07:00	70.8	69.7	70.5	68.7	67.2	65.2
07:00-08:00	70.7	68.3	67.2	65.3	63.1	59.5
08:00-09:00	68.4	67.5	69.6	71.4	73.5	66.6
09:00-10:00	66.9	64.5	65.2	63.6	61.7	54.3
10:00-11:00	62.6	61.5	63.7	66.9	65.4	68.9
11:00-12:00	57.6	58.1	58.9	57.5	60.3	58.5
12:00-13:00	60.2	59.4	60.3	64.8	62.5	67.1
13:00-14:00	63.4	60.8	62.5	65.4	66.3	60.3
14:00-15:00	55.5	57.4	56.1	59.2	58.4	62.4
15:00-16:00	62.5	59.5	61.3	66.7	63.0	59.7
16:00-17:00	57.3	60.7	62.8	64.6	61.2	69.5
17:00-18:00	63.3	64.3	64.2	68.3	70.5	73.1
18:00-19:00	56.1	60.2	59.1	62.7	57.4	61.8
19:00-20:00	57.8	56.7	57.8	61.5	60.2	65.7
20:00-21:00	62.0	52.9	53.6	56.8	55.3	60.5
21:00-22:00	56.2	54.6	55.5	60.2	59.1	53.1
*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						

Table-1.16: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	11/10/2021 & 12/10/2021	08/11/2021 & 09/11/2021	09/12/2021 & 10/12/2021	11/01/2022 & 12/01/2022	10/02/2022 & 11/02/2022	10/03/2022 & 11/03/2022
22:00-23:00	54.8	55.7	57.4	60.8	55.4	54.3
23:00-00:00	55.2	54.5	53.2	54.7	51.2	48.9
00:00-01:00	50.4	51.2	50.7	53.6	48.5	64.5
01:00-02:00	52.5	52.2	52.8	56.4	53.6	55.2
02:00-03:00	54.6	56.5	60.6	64.5	58.7	62.7
03:00-04:00	50.6	52.6	55.2	53.1	56.3	53.1
04:00-05:00	51.7	53.0	53.7	57.4	55.1	65.6
05:00-06:00	53.5	52.9	50.8	53.5	47.5	45.2
*dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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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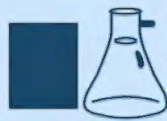


Table-1.17: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	14/10/2021	11/11/2021	13/12/2021	15/01/2022	14/02/2022	14/03/2022
06:00-07:00	68.9	58.8	57.6	55.4	53.5	61.4
07:00-08:00	52.7	54.2	54.1	58.7	55.1	64.6
08:00-09:00	54.0	55.3	57.2	56.5	52.6	60.2
09:00-10:00	58.4	58.0	59.6	64.7	59.3	63.5
10:00-11:00	61.3	59.3	60.1	58.2	56.9	57.1
11:00-12:00	54.2	56.7	58.4	62.6	63.8	55.6
12:00-13:00	53.4	54.1	55.2	53.5	51.4	61.6
13:00-14:00	55.2	56.0	60.3	63.3	62.5	58.2
14:00-15:00	59.4	59.8	58.7	55.9	53.1	59.4
15:00-16:00	63.4	61.4	63.8	66.4	68.9	61.7
16:00-17:00	64.5	63.1	64.6	62.2	59.6	58.3
17:00-18:00	66.3	65.9	66.7	70.5	66.3	62.7
18:00-19:00	60.5	61.5	63.2	61.6	60.8	66.0
19:00-20:00	58.6	56.8	59.4	63.8	59.1	55.1
20:00-21:00	63.5	60.5	62.3	65.4	64.4	57.6
21:00-22:00	65.2	63.5	64.1	62.5	60.5	66.8
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day Time shall mean from 6:00 am to 10:00 pm.						

