



Ports and
Logistics

AHPL/MoEF&CC/2023-24/03

Date: 31.05.2023

To
Deputy Director/Scientist C
Integrated Regional Office (IRO) -Gandhinagar
Ministry of Environment Forest & Climate Change
(Govt. of India)
Email: iro.gandhingr-mefcc@gov.in, ecompliance-guj@gov.in

Ref.: 1). Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013.
2). CRZ Recommendations issued by Forests & Environment Department, Govt. of Gujarat to MoEF & CC, New Delhi vide letter No.: ENV-10-2012-30-E dated 11th May, 2012.

Sub.: Six Monthly Compliance Report of conditions stipulated in Environment and CRZ Clearance for the development of Multi Cargo Port with Supporting Utilities and Infrastructure Facilities at Hazira, Surat, Gujarat for the period: **October 2022 to March 2023**

Dear Sir,

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters regarding Environment Clearance and Coastal Regulation Zone Clearance of AHPL for the compliance period of **October 2022 to March 2023**.

For, **M/s Adani Hazira Port Limited,**

(Niraj Bansal)
Authorized Signatory
Encl.: As above

Cc to:

1. The Director (Monitoring - IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
2. The Director, Forests & Environment Department, Block - 14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat - 382 010.
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opp. VMC Ward Office No.:10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector - 10A, Gandhinagar-382 010 (Gujarat)
5. The Regional Officer, Gujarat Pollution Control Board, Belgium Square, Ring Road, Surat-395003, (Gujarat).

Adani Hazira Port Ltd.
At & Po Hazira
Choryashi
Surat 394 270
Gujarat, India
CIN: U4509GJ2009PTCO58789

Tel +91 261 220 7780
Fax +91 261 220 7777
info@adani.com
www.adani.com

Registered office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad-382421, Gujarat, India



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 2022 to March 2023

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 11 th May, 2012.

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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 Compliance Period April 2022 to September 2022
3	Compliance Status of Environmental Management Plan As Per Integrated EIA Report - September, 2012.
4	Environmental Monitoring / Analysis Results For The Period From April 2022 to September 2022
5	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018 Certificates
6	Photographs of Air Pollution Control Measures and Green Belt area
7	Organogram Of AHPL - Environment Management Cell.
8	Environmental Budget And Expenditure of Compliance Period
9	Copy of Public Liability Insurance Policy
10	Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party during period October 2022 to March 2023

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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 as on 31.03.2023																					
6.	Specific Conditions																						
i.	<p>"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>	<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>Along with the Six Monthly Compliance Report October 2021-March 2022 period. Email dated 31.05.2022</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	Along with the Six Monthly Compliance Report October 2021-March 2022 period. Email dated 31.05.2022
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ii.	<p>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</p>	<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</p>																					

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
	the six-monthly reports.	<p>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 2023 total 186 out of 223 on roll employees are from Gujarat.</p> <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 Annexure-1</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 Appendix-1.</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>A study on Shoreline Change Assessment in 10 km area around the port has been carried out by Gujarat Institute of Desert Ecology. Study also 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. The report has been submitted with last Six monthly EC compliance report submitted on 30.11.2022 through E mail.</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 been 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 24th March 2023. <p><i>Photographs of Joint oil Spill Mock drill</i></p>

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
		 <p>EMP and DMP shall</p> <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	<p>Complied.</p> <ul style="list-style-type: none"> CSR activities are carried out by Adani Foundation in four verticals i.e.: - (1) Education,

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023																												
	the CSR shall be submitted to the ministry.	<p>(2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.</p> <ul style="list-style-type: none">Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six-monthly compliance reports.The budget of current Financial Year for CSR activities and expenditure in the compliance period is as under- <table><tr><th>Sr. No.</th><th>Vertical</th><th>Approved Budget for FY 2022-23 (In Lacs Rupees)</th><th>Utilization amount (In Lacs Rupees)</th></tr><tr><td>1</td><td>Education</td><td>143.05</td><td>125.02</td></tr><tr><td>2</td><td>Health</td><td>27.58</td><td>26.93</td></tr><tr><td>3</td><td>Sustainable Livelihood Development</td><td>186.56</td><td>147.05</td></tr><tr><td>4</td><td>Civil Infrastructure Development</td><td>88.16</td><td>72.95</td></tr><tr><td>5</td><td>General Management and Administration for CSR activities</td><td>31.75</td><td>27.11</td></tr><tr><td colspan="2">Total</td><td>477.1</td><td>399.06</td></tr></table> <ul style="list-style-type: none">The status of the CSR activities carried out during the Compliance Period is enclosed as Annexure-2.	Sr. No.	Vertical	Approved Budget for FY 2022-23 (In Lacs Rupees)	Utilization amount (In Lacs Rupees)	1	Education	143.05	125.02	2	Health	27.58	26.93	3	Sustainable Livelihood Development	186.56	147.05	4	Civil Infrastructure Development	88.16	72.95	5	General Management and Administration for CSR activities	31.75	27.11	Total		477.1	399.06
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vii.	All the recommendation of the EMP and DMP shall be complied within letter and spirit.	<p>Complied.</p> <ul style="list-style-type: none">Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as Annexure-3AHPL is an ISO 14001: 2015, ISO 9001:2015, ISO 48001: 2018 and ISO 50001: 2018 certified company. Certificates are attached as Annexure 5AHPL has developed and implemented DMP. Regular mock drill to ensure the compliance and preparedness is being done. <p>Last Mock Drill (On Site) was conducted on: – 30.03.2023, the scenario was In Close Godown#3, Gate-08, 01 Rigger fainted During de-hooking activity of PTA Bag loading/unloading operation</p> <ul style="list-style-type: none">Last Update of ERP & DMP: 28.03.2022 and the updated copy was submitted to Joint Director, Industrial Health and Safety, Surat on 20.06.2022Copy of the Schematic of ERP & DMP communication flow is submitted along with the six-monthly compliance report dated 19.05.2017. The Copy of updated ERP & DMP was submitted to the authorities along with Six-monthly Compliance report as Annexure 5 through e mail dated 28.05.2021.																												
viii.	Periodical monitoring of the sea water quality at the outlet shall be carried out to check the discharge is meeting the standard and not causing any impact to marine life.	<p>Complied.</p> <ul style="list-style-type: none">Marine water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory).The sea surface and bottom water quality is being monitored periodically. The trends with respect to baseline is being observed to ensure that the quality of sea water is not changing significantly.Monitoring of sea water quality at three locations is being done on monthly basis. Copy of the Sea Water Quality Monitoring /Analysis Reports for the period of October 2022 to March 2023 is enclosed as Annexure-4D.																												

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		<p>The Summary of Sea Surface and bottom water quality for key physico chemical parameters are as under-</p> <table><tr><th rowspan="2">SR.NO.</th><th rowspan="2">TEST PARAMETERS</th><th rowspan="2">UNIT</th><th colspan="3">Overall</th></tr><tr><th>Min</th><th>Max</th><th>Avg</th></tr><tr><td>1</td><td>pH</td><td>--</td><td>8.05</td><td>8.27</td><td>8.16</td></tr><tr><td>2</td><td>Temperature</td><td>°C</td><td>29.4</td><td>30.2</td><td>29.7</td></tr><tr><td>3</td><td>Total Suspended Solids</td><td>mg/L</td><td>139</td><td>187</td><td>160</td></tr><tr><td>4</td><td>BOD (3 Days @ 27 °C)</td><td>mg/L</td><td>3.96</td><td>6.1</td><td>4.92</td></tr><tr><td>5</td><td>Dissolved Oxygen</td><td>mg/L</td><td>5.4</td><td>5.85</td><td>5.66</td></tr><tr><td>6</td><td>Salinity</td><td>ppt</td><td>33.14</td><td>34.98</td><td>33.97</td></tr><tr><td>7</td><td>Oil & Grease</td><td>mg/L</td><td>ND*</td><td>ND*</td><td>ND*</td></tr><tr><td>8</td><td>Nitrate as NO3</td><td>µmol/L</td><td>3.4</td><td>7.26</td><td>4.39</td></tr><tr><td>9</td><td>Nitrite as NO2</td><td>µmol/L</td><td>0.2</td><td>0.94</td><td>0.48</td></tr><tr><td>10</td><td>Ammoniacal Nitrogen as NH3</td><td>µmol/L</td><td>2.16</td><td>3.18</td><td>2.48</td></tr><tr><td>11</td><td>Phosphates as PO4</td><td>µmol/L</td><td>1.63</td><td>2.75</td><td>2.19</td></tr><tr><td>12</td><td>Total Nitrogen</td><td>µmol/L</td><td>5.90</td><td>11.46</td><td>7.48</td></tr><tr><td>13</td><td>Petroleum Hydrocarbon</td><td>µg/L</td><td>ND*</td><td>ND*</td><td>ND*</td></tr><tr><td>14</td><td>Total Dissolved Solids</td><td>mg/L</td><td>34418</td><td>36128</td><td>35155</td></tr><tr><td>15</td><td>COD</td><td>mg/L</td><td>12</td><td>23.20</td><td>18.11</td></tr></table> <p style="text-align: right;">*ND: Not deductible</p> <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.	SR.NO.	TEST PARAMETERS	UNIT	Overall			Min	Max	Avg	1	pH	--	8.05	8.27	8.16	2	Temperature	°C	29.4	30.2	29.7	3	Total Suspended Solids	mg/L	139	187	160	4	BOD (3 Days @ 27 °C)	mg/L	3.96	6.1	4.92	5	Dissolved Oxygen	mg/L	5.4	5.85	5.66	6	Salinity	ppt	33.14	34.98	33.97	7	Oil & Grease	mg/L	ND*	ND*	ND*	8	Nitrate as NO3	µmol/L	3.4	7.26	4.39	9	Nitrite as NO2	µmol/L	0.2	0.94	0.48	10	Ammoniacal Nitrogen as NH3	µmol/L	2.16	3.18	2.48	11	Phosphates as PO4	µmol/L	1.63	2.75	2.19	12	Total Nitrogen	µmol/L	5.90	11.46	7.48	13	Petroleum Hydrocarbon	µg/L	ND*	ND*	ND*	14	Total Dissolved Solids	mg/L	34418	36128	35155	15	COD	mg/L	12	23.20	18.11
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ix.	Transport of cargo shall in closed system and dust control viz. water sprinkler, along conveyor and transfer points shall be provided.	<p>Complied.</p> <p>Following control measures are in place and effectively working at port to control fugitive dust:-</p> <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 and other dry cargo operation area3. 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,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, and10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.79 ha within the port premises.																																																																																																			

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
		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 6</u>
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.	Complied. <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.	Complied. <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 1.88 Cr is spent during last six years on various activities specifically for fishermen community in and around the port area. Apart from this, our Foundation team is closely working with Children of Halpati community for enrollment in school and mainstreaming them.
xii.	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Complied. <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.	Complied. <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-7</u>
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: 2022-23 is INR 550.04 Lacs and total expenditure during the compliance Period is INR 471.69 Lakhs regarding environment management. Detail of the environment budget of the current FY and expenditure incurred during compliance period is enclosed as <u>Annexure-8</u>

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		<ul style="list-style-type: none">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.	<p>Complied.</p> <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) on monthly basis at 3 locations in Basin area.Reports show that there are no impacts on the water quality. Copy of the water monitoring reports for the period, October 2022 to March 2023 is enclosed as Annexure-4B, 4C, 4D for ground, surface, and marine water quality, respectively. <p>Summary of Ground Water Quality-Open Well & Bore Well (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</td><td>4</td><td>2.75</td></tr><tr><td>2</td><td>Odour</td><td>--</td><td colspan="3">Agreeable</td></tr><tr><td>3</td><td>Taste</td><td>--</td><td colspan="3">Agreeable</td></tr><tr><td>4</td><td>Turbidity</td><td>NTU</td><td>0.11</td><td>0.31</td><td>0.21</td></tr><tr><td>5</td><td>pH Value</td><td>--</td><td>7.06</td><td>7.9</td><td>7.5</td></tr><tr><td>6</td><td>Total Hardness as CaCO3</td><td>mg/L</td><td>368</td><td>528</td><td>455.83</td></tr><tr><td>7</td><td>Chloride as Cl</td><td>mg/L</td><td>123</td><td>193</td><td>153</td></tr><tr><td>8</td><td>Fluoride as F</td><td>mg/L</td><td>0.19</td><td>0.35</td><td>0.29</td></tr><tr><td>9</td><td>Total Dissolved Solids</td><td>mg/L</td><td>973</td><td>1296</td><td>1169</td></tr><tr><td>10</td><td>Calcium as Ca</td><td>mg/L</td><td>110</td><td>65</td><td>82.33</td></tr><tr><td>11</td><td>Magnesium as Mg</td><td>mg/L</td><td>51.84</td><td>69.84</td><td>60.01</td></tr><tr><td>12</td><td>Sulphate as SO4</td><td>mg/L</td><td>34.68</td><td>49.6</td><td>41.83</td></tr><tr><td>13</td><td>Nitrate Nitrogen as NO3</td><td>mg/L</td><td>3.88</td><td>7.13</td><td>4.70</td></tr><tr><td>14</td><td>Alkalinity</td><td>mg/L</td><td>242</td><td>324</td><td>283</td></tr><tr><td>15</td><td>Coliform</td><td></td><td colspan="3">Absent</td></tr><tr><td>16</td><td>E-Coli</td><td></td><td colspan="3">Absent</td></tr></table> <p>Summary of Surface Water Quality (Pond Water) is as under-</p> <table><tr><th rowspan="2">Sr. No.</th><th rowspan="2">TEST PARAMETER</th><th rowspan="2">UNIT</th><th colspan="3">Surface (Pond) Water Mora Village</th></tr><tr><th>Min</th><th>Max</th><th>Average</th></tr><tr><td>1</td><td>Odour</td><td>--</td><td colspan="3">Agreeable</td></tr><tr><td>2</td><td>Colour</td><td>Hazen</td><td>2</td><td>4</td><td>2.6</td></tr><tr><td>3</td><td>Taste</td><td>--</td><td colspan="3">Agreeable</td></tr><tr><td>4</td><td>pH Value</td><td>--</td><td>7.13</td><td>7.49</td><td>7.36</td></tr></table>	SR. NO.	PARAMETERS	UNIT	Min	Max	Average	1	Colour	Hazen	2	4	2.75	2	Odour	--	Agreeable			3	Taste	--	Agreeable			4	Turbidity	NTU	0.11	0.31	0.21	5	pH Value	--	7.06	7.9	7.5	6	Total Hardness as CaCO3	mg/L	368	528	455.83	7	Chloride as Cl	mg/L	123	193	153	8	Fluoride as F	mg/L	0.19	0.35	0.29	9	Total Dissolved Solids	mg/L	973	1296	1169	10	Calcium as Ca	mg/L	110	65	82.33	11	Magnesium as Mg	mg/L	51.84	69.84	60.01	12	Sulphate as SO4	mg/L	34.68	49.6	41.83	13	Nitrate Nitrogen as NO3	mg/L	3.88	7.13	4.70	14	Alkalinity	mg/L	242	324	283	15	Coliform		Absent			16	E-Coli		Absent			Sr. No.	TEST PARAMETER	UNIT	Surface (Pond) Water Mora Village			Min	Max	Average	1	Odour	--	Agreeable			2	Colour	Hazen	2	4	2.6	3	Taste	--	Agreeable			4	pH Value	--	7.13	7.49	7.36
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S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023						
		5	Turbidity	NTU	0.13	0.27	0.17	Summary marine water quality (Annexure 4D) is mentioned on above page in reply of General Condition(i.)
		6	Total Dissolved Solids	mg/L	564	691	638.5	
		7	Total Hardness as CaCO3	mg/L	187	238	215.8	
		8	Chloride as Cl	mg/L	58.9	79	65.71	
		9	Fluoride as F	mg/L	0.26	0.52	0.39	
		10	Iron as Fe	mg/L	ND	ND	ND	
		11	Coliform		Absent			
		12	E-Coli		Absent			
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.	Being Complied <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 29.11.2022 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, IRO, Gandhinagar visited AHPL Hazira on 18.02.2022. We have extended all required supports during his visit.Officials from Regional Office, Gujarat Pollution Control Board (GPCB) Surat visited AHPL on 21.03.2022. There is no visit of the authorities during compliance period						
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.	Being Complied <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 29.11.2022. The copy of same is also uploaded on company website. The link is http://www.adaniports.com/ports-downloads						
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	Noted and agreed to comply						

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
	conditions stipulated are not complied with to the satisfaction of this Ministry.	
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.
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	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. AHPL has obtained: - <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-118804 valid till 12.07.2027 was submitted on 30.11.2022. Public Liability Insurance (PLI) vide Policy No.: 41078151, IFFCO TOKIO General Insurance Company Limited valid up to 31st March, 2024. Attached herewith as Annexure 9

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
	thereafter.	
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.	Complied. All applicable clearances from respective authorities have been obtained i.e.: - 1. PESO License from Chief Controller of Explosive, Nagpur vide 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. 2. 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 23 rd 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 3. Fire NOC for Liquid Terminal- Obtained NOC from Fire Officer, Surat, (Latest on 7 th March 2019) and NOC from commissioner of Police (Dated-12 th 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 forwarded to the Regional Office of this Ministry at Bhopal.	Complied. <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.
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.