Table-1.18: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	14/10/2021 & 15/10/2021	11/11/2021 & 12/11/2021	13/12/2021 & 14/12/2021	15/01/2022 & 16/01/2022	14/02/2022 & 15/02/2022	14/03/2022 & 15/03/2022
22:00-23:00	56.3	53.5	54.2	58.4	52.3	60.1
23:00-00:00	57.3	57.3	58.9	61.8	56.6	63.7
00:00-01:00	60.2	62.0	63.2	66.3	60.7	66.2
01:00-02:00	58.9	59.9	61.7	62.1	58.4	59.8
02:00-03:00	59.3	59.5	58.4	60.2	56.1	54.2
03:00-04:00	55.2	57.6	56.3	59.5	54.5	61.3
04:00-05:00	58.4	58.5	60.5	63.8	59.8	66.9
05:00-06:00	58.2	58.1	57.2	60.7	55.1	51.5
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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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Table-1.19: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	07/10/2021	04/11/2021	06/12/2021	06/01/2022	07/02/2022	07/03/2022
06:00-07:00	63.5	61.9	62.2	60.3	64.4	68.8
07:00-08:00	58.8	58.6	58.9	62.8	66.8	60.6
08:00-09:00	61.0	54.2	55.1	58.6	60.5	53.5
09:00-10:00	51.4	50.8	51.4	55.3	53.4	61.2
10:00-11:00	52.4	51.6	52.5	56.7	56.7	50.6
11:00-12:00	49.9	53.4	55.9	52.7	54.1	59.9
12:00-13:00	57.3	56.4	55.2	60.1	58.4	53.4
13:00-14:00	49.2	52.2	51.3	58.4	52.5	56.6
14:00-15:00	51.3	49.6	50.7	53.1	54.3	58.1
15:00-16:00	51.1	52.6	53.6	58.7	55.7	52.4
16:00-17:00	54.9	53.3	54.8	52.3	51.4	59.8
17:00-18:00	54.6	55.7	58.4	61.8	64.8	60.8
18:00-19:00	58.4	59.8	61.5	65.6	62.1	67.7
19:00-20:00	55.3	62.3	60.6	58.3	55.4	53.6
20:00-21:00	62.3	63.6	65.2	67.9	69.2	72.4
21:00-22:00	60.3	59.7	61.3	59.1	56.3	61.5
*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.						

Table-1.20: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	07/10/2021 & 08/10/2021	04/11/2021 & 05/11/2021	06/12/2021 & 07/12/2021	06/01/2022 & 07/01/2022	07/02/2022 & 08/02/2022	07/03/2022 & 08/03/2022
22:00-23:00	58.9	57.7	58.5	55.1	54.3	57.4
23:00-00:00	54.2	53.7	52.3	56.4	57.4	60.5
00:00-01:00	52.9	52.5	51.6	57.8	53.7	58.7
01:00-02:00	50.3	48.5	49.3	55.4	51.3	53.4
02:00-03:00	51.6	50.0	52.2	53.1	54.8	50.1
03:00-04:00	53.5	54.9	55.6	59.7	52.2	58.9
04:00-05:00	52.6	53.3	54.2	52.4	51.4	53.6
05:00-06:00	50.0	50.9	51.2	57.9	58.0	59.8
*dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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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Table-1.21: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	18/10/2021	15/11/2021	15/12/2021	17/01/2022	17/02/2022	17/03/2022
06:00-07:00	64.1	62.1	65.6	69.4	67.1	72.6
07:00-08:00	63.3	62.9	61.2	59.1	62.5	67.4
08:00-09:00	56.7	59.2	62.7	64.8	59.8	61.7
09:00-10:00	62.8	61.5	60.4	62.0	67.2	64.4
10:00-11:00	63.4	63.1	67.5	65.8	69.0	61.0
11:00-12:00	59.1	58.9	60.3	58.4	64.3	66.1
12:00-13:00	56.1	55.2	58.6	62.6	60.6	68.7
13:00-14:00	57.8	57.0	55.4	56.2	58.4	50.8
14:00-15:00	62.6	61.9	63.8	66.7	61.9	60.7
15:00-16:00	63.6	64.9	62.9	60.1	57.4	55.2
16:00-17:00	59.3	60.4	59.2	63.9	61.5	57.5
17:00-18:00	58.3	59.5	59.6	57.6	56.1	63.6
18:00-19:00	56.0	55.3	54.2	56.4	59.9	64.2
19:00-20:00	59.5	59.0	60.5	66.2	65.3	60.0
20:00-21:00	62.4	61.8	64.7	69.5	62.4	69.8
21:00-22:00	61.2	60.5	61.4	64.6	68.8	63.3
#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.						

Table-1.22: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	18/10/2021 & 19/10/2021	15/11/2021 & 16/11/2021	15/12/2021 & 16/12/2021	17/01/2022 & 18/01/2022	17/02/2022 & 18/02/2022	17/03/2022 & 18/03/2022
22:00-23:00	59.4	54.3	56.1	53.2	50.6	55.3
23:00-00:00	56.5	52.6	51.4	50.1	54.2	52.4
00:00-01:00	51.3	49.3	51.6	54.9	56.8	60.6
01:00-02:00	53.6	53.6	54.5	58.7	57.4	56.1
02:00-03:00	52.3	54.2	52.8	55.4	52.5	53.4
03:00-04:00	56.2	55.6	57.3	60.2	61.3	54.6
04:00-05:00	56.3	58.0	58.7	54.1	53.7	50.8
05:00-06:00	54.5	55.2	56.3	59.5	58.4	54.3
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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.