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
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
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.	Complied. 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 Also the compliance report was submitted to following: <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. Last report was submitted on 29.11.2022 through E mail.
16.	The Environmental Statement for each financial year ending 31 st March in Form-V as is mandated to be submitted	Complied. The Environment Statement in Form-V for the Financial Year: 2021-22 is submitted with last Six monthly EC compliance report on 29.11.2022

S. No.	Stipulated Conditions	Compliance Status as on 31.03.2023
	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.	http://www.adaniports.com/ports-downloads .

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

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 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>Last Mock Drill was conducted on 30.03.2023. The scenario was , In Close Godown#3, Gate-08, 01 Rigger fainted During de-hooking activity of PTA Bag loading/unloading operation</p> 

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 and Joint Director Industrial Safety and Health on 20.06.2022.
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 refer EC condition 9) - PESO License from Chief Controller of Explosive, Nagpur License to work a Factory Adani Hazira Port Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat.

S. No.	Conditions	Compliance Status
		Please refer EC condition 9 for details.
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.	Noted and complied with. There are no adverse impacts on mangrove as well as flow of water with respect to development activities.
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.	Complied. There is no dredging and reclamation activities in CRZ I (A) area during the compliance period. The mangrove habitats near by the port are being protected by AHPL.
6.	The dredging material shall be disposed of at the location already approved by the Ministry of Environment and Forests, Government of India.	Complied. As per communication from MoEF&CC dated 12 th 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:- (A) 21°03' to 21°05' N & 72°28' to 72°30' E (C) 21°03' to 21°05' N & 72°30' to 72°32' E 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.
7.	All the recommendations and suggestions given by M/s. NIO and Cholamandalam MS Risk Services Ltd, Chennai in their EIA reports for conservation / protection and betterment of environment shall be implemented strictly by M/s. AHPL.	Complied. 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> .
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 /	Complied. There are no mangroves and other important coastal / marine / habitats presents within the port

S. No.	Conditions	Compliance Status
	habitats. The construction activities shall be carried out only under the guidance / supervision of reputed institute / organization.	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. Last Mock Drill (On Site) was on :30.03.2023 Last Update of ERP & DMP : 28.03.2022 Last submission of ERP & DMP to Chief Controller of Explosive on 29.03.2022

S. No.	Conditions	Compliance Status
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 per day of treated wastewater 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 2023 is 78.79 Ha. Photograph of Green Belt area is attached herewith as Annexure 6
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. The ecological health assessment of the mangrove plantation is being carried out by Gujarat Institute of Desert Ecology.
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	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

S. No.	Conditions	Compliance Status																												
	Department.	<p>a local NGO named Saline Area Vitalization Enterprise (SAVE) Limited.</p> <ul style="list-style-type: none">The ecological health assessment of the Bioshield plantation is being carried out by Gujarat Institute of Desert Ecology.																												
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.	<p>Being Complied</p> <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 <u>Annexure-2</u> for the status of the CSR activities planned and carried out during the compliance period.</p> <table><tr><th>Sr. No.</th><th>Vertical</th><th>Approved Budget for FY 2022-23 (In Lacs Rupees)</th><th>Utilization amount till 31st March 2023 in Lacs Rupees)</th></tr><tr><td>1</td><td>Education</td><td>143.05</td><td>125.02</td></tr><tr><td>2</td><td>Health</td><td>27.58</td><td>26.93</td></tr><tr><td>3</td><td>Sustainable Livelihood Development</td><td>186.56</td><td>147.05</td></tr><tr><td>4</td><td>Civil Infrastructure Development</td><td>88.16</td><td>72.95</td></tr><tr><td>5</td><td>General Management and Administration for CSR activities</td><td>31.75</td><td>27.11</td></tr><tr><td colspan="2">Total</td><td>477.10</td><td>399.06</td></tr></table>	Sr. No.	Vertical	Approved Budget for FY 2022-23 (In Lacs Rupees)	Utilization amount till 31 st March 2023 in Lacs Rupees)	1	Education	143.05	125.02	2	Health	27.58	26.93	3	Sustainable Livelihood Development	186.56	147.05	4	Civil Infrastructure Development	88.16	72.95	5	General Management and Administration for CSR activities	31.75	27.11	Total		477.10	399.06
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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.	<p>Being Complied</p> <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 <u>Annexure-7</u> for details of budget and Expenditure for Environment Management for the compliance period.																												

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: 2022-23
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-8 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 31.05.2022 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.

ANNEXURE-1:

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

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 31 st March 2023
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 Bhikhubhai	We welcome this public hearing. It is good that you are giving preference to	<ul style="list-style-type: none"> This port will have focus on container 	

	<p>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>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> <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>
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 the village in future. So we request</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 together for spillage</p>	

	<p>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 to unemployed women and</p>	<p>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 be guided by GPCB and 	<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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		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.	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>	<p>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.</p>	<ul style="list-style-type: none"> • Complied. AHPL security system is in compliance with ISPS. ISPS Statement of compliance Ref Number is: MMD/KDL/SOC/030 and valid up to 10.02.2026. AHPL has access control system in place to avoid unauthorized entry of human 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. As there is drought this year, company should consider providing drinking</p>	<p>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 and guidance. During</p>	<ul style="list-style-type: none"> • Complied. Regional DMP for the Hazira Peninsula, covering all major industries and the port has been prepared in consultation with District Authorities and

		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 petition 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>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 Susmaben 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 shouting &</p>	<p>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: 30.03.2023.</p> <p>Last Update of ERP & DMP: 28.03.2022.</p>
7	Jayeshbhai Patel, Resident of Dihen village and President, Gujarat State Farmers Samaj	<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 2003 in which clearance was given for development of three berths. These</p>		

	<p>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 that it should not be given Environmental Clearance.</p>	<p>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. We are going to investigate the quality of ground 	<ul style="list-style-type: none"> • Closed. <p>CSR activities carried out by Adani Foundation in four verticals i.e.:</p> <ul style="list-style-type: none"> - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. <p>Appropriate financial contribution is being made. Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the <u>Annexure-2</u> 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 construction activity to avoid salinity ingress</p>
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	<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 I request that Environment clearance should be given only after doing cumulative study.</p>	<p>water every year</p>	<p>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 2022 to April 2023</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 CSR activities carried out during the Compliance</p>
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(At this stage some of the individuals asked for clarification for

		<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><i>employment in the company. Collector Shri directed the company representative to answer it, and advised audience to listen to the representative peacefully.)</i></p> <ul style="list-style-type: none"> 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><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 major points being over collector concluded the public hearing.)</i></p>	<p>period.</p> <ul style="list-style-type: none"> Closed <p>Point does not warrant any further action.</p> <ul style="list-style-type: none"> Complied. <p>AHPL has always given employment priority to local qualified persons and in future the same will be continued. As on 31st March 2023 total 186 out of 223 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><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></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 major points being over collector concluded the public hearing.)</i></p>	

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 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</p>		

		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>		

ANNEXURE-2:**DETAILS OF THE CSR ACTIVITIES CARRIED OUT AND BUDGET EXPENDITURE FOR FY 2021-22**

The Budget and Expenditure of CSR activities in Compliance Period (April -September 2022) is as follows

Sr. No.	Verticals/Thematic Area	Approved Budget for FY 2022-23 (In Lacs Rupees)	Utilization amount (In Lacs Rupees)
1	Education	143.05	125.02
2	Health	27.58	26.93
3	Sustainable Livelihood Development	186.56	147.05
4	Civil Infrastructure Development	88.16	72.95
5	General Management and Administration for CSR activities	31.75	27.11
Total		477.1	399.06

Details of CSR Expenditure of last three Financial Years

S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)
1	2019-20	330.53	265.75
2	2020-21	255.13	223.61
3	2021-22	668.89	469.35

Annual Progress Report - Hazira



**Adani Foundation
Hazira**

3/31/2023

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Preface

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.

Our strategic area of CSR Intervention is as below.

- Quality and affordable Education
- Community Health and Nutrition
- Sustainable Livelihood Development
- Adani Adivasi Development Initiative (AADI)
- Community Infrastructure Development

AF Hazira is working to reach-out the most needy and underprivileged community with priority. We are working with indigenous tribe Halpati, Vasava and other communities along with the primitive tribe Kotwadiya community. All these tribes are having a very limited resources to generate adequate livelihood in order to improve their socio-economic status. AF Hazira has joined the hands with these community to make their life healthier and prosperous by creating awareness about multiple sources of livelihood, capacity building, linking them with govt. schemes and providing better access to nearby markets for their products.

Message from Business Head

Adani Foundation (AF), Hazira has been working since 2014 in the villages of coastal areas of Hazira. The focus areas seek to improve the lot of the common man, most needy and underprivileged communities. The segments we are contributing in through our CSR Interventions are Education, Health, and Livelihood.

In Education There has been a very impressive partnership Navchetan Vidyalaya, Junagam where we have provided financial and technical support to nearly 500 students of primary section. This is an ongoing project for making available quality education to students from nearby 10-12 villages. We have also adopted 25 more Govt. primary schools where we are sending additional teachers to identify slow learners and take separate classes for them. We have been able to mainstream 1144 such students out of the total 1308 identified students this year.

Sustainable Livelihood: One of the primary focus area for AF Hazira is livelihood. Here we are focusing on how we can increase, diversify, and sustain livelihood and increase the household income through a variety of projects like

- (i) Providing Animal health, infertility, and artificial insemination related services to nearly 4000 cattle owners,
- (ii) Formation of self-help groups (SHGs) under Govt. schemes, ensuring that these groups undergo required skill-based trainings. Thereafter we are providing them financial and technical assistance to build their enterprises or develop their existing business. Due to our efforts 12 SHGs and nearly 100 SHG women from Umapada region member are now producing variety of Papad, Masala and Pickle and selling these items to generate additional income to support their families.
- (iii) We have made the entire Bhandut village "First Diesel Pump Free Village of Gujarat" by installing 15 units of 5 HP solar based water pumps which have replaced entire diesel pumps from the village. 400+ farmers are saving more than 1 Crore INR as diesel cost and we have been able to reduce nearly 278 tons of carbon footprint annually. We propose to expand this project to 04 more nearby villages in coming year.
- (iv) We are engaging youth and proving platforms to more than 2000 local youth in different sports by organizing cricket, volleyball, and local sport tournaments every year.

Demographic Profile

Business Unit	Adani Foundation
<p>Adani Hazira Port Ltd</p> <p>Cargo Handling Capacity: 25 to 30 MMT per annum</p> <p>Type of Cargo: Liquid Container and All type of cargo</p> <p>Location: Hazira, Surat GUJARAT</p>	<p>Total Villages Covered: 32 villages</p> <p>No. of Households: 21682</p> <p>Total Population: Est. 1.00 lac</p> <p>Tribal Population: Est. 16,000</p>

Executive Summary (max two pages)

Adani Foundation Hazira unit has developed a strategy to work on upliftment of socio-economic status of indigenous tribes i.e Halpati, Kotwadiya and Vasava communities with prime focus. Starting from the beginning of FY 2022-23 AF Hazira has collaborated with Govt. Departments like Animal Husbandry, District Rural Development Agency, Krishi Vigyan Kendra, AATMA project authorities, Khadi and Cottage Industry Dept. and leverage their support to organize capacity building activities of these tribes and rural communities in the field of Organic farming, sustainable agriculture practices, animal husbandry, business development of self help groups and skill based training of tribal youth. Such efforts have resulted in creating additional income generation sources for the women of our 55 SHG members in Hazira and Umarpada site. More than 4000 farmers at Hazira and nearly 2000 farmers at Umarpada get benefitted from our Kamdhenu Project.

Apart from sustainable livelihood, we also focused on quality education and environment protection. We have developed 03 ponds with 64000 cubic meter capacity to recharge ground water level and to support salinity related issues. We have distributed and planted more than 3000 saplings. We have successfully made 'Bhandut' Gujarat's first diesel pump free village. Where we have replaced diesel pump used by farmers for irrigation purpose and replaced it with solar system based pumps. Which saves 1.17 Cr INR per annum of more than 400 farmers in terms diesel cost. We have been able to reduce 278 tonnes of carbon emission annually. We are expanding this initiative in additional 04 villages as well.

In education we are now focusing more Halpati and tribal students. We have adopted 15 more schools this year and now supporting 25 Govt. primary schools and to provide quality education to students of marginalized communities. This year we have started IT on Wheels project where our computer teacher visits Govt. primary schools with laptop facilities and provide computer and IT related knowledge and practices among students where computer lab is not available. In coming year, we are expanding our Uththan project in 12 Govt. Schools of Umarpada region as well.

Main section (maximum 4 pages for each vertical)

1.1 Education

Navchetan Vidyalaya Primary Wing, (NVPW), Junagam, Hazira, Surat

Background: The school is Gujarati medium; GSEB affiliated primary school approved by DPEO, Gujarat. It is established in 2003 by local trust, Navchetan Vikas Mandal, Junagam, to provide quality education to children coming from surrounding rural areas. From 2014, it is sponsored and managed (academically & administratively) by Adani foundation, the student's strength of the school rises from 193 students to 426 students from 8 villages. In 2013-14 there were 112 boys and 81 girls, in 2022-23, 200 boys and 226 girls are studying.

Activity based educational method is uniqueness of Navchetan



Vidyalaya Primary Wing, Activity based teaching and learning method is a technique adopted by our teachers to emphasize their method of teaching through activity in which the students participate willingly and get efficient learning experiences. It is a child-centered approach. Regular classes are going on as per planned curricular activities in almanac. Average 418 students out of 426

remain presents daily.

Various Competitions: Competitions offer a chance for participants to gain substantial experience, showcase skills, analyses. Competitions also encourage students to adopt innovative techniques and develop their ideas and skills. 31 Inter House competitions were arranged within the school. Like, Calligraphy, Fancy dress, Dish decoration, Elocution, Rakhi Making, Patriotic Song, Rangoli making. Students have also participated in Poster making



Competition on World Food Day on the theme of "Leave NO ONE Behind" 50 students participated in this competition and prepared 20 posters and uploaded the images on <https://www.fao.org/worldfoodday-contest>.

Days Celebration: Celebrating events and festivals in schools have become



an integral part of learning and building a strong cultural belief in a child. Children will remember an important day only if they are told what the occasion signify, making them aware of the world in a more fun way. Navchetan Vidyalaya Primary Wing has celebrated 19 various days in unique way. Like, International Day of Yoga, Father's Day (Letter to Super Dad), National Youth Day, National

Mathematics Day, Annual Sports Day (RAMATOTSAV). Annual Cultural Day (RASOTSAV) was celebrated on the theme of "Zero Waste, Zero Hunger". Mr. Sandipbhai Desai, Hon. MLA, Choryasi was a Chief Guest. National Science Day was celebrated in which students of Class-I to VIII have prepared 55 working and 28 informative models on basic concepts of Science and Technology. Students have showed their skill in front of 775 students of 13 nearby schools.

Parents Teachers' Meeting and Sessions/Trainings on various topics:



Individual and General Parents Teachers Meeting were held in the school thrice in a year. In which subject teachers and Principal discussed about academics and moral growth of students in individual as well as in general context. Every time a special guest lecturer is invited to address parents for their better upbringing of their wards. Disaster management program was arranged

for 347 Students. First aid training for teachers was also conducted. 5-S Training was provided to the students with support of AHPL, Hazira. Session on "Indian Armed Forces, Introduction, Role, Responsibilities" was organized. Speaker was Captain Prasan Tokas (Ex. Army and AGM, Security, AHPL, Hazira) for students. School has arranged 02 programs on "Adolescence, From problem to solution". A session to explain adverse effects of Plaster of Paris (PoP) on Nature/ Environment was conducted. As an alternate, Eco Friendly Ganesh idol making program was also conducted. Fire crackers awareness session, Kite Day Awareness Sessions were also planned for all the students. School has also arranged Seasons of Storytelling,

Teachers' Trainings were arranged twice in a year. One was in June-2022, 04 days inhouse training was conducted and in November-2022, Two days Teachers Training Program (SHIKSHAK SAJJATA SHIBIR) was arranged with external resource person. In this training.