Note: The Noise Level of Hazira Village is compare with the Industrial area Norms as Hazira Village is Surround By Numbers of industries.



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Table-1.23: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Hazira Village

Sampling Location	6 - Suvali Village					
Longitude Latitude	N 21° 08.55' E 72° 38.24'					
Date of Monitoring	21/10/2021	18/11/2021	20/12/2021	20/01/2022	21/02/2022	21/03/2022
06:00-07:00	48.6	48.9	50.2	52.3	48.9	55.7
07:00-08:00	50.4	51.4	53.8	51.7	55.6	58.4
08:00-09:00	51.2	50.2	49.4	50.6	59.9	56.3
09:00-10:00	50.3	50.9	51.3	53.4	55.5	50.1
10:00-11:00	48.5	49.8	49.6	47.5	48.4	46.7
11:00-12:00	45.6	46.9	48.7	50.3	51.6	47.3
12:00-13:00	49.2	51.2	53.1	51.2	50.8	53.8
13:00-14:00	47.2	46.8	47.6	49.8	47.6	51.2
14:00-15:00	48.3	48.3	50.5	52.4	53.1	57.4
15:00-16:00	47.1	48.7	46.2	48.3	49.3	45.5
16:00-17:00	52.2	50.3	52.4	51.1	47.4	55.3
17:00-18:00	50.2	48.4	49.3	52.6	50.5	53.3
18:00-19:00	53.3	51.5	53.3	52.7	51.4	56.4
19:00-20:00	52.6	51.7	50.0	49.2	47.1	51.3
20:00-21:00	49.9	49.2	48.5	51.6	49.8	46.5
21:00-22:00	51.5	51.3	53.7	53.1	56.6	58.6
#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.						

Table-1.24: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October, 2021 to March, 2022 At Hazira Village

Sampling Location	6 - Suvali Village					
Longitude Latitude	N 21° 08.55' E 72° 38.24'					
Date of Monitoring	21/10/2021 & 22/10/2021	18/11/2021 & 19/11/2021	20/12/2021 & 21/12/2021	20/01/2022 & 21/01/2022	21/02/2022 & 22/02/2022	21/03/2022 & 22/03/2022
22:00-23:00	48.2	49.8	50.3	48.1	49.8	47.9
23:00-00:00	46.5	45.7	47.5	50.0	52.1	49.4
00:00-01:00	47.3	46.3	48.3	46.8	45.7	44.2
01:00-02:00	46.2	46.2	45.1	47.2	44.6	46.8
02:00-03:00	45.7	44.3	46.8	48.7	49.5	45.2
03:00-04:00	44.5	44.9	45.6	44.2	47.9	43.1
04:00-05:00	46.3	46.1	46.9	46.6	48.1	49.7
05:00-06:00	48.1	47.3	46.2	45.3	49.6	44.5
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
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.

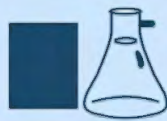


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4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table-1.25: DG Sets Stack Monitoring Results for the period: October, 2021 to March, 2022

Table-1.25 (a): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
			25/11/2021	25/02/2022	25/11/2021	25/02/2022	25/11/2021	25/02/2022
1	Particulate Matter	mg/Nm ³	29.41	26.33	25.35	23.76	27.55	24.56
2	Sulphur Dioxide	ppm	4.53	5.34	6.83	4.52	7.75	6.46
3	Oxide of Nitrogen	ppm	36.68	34.35	34.78	31.51	38.7	36.4
4	Carbon Monoxide (CO)	mg/m ³	17.92	22.90	15.75	20.91	17.87	23.90
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.25 (b): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	SS-1 LT DG -320 KVA		SS3 -DG -200 KVA		LT Phase -1 (625 KVA)	
			25/11/2021	25/02/2022	25/11/2021	25/02/2022	25/11/2021	25/02/2022
1	Particulate Matter	mg/Nm ³	25.65	22.45	26.33	28.33	32.41	24.51
2	Sulphur Dioxide	ppm	7.97	6.48	6.80	4.64	8.85	7.12
3	Oxide of Nitrogen	ppm	32.46	35.63	38.47	34.59	39.43	35.41
4	Carbon Monoxide (CO)	mg/m ³	16.03	14.89	14.89	12.60	12.60	20.61
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.25 (c): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	LT Phase -2 (750 KVA)		ER-1 (100 KVA)	
			25/11/2021	25/02/2022	25/11/2021	25/02/2022
1	Particulate Matter	mg/Nm ³	36.34	32.45	30.23	28.42
2	Sulphur Dioxide	ppm	5.33	5.21	7.51	5.23
3	Oxide of Nitrogen	ppm	34.48	37.6	33.76	37.55
4	Carbon Monoxide (CO)	mg/m ³	20.61	22.90	9.16	11.45
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected



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Table-1.25 (d): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
			25/11/2021	25/02/2022	25/11/2021	25/02/2022
1	Particulate Matter	mg/Nm ³	20.37	22.66	22.61	19.55
2	Sulphur Dioxide	ppm	5.84	6.44	6.26	7.00
3	Oxide of Nitrogen	ppm	30.18	28.65	34.59	32.42
4	Carbon Monoxide (CO)	mg/m ³	11.45	16.03	13.74	13.74
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.26: DG Sets Noise Level Monitoring Results for the period: October, 2021 to March, 2022

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
		25/11/2021	25/02/2022
1.	DG SET TOYO DENKI - 1	66.8	67.4
2.	DG SET TOYO DENKI - 2	65.4	63.2
3.	DG SET TOYO DENKI -3	63.1	66.5
4.	SS-1 LT DG -320 KVA	66.5	68.3
5.	SS3 -DG -200 KVA	64.4	62.5
6.	LT PHASE -1 (625 KVA)	64.2	58.4
7.	LT PHASE -2 (750 KVA)	60.3	60.1
8.	ER-1 (100 KVA)	60.8	66.7
9.	NDG BUILDING (380 KVA)	63.8	58.5
10.	CUSTOM BUILDING (320 KVA)	62.2	61.5


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4H. SEA SEDIMENT QUALITY MONITORING: -
Table-1.27: Sea Sediment Quality Results of CB2 South End towards Landside for the period: October, 2021 to March, 2022

Sr. No.	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N 21° 5'1.92", E 72°37'56.58")					
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Organic Matter	%	0.43	0.39	0.41	0.38	0.49	0.43
2	Phosphorus as P	µg/g	676	592	632	579	618	639
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.96	4.87	4.98	4.72	4.86	4.98
5.2	Total Chromium as Cr ⁺³	µg/g	132	109	132	116	124	135
5.3	Manganese as Mn	µg/g	705	653	793	613	701	698
5.4	Iron as Fe	%	4.79	4.62	4.72	4.87	4.79	4.83
5.5	Nickel as Ni	µg/g	43.86	39.75	49.83	55.29	42.68	55.98
5.6	Copper as Cu	µg/g	52.37	41.88	37.30	46.13	39.13	43.75
5.7	Zinc as Zn	µg/g	109	113	128	107	132	114
5.8	Lead as Pb	µg/g	3.09	2.58	2.13	1.69	2.17	1.93
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	MacroBenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Gastropods Brachyurans	Polychaetes Gastropods Crustaceans	Polychaetes Gastropods Bivalves	Branchyuran s Polychaetes Crustaceans	Branchyuran s Polychaetes Crustaceans	Gastropods Polychaetes Crustaceans Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns Nematodes	Foraminifera ns	Nematodes	Nematodes	Nematodes	----
6.3	Population	No./m ²	322	381	439	377	382	441

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


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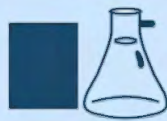


Table-1.28: Sea Sediment Quality Results of MP1 West End towards Channel of Sea Basin for the period: October, 2021 to March, 2022

Sr. No.	PARAMETERS	UNIT	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'9.78", E 72° 37'24.48")					
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Organic Matter	%	0.43	0.37	0.40	0.35	0.43	0.42
2	Phosphorus as P	µg/g	678	602	629	568	632	593
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.92	4.81	4.90	4.72	4.89	4.75
5.2	Total Chromium as Cr ⁺³	µg/g	128	112	132	109	132	123
5.3	Manganese as Mn	µg/g	703	678	693	593	718	678
5.4	Iron as Fe	%	4.85	4.62	4.75	4.82	4.73	4.81
5.5	Nickel as Ni	µg/g	42.76	37.98	48.10	51.74	41.95	52.90
5.6	Copper as Cu	µg/g	47.10	42.61	35.86	43.29	37.46	39.17
5.7	Zinc as Zn	µg/g	113	129	119	127	148	125
5.8	Lead as Pb	µg/g	2.57	2.75	2.28	1.87	2.16	1.75
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Gastropods Crustaceans	Polychaetes Gastropods Crustaceans	Crustaceans Polychaetes Bivalves	Polychaetes Amphipods Crustaceans	Polychaetes Amphipods Crustaceans Bivalves	Polychaetes Bivalves Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	Foraminifera ns	----	Nematodes Foraminifera ns	Nematodes	Foraminifera ns
6.3	Population	No./m ²	351	293	353	412	441	382