Educational Tours: Learning is more effective when it comes through



experiences. To acquire first-hand knowledge about a different side of living, educational Tours were planned in 03 phases. On 13th January 152 students of Class V to VIII accompanied by 12 staff members started the at 07.30 from school, they visited Unai Mata Temple, 60 km from Surat city in the Tapi District. Then went Padmadungari, Eco Tourism Park, 8 km from Unai, then visited

Janaki Van (A Botanical Garden) too. Students returned around 9.30 pm at school. The students got historical information and learned about the properties of various medicinal plants and had an educational experience with joy and excitement. On 28th January 2023, 124 students with 10 staff members were taken to SWAMINARAYAN GURUKUL, SARTHANA nature park and SHRI DADA BHAGWAN Temple, Kamrej (Within Surat city). An educational trip was arranged as a part of co-curricular activity on 16/02/2023 for the students of KG section and Class- I of Navchetan Vidyalaya, Junagam. In which 97 students went to Khandiya Hanuman Temple near Damka village.

Students Police Cadet (SPC): The Student Police Cadet project is a school-



based youth development program that trains students. The project enables the youth to explore and develop their innate capabilities, thereby empowering them to resist the growth of negative tendencies such as social intolerance, substance abuse, deviant behavior, and anti-establishment violence. This year Primary wing of Navchetan Vidyalaya has invited police officials in school

and requested to properly initiate SPC program in our school. In July parents of Class-VIII were called, they were briefed about the SPC project by the police officials and schoolteacher. All the 47 students of Class VIII are registered and got training under SPC. Weekly training is conducted by police officials in the school. The SPC students have visited Hazira police station where they were informed about the role and responsibilities of police in society. Their working pattern and procedures. Two days "Winter Camp" was also arranged in school where DCP, Surat, Bhavnaben Patel, ACP-J, Deep Vakil Sir, PI, Hazira Police Station G.S.Patel Sir, remain present.

Dramas on theme of "Safety in our hands": Safety department of AHPL, Hazira has requested school to prepare drama on safety. School had identified 11 boys and 19 girl students of Class VIII and IX. School has invited Dr. Vijay Sevak, expert in Theatre in Education, School principal and resource person have collaboratively scripts of 02 dramas (1) MERE PAPA HATHI (for Crane operators) (2) NAJAR HATHI DURGHATANAA GHATI (For Drivers). 28 Students of our schools were intensively trained after school hours. From 25th July both dramas were performed 15 times at various spots in port premises.

Utthan, Hazira

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'. After successful execution DPEO, Surat has requested AF, to expand the same in other Government Primary schools of Surat. AF, Hazira has signed MoU with DPEO, Surat on 06/12/2021 for 15 more schools of Olpad block. 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 and focus on Teachers' capacity building.

Baseline Assessment: Main objective of project Utthan is to identify and cater progressive students of Government primary schools. Every year Utthan Sahayaks (USs) are doing Baseline assessment for Foundational Literacy and Numeracy (FLN). This year USs of Adani Foundation did baseline assessment in July 2022 for the students of Class-III to VII, 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.

Sr. No.	Block	Identified Progressive Students	No. of Competencies to be achieved	Main Streamed Progressive Students	Competencies Cleared of Progressive students	Achievements of Mainstreaming in %	Achievements in Competencies in %
1	Choryasi	812	2199	635	1713	78.20%	77.90%
2	Olpad	496	1236	401	1025	80.85%	82.93%
	Total	1308	3435	1036	2738	79.20%	79.71%

Based on baseline assessment Utthan Sahayaks have started work on Progressive students to mainstreamed. The process to mainstreaming include various teaching learning methods; like play way method, learning by doing and so on. In academic year 2022-23, Among 1308 progressive students 1036 students were main streamed.

Cultivating Reading Culture: "Books are the best friend and mentor of the world".



Reading is one of important skill of language. This skill are the roots of sources of knowledge. To develop the habit of reading Under Utthan project Library activities are carried out regularly. The objective behind these activities is to enhance the imagination skill and understanding skill of the learners. In academic year 2022-23 total 9928 books and magazines were issued to

the students. Achievement of this activity students learn the skill of bookreview and telling stories. It has also boosted their confidence for speaking skill too. Parents are motivated from their children and they also develop the habit of reading. In Mother's meet books were issued to them also.

Mother's Meet: The parents are the stakeholder of school community and society too. To help them aware about the value of education, and to help to decrease the drop out ratio of the students. Every month Mother's meets were conducted by Utthan Sahayaks. In academic year of 2022-23 total 3294 mother and father become the part of this small community, USs have helped the parents in their academic as well as emotional growth. Utthan Sahayaks have also organized Grand Parent's meet as they are the backbones of the children. In the meeting conversation with grandparents were taken, also organized games & activities for them which they have enjoyed a lot and understood the value of education.

IT on Wheel's: "Today's Era is an Era of Technology" Students from coastal area of Hazira should not be left behind for computer literacy. With this purpose AF, Hazira has initiated IT on Wheels program under flagship of project Utthan initiation. IT on Wheel's started in September -2002. 25 Laptop, 1 van and IT instructor is visiting 11 Utthan schools. IT instructor is teaching both theory and practical. Pre-defined syllabus was prepared which was covered for students of Class -VI to VIII. In August 2022 Pre-Test was conducted to check the primary knowledge of computer, In end of March-2023, Post-Test was also taken. Total 591 total students of 11 Government Primary Schools were benefited. As per result of pre & Post test Average marks goes high. In pre-test students got average 17.08 marks, after six months practical work training the average result goes up to 22.61 from total marks of 25.

Achievement of Competitive Exam: Main objective of the project is all round development of the students. In Academic year 2022-23, Utthan sahayaks are taking regular classes for the preparation of NMMS, PSE and JNV. AF, Hazira has provided 1050 study materials to the students of Choryasi, Olpad and Umarpada block. In NMMS examination, 111 students were enrolled among them 75 students have cleared. In PSE 106 students were enrolled and 75 students have cleared exam. For Jawahar Navodaya Vidyalaya Entrance Examination 31 students are enrolled by Utthan Sahayaks.

Day Celebration and Festival celebration: Co-curricular activities are part

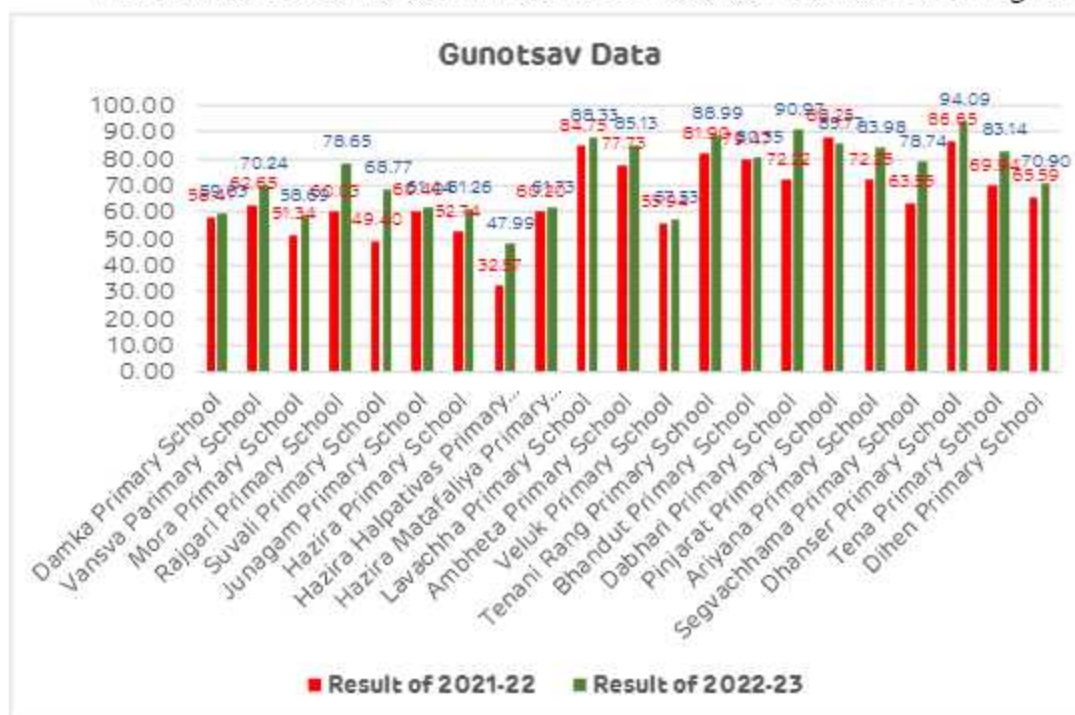


of the curriculum. The objective of this activities is to development of students, social, emotional intelligence. In this academic year total 15 days: such as National Youth Day, National Children's Day, National Mathematics Day, National Science Day, International Sparrow Day, National Forest Day and International Women's Day, were celebrated with great enthusiasm. Apart from this festival of Makarsankranti - Kite flying Day was also celebrated with

joyfully. Also Organized Fire & Safety awareness session and youth awareness to help and provide guidance to the students. The hidden curriculum objectives were achieved through these co-curricular activities like: Leadership skill, Management skill, Team building and Interpersonal skill too.

Capacity Building Program & TLM Design: Under Building capacity 9 success stories were written by Utthan Sahayaks. 05 Teaching Learning Materials were prepared by the Utthan Sahayaks. Background: Total 16 Utthan Sahayaks have completed 132 short term courses and received certificates.

Result of GUNOTSAV: Department of education is Conducting inspection named as GUNOTSAV of primary school evaluation of the school run by government by School Inspectors (SIs). One main role of the Utthan project is to improve quality of education in Government primary school to improve rank in GUNOTSAV. After Intervention of Utthan project the results of Gunotsav of academic year 2022-23 are increased. Out of 25 Utthan school 21 School has achieved higher rank.



PRAVESHOTSAV support to Tribal students of Class-I at Umarpada

To motivate tribal students to enroll themselves at primary schooling and improve educational level of students belonging to Tribal community of Umarpada block this activity was started. In this year 90 Education kits were distribution to newly enrolled students of Class-I of 8 Government Primary schools of Umargot and 70 Educational kits were provided to the students of 02 Government Primary schools of Ghanavad and Chokhvada villages in July 2022.

HALPATI Students Scholarship Scheme

Halpati students of Choryasi block get primary education in schools but from Class—IX the drop-out starts and very less students pursue their higher school education. To improve educational level of students belonging to Halpati community and to create better job options with the educational qualifications. The scholarship scheme is started. 30 Halpati students of Class -IX to XIII of 04 Grant in Aid schools were selected, regular follow-ups and parents' meetings were conducted throughout the year. All the 30 students have continued their study and their present schools were above 85%. All the students will have given assurance to their principal to continue their further study minimum up to Class -XIII.

1.2 Community Health

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 during FY 2022-23

1.2.1 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 8 villages of Choryasi, Olpad and Umapada taluka in Surat district. General Physician, Gynecologist, Dermatologist, Orthopedic, Ophthalmologist and Pediatrician 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 financial year 2022-23 total **2452 People** are diagnosed and treated in various camps.



1.2.2 Gynecologist visits for women health issues

Due to industrial development in Hazira region, Migrant labour 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 2022-23 total 500 patients were diagnosed by our gynecologist doctor through regular visits.

1.2.3 Training Program on Menstrual Health & Hygiene



Menstrual Health & Hygiene (MHH) is important and key objective of the Sustainable Development Goals (SDGs). Women and girls' access to MHH is also central to achieving other SDGs. The lack of basic knowledge about puberty and menstruation may contribute to early and unwanted pregnancy; the stress and shame associated with menstruation can negatively affect mental health; and unhygienic sanitation products may make girls susceptible to reproductive tract infections. Girls may be absent or less attentive in school during menstruation due to a lack of WASH facilities affecting education.

Adani foundation, Hazira start program with the explicit aim to achieve awareness regarding menstrual health and hygiene management among Adolescent girls of schools Choryasi and Olpad taluka of Surat district. AF conducted various awareness sessions with 600 girls in schools of Choryasi & Olpad taluka with creating a team of 30 peer educators and 28 Govt. teachers and Utthan sahayak's and students to educate further students in upcoming years.



1.2.3.1 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 2022-23 total 40 patients treated under de- addiction program from Choryasi and Olpad taluka.



1.2.4 Eye Checkup camp for students at Govt. schools

Adani foundation, Hazira organized eye checkup camp for truckers at Adani hazira port. Adani foundation, Hazira organized eye check-up camps as an endeavour to bring about awareness of eye-health amongst students from govt. schools of Choryasi and Olpad taluka. The objective of these camp was to spread awareness on eye disorders, early detection of ailments, and to detect refractive errors and provide corrective glasses free of cost with support from Rotary club to the students from underprivileged communities.



1.2 Sustainable Livelihood Development

1.2.1 Animal Husbandry Project with BAIF

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 of the population and their livelihood are dependent on agriculture. The livestock sector plays a multifaceted role in socio-economic development of rural households.

In association with BAIF Adani foundation is closely working with farmers on livestock management and fodder cultivation in villages of Choryasi and Olpad block in Surat District. The activities carried out during the year 2022-23.

1.2.2 Fodder Cultivation Support

Green fodder is an economic source of nutrients for dairy animals. It is highly palatable and digestible. Micro-organisms present in green fodder help in improving digestibility of crop residues under mixed feeding system. It also helps in maintaining good health and improving breeding efficiency of animals. Excess feed can be conserved in times of abundance and fed when pasture production and feed supply is low and excess fodder also sold out for additional income.

Adani foundation provides 56000 stumps of fodder (BNH10) to 28 farmers from 10 villages in Olpad block for cultivation. It will be cultivated in 28 guntha land for fodder support.



1.2.3 Infertility & General health camp

Infertility and health camps are an essential aspect of the animal husbandry program. These camps take care of Reproductive Disorders, Diseases of the animals under qualified Veterinarians. Particular attention is given to improve the Sexual Health in the animals and control their Sexually Transmitted Diseases [S.T.D].

Infertility and health Camps cover various aspects of animal health like:

- A.** Provide health awareness and knowledge regarding milch animals.
- B.** Timely treatment of animals helps to reduce economic losses, financial burden of unproductive animals, reduce long inter-calving period and other clinical disorders.



Adani Foundation organized 21 infertility and general health camps in 21 villages of Olpad taluka in which 928 animals of 465 beneficiaries were treated.

1.2.4 Livestock Training program

Livestock training program is designed to give the agricultural enthusiast technical guidance to adopt and implement best practices for animal husbandry in their households on Artificial Insemination (AI), Sex Sorted Semen, Nutrition and animal Health and Calf Rearing. During the training program, they have learned how small changes create big impacts in their day to day lives. Training programs share knowledge through discussion with technical experts, presentations, Case studies, IEC material etc.



With support of BAIF, Adani foundation conducts 21 livestock training programs in 2022-23 in 21 villages of Choryasi and Olpad taluka of Surat district with more than 450 beneficiaries.

1.2.5 Mango Saplings distribution

Under sustainable Agriculture program, Adani foundation, Hazira distributed 2300 mango saplings to farmers from six villages of Surat district. It will help them to develop alternate sources of income. Total 289 beneficiaries get benefitted from program.



1.2.6 Single Use Plastic Bottle Free Forest Project

Plastic pollution has become a global concern, as our planet is drowning in plastic litter and microplastics. Societies have become highly dependent on single-use or disposable plastic with severe environmental consequences. One dominant source for plastic waste is plastic packed water bottles. Currently all of us are compelled to serve single-use plastic bottled water, due to the absence of sustainable and economically viable solutions for plastic waste.

Adani foundation, Hazira and Visdalia Cluster Gramin Vikas samiti, supported by Surat Forest Division, Surat, aims to reduce the use of plastics by establishing a bottling plant using glass bottles for all its ecotourism centers. The unit set up in the premises of Visdalia Cluster Gramin Vikas samiti (The Rural Mall), allocated to the institution by Surat Forest Division. Packed water bottles will be supplied from Visdalia to eco-tourism centers, restaurants, hotels, and retail shops. This water bottling unit is run by the local tribal community from the vicinity villages of Visdalia. Collective vision is to bring an economically sensible and operationally easy solution to reduce plastic waste.

1.2.7 Efficient use of solar pumps for irrigation

Adani foundation, Hazira has installed 15 Solar pump systems with 05 HP capacity in Bhandut, Lavacha & Aadmore villages of Olpad block of Surat district. Bhandut village from Surat District becomes a 100 percent solar-pump powered village covering around 700 bighas of agricultural land, benefiting more than 400 farmers.

Under the PPP model, fifteen Solar Pumps have been installed for irrigating agriculture land of the villages. The results showed that the installation of solar Pumps increased the adoption of high-efficiency irrigation systems, reduced the high operational costs incurred from old diesel-powered pumping systems and its environmental footprint, increased farmers' income, reduced CO2 emissions per year and saved water usage. Solar-powered irrigation systems (SPIS) are a clean technology option for irrigation, replacing fossil fuels as energy source, and reducing greenhouse gas (GHG) emissions from irrigated agriculture.



The overall conclusion is that solar power Irrigation system reduced cost for water pumping also work durable and increases lift of the system with minimum cost.

1.2.8 Adani Gramin Cricket Tournament

Adani Foundation, Hazira organized the Adani Rural Cricket Tournament 5th Season in 2022-23, 1500 players in 100 teams from 100 villages participated in this tournament from Choryasi and Olpad taluka in Surat district. Matches in this tournament were played at the cricket ground of Bhatlai and Vanswa villages.

This leather ball tournament is organized by adani foundation from last 5 years successfully and started with teams from 8 villages in 1st season and reached 100 villages in 5th season. Tournaments give an opportunity to local youths to show their talent and passion for sports and teams & participants eagerly wait every year to participate in tournament.



1.2.9 Strengthening SHGs

Self-Help Groups (SHGs) are informal associations of people who choose to come together to find ways to improve their living conditions. Adani foundation provide support to women from group creation to training and linkages with govt. schemes through FGD's with groups, training programs, individual meetings and various other activities.

In the year 2022-23, 12 new SHG's formed under NRLM Yojana, 15 existing SHGs strengthen through training on bookkeeping in villages of Olpad block of Surat District, 7 SHGs received cash credit loan to start new business, 5 women of SHGs received sewing machine under Manav Garima Yojana, 5 SHGs Received Cotton batti machine from Manav Kalyan Yojana.

Rakhi stall support by Adani Foundation at Mora Village, to provide livelihood to SHG Women. As a result, efforts were made to the sisters of Sakhi mandal to get a good response from the market in their own backyard. Sakhi mandal had made Rakhi with their own hands at home, which cost little less than the market price. They invested Rs. 20,000/- in raw material and sold goods worth Rs. 25000/-



1.2.10 Training program with Rural self-employment training institute

With support from Rural self-employment training Institute (RSETI) at Lavachha Village. A Total of 34 women participated in the training. Training in paper, cover, envelope, and file making was imparted at Lavachha village. & 35 women participated in costume jewelry making training. A valedictory program of training was held. In which a memento gift was given from the Adani Foundation.



Participate in Gram Bharti exhibition 2022 at Ahmedabad with SHG group of tribal women from Umarpada taluka of Surat district.

In exhibition, SHG women present their traditional homemade Bamboo pickle. Bamboo pickle prepared from fresh & tender bamboo shoots of not more than 1 week.



1.2.11 International Women's Day celebration

Adani Foundation has celebrated international women's day with more than 250 women at Suvali Beach by organizing different sports activity such as Tug of war, lemon-spoon race, sack race, etc.



Activities carried out under Tribal Development initiatives at Umarpada during FY 2022-23

Animal Health Camp (Animal Husbandry)

An animal health camp and vaccination program was organized allied with Sumul dairy veterinary Department, at Umarpada block between December 2022, January and February 2023, at Ghanavad, Chokhavada, Limbarvan, Panch Amba, Jumavadi, Sarvan Fofdi, Moti Fofdi, Pinpur, Bijalvadi and Khokhavad villages, of Surat district. The animals were examined by Dr. Sanjay bhai Patel and team Veterinary Officers, Sumul dairy Veterinary Department, line of treatment suggested along with treatment of some cases. Total of 1125 livestock presented, the most common problems were found to be parasitic infestation followed by dairy and low milk yield in lactating dairy cattle. The farmers were advised to do routine deworming and vaccination along with feeding of supplemental mineral-vitamin mixture to improve their body nutrient status and overall health. Also suggested to cultivate azolla and perennial grass like hybrid Napier and Para grass.



1.2 Animal Husbandry Awareness Sessions

In first phase AF will cover 6 villages of 04 gram Panchayats in umarpada taluka under Education, Community Health, Livelihood, Economic Development of tribal community through Agriculture, Animal Husbandry and SHG development. Under the Activities of Animal Husbandry Awareness Sessions AF organized 5 Farmers Awareness session in 6 project villages of Umarpada. Total 558 Farmers with Sarpanch and panchayat representative body participated in this session from Project villages. AF linkage with KVK surat for resource person for the Session.

Dr Janak bhai, Dr. Sunil Trivedi, Mr Rakeshbhai and Bhumiben Senior scientists of KVK Surat discussed about the various crops of the Umarpada block. They discussed about the package of practices followed by the farmers through interaction. They also discussed about the organic farming with the use of Jeeva Amrut. He discussed the process how to make Jeeva Amrut at home and how to use in farm. In every session at the end, KVK introduced crop Nutrition named **Novel** and its benefits for the growth of crops.



1.2 Women Empowerment Tribal Development Initiatives Umarpada

1.2.1 Training of SHG members and Support for business development:

From May 2022 AF started intervention with SHGs who are registered under NRLM scheme of Government Gujarat of Umarpada block. AF formed 10 new SHGs from the 6 project villages of AF and 25 SHGs revival and strengthen by conducting regular meeting, giving training and Exposure visit. Before AF Intervention Most of the SHGs of 6 project villages do not get enough opportunities for Income Generation activities. Now 35 SHGs from 6 villages get training and started business.

In first phase for new business development, we will mainly cover 12 SHG groups of 2 villages (Ghanawad & Chokhwada) of Umarpada taluka under women empowerment project.

The object of this training is to enhance knowledge of SHG members on new trades/businesses, motivate SHG members to take up new business ideas and learn about market linkages of different products and link them with markets. AF identified the 35 SHGs members from the project villages and arrange 10 days training by the linkages with RSETI, Surat. RSETI given training on Production of Pickle, Papad and Spices at Village level. All the SHGs members trained production process, marketing, and promotion. Initially AF support them for the market linkages. After the training they started their production of Bamboo, Carrot and Chilly, lemon pickle, Ragi and Unad Papad and different types of spices. In the month of September, they participated in Garm Bharti Events organized by the AF at Adani Corporate House, Ahmedabad. Till date

their income was Rs. 1,45,000. AF trained them on financial inclusion, Book keeping and Account maintaining.

After the Training AF supported Rs. 93,000 to SHGs groups for Purchase machinery/equipment and raw materials to start new business. SHGs arrange place for production of Pickle, Papad and Spices.



1.2.2 Exposure visit of SHG members:

In 2022-23, AF Organized 3 Exposure visit of SHGs members at BAIF, Lachhakdi, Vasada- Navsari from 6 project villages of Umapada. The purpose the for an exposure was to know the production process of pickle and papad and to enhance the capacity building of the SHGs members. There were three stages of the knowledge exchange –orientation, exposure and classroom session by this exposure. After the orientation, participants went on their field visits. Here is a brief account of exposure visit and their interactions with BAIF SHGs members. Total 150 SHGs members participated in Exposure visit. They learn about the whole process of

production pickle from mango cleaning to packaging level. By this exposure all the members are motivated for doing these types of Income generation activities at Umarpada.



1.3 Important Days Celebration at Umarpada

1.3.1 AF celebrated National Farmers Day

AF organize International/ National Day with the goal of Engage with local tribal community and build rapport with them. The objective for the different day celebration is to increase active community participation in AF's program, encourage local community (i.e., women, farmers, and youth etc) for holistic development and to create enable environment for our community interventions/projects smoothly in all 6 project villages.

AF celebrated National Farmers Day Celebrated on 23rd December 2022 at Ghanavad Village. In this celebration Hon'ble Shri Ganpatsinh Vasava, MLA Mangrol seat, ex. Speaker Gujarat assembly/ex. Cabinet minister, Govt. Of Gujarat, was the Chief guest, Sh. Rajendrabhai Vasava, Chairman, Karobari Samiti, Jilla Panchayat, Surat Sh. Nikulsinh Chauhan, Director of Extension of Education Navsari Agriculture University Sh. Nitinbhai Gamit, Director, ATMA Project, KVK and Sumul dairy, Surat Staff ,Chhaganbhai Vasava, Officer of Extension of agriculture, Umarpada Sh. Vijaybhai Vasava, Taluka Livelihood Manager (Mission Mangalam), Umarpada and Sarpanches of Kevdi, Ghanavad, Chokhvada, Panch Amba, Jumnavadi, and Umargot Villages were present for the celebration of National Farmer's Day* organized by Adani Foundation, Hazira at Ghanavad village on 23rd of December 2022.

More than 500 farmers (including women of SHGs) have participated in the event and gained knowledge for organic farming, agriculture, and Animal husbandry practices delivered by the experts present in the event.

Adani Foundation, Hazira has distributed Mineral Mixture and Nutrition Powder and Navsari Agriculture University has distributed organic liquid nutrients named *Novel* to the participant farmers. Hon'ble MLA shri Ganpatsinh Vasava has expressed his gratitude to Adani Foundation, Hazira for the efforts made towards Tribal Development Initiative in Umarpada.

AF celebrated National Youth Day

AF organized National youth day with the local tribal youth and build rapport with them. The main object for the celebration of National Youth Day was to encourage the rural sport in tribal youth. AF has distributed the appreciation momentous on this day to youth of the Umarpada Taluka who secured the position at various national and international level tournaments. AF Distributed 20 momentous to the youth players on this day. National Youth day celebrated by organized Volleyball tournament at Chokhavada village a tribal area of Umarpada block. Total 160 players of 16 team have participated in the tournament to celebrate the National Youth Day.

AF celebrated International Women's Day

AF celebrated International Women's Day at Ghanavad village on 6th March, 2023. The main object for the celebration of International Women's Day was to involve tribal SHGs members in outdoor game. Total 150 SHGs members from the 6 project villages of Umarpada participated for the celebration of International Women's Day. AF organized Rassa khech, Lemon Spoon and Musical chair games for the SHGs members. All the members participated in all games. at the end of the program AF given winning trophy to winners. SHGs members share their experience joined with AF, Hazira Surat.



1.5 Training to Bamboo craft artesian of Kotwadiyas Community

AF working in 6 project villages of Umarpada. Out of this 6 village Kotwadiya communities live in 3 villages Panch Amba, Ghanavad and Kevdi. Their main income source is to make bamboo handicraft items and selling. AF team identified around 55 artesian and submitted Artesian card form under the Government scheme Hast kala Setu Yojana. AF linkages with Entrepreneurship Development Institute (EDI) Gandhinagar, who is the implementing agency of Hast Kala Setu Yojana (Govt. Scheme). Organize 3 Days training on Entrepreneurship Development at Umargot village. Total 35 bamboos artesian participated in this training at Umargot village. Training focus on how to be a Successful Entrepreneur, Financial Inclusion, branding, Marketing and Promotion of the product.



1.4 Community Infrastructure Development

1.4.1 Water conservation Pond developing at Damka, Suvali and Bhatlai

In Choryasi taluka of Surat District, most of the villages are situated on coastal area. So as ground water is saline and cannot be used for irrigation purpose. Access to fresh water for irrigation is a challenging issue in majority of areas. To preserve the rain and utilize it for irrigation after monsoon is one



of the solutions for these regions. Adani Foundation, Hazira developed 3 ponds in different villages as per the requirement of villagers. Water stored in the ponds can be utilized for Irrigation purpose, and as a drinking water for cattle and this will ultimately help to improve economic standards of villagers. Also, it will recharge the ground water and will enhance the ground water quality as well. AF has created storage of total 63435 cubic meter capacity collectively of 3 ponds. The details of individual ponds developed are as follows.

Village	Capacity Created (Cubic Meter)	Completion year	Created under scheme
Suvali	20,194	2021-22	Amrut Sarovar
Damka	23,441	2021-22	Requested by Gram panchayat
Bhatlai	19,800	2022-23	Amrut Sarovar

1.4.2 Construction of girls' hostel in school building at Umarda village of Umapada block



Before Intervention



After Intervention

Under Tribal Development initiative, Adani Foundation has started interventions in Umapada block of Surt District. AF has received request from *Ukai Navnirman Samiti, Songadh* for construction of girls' hostel rooms at *Vanraj Uttar Buniyadi Ashram Shala, Umarda* as the existing hostel building was in deteriorated condition and there is a problem of leakage in monsoon season. Vanraj Uttar Buniyadi Ashram Shala, Umarda is basically a residential co-education school. A total of 150 tribal students are living and studying over 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 from nearby villages of 03 districts, Surat, Narmada and Tapi who are economically very poor. Adani Foundation has constructed 2 halls in which 75 girls can be easily accommodated.

1.4.3 Roadside Fencing & Tree Plantation from mora circle to village

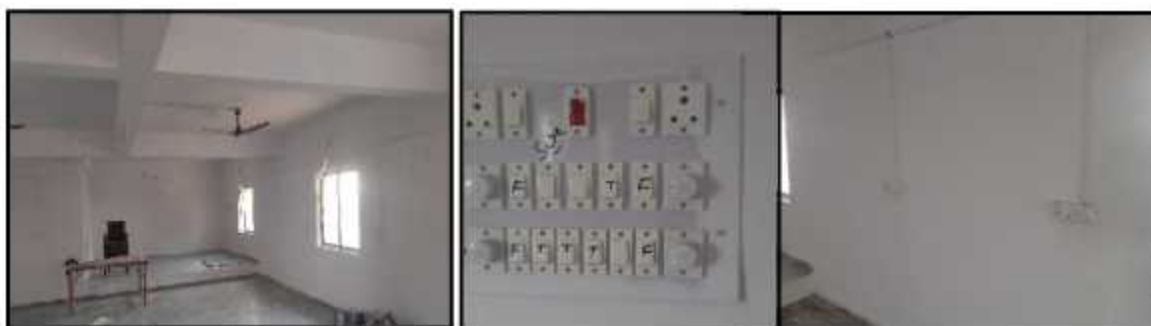
It was observed that it has become dumping station to dump waste from fruits and vegetables and garbage in to the divider from Mora circle to Mora village cross road by vendors and shop keepers. There are many shops and local vendors who sit beside road to sell fruits and vegetables on the both sides of main road. Cattels gathered near road-divider in the search of edible items from wastage. Also, due to lower height of divider, trespassers often use divider to cross the road. Main road of Mora village has become an accident prone due to the above reasons.



Gram panchayat, Mora has requested AF- Hazira to provide fencing at main road divider and do plantation within the available space so that the trespassers and cattles cannot cross the divider. It will also help to prevent vendors to throw their grabbage at divider. It will significantly reduce the risk of accident on the main road. And onsite plantation will enhance over all landscaping and environment as well. Adani foundation has provided fencing on 913 m long road divider with plantation (more than 1500 plants).

1.4.4 Painting and Electrification work at Suvali Community Hall

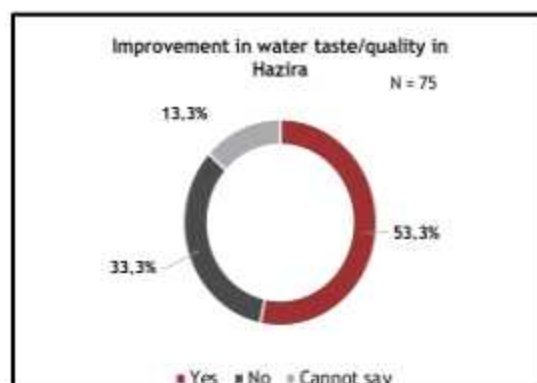
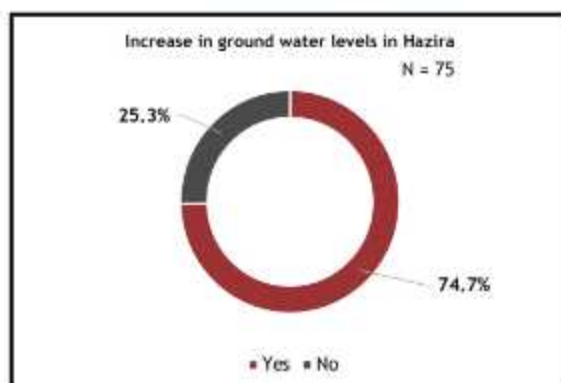
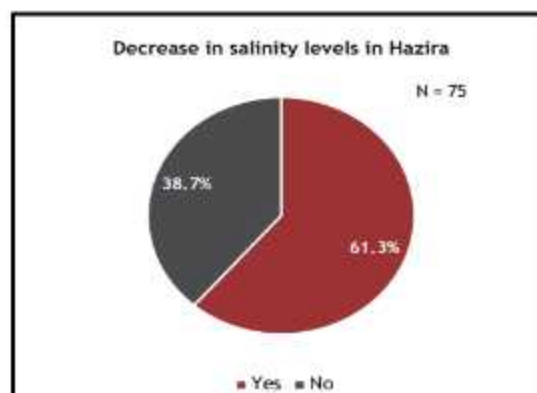
To empower Halpati women of SHGs at Suvali, Adani foundation has planned to organised training on Sewing classes at community hall suvali. To provide necessary arrangement for power supply and a space to conduct training, it requires electrification and painting to hall. The same activity has been carried out at Suvali community hall.



1.4.5 Impact assessment of Water conservation programme

Since 2018, Adani foundation has developed 6 ponds in the core villages like Rajagari, Suvali, Bhatlai, Damka and Vansva. A study was conducted to assess the impact of the water conservation programme by Adani foundation through external expert in the Hazira region. Key findings of the assessment are as follows.