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



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Table-1.29: Sea Sediment Quality Results of CB1 End towards Channel for the period: October, 2021 to March, 2022

Sr. No.	PARAMETERS	UNIT	CB1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")					
			29/10/2021	30/11/2021	30/12/2021	31/01/2022	25/02/2022	31/03/2022
1	Organic Matter	%	0.41	0.39	0.43	0.40	0.38	0.41
2	Phosphorus as P	µg/g	629	587	640	596	693	668
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.87	4.73	4.89	4.85	4.81	4.87
5.2	Total Chromium as Cr ⁺³	µg/g	120	109	113	128	139	119
5.3	Manganese as Mn	µg/g	638	589	634	554	716	627
5.4	Iron as Fe	%	4.69	4.76	4.73	4.83	4.75	4.93
5.5	Nickel as Ni	µg/g	41.73	45.83	51.39	43.97	49.36	57.86
5.6	Copper as Cu	µg/g	55.84	51.29	43.28	52.18	39.87	42.35
5.7	Zinc as Zn	µg/g	113	102	117	124	133	119
5.8	Lead as Pb	µg/g	2.73	2.64	2.24	1.83	2.19	1.87
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Gastropods	Polychaetes Crustaceans Decapods	Polychaetes Crustaceans Bivalves	Branchyuran s Polychaetes Crustaceans	Branchyuran s Polychaetes Crustaceans	Polychaetes Bivalves Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns Nematodes	Nematodes	Foraminifera ns	Nematodes Foraminifera ns	----	----
6.3	Population	No./m ²	293	351	382	441	353	380

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



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4I. SOIL QUALITY MONITROING: -
Table-1.30A: Soil Quality Testing Results for the period: October, 2021 to March, 2022

SR. NO.	PARAMETERS	UNIT	NEAR PORT GATE NO. 2	
			30/12/2021	31/03/2022
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	1.7	1.5
3	Coarse Sand	%	8.3	7.5
4	Medium Sand	%	22	25
5	Fine Sand	%	43	40
6	Total Sand	%	75	74
7	Silt + Clay	%	25	26
8	pH (1:5)	--	8.61	8.65
9	Electricity Conductivity	µmho/cm	1752	1827
10	Alkali matter	mg/kg	534	624
11	Cation Exchange Capacity	meq/100 gm	14.29	13.68
12	Sodium Absorption Ratio	--	10.36	11.25
13	Organic Matter	mg/kg	0.59	0.54
14	Available Nitrogen	meq/100 gm	0.74	0.63
15	Available Potassium	mg/kg	7.15	8.79
16	Available Phosphorus	mg/kg	0.82	0.97
17	Available Sodium	mg/kg	9.94	11.83
18	Permeability	cm/sec	1.55×10^{-7}	1.58×10^{-7}

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


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Table-1.30B: Soil Quality Testing Results for the period: October, 2021 to March, 2022

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	
			30/12/2021	31/03/2022
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	2.5	2.4
3	Coarse Sand	%	6.5	7.6
4	Medium Sand	%	23	21
5	Fine Sand	%	40	40
6	Total Sand	%	72	71
7	Silt + Clay	%	28	29
8	pH (1:5)	--	8.79	8.71
9	Electricity Conductivity	µmho/cm	2053	1984
10	Alkali matter	mg/kg	538	612
11	Cation Exchange Capacity	meq/100 gm	11.14	12.86
12	Sodium Absorption Ratio	--	10.16	11.74
13	Organic Matter	mg/kg	0.45	0.41
14	Available Nitrogen	meq/100 gm	0.62	0.58
15	Available Potassium	mg/kg	7.38	9.12
16	Available Phosphorus	mg/kg	0.67	0.86
17	Available Sodium	mg/kg	10.92	13.92
18	Permeability	cm/sec	1.1×10^{-7}	1.2×10^{-7}