- Decrease in Salinity level
- Increase in ground water levels
- Improvement in water taste/quality



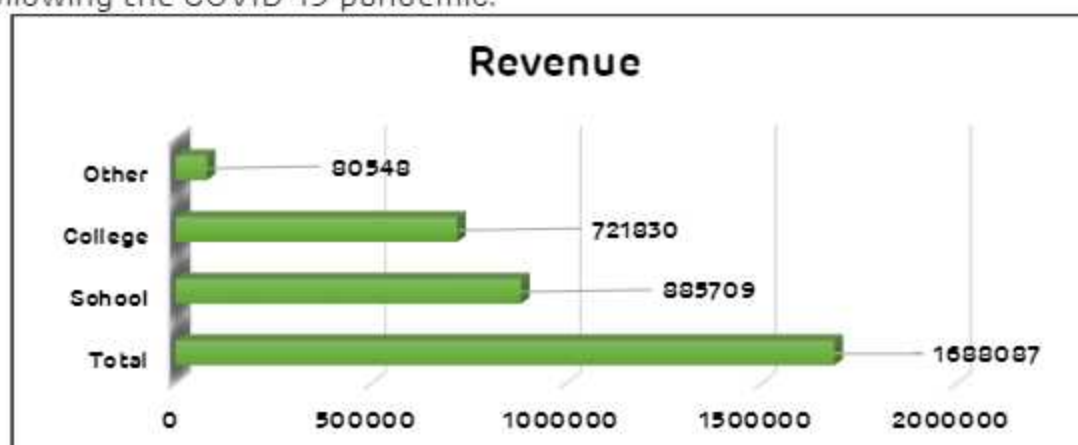
Outcome assessment study of Water conservation programme

1.5 Special Programs – Udaan

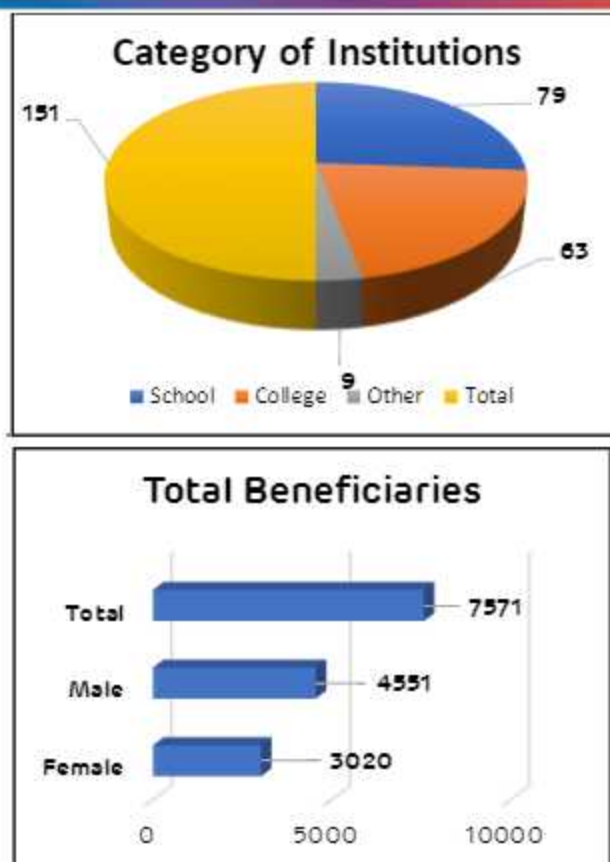
Udaan project is the vision of Gautam Adani Sir, as he got inspired from his educational tour of Kandala Port. He believes students should come for industrial visit, which helps them to dream big and motivates to play an active role in Nation Building. Under this project we invite different education institutions to our industrial facilities at different sites like Mundra, Dahanu, Hazira, Tirora, Dhamra etc. Hazira is one of the sites because it is a strategic location to make a South Gujarat an Economic Gateway.

At the Gulf of Khambhat, Surat, Gujarat, Hazira is poised to become the largest multi-product commercial port with deep draught berths. The distance to the City of Diamond is 28 kilometers. The Surat education hub is expanding along with the city's incredible expansion over the past ten years.

That's why Adani Foundation kick-started project Udaan at Hazira in the academic year 2016–2017. The Project was restarted at Hazira on July, 22 following the COVID-19 pandemic.



In this Financial Year from July-22 to March -23 Project Udaan AF Hazira Site has generated 16.88 Lacs.



During the FY 22-23, **151** institutes have visited enthusiastically and gain the practical knowledge about various aspects of Port & Wilmar Business. Students from 79 Schools, 63 Colleges & 09 other institutes. Which **includes 7571 participants** among them 4551 male & 3020 females.



1.6 Case stories

Case story 01: 100% Diesel Pump free irrigation village 'Bhandut'

Background – Bhandut is a village in the coastal region of Surat where the ground water – because of high salinity - is not exactly suitable for irrigation and other purposes. The villagers therefore depend upon canal water and had been using diesel pumps to make the water available till their farmlands. The increasing diesel prices started to show its impact on their annual income from agriculture, which was further compounded by the complexities of using a diesel pump. Getting up early everyday to buy diesel and then transport it through bullock carts to the pump site, was no less tedious task through which almost a generation had suffered in the village.

Highlights of the project

- AF Hazira has installed 05 HP Solar pump systems in total 15 sites in the village.
- Bhandut (Surat District) becomes a 100 percent solar-pump powered village covering around 700 bighas of agricultural land, benefiting more than 400 farmers.
- Under PPP model, fifteen 5-HP Solar Pumps have been installed for irrigating agriculture land of the village helping the residents save money, time, and reduce CO2 emissions.



Benefits for the farmers

- Farmers now don't have to spend their hard-earned money for buying costly diesel. They are also saving in the form of labour cost and time.
- For diesel only, on an average basis, farmers will collectively save approximately Rs. 9.13 Lakhs monthly and Rs. 1.10 Crore annually
- Similarly, they will be saving Rs. 20 lakhs in labour and many hours of time. In addition to this, 3000 working hours are saved per month and 36000 hours annually.
- One of the major indirect benefits of the initiative has been the utility of those few farmlands which earlier were not used for cultivation. Because of the distance from the water reservoir or ponds, it was not feasible for them to irrigate it with the help of diesel pumps.
- The total CO2 emission avoided in the village by eliminating diesel pump is 269916 KG per year. At the same time, there is no noise pollution as well.

After detailed survey of the area, AF team decided to run a pilot project with the help of solar-powered pumps. Having discovered the right solution, Adani Foundation decided to install 15 solar units in Bhandut. Soon we have started receiving similar requests from other nearby villages such as Aadmor, Lavachha, Kudiya, Pinjrat, Barbodhan and Selut. While the solar unit installation work has already started in another two villages Lavachha and Aadmor, others are being surveyed for right locations and capacity.

Case Study no. 02. 'A Warmth Love has change the Orphan Girl's Life.'



In the coastal area of Hazira, Adani foundation started Utthan project. The main aim of the project is to Mainstream the students who are deprived of basic education.

I Ansuya patel work as an Utthan shayak in one of the school locate in Vasva village. Name Vasva Primary School. In this school a girl name Rathod Jensi Sanjaybhai studding in 4th standard. This girl

was irregular in school. So, every day on the way to coming school I show her I stop my vehicle and call her why you are not coming school? Do you not like school. But every time either she refused or keep silent. The question triggers me that why she is not coming school lead me to visit her home.

When I visit her home come to know the reality of Jensi that she is an orphan child who is living with her grandparents. Nobody to guide her. She has one elder sister who is studding in 7th standard in the same school. So, I talked with her sister why does not she bring younger sister to school. She said she went here and there to play. So difficult to found her. So, I decide and everyday went her home and pick her with me at school regularly. Give her attention, provide cloths, chocolate, notebooks. And one-month continuous effort brings the result that she trains well and now she is coming regularly at school.

It's a everyday challenge for Halpativas kids to attend school regularly. But good intention always gives you winning in the end. So the same, in this academic year 6 students coming regularly in school and also doing well as an Priya Vidhyarthi.

As an Utthan sahayak I am witnessing that this project is changing the life of Halpati community. Thanks for such a divine work for humanity.

Case study No. 03. Story of Tribal Women SHG members of Ghanawad Village, Umarpada block.

Background: Umarpada is one of the largest tribal blocks in Surat District adjoining to Bharuch, Narmada and Tapi District and more than 150 Km away from Surat District Headquarters. Area also known as a settlement colony of Ukai Dam rehabilitators.

Mostly there are 02 indigenous tribes are living here 1. Vasava (Bhil Community) and Kotwadiyas (A primitive tribe). Their traditional livelihood activities and daily life are mostly dependent on agriculture, animal husbandry and bamboo handicrafts and they are heavily depended on forest produces and climate.

AF Hazira's Intervention: AF has intervened 06 selected villages of Umarpada block from current FY. We have identified 35 potential SHGs and handhold and encourage them to do business activities to generate additional income for their families. Earlier, they were not engaged in any sort of activities besides household and agriculture work. AF Hazira has facilitated their 10 days training in collaboration with RSeti and Mission Managalam Scheme and helped them in getting FSSAI certification. They have learnt about Pickle, Papad and different types of Spices production. After the completion of the training AF has provided some material and equipment support to these tribal SHGs so that they can start large scale production. AF Hazira has also provided support for the market linkages of their products in Surat city and nearby potential markets.

Ghanawad SHG groups have **received the order of Rs. 01 lac in just 02 months** after starting operations and furthermore orders are in pipeline which bring smiles on the faces of these tribal women. This will also help them to support their families and their



over-all well-being.

लोकतेज
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अदाणी फाउंडेशन ने मानसून में टपकती छत के नीचे रहने वाली आदिवासी लड़कियों की मदद की



उमरपाड़ा में महिलाओं की मदद

मानसून ऋतु में आदिवासी महिलाएं अत्यंत कष्टों में गुजरती हैं। इन महिलाओं की मदद करने के लिए अदाणी फाउंडेशन ने 'मनसून में टपकती छत' कार्यक्रम शुरू किया है। इस कार्यक्रम के तहत अदाणी फाउंडेशन ने आदिवासी महिलाओं को मदद करने के लिए एक टीम बनाई है। इस टीम ने आदिवासी महिलाओं को मदद करने के लिए एक टीम बनाई है। इस टीम ने आदिवासी महिलाओं को मदद करने के लिए एक टीम बनाई है।

अदाणी फाउंडेशन, छत्तरा द्वारा मासिक स्वास्थ्य-स्वच्छता अंगे तालीम



उमरपाड़ा में महिलाओं की मदद

अदाणी फाउंडेशन द्वारा मासिक स्वास्थ्य-स्वच्छता अंगे तालीम का आयोजन किया गया। इस कार्यक्रम में आदिवासी महिलाओं को मासिक स्वास्थ्य-स्वच्छता अंगे तालीम दी गई। इस कार्यक्रम में आदिवासी महिलाओं को मासिक स्वास्थ्य-स्वच्छता अंगे तालीम दी गई।

उमरपाड़ा में महिलाओं की मदद

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अदाणी फाउंडेशन ने उमरपाड़ा गांव में मुफ्त स्वास्थ्य शिविर



अदाणी फाउंडेशन ने उमरपाड़ा गांव में मुफ्त स्वास्थ्य शिविर का आयोजन किया। इस शिविर में आदिवासी लोगों को मुफ्त स्वास्थ्य सेवाएं दी गईं। इस शिविर में आदिवासी लोगों को मुफ्त स्वास्थ्य सेवाएं दी गईं।

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अतुल्य हिन्दुस्तान

माहवारी स्वास्थ्य-स्वच्छता पर अदाणी फाउंडेशन हजीरा द्वारा प्रशिक्षण



अदाणी फाउंडेशन द्वारा माहवारी स्वास्थ्य-स्वच्छता पर प्रशिक्षण का आयोजन किया गया। इस प्रशिक्षण में आदिवासी महिलाओं को माहवारी स्वास्थ्य-स्वच्छता पर प्रशिक्षण दिया गया। इस प्रशिक्षण में आदिवासी महिलाओं को माहवारी स्वास्थ्य-स्वच्छता पर प्रशिक्षण दिया गया।

अदाणी फाउंडेशन, छत्तरा द्वारा मासिक स्वास्थ्य-स्वच्छता तालीम

अदाणी फाउंडेशन द्वारा मासिक स्वास्थ्य-स्वच्छता तालीम का आयोजन किया गया। इस तालीम में आदिवासी महिलाओं को मासिक स्वास्थ्य-स्वच्छता तालीम दी गई। इस तालीम में आदिवासी महिलाओं को मासिक स्वास्थ्य-स्वच्छता तालीम दी गई।

2 દિવ્ય સંદેશ News

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અદાણી ફાઉન્ડેશને સુમલ ડેરીના સહયોગથી ઉમરપાડાના આદિવાસી પશુપાલક ખેડૂતોમાટે પશુ સારવાર શિબિર યોજી

સુરત : સુરત જિલ્લાના ઉમરપાડા તાલુકાના સુમલ ડેરીના આદિવાસી ખેડૂતોને પશુપાલક તરીકે સારવાર આપવા માટે સુમલ ડેરીના સહયોગથી અદાણી ફાઉન્ડેશને પશુ સારવાર શિબિર યોજી રહી છે. આ શિબિરમાં આદિવાસી પશુપાલકોને પશુ સારવારના વિવિધ પાસાંઓ પર જાણકારી આપવામાં આવી છે.

અદાણી ફાઉન્ડેશને સુમલ ડેરીના સહયોગથી ઉમરપાડાના આદિવાસી પશુપાલકોને પશુ સારવારના વિવિધ પાસાંઓ પર જાણકારી આપવામાં આવી છે. આ શિબિરમાં આદિવાસી પશુપાલકોને પશુ સારવારના વિવિધ પાસાંઓ પર જાણકારી આપવામાં આવી છે.

અદાણી ફાઉન્ડેશને સુમલ ડેરીના સહયોગથી ઉમરપાડાના આદિવાસી પશુપાલકોને પશુ સારવારના વિવિધ પાસાંઓ પર જાણકારી આપવામાં આવી છે. આ શિબિરમાં આદિવાસી પશુપાલકોને પશુ સારવારના વિવિધ પાસાંઓ પર જાણકારી આપવામાં આવી છે.

અદાણી ફાઉન્ડેશન હજીરામાં મહિલા દિવસની ઉજવણી



અદાણી ફાઉન્ડેશન-હજીરાએ આંતરરાષ્ટ્રીય મહિલા દિવસને અનોખી રીતે ઉજવ્યો હતો. આદિવાસી વિસ્તારની મહિલાઓ માટે રમત-ગમતની સવન-અવન ઇવેન્ટ યોજાઈ હતી. મોટાભાગની આદિવાસી મહિલાઓ વર્ષ દરમિયાન પશુઓની જાગવણી, દૂધ ઉત્પાદનનું કાર્ય, ખેતીકામ અને ગૃહકાર્યમાં વ્યસ્ત રહેતી હોવાથી મનોરંજન માટે ઘરની બહાર જવાનું થતું હોતું નથી. આ મહિલાઓ માટે રમત-ગમતનું આયોજન કરી મહિલા દિવસની વિશેષ ઉજવણી કરી હતી.

[illegible]

[illegible]

1.9 Award/ recognition

1.10 Beneficiaries count

S.No.	Activity Description	Direct	Indirect	Access
A.	Education			
1	Navchetan Vidyalaya Primary Wing, Junagam	447	1788	0
2	Support to Government High Schools of Surat District	1131	4524	0
3	Scholarship support to Halpati students	30	120	0
4	Tribal Students of Umarpada	175	700	0
B.	Community Health			
1	Multi-specialty medical health checkup camps	2452		
2	Gynecologist visits for women health issues	500		
3	Training Program on Menstrual Health & Hygiene	600		
4	De-addiction Program	40	200	
5	Eye Checkup camp for students at Govt. schools	300		
C.	Sustainable Livelihood Development			
1	Kamdhenu Project	3083	12332	
2	Mango Saplings distribution	289	1156	
3	Efficient use of Solar pump for irrigation	890	3560	
4	Adani Gramin Cricket Tournament	1500		
5	Tribal Development Initiative at Umarpada	3000	11,875	
6				
D.	Community Infrastructure Development			
1	Water conservation Pond developing at Damka, Suvali and Bhatlai	80	240	-
2	Construction of girls' hostel in school building at Umarda village of Umarpada block	75	0	1000
3	Fencing & Tree Plantation from mora circle to village	13924	20165	-
4	Painting and Electrification work at Suvali Community Hall	28	500	-
E	Udaan	7550	-	-

* Refer attachments:

- a. Guidance on Calculation of Beneficiaries of AF CSR Projects
- b. FAQ-Beneficiaries Count

Adani Foundation team

S.No.	Name	Position
1.	Priyeshkumar Rathod	Unit CSR Head
2.	Asutosh Thakar	Program Manager
3.	Ankur Patel	Project Officer - CID
4.	Abhishek Sukhwal	Project Officer – Comm. Health
5.	Hitesh Rathod	Project Officer – AADI (Umarpada)
6.	Aarti Goswami	Project Officer – Utthan
7.	Krishna Mandavia	Project Officer – Udaan
8.	Falguni Desai	Community Mobilizer – SLD



Site office address:
Adani Hazira Port Ltd
At & Po. Hazira
Choryasi
Surat 394270
Gujarat, India

Annexure-3:

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

S. No.	EMP Conditions	Compliance Status as on 31 st March 2023
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: It has been recommended to adopt soil stabilization plans and storm water sedimentation basins to control	Complied Separate storm water drain was developed to discharge the storm water.

	the silt before discharging the storm water into sea.	
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. 78.79 ha within the port premises.
2.	Noise Control Program: The following source noise control plans have been suggested: - ➤ Covering of sound intensive components with	Complied. <ul style="list-style-type: none"> All the sound intensive components (DG Set and Compressor) are with acoustic enclosures.

	<p>insulation.</p> <ul style="list-style-type: none"> ➤ 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 	<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 wastewater will be reused in greenbelt development / plantation purpose.</p>

	further 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.	
4.	Storm Water Management Plan: <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. 	Complied 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. Complied. 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.
5.	Solid and Hazardous Waste Management: <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. 	Complied. <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. Complied. All the wastes are segregated at source and stored at a dedicated Hazardous Waste storage shed/yard. Complied. Recyclable waste is being collected and disposed of through CPCB/GPCB registered recyclers. Complied. No spill has occurred till date. Complied. Recyclable wastes is being collected and

	<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.	disposed off through CPCB/GPCB registered recyclers. Complied. All the wastes are stored at a dedicated hazardous waste storage shed/yard. Being Complied All the wastes are being segregate at source and handled as per applicable rules/guidelines.																
6.	Greenbelt and Plantation: <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.	Complied Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.79 ha till 31 st March 2023 Horticulture budget for FY 2022-23 is Rs. 169 Lakhs and expenditure during compliance period is INR 167 Lakhs.																
7.	Community Development Plan: AHPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows:- <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	Complied. <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 Financial Year: 2022-23. <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>2019-20</td><td>330.53</td><td>265.75</td></tr><tr><td>2</td><td>2020-21</td><td>255.13</td><td>223.61</td></tr><tr><td>3</td><td>2021-22</td><td>668.89</td><td>469.35</td></tr></table>	S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)	1	2019-20	330.53	265.75	2	2020-21	255.13	223.61	3	2021-22	668.89	469.35
S.NO	FY	Budget (In INR Lacs)	Expenditure (In INR Lacs)															
1	2019-20	330.53	265.75															
2	2020-21	255.13	223.61															
3	2021-22	668.89	469.35															

	<p>street lamps.</p> <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="329 516 886 829"> <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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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 	<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>																					

ANNEXURE-4

Environmental Monitoring / Analysis Results For The Period From October 2022 to March 2023

4A. AMBIENT AIR QUALITY MONITORING (OCTOBER - 2022 TO MARCH - 2023): -
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	03/10/2022	85.72	42.43	ND*	ND*	ND*	ND*	0.98	ND*	25.51	21.18	31.57	22.82
2	06/10/2022	76.31	32.43	ND*	ND*	ND*	ND*	0.80	ND*	33.82	23.43	38.88	27.81
3	10/10/2022	88.29	40.39	0.61	ND*	2.42	10.33	0.89	ND*	46.25	14.11	36.60	20.49
4	13/10/2022	78.55	34.95	ND*	ND*	ND*	ND*	0.84	ND*	24.61	22.45	41.76	28.55
5	17/10/2022	72.94	38.49	ND*	ND*	ND*	ND*	1.02	ND*	20.65	25.71	44.26	19.47
6	20/10/2022	80.48	43.54	0.65	ND*	2.34	10.72	0.69	ND*	28.39	18.19	33.69	29.28
7	23/10/2022	73.46	33.43	ND*	ND*	ND*	ND*	0.93	ND*	21.63	15.57	35.35	14.54
8	27/10/2022	69.12	30.64	ND*	ND*	ND*	ND*	0.78	ND*	35.87	17.24	30.35	24.52
9	31/10/2022	90.27	45.13	0.70	ND*	2.54	10.45	0.52	ND*	32.79	12.58	37.54	26.02
10	03/11/2022	77.60	45.09	ND*	ND*	ND*	ND*	0.70	ND*	29.40	16.42	33.40	27.50
11	07/11/2022	69.30	38.62	ND*	ND*	ND*	ND*	1.00	ND*	36.20	18.19	25.39	21.51
12	10/11/2022	81.60	43.50	0.69	ND*	2.50	10.50	0.92	ND*	42.60	20.11	38.20	24.09
13	14/11/2022	63.40	37.59	ND*	ND*	ND*	ND*	0.72	ND*	22.30	19.20	28.30	20.61
14	17/11/2022	76.50	40.21	ND*	ND*	ND*	ND*	0.93	ND*	32.80	23.38	35.61	26.79
15	21/11/2022	85.40	48.50	0.76	ND*	2.38	10.69	0.96	ND*	38.50	14.63	37.90	28.41
16	24/11/2022	74.56	35.18	ND*	ND*	ND*	ND*	0.78	ND*	34.70	26.20	41.51	17.79
17	28/11/2022	84.60	41.51	ND*	ND*	ND*	ND*	0.90	ND*	37.20	24.47	40.09	25.19
18	01/12/2022	75.64	38.76	0.56	ND*	2.36	10.55	0.62	ND*	22.27	17.56	36.44	18.25
19	05/12/2022	65.41	27.53	ND*	ND*	ND*	ND*	0.44	ND*	31.57	19.47	30.28	23.54
20	08/12/2022	71.88	32.12	ND*	ND*	ND*	ND*	0.64	ND*	37.16	22.30	35.61	26.26
21	12/12/2022	91.27	46.37	0.69	ND*	2.25	10.45	0.92	ND*	33.28	16.76	39.13	19.61
22	15/12/2022	82.64	33.60	ND*	ND*	ND*	ND*	0.78	ND*	30.05	20.23	31.58	22.34
23	19/12/2022	89.30	41.43	ND*	ND*	ND*	ND*	0.72	ND*	32.61	23.34	40.25	25.38
24	22/12/2022	94.20	52.46	0.75	ND*	2.51	10.35	0.80	ND*	13.58	13.23	34.67	21.29
25	26/12/2022	68.92	28.64	ND*	ND*	ND*	ND*	0.56	ND*	17.69	18.71	42.58	27.50
26	29/12/2022	74.76	39.59	ND*	ND*	ND*	ND*	0.66	ND*	25.25	15.38	38.53	15.48
27	02/01/2023	78.64	41.55	ND*	ND*	ND*	ND*	0.81	ND*	30.55	18.27	34.50	28.21
28	05/01/2023	82.66	45.25	0.68	ND*	2.62	10.46	0.89	ND*	35.27	23.39	38.43	22.62


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29	09/01/2023	72.41	38.79	ND*	ND*	ND*	ND*	0.80	ND*	40.75	25.43	42.45	19.60
30	12/01/2023	90.24	50.24	0.72	ND*	2.45	10.55	0.69	ND*	32.41	22.49	35.28	30.29
31	16/01/2023	81.79	46.27	ND*	ND*	ND*	ND*	1.01	ND*	27.35	24.39	40.29	23.43
32	19/01/2023	75.64	36.43	ND*	ND*	ND*	ND*	0.54	ND*	39.26	15.49	32.74	20.35
33	23/01/2023	80.29	43.47	ND*	ND*	ND*	ND*	1.02	ND*	33.44	21.49	43.56	25.43
34	26/01/2023	92.41	48.21	0.59	ND*	2.31	10.84	0.71	ND*	23.36	17.25	39.53	29.56
35	30/01/2023	84.28	42.63	ND*	ND*	ND*	ND*	0.86	ND*	31.62	19.53	37.28	26.22
36	02/02/2023	86.28	40.24	ND*	ND*	ND*	ND*	0.98	ND*	27.26	24.24	43.72	19.79
37	06/02/2023	91.23	50.54	0.67	ND*	2.34	10.83	0.68	ND*	32.57	20.35	34.39	24.60
38	09/02/2023	79.92	44.23	ND*	ND*	ND*	ND*	0.78	ND*	34.19	17.65	41.34	20.31
39	13/02/2023	73.68	36.37	ND*	ND*	ND*	ND*	1.02	ND*	41.14	15.69	31.92	23.39
40	16/02/2023	94.22	51.26	0.71	ND*	2.62	10.51	0.89	ND*	49.95	13.61	28.04	25.49
41	20/02/2023	90.82	46.55	0.83	ND*	2.46	10.51	0.92	ND*	35.39	19.31	38.56	28.21
42	23/02/2023	82.41	42.38	ND*	ND*	ND*	ND*	0.77	ND*	28.84	23.40	35.43	29.40
43	27/02/2023	76.73	31.61	ND*	ND*	ND*	ND*	1.03	ND*	42.28	21.19	40.22	22.29
44	02/03/2023	82.19	46.25	ND*	ND*	ND*	ND*	0.54	ND*	42.24	25.43	35.31	20.35
45	06/03/2023	92.11	49.45	0.72	ND*	2.20	10.55	0.74	ND*	37.27	16.97	31.22	29.46
46	09/03/2023	85.62	40.26	ND*	ND*	ND*	ND*	0.98	ND*	43.44	22.37	36.49	16.38
47	13/03/2023	94.21	52.47	0.78	ND*	2.46	10.83	0.90	ND*	38.34	24.56	39.35	26.35
48	16/03/2023	76.19	34.66	ND*	ND*	ND*	ND*	0.97	ND*	31.53	17.58	42.86	28.67
49	20/03/2023	81.27	44.34	ND*	ND*	ND*	ND*	0.88	ND*	41.24	23.28	30.19	18.74
50	23/03/2023	93.29	47.59	0.68	ND*	2.30	10.66	0.60	ND*	39.28	20.38	38.35	21.54
51	27/03/2023	73.47	37.84	ND*	ND*	ND*	ND*	0.46	ND*	27.86	18.73	41.30	24.52
52	30/03/2023	91.78	45.38	ND*	ND*	ND*	ND*	1.01	ND*	23.42	13.64	34.90	22.35

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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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

**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	03/10/2022	55.67	23.45	ND*	ND*	ND*	ND*	0.62	ND*	10.27	13.57	27.44	17.74
2	06/10/2022	45.35	18.18	ND*	ND*	ND*	ND*	0.66	ND*	14.81	10.26	15.55	24.21
3	10/10/2022	53.28	22.42	ND*	ND*	ND*	ND*	0.82	ND*	20.35	6.61	25.42	16.73
4	13/10/2022	61.51	25.51	ND*	ND*	ND*	ND*	0.44	ND*	11.27	18.65	29.60	11.48
5	17/10/2022	66.35	27.15	ND*	ND*	ND*	ND*	0.63	ND*	16.58	16.44	26.54	13.43
6	20/10/2022	73.91	35.83	ND*	ND*	ND*	ND*	0.25	ND*	19.64	11.86	14.27	15.42
7	23/10/2022	68.65	28.43	ND*	ND*	ND*	ND*	0.29	ND*	15.17	8.24	23.59	12.38
8	27/10/2022	44.29	15.85	ND*	ND*	ND*	ND*	0.48	ND*	22.84	19.31	16.87	14.60
9	31/10/2022	69.43	33.84	ND*	ND*	ND*	ND*	0.31	ND*	18.65	15.86	20.94	20.69
10	03/11/2022	60.50	28.60	ND*	ND*	ND*	ND*	0.33	ND*	26.20	6.08	17.51	20.30
11	07/11/2022	52.40	20.61	ND*	ND*	ND*	ND*	0.71	ND*	33.20	9.56	33.19	12.81
12	10/11/2022	67.90	31.59	ND*	ND*	ND*	ND*	0.39	ND*	37.60	18.32	30.50	15.30
13	14/11/2022	49.50	27.52	ND*	ND*	ND*	ND*	0.61	ND*	19.20	12.44	25.30	18.41
14	17/11/2022	61.50	36.18	ND*	ND*	ND*	ND*	0.27	ND*	22.40	10.61	12.19	11.21
15	21/11/2022	70.50	33.51	ND*	ND*	ND*	ND*	0.41	ND*	27.50	13.12	32.79	23.29
16	24/11/2022	55.50	21.59	ND*	ND*	ND*	ND*	0.68	ND*	14.20	22.40	38.39	19.21
17	28/11/2022	66.50	18.59	ND*	ND*	ND*	ND*	0.64	ND*	23.50	16.81	24.31	17.11
18	01/12/2022	64.26	26.35	ND*	ND*	ND*	ND*	0.41	ND*	11.89	12.65	29.63	15.70
19	05/12/2022	48.56	16.21	ND*	ND*	ND*	ND*	0.39	ND*	29.43	16.52	19.62	18.58
20	08/12/2022	52.37	18.64	ND*	ND*	ND*	ND*	0.61	ND*	19.31	13.66	23.54	11.53
21	12/12/2022	68.11	29.67	ND*	ND*	ND*	ND*	0.73	ND*	22.86	11.72	30.54	16.19
22	15/12/2022	71.26	23.51	ND*	ND*	ND*	ND*	0.49	ND*	27.57	9.67	27.62	19.19
23	19/12/2022	77.33	32.86	ND*	ND*	ND*	ND*	0.37	ND*	20.09	20.68	17.59	24.35
24	22/12/2022	69.42	36.52	ND*	ND*	ND*	ND*	0.77	ND*	12.65	15.55	25.13	13.49
25	26/12/2022	42.41	17.80	ND*	ND*	ND*	ND*	0.94	ND*	10.20	8.68	20.95	22.68
26	29/12/2022	56.14	22.60	ND*	ND*	ND*	ND*	0.76	ND*	15.41	6.85	18.62	12.75
27	02/01/2023	51.17	20.29	ND*	ND*	ND*	ND*	0.68	ND*	15.79	14.51	23.43	17.38
28	05/01/2023	72.23	38.48	ND*	ND*	ND*	ND*	0.50	ND*	22.65	17.55	27.53	14.87
29	09/01/2023	45.27	22.44	ND*	ND*	ND*	ND*	0.48	ND*	25.48	15.69	33.61	20.28

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30	12/01/2023	77.81	41.66	ND*	ND*	ND*	ND*	0.47	ND*	16.26	8.52	24.51	11.23
31	16/01/2023	58.95	32.59	ND*	ND*	ND*	ND*	0.77	ND*	13.52	21.27	26.54	21.25
32	19/01/2023	52.58	25.34	ND*	ND*	ND*	ND*	0.57	ND*	21.24	10.54	14.57	15.57
33	23/01/2023	63.51	31.54	ND*	ND*	ND*	ND*	0.55	ND*	11.48	18.38	36.59	12.38
34	26/01/2023	57.14	27.33	ND*	ND*	ND*	ND*	0.38	ND*	14.54	7.55	17.29	25.68
35	30/01/2023	66.69	33.55	ND*	ND*	ND*	ND*	0.61	ND*	18.46	11.83	22.60	10.26
36	02/02/2023	68.57	25.81	ND*	ND*	ND*	ND*	0.55	ND*	12.82	15.42	28.56	11.49
37	06/02/2023	57.49	21.84	ND*	ND*	ND*	ND*	0.46	ND*	17.21	10.35	20.22	15.29
38	09/02/2023	62.94	31.12	ND*	ND*	ND*	ND*	0.70	ND*	9.43	7.70	18.68	17.71
39	13/02/2023	43.19	22.51	ND*	ND*	ND*	ND*	0.60	ND*	29.66	14.23	29.25	20.60
40	16/02/2023	81.23	35.81	ND*	ND*	ND*	ND*	0.52	ND*	33.76	12.41	16.54	14.51
41	20/02/2023	56.33	20.16	ND*	ND*	ND*	ND*	0.69	ND*	24.96	8.48	25.76	23.70
42	23/02/2023	60.58	29.44	ND*	ND*	ND*	ND*	0.63	ND*	16.24	6.19	14.50	21.30
43	27/02/2023	46.61	15.38	ND*	ND*	ND*	ND*	0.64	ND*	32.38	9.28	19.38	19.20
44	02/03/2023	55.64	23.47	ND*	ND*	ND*	ND*	0.25	ND*	17.55	10.31	20.27	16.54
45	06/03/2023	81.77	40.30	ND*	ND*	ND*	ND*	0.64	ND*	15.66	6.57	16.48	13.62
46	09/03/2023	58.74	29.00	ND*	ND*	ND*	ND*	0.80	ND*	24.67	9.24	27.58	18.24
47	13/03/2023	70.27	39.53	ND*	ND*	ND*	ND*	0.34	ND*	31.75	18.55	25.50	12.63
48	16/03/2023	49.45	15.60	ND*	ND*	ND*	ND*	0.89	ND*	25.61	13.46	31.16	24.70
49	20/03/2023	57.26	26.22	ND*	ND*	ND*	ND*	0.73	ND*	18.71	11.28	19.51	27.53
50	23/03/2023	79.92	36.58	ND*	ND*	ND*	ND*	0.37	ND*	33.75	7.63	24.28	15.64
51	27/03/2023	65.26	30.83	ND*	ND*	ND*	ND*	0.40	ND*	11.63	14.40	21.63	11.21
52	30/03/2023	75.47	38.48	ND*	ND*	ND*	ND*	0.42	ND*	13.48	8.67	18.32	17.28