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



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	Adani Hazira Port Limited	From: October 2021 to March 2022
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ANNEXURE-5

Photographs of Air Pollution Control Measures and Green Belt Area



Closed Conveyor System



Wind Shield



Dust Suppression System Installed in Conveyor System



**Mist Canyon
for Dust
Suppression**



Coal Chute point having water Sprinkling System



Water Sprinklers installed for Dust Suppression



Road Sweeping Machines

	Adani Hazira Port Limited	From: October 2021 to March 2022
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Dry Bulk Cargo Covered with Tarpaulin to avoid dust generation



Coal Transporting Trucks Covered with Tarpaulin to avoid dust generation

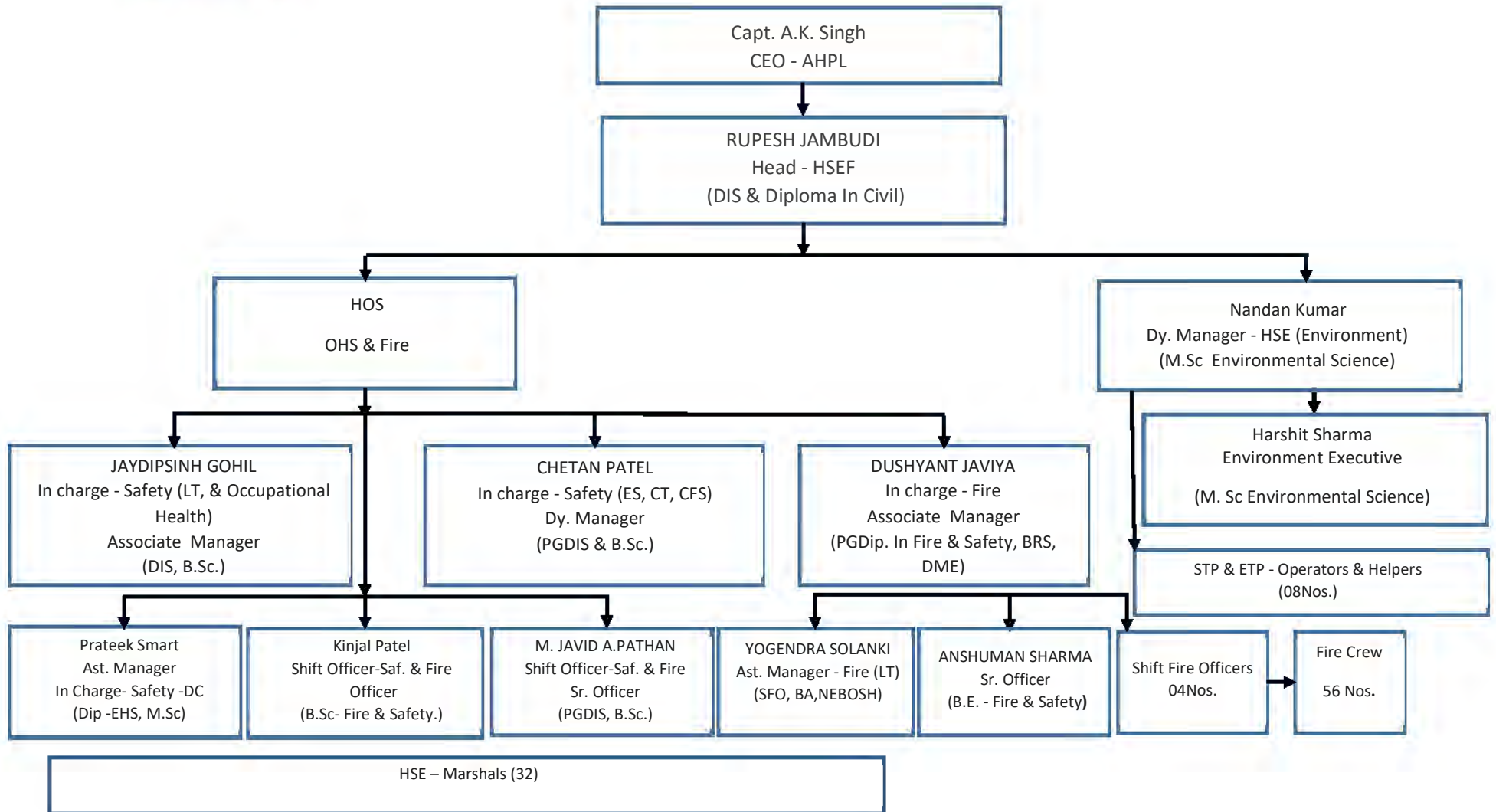
Recent Photographs of Green Belt Area



	Adani Hazira Port Limited	From: October 2021 to March 2022
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ANNEXURE-6