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-1.3: 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	03/10/2022	71.56	35.74	ND*	ND*	ND*	ND*	0.49	ND*	17.16	15.38	22.52	11.34
2	06/10/2022	56.33	23.59	ND*	ND*	ND*	ND*	0.56	ND*	10.15	18.36	32.61	13.37
3	10/10/2022	48.35	17.77	ND*	ND*	ND*	ND*	0.37	ND*	22.65	7.75	15.40	24.88
4	13/10/2022	54.47	19.50	ND*	ND*	ND*	ND*	0.32	ND*	21.55	16.22	24.36	17.41
5	17/10/2022	45.54	15.50	ND*	ND*	ND*	ND*	0.65	ND*	13.45	11.63	21.51	21.99
6	20/10/2022	50.37	20.52	ND*	ND*	ND*	ND*	0.42	ND*	15.68	9.70	23.79	16.88
7	23/10/2022	58.09	22.68	ND*	ND*	ND*	ND*	0.77	ND*	23.46	14.32	28.47	10.65
8	27/10/2022	49.59	24.09	ND*	ND*	ND*	ND*	0.38	ND*	12.34	10.50	25.21	18.66
9	31/10/2022	60.55	26.66	ND*	ND*	ND*	ND*	0.53	ND*	16.34	6.47	17.52	12.84
10	03/11/2022	65.60	21.41	ND*	ND*	ND*	ND*	0.38	ND*	16.10	8.10	19.50	10.20
11	07/11/2022	42.60	24.50	ND*	ND*	ND*	ND*	0.29	ND*	18.10	16.47	30.19	16.60
12	10/11/2022	57.30	28.28	ND*	ND*	ND*	ND*	0.65	ND*	20.60	13.39	21.20	20.21
13	14/11/2022	53.50	22.40	ND*	ND*	ND*	ND*	0.55	ND*	12.50	9.49	15.30	12.21
14	17/11/2022	49.30	14.41	ND*	ND*	ND*	ND*	0.48	ND*	17.50	14.17	24.19	15.10
15	21/11/2022	75.60	42.40	ND*	ND*	ND*	ND*	0.80	ND*	21.10	17.22	27.40	25.49
16	24/11/2022	44.20	18.52	ND*	ND*	ND*	ND*	0.54	ND*	29.20	19.80	20.31	11.40
17	28/11/2022	61.20	26.30	ND*	ND*	ND*	ND*	0.73	ND*	25.60	11.76	29.79	22.41
18	01/12/2022	58.29	23.74	ND*	ND*	ND*	ND*	0.85	ND*	14.49	10.25	15.44	21.84
19	05/12/2022	43.63	18.28	ND*	ND*	ND*	ND*	0.47	ND*	17.32	7.50	21.43	12.65
20	08/12/2022	47.54	15.50	ND*	ND*	ND*	ND*	0.40	ND*	27.11	15.26	25.66	16.23
21	12/12/2022	61.62	26.06	ND*	ND*	ND*	ND*	0.68	ND*	29.54	6.55	20.24	10.22
22	15/12/2022	56.51	19.43	ND*	ND*	ND*	ND*	0.38	ND*	20.23	12.40	16.23	17.52
23	19/12/2022	68.21	24.53	ND*	ND*	ND*	ND*	0.32	ND*	25.17	14.64	33.24	19.47
24	22/12/2022	57.68	21.36	ND*	ND*	ND*	ND*	0.45	ND*	15.39	11.27	17.69	27.67
25	26/12/2022	51.68	25.62	ND*	ND*	ND*	ND*	0.82	ND*	11.15	9.55	24.11	24.95
26	29/12/2022	59.44	30.26	ND*	ND*	ND*	ND*	0.30	ND*	19.26	13.88	27.50	14.91
27	02/01/2023	56.38	29.43	ND*	ND*	ND*	ND*	0.62	ND*	23.43	9.28	26.33	22.85
28	05/01/2023	60.22	32.49	ND*	ND*	ND*	ND*	0.39	ND*	13.39	14.71	23.57	19.38
29	09/01/2023	65.91	35.27	ND*	ND*	ND*	ND*	0.30	ND*	21.56	17.32	30.56	21.41


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30	12/01/2023	72.51	38.28	ND*	ND*	ND*	ND*	0.82	ND*	18.71	11.20	21.51	14.52
31	16/01/2023	51.54	25.76	ND*	ND*	ND*	ND*	0.64	ND*	22.43	7.77	32.56	18.24
32	19/01/2023	67.86	30.22	ND*	ND*	ND*	ND*	0.45	ND*	27.64	13.48	29.47	10.64
33	23/01/2023	58.42	26.72	ND*	ND*	ND*	ND*	0.37	ND*	24.51	15.30	33.53	20.75
34	26/01/2023	75.93	37.55	ND*	ND*	ND*	ND*	0.31	ND*	17.54	12.56	22.65	11.37
35	30/01/2023	50.69	27.63	ND*	ND*	ND*	ND*	0.87	ND*	14.86	8.61	15.79	15.29
36	02/02/2023	59.61	30.43	ND*	ND*	ND*	ND*	0.39	ND*	10.23	8.27	19.21	16.21
37	06/02/2023	73.58	35.43	ND*	ND*	ND*	ND*	0.66	ND*	23.73	6.76	14.22	20.19
38	09/02/2023	55.62	21.78	ND*	ND*	ND*	ND*	0.79	ND*	16.95	16.17	27.53	10.39
39	13/02/2023	50.24	28.65	ND*	ND*	ND*	ND*	0.33	ND*	22.22	12.67	22.32	12.90
40	16/02/2023	62.68	23.37	ND*	ND*	ND*	ND*	0.49	ND*	29.74	11.01	24.53	21.21
41	20/02/2023	69.28	29.27	ND*	ND*	ND*	ND*	0.58	ND*	13.52	17.82	18.16	17.19
42	23/02/2023	52.46	25.37	ND*	ND*	ND*	ND*	0.53	ND*	25.33	14.35	30.16	15.91
43	27/02/2023	68.71	20.29	ND*	ND*	ND*	ND*	0.21	ND*	31.51	18.22	28.98	23.50
44	02/03/2023	67.37	31.23	ND*	ND*	ND*	ND*	0.44	ND*	21.18	15.29	23.56	12.37
45	06/03/2023	59.37	21.53	ND*	ND*	ND*	ND*	0.50	ND*	26.38	18.48	28.64	15.43
46	09/03/2023	69.46	25.69	ND*	ND*	ND*	ND*	0.87	ND*	30.28	14.23	25.77	11.37
47	13/03/2023	54.63	27.89	ND*	ND*	ND*	ND*	0.62	ND*	17.76	7.60	36.38	18.55
48	16/03/2023	58.68	22.77	ND*	ND*	ND*	ND*	0.76	ND*	12.59	9.33	30.22	13.88
49	20/03/2023	53.51	19.54	ND*	ND*	ND*	ND*	0.63	ND*	20.23	6.72	16.27	19.32
50	23/03/2023	68.53	29.43	ND*	ND*	ND*	ND*	0.26	ND*	27.61	13.27	29.66	10.66
51	27/03/2023	56.39	24.32	ND*	ND*	ND*	ND*	0.52	ND*	23.58	10.25	33.47	16.46
52	30/03/2023	62.46	30.28	ND*	ND*	ND*	ND*	0.24	ND*	10.32	17.86	27.12	14.42

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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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

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	03/10/2022	60.29	31.23	ND*	ND*	ND*	ND*	0.18	ND*	20.52	17.48	19.57	28.19
2	06/10/2022	67.54	28.33	ND*	ND*	ND*	ND*	0.27	ND*	24.51	15.65	33.83	17.88
3	10/10/2022	73.55	34.60	ND*	ND*	ND*	ND*	0.40	ND*	37.54	8.75	22.04	15.59
4	13/10/2022	69.36	27.74	ND*	ND*	ND*	ND*	0.60	ND*	18.57	14.25	31.89	19.63
5	17/10/2022	47.58	22.38	ND*	ND*	ND*	ND*	0.94	ND*	15.49	12.69	34.52	16.20
6	20/10/2022	62.46	30.75	ND*	ND*	ND*	ND*	0.76	ND*	12.52	6.38	30.27	27.79
7	23/10/2022	49.64	18.22	ND*	ND*	ND*	ND*	0.86	ND*	14.36	11.31	20.51	20.50
8	27/10/2022	64.27	26.03	ND*	ND*	ND*	ND*	0.39	ND*	27.84	13.86	18.27	12.53
9	31/10/2022	77.73	36.62	ND*	ND*	ND*	ND*	0.79	ND*	23.57	9.89	29.45	11.27
10	03/11/2022	54.30	26.20	ND*	ND*	ND*	ND*	0.30	ND*	24.50	15.24	30.40	24.20
11	07/11/2022	47.20	17.69	ND*	ND*	ND*	ND*	0.40	ND*	22.90	13.19	22.39	19.61
12	10/11/2022	70.70	35.41	ND*	ND*	ND*	ND*	0.58	ND*	29.50	10.13	25.61	17.50
13	14/11/2022	58.40	32.38	ND*	ND*	ND*	ND*	0.49	ND*	17.80	17.48	20.40	10.41
14	17/11/2022	67.50	25.28	ND*	ND*	ND*	ND*	0.32	ND*	25.60	19.46	31.19	18.29
15	21/11/2022	59.50	28.90	ND*	ND*	ND*	ND*	0.56	ND*	18.80	12.63	34.79	13.40
16	24/11/2022	69.40	24.31	ND*	ND*	ND*	ND*	0.42	ND*	23.80	14.30	26.91	15.49
17	28/11/2022	74.20	33.78	ND*	ND*	ND*	ND*	0.62	ND*	14.60	20.20	36.51	11.11
18	01/12/2022	77.68	36.12	ND*	ND*	ND*	ND*	0.42	ND*	19.68	9.32	21.17	13.57
19	05/12/2022	54.08	22.72	ND*	ND*	ND*	ND*	0.54	ND*	25.88	17.65	24.82	10.84
20	08/12/2022	60.59	25.43	ND*	ND*	ND*	ND*	0.79	ND*	34.44	11.64	29.33	24.59
21	12/12/2022	79.36	37.17	ND*	ND*	ND*	ND*	0.34	ND*	31.45	13.74	33.72	14.55
22	15/12/2022	66.26	30.31	ND*	ND*	ND*	ND*	0.63	ND*	18.31	7.63	20.43	12.46
23	19/12/2022	61.23	27.35	ND*	ND*	ND*	ND*	0.95	ND*	16.26	16.67	23.82	16.57
24	22/12/2022	76.82	34.49	ND*	ND*	ND*	ND*	0.60	ND*	10.58	18.22	28.52	25.44
25	26/12/2022	47.14	19.68	ND*	ND*	ND*	ND*	0.50	ND*	13.18	14.25	34.59	15.71
26	29/12/2022	63.71	33.68	ND*	ND*	ND*	ND*	0.46	ND*	35.81	8.39	30.48	17.45
27	02/01/2023	61.29	27.89	ND*	ND*	ND*	ND*	0.58	ND*	12.88	6.30	18.20	15.32
28	05/01/2023	66.29	35.37	ND*	ND*	ND*	ND*	0.29	ND*	29.24	12.60	30.65	12.87
29	09/01/2023	52.24	28.28	ND*	ND*	ND*	ND*	0.36	ND*	33.65	20.24	36.25	25.77


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30	12/01/2023	63.21	33.45	ND*	ND*	ND*	ND*	0.53	ND*	22.52	18.17	29.38	17.56
31	16/01/2023	70.35	36.33	ND*	ND*	ND*	ND*	0.49	ND*	16.74	9.60	23.73	11.54
32	19/01/2023	48.45	19.42	ND*	ND*	ND*	ND*	0.65	ND*	30.25	19.20	17.52	26.37
33	23/01/2023	53.53	23.45	ND*	ND*	ND*	ND*	0.52	ND*	20.56	13.85	27.60	21.36
34	26/01/2023	67.57	31.42	ND*	ND*	ND*	ND*	0.94	ND*	15.43	10.39	31.53	10.53
35	30/01/2023	79.86	38.28	ND*	ND*	ND*	ND*	0.78	ND*	23.74	7.30	19.61	13.68
36	02/02/2023	49.39	17.75	ND*	ND*	ND*	ND*	0.74	ND*	18.72	20.24	31.16	14.21
37	06/02/2023	82.67	31.67	ND*	ND*	ND*	ND*	0.44	ND*	20.21	13.44	23.94	16.49
38	09/02/2023	68.43	26.82	ND*	ND*	ND*	ND*	0.50	ND*	23.87	18.15	32.54	26.21
39	13/02/2023	56.25	30.38	ND*	ND*	ND*	ND*	0.42	ND*	27.73	10.18	17.23	22.40
40	16/02/2023	72.63	34.14	ND*	ND*	ND*	ND*	0.37	ND*	42.51	8.57	25.37	10.21
41	20/02/2023	77.25	38.21	ND*	ND*	ND*	ND*	0.81	ND*	19.97	15.36	30.60	13.61
42	23/02/2023	69.41	35.94	ND*	ND*	ND*	ND*	0.45	ND*	12.97	9.43	19.51	11.20
43	27/02/2023	52.68	22.72	ND*	ND*	ND*	ND*	0.73	ND*	16.12	11.72	26.28	17.50
44	02/03/2023	60.64	29.27	ND*	ND*	ND*	ND*	0.36	ND*	26.75	12.44	25.68	13.40
45	06/03/2023	68.26	26.45	ND*	ND*	ND*	ND*	0.39	ND*	30.19	15.22	35.66	18.38
46	09/03/2023	80.26	32.55	ND*	ND*	ND*	ND*	0.71	ND*	16.49	19.25	31.87	20.93
47	13/03/2023	75.89	43.47	ND*	ND*	ND*	ND*	0.68	ND*	29.66	16.40	28.78	15.39
48	16/03/2023	67.82	28.32	ND*	ND*	ND*	ND*	0.23	ND*	24.81	10.58	33.25	12.23
49	20/03/2023	64.26	30.33	ND*	ND*	ND*	ND*	0.77	ND*	38.83	13.52	22.39	23.48
50	23/03/2023	74.57	33.64	ND*	ND*	ND*	ND*	0.82	ND*	17.65	11.67	26.46	17.50
51	27/03/2023	61.21	27.56	ND*	ND*	ND*	ND*	0.56	ND*	20.31	9.52	24.50	19.68
52	30/03/2023	54.23	24.49	ND*	ND*	ND*	ND*	0.27	ND*	14.87	6.52	21.62	21.16