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL



Annexure 7**Details of Environment Budget & Expenditure of FY 2021-22**

	Adani Hazira Port Limited	From: October 2021 to March 2022
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Environment Budget & Expenditure of FY 2021-22

Sr No	Activities	Budget for FY 2021-22	Expenditure
		(In Lacs INR)	(In Lacs INR)
1	Environmental Study/Audit/Survey/Consultancy Services	50	25.78
2	Legal and Statutory Charges	15	19.75
3	Environmental Monitoring Services	22	17.07
4	Hazardous Waste Management	33	6.97
5	Horticulture Development – Greenery and Plantation	160	137.58
6	O&M of Sewage Treatment Plant and Effluent Treatment Plant	18	13.91
7	Disposal of Bio medical Waste	1.8	1.92
8	Water Sprinkling for dust suppression	250	202.52
9	Miscellaneous Environmental Initiatives and Salary of Environmental Professionals	20	17.00
10	ISO 14001:2015 (EMS) audit, certification, and internal audit training	2	1.2
Total		571.80	443.70

Expenditure of last three Years

Year	Budget	Expenditure (In Lacs INR)
2018-19	270.69	1344.71
2019-20	363.80	326.76
2020-21	479.63	418.11

	Adani Hazira Port Limited	From: October 2021 to March 2022
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Annexure 8

Copy of Recent CTE



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

"Consent to Establish-Amendment"
(CTE-115984)

BY R.P.A.D,

Date: 04/12/2021

NO: GPCB/CCA-SRT-1314(10)/ID_35352/607890

To,

M/s. Adani Hazira Port Ltd.

Plot No: Near Hazira LNG Pvt. Ltd.,

Hazira-394270,

Tal: Chorasi, Dist: Surat.

Sub: Consent to Establish (NOC)-Amendment under Section 25 of Water Act 1974 and
Section 21 of Air Act 1981

Ref: 1) Your application for CTE-Amendment no. 198694_ received Dated. 10-09-2021.

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-Amendment** for **enhancement of existing production capacity and New D.G.Set (750 KVA, 200 KVA) in existing** industrial plant/activities located at Plot No: Near Hazira LNG Pvt. Ltd., Hazira-394270. Tal: Chorasi, Dist: Surat. for the manufacturing of the following items:-

Sr. No.	Product	Quantity as per CCA	Proposed quantity as per CTE-Amendment quantity	Total quantity after CTE-Amendment
Multi Cargo Port				
1	Containers	36 MMTPA	Nil	36 MMTPA
2	Coal - Local & Others	10.40 MMTPA	25.6 MMTPA	36 MMTPA
3	Steel	6.20 MMTPA	0.50 MMTPA	6.70 MMTPA
4	Other Dry Bulk			
5	Automobiles	0.1 MMTPA	0.3 MMTPA	0.4 MMTPA
6	Liquid Bulk	5.0 MMTPA	Nil	5.0 MMTPA
Total		57.7 MMTPA	26.4 MMTPA	84.1 MMTPA

SUBJECT TO THE FOLLOWING CONDITIONS: -

1. The validity of this order will be up to years i.e. 09-09-2028.
2. Unit shall comply with Solid Fuel Guidelines as well as Coal handling guidelines of the Board.
3. Industry shall manage Solid Wastes generated from industrial activities as per Solid Waste Management Rules-2016 (solid waste as defined in Rule-3(46)).

4. To do retrofitting at D.G.Set for emission control and unit shall submit compliance with respect to Board circular No. GPCB/Air Action-03(1)(E)/599145/, dated: 27/08/2021 in the matter of NGT O.A. No. 681/2018.
5. You shall strictly comply with condition of Environmental Clearance issued by MOEF vide order no: 11-150/2010-IA-III, dated:- 23/06/2020.
6. You shall strictly comply with condition of Environmental Clearance issued by MOEF vide order no: 11-150/2010-IA-III, dated:- 03/05/2013.
7. You shall strictly comply with condition of Environmental Clearance issued by MOEF vide order no: 11-150/2010-IA-III, dated:- 29/09/2020.

CONDITIONS UNDER AIR ACT 1981:

1. The following shall be used as fuel in D.G. Sets (Stand by) and HWG respectively.

Sr. No.	Fuel	Existing	Proposed	Total
1)	Diesel	28678 lit/Day	4920 lit/day	33596 lit/day
2)	FO/HSD	2208 lit/day	----	2208 lit/day

2. The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.
3. The flue gas emission through D.G. Sets (Stand by) and HWG stack shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Parameters	Permissible Limit
1	DG Sets - 3 Nos. (Stand by - 1500 KVA each)	30	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
2 & 3	DG Sets - 2 Nos. (325 KVA & 100 KVA) Stand by	11 (Each)	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
4 to 6	DG Sets - 3 Nos. (Stand by) (625 KVA, 380 KVA, 200 KVA)	11 (Each)	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
7	2 Nos. Hot Water Generated (HWG)(4,00,000 Kcal/Hr. each)	30	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

8	DG Sets - 1 Nos. (750 KVA) Stand by, Proposed	11	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
9	DG Sets - 1 Nos. (200 KVA) Stand by, Proposed	11	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm

- There shall be no process emission from the manufacturing process as well as any other ancillary process.
- Industry shall take adequate measure to Control dusting due to storage, transportation & handling of Coal & fly ash.
- Industry shall comply with Coal handling guideline of the Board.
- Industry shall comply with fly ash notification 1999 as amended from time to time.
- Stack monitoring facilities like port hole, platform/ladder etc., shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.
- The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10 meters from the sources (other than the stack/vent) shall not exceed the following levels.

PARAMETERS	PERMISSIBLE LIMIT
PM 10	100 Microgram/m ³
PM 2.5	60 Microgram/m ³
SO ₂	80 Microgram/m ³
NO _x	80 Microgram/m ³

- The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

11. D.G. Sets Conditions

The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G.Sets standards:-

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

- The minimum height of stack to be provided with each of the generator set shall be $H = h + 0.2 (KVA)^{1/2}$, where H = Total stack height in meter, h = height of the building in meters where or by the side of which the generator set is installed.
- Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it

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may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.

- d) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25,dB (A).
- e) All efforts shall be made to bring down the noise level due to the D.G.Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- f) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.
- g) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use

CONDITIONS UNDER HAZARDOUS WASTE RULES:

- 12. Applicant shall have to comply with provisions of Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
- 13. The applicant shall obtain membership of common TSDF site for disposal of Hazardous waste as categorized in Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
- 14. The applicant shall obtain membership of common Hazardous Waste incinerator for disposal of incinerable waste.
- 15. The applicant shall provide temporary storage facilities for each type of Hazardous Waste as per Hazardous and other Waste (Management and Trans Boundary Movement) Rules 2016.
- 16. The applicant shall obtain registration/authorization for recycling/reprocessing any hazardous waste before procuring material/starting production as per HW Rules 2016.
- 17. The applicant shall obtain authorization for recovery/reuses of any hazardous waste material as per HW Rules 2016.

GENERAL CONDITION :

- 18. Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 3 meters width is developed.
- 19. 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.
- 20. In case of change of ownership/management the name and address of the new owners /partners/ directors/ proprietor should immediately be intimated to the Board.
- 21. 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.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

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Website : www.gpcb.gov.in

22. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (whichever applicable).
23. 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)
24. Applicant is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
25. If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property .in that case they are obliged to pay the compensation as determined by the competent authority.

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

**(Smt S. V. Bhargava)
Unit Head, Surat**

	Adani Hazira Port Limited	From: October 2021 to March 2022
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Annexure 9

Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During compliance period from April 2021 to September 2021

	Adani Hazira Port Limited	From: October 2021 to March 2022
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**Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period
October 2021 to March 2022**

Detail of Wastes Collection & Disposed Off From Vessels				
SR No.	Date	Vessel Name	Party Name	Quantity (CBM)
1	01.10.2021	MT HAKUBA GALAXY	HARISH A. PANDYA	1.200 CBM
2	13.10.2021	TUG COASTAL COMMANDOR	HARISH A. PANDYA	1.056 CBM
3	14.10.2021	MV.CEYLON PRINCESS	HARISH A. PANDYA	4.900 CBM
4	21.10.2021	MT.MARITIME POLARIS	HARISH A. PANDYA	3.000 CBM
5	26.02.2022	MT. DESH GARIMA	HARISH A. PANDYA	3.000 CBM
6	07.05.2022	MT.ARCTOS	HARISH A. PANDYA	2.740 CBM
7	18.05.2022	MT DVINA GULF	HARISH A. PANDYA	4.000 CBM
8	22.05.2022	MV.ANGLO ALEXANDRIA	HARISH A. PANDYA	3.000 CBM