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	03/10/2022	77.53	38.58	ND*	ND*	ND*	ND*	0.54	ND*	17.82	19.60	28.29	23.48
2	06/10/2022	59.34	28.48	ND*	ND*	ND*	ND*	0.71	ND*	28.46	22.72	36.98	26.84
3	10/10/2022	82.44	37.55	0.52	ND*	2.24	10.28	0.87	ND*	40.24	11.57	30.65	18.28
4	13/10/2022	75.38	33.46	ND*	ND*	ND*	ND*	0.47	ND*	15.39	20.73	39.25	13.65
5	17/10/2022	58.61	27.52	ND*	ND*	ND*	ND*	0.72	ND*	10.36	23.63	24.25	22.37
6	20/10/2022	88.61	48.22	0.59	ND*	2.06	10.58	0.55	ND*	23.88	14.53	26.38	20.20
7	23/10/2022	62.05	31.38	ND*	ND*	ND*	ND*	0.58	ND*	25.18	18.42	32.33	17.22
8	27/10/2022	55.32	19.43	ND*	ND*	ND*	ND*	0.30	ND*	31.29	15.50	27.56	27.52
9	31/10/2022	85.95	41.65	0.69	ND*	2.36	10.41	0.64	ND*	27.51	12.19	33.42	10.43
10	03/11/2022	70.20	31.50	ND*	ND*	ND*	ND*	0.60	ND*	22.60	12.73	22.81	17.41
11	07/11/2022	63.10	34.61	ND*	ND*	ND*	ND*	0.82	ND*	14.50	7.61	28.49	25.30
12	10/11/2022	75.30	38.41	0.55	ND*	2.37	10.88	0.63	ND*	35.10	16.19	35.20	29.20
13	14/11/2022	68.50	29.39	ND*	ND*	ND*	ND*	0.69	ND*	13.50	14.54	23.40	30.21
14	17/11/2022	72.40	33.42	ND*	ND*	ND*	ND*	0.66	ND*	27.20	21.17	27.50	23.50
15	21/11/2022	80.50	41.18	0.68	ND*	2.11	10.41	0.94	ND*	34.20	10.68	40.21	19.11
16	24/11/2022	60.40	32.39	ND*	ND*	ND*	ND*	0.76	ND*	32.50	20.82	36.19	22.20
17	28/11/2022	78.50	39.19	ND*	ND*	ND*	ND*	0.79	ND*	29.30	18.58	26.51	15.59
18	01/12/2022	71.12	33.40	0.52	ND*	2.15	10.23	0.81	ND*	26.94	13.44	33.69	27.25
19	05/12/2022	58.94	25.78	ND*	ND*	ND*	ND*	0.65	ND*	36.27	21.25	26.24	20.33
20	08/12/2022	65.88	28.27	ND*	ND*	ND*	ND*	0.74	ND*	32.27	19.96	32.43	22.93
21	12/12/2022	74.69	31.97	0.66	ND*	2.08	10.34	0.70	ND*	25.63	10.55	36.52	25.14
22	15/12/2022	54.34	26.38	ND*	ND*	ND*	ND*	0.89	ND*	23.41	15.46	23.63	15.25
23	19/12/2022	73.53	30.14	ND*	ND*	ND*	ND*	0.84	ND*	29.79	18.57	29.55	21.64
24	22/12/2022	83.06	48.54	0.59	ND*	2.25	10.41	1.00	ND*	20.93	22.47	31.64	16.46
25	26/12/2022	64.97	32.43	ND*	ND*	ND*	ND*	0.88	ND*	22.66	11.54	38.42	19.37
26	29/12/2022	70.53	24.88	ND*	ND*	ND*	ND*	0.53	ND*	16.47	17.10	34.28	23.36
27	02/01/2023	67.65	32.30	ND*	ND*	ND*	ND*	0.70	ND*	27.58	10.18	30.27	21.68
28	05/01/2023	78.32	40.34	0.52	ND*	2.28	10.29	0.74	ND*	32.79	20.57	19.52	18.55
29	09/01/2023	60.11	31.25	ND*	ND*	ND*	ND*	0.40	ND*	38.79	23.50	38.52	27.59


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30	12/01/2023	84.28	45.28	0.66	ND*	2.15	10.45	0.92	ND*	28.27	13.56	32.48	10.82
31	16/01/2023	75.85	41.67	ND*	ND*	ND*	ND*	0.95	ND*	19.27	19.63	37.59	14.34
32	19/01/2023	63.67	33.42	ND*	ND*	ND*	ND*	0.73	ND*	35.48	17.81	23.91	24.58
33	23/01/2023	68.41	36.29	ND*	ND*	ND*	ND*	0.84	ND*	29.47	11.58	40.40	15.61
34	26/01/2023	80.76	42.25	0.50	ND*	2.08	10.58	1.03	ND*	33.12	14.88	35.79	22.44
35	30/01/2023	71.24	34.66	ND*	ND*	ND*	ND*	0.66	ND*	30.43	16.49	31.89	28.55
36	02/02/2023	74.38	34.22	ND*	ND*	ND*	ND*	0.95	ND*	21.26	14.58	35.68	22.59
37	06/02/2023	86.44	41.58	0.55	ND*	2.16	10.65	0.54	ND*	29.56	16.94	27.23	12.30
38	09/02/2023	71.26	38.39	ND*	ND*	ND*	ND*	0.85	ND*	26.25	10.63	36.49	28.59
39	13/02/2023	67.31	32.43	ND*	ND*	ND*	ND*	0.82	ND*	16.55	15.29	26.14	13.20
40	16/02/2023	89.22	37.51	0.67	ND*	2.39	10.23	0.76	ND*	39.86	18.63	12.88	16.30
41	20/02/2023	81.62	42.23	0.71	ND*	2.24	10.34	0.97	ND*	32.42	24.58	34.55	19.29
42	23/02/2023	73.89	39.36	ND*	ND*	ND*	ND*	0.71	ND*	19.24	21.70	32.18	25.59
43	27/02/2023	70.31	36.65	ND*	ND*	ND*	ND*	0.65	ND*	38.57	19.94	37.52	14.11
44	02/03/2023	75.23	39.21	ND*	ND*	ND*	ND*	0.48	ND*	31.28	22.53	29.49	18.67
45	06/03/2023	87.57	43.66	0.60	ND*	2.45	10.29	0.65	ND*	34.25	13.98	26.29	23.82
46	09/03/2023	74.26	36.52	ND*	ND*	ND*	ND*	0.92	ND*	39.35	16.27	30.47	26.70
47	13/03/2023	85.45	47.47	0.54	ND*	2.34	10.67	0.78	ND*	33.25	20.99	33.63	16.21
48	16/03/2023	63.51	24.66	ND*	ND*	ND*	ND*	0.84	ND*	17.49	15.70	38.47	22.82
49	20/03/2023	71.57	34.28	ND*	ND*	ND*	ND*	1.00	ND*	28.85	19.91	27.23	15.58
50	23/03/2023	86.43	40.41	0.64	ND*	2.24	10.41	0.47	ND*	36.94	17.24	36.24	24.23
51	27/03/2023	69.63	33.56	ND*	ND*	ND*	ND*	0.33	ND*	32.46	11.38	28.39	20.44
52	30/03/2023	84.28	42.59	ND*	ND*	ND*	ND*	0.58	ND*	22.46	21.18	32.32	27.32

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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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

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	03/10/2022	65.43	30.44	ND*	ND*	ND*	ND*	0.46	ND*	15.66	6.53	14.20	10.22
2	06/10/2022	51.54	21.94	ND*	ND*	ND*	ND*	0.34	ND*	11.51	14.19	19.77	22.48
3	10/10/2022	62.26	29.59	ND*	ND*	ND*	ND*	0.68	ND*	27.35	10.25	28.67	13.57
4	13/10/2022	48.24	16.17	ND*	ND*	ND*	ND*	0.36	ND*	13.56	12.72	30.47	21.85
5	17/10/2022	54.24	24.06	ND*	ND*	ND*	ND*	0.61	ND*	18.62	16.54	17.50	12.48
6	20/10/2022	47.07	22.79	ND*	ND*	ND*	ND*	0.41	ND*	23.27	13.16	22.60	23.52
7	23/10/2022	41.63	14.19	ND*	ND*	ND*	ND*	0.45	ND*	19.43	9.64	13.63	11.60
8	27/10/2022	58.57	18.10	ND*	ND*	ND*	ND*	0.73	ND*	14.23	11.22	21.50	17.57
9	31/10/2022	63.54	31.57	ND*	ND*	ND*	ND*	0.96	ND*	16.56	7.56	24.52	14.29
10	03/11/2022	49.60	18.39	ND*	ND*	ND*	ND*	0.57	ND*	18.60	10.21	26.49	14.60
11	07/11/2022	58.60	27.51	ND*	ND*	ND*	ND*	0.46	ND*	21.20	8.64	24.31	17.70
12	10/11/2022	67.10	22.42	ND*	ND*	ND*	ND*	0.52	ND*	12.60	14.48	29.41	15.20
13	14/11/2022	41.20	14.49	ND*	ND*	ND*	ND*	0.44	ND*	15.30	9.52	18.60	12.50
14	17/11/2022	55.20	21.82	ND*	ND*	ND*	ND*	0.77	ND*	19.10	12.60	20.21	16.50
15	21/11/2022	65.40	24.61	ND*	ND*	ND*	ND*	0.53	ND*	14.70	6.24	14.09	11.50
16	24/11/2022	50.20	16.80	ND*	ND*	ND*	ND*	0.37	ND*	23.10	16.47	30.20	13.49
17	28/11/2022	45.60	12.88	ND*	ND*	ND*	ND*	0.31	ND*	16.50	13.53	22.71	18.60
18	01/12/2022	54.25	19.27	ND*	ND*	ND*	ND*	0.71	ND*	16.25	7.65	25.39	20.25
19	05/12/2022	40.34	14.52	ND*	ND*	ND*	ND*	0.57	ND*	23.46	15.25	17.58	26.41
20	08/12/2022	44.34	23.36	ND*	ND*	ND*	ND*	0.87	ND*	14.54	17.54	20.40	14.88
21	12/12/2022	59.76	21.24	ND*	ND*	ND*	ND*	0.52	ND*	19.41	8.70	27.50	18.61
22	15/12/2022	51.35	15.53	ND*	ND*	ND*	ND*	0.31	ND*	13.58	14.59	18.63	11.24
23	19/12/2022	56.35	20.48	ND*	ND*	ND*	ND*	0.86	ND*	11.51	9.68	16.50	13.66
24	22/12/2022	65.17	28.79	ND*	ND*	ND*	ND*	0.69	ND*	18.54	6.65	19.52	15.37
25	26/12/2022	55.34	26.28	ND*	ND*	ND*	ND*	0.58	ND*	12.46	12.49	15.70	21.59
26	29/12/2022	50.38	16.75	ND*	ND*	ND*	ND*	0.55	ND*	17.51	10.22	23.96	10.62
27	02/01/2023	57.76	24.55	ND*	ND*	ND*	ND*	0.21	ND*	20.13	12.34	20.23	18.39
28	05/01/2023	50.23	28.41	ND*	ND*	ND*	ND*	0.33	ND*	25.68	9.55	15.36	11.62
29	09/01/2023	55.39	25.63	ND*	ND*	ND*	ND*	0.32	ND*	15.29	6.56	24.54	16.85


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30	12/01/2023	61.69	30.54	ND*	ND*	ND*	ND*	0.72	ND*	10.21	15.39	28.25	20.69
31	16/01/2023	46.27	20.43	ND*	ND*	ND*	ND*	0.44	ND*	12.53	11.28	30.22	10.42
32	19/01/2023	54.86	23.28	ND*	ND*	ND*	ND*	0.63	ND*	18.52	7.50	23.19	14.22
33	23/01/2023	42.57	18.29	ND*	ND*	ND*	ND*	0.25	ND*	14.22	10.33	32.54	23.92
34	26/01/2023	62.32	34.52	ND*	ND*	ND*	ND*	0.19	ND*	22.63	8.65	25.33	15.16
35	30/01/2023	56.46	31.82	ND*	ND*	ND*	ND*	0.42	ND*	26.51	17.51	18.07	19.60
36	02/02/2023	55.32	27.26	ND*	ND*	ND*	ND*	0.41	ND*	11.28	17.48	24.33	12.41
37	06/02/2023	66.27	25.96	ND*	ND*	ND*	ND*	0.17	ND*	21.22	14.16	29.42	14.70
38	09/02/2023	51.22	16.72	ND*	ND*	ND*	ND*	0.57	ND*	13.71	11.94	17.89	22.71
39	13/02/2023	62.43	26.42	ND*	ND*	ND*	ND*	0.32	ND*	18.65	9.25	34.56	17.60
40	16/02/2023	68.35	30.92	ND*	ND*	ND*	ND*	0.56	ND*	35.86	7.22	15.56	19.60
41	20/02/2023	58.35	33.66	ND*	ND*	ND*	ND*	0.72	ND*	10.36	13.48	27.58	25.41
42	23/02/2023	49.23	21.45	ND*	ND*	ND*	ND*	0.38	ND*	8.19	8.36	25.35	13.50
43	27/02/2023	65.49	23.29	ND*	ND*	ND*	ND*	0.40	ND*	16.36	6.26	21.52	10.60
44	02/03/2023	50.27	20.39	ND*	ND*	ND*	ND*	0.31	ND*	22.34	13.44	31.50	10.32
45	06/03/2023	75.35	36.93	ND*	ND*	ND*	ND*	0.55	ND*	27.62	10.38	23.41	17.77
46	09/03/2023	53.44	22.43	ND*	ND*	ND*	ND*	0.45	ND*	22.48	8.24	19.43	24.46
47	13/03/2023	63.68	35.38	ND*	ND*	ND*	ND*	0.69	ND*	11.22	12.28	24.26	19.20
48	16/03/2023	44.67	19.42	ND*	ND*	ND*	ND*	0.30	ND*	14.24	6.25	26.37	11.56
49	20/03/2023	49.27	17.61	ND*	ND*	ND*	ND*	0.57	ND*	26.42	17.51	18.47	13.43
50	23/03/2023	58.39	25.39	ND*	ND*	ND*	ND*	0.17	ND*	19.86	14.54	22.34	16.11
51	27/03/2023	47.57	16.28	ND*	ND*	ND*	ND*	0.29	ND*	15.32	7.60	19.56	18.46
52	30/03/2023	69.34	34.19	ND*	ND*	ND*	ND*	0.53	ND*	18.33	11.14	23.44	23.37

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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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

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

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Colour	Hazen	2	3	2	2	3	4
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.11	0.15	0.18	0.19	0.21	0.29
5	pH Value	--	7.95	7.74	7.82	7.71	7.69	7.51
6	Total Hardness as CaCO ₃	mg/L	511	520	528	512	493	463
7	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Chloride as Cl	mg/L	159	163	178	169	193	172
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.35	0.27	0.29	0.37	0.31	0.22
11	Total Dissolved Solids	mg/L	1339	1278	1296	1029	1168	1123
12	Calcium as Ca	mg/L	88	92	99.2	92.8	110	104
13	Magnesium as Mg	mg/L	69.84	69.6	67.2	67.2	51.84	48.72
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	49.6	40.68	42.63	35.17	51.23	47.6
17	Nitrate Nitrogen as NO ₃	mg/L	3.96	7.13	5.32	4.69	6.14	5.16
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	0.26	0.18	0.14	0.23	0.23	0.17
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	298	316	268	278	254	242
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
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


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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
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 - 2022 to March - 2022

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Colour	Hazen	2	3	4	3	3	2
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.2	0.31	0.27	0.24	0.24	0.14
5	pH Value	--	7.86	7.56	7.06	7.63	7.13	7.38
6	Total Hardness as CaCO ₃	mg/L	429	410	424	418	368	394
7	Iron as Fe	mg/L	0.12	0.075	0.069	0.071	0.079	0.065
8	Chloride as Cl	mg/L	149	128	132	130	123	149
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.32	0.28	0.3	0.19	0.27	0.32
11	Total Dissolved Solids	mg/L	1301	1246	1186	1037	973	1062
12	Calcium as Ca	mg/L	70	65.2	67.6	76	59.2	64
13	Magnesium as Mg	mg/L	60.96	59.28	61.2	54.72	52.8	56.8
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	40.6	34.68	42.79	35.16	37.52	44.3
17	Nitrate Nitrogen as NO ₃	mg/L	3.88	4.17	3.96	3.81	4.39	3.82
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	0.22	0.17	0.16	0.09	0.24	0.18
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	311	297	246	260	306	324
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
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


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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
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 - 2022 to March - 2022**

Sr. No.	Parameters	Unit	At Mora Village (Surface Water – Pond)					
			Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	2	2	4	3	2	3
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	7.69	7.37	7.29	7.19	7.13	7.49
5	Turbidity	NTU	0.19	0.15	0.13	0.27	0.17	0.15
6	Total Dissolved Solids	mg/L	642	684	632	691	564	618
7	Total Hardness as CaCO ₃	mg/L	212	229	218	238	187	211
8	Chloride as Cl	mg/L	58.9	64	61.49	67.97	79	62.9
9	Fluoride as F	mg/L	0.45	0.39	0.34	0.26	0.43	0.52
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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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

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 - 2022 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")											
			31/10/2022		29/11/2022		29/12/2022		20/01/2023		27/02/2023		20/03/2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.18	8.13	8.29	8.25	8.34	8.28	8.17	8.06	8.21	8.19	8.15	8.07
2	Temperature	°C	28.5	28.2	29.1	28.7	29.5	29.4	29.3	29	29.6	29.4	30	29.9
3	Total Suspended Solids	mg/L	129	115	137	126	128	115	146	132	167	148	170	163
4	BOD (3 Days @ 27 °C)	mg/L	3.68	3.4	4.7	3.9	4.96	4.62	4.52	4.16	4.32	3.96	5.6	4.9
5	Dissolved Oxygen	mg/L	5.8	5.7	5.9	5.8	5.85	5.8	5.8	5.7	5.5	5.4	5.85	5.7
6	Salinity	ppt	33.14	33.48	34.26	34.48	34.62	34.95	34.26	34.12	33.16	33.42	33.74	33.98
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	4.13	3.92	3.83	3.71	3.57	3.4	4.06	3.91	5.78	5.52	7.26	6.73
9	Nitrite as NO ₂	μmol/L	0.25	0.2	0.49	0.38	0.25	0.21	0.47	0.32	0.91	0.78	0.94	0.86
10	Ammonical Nitrogen as NH ₄	μmol/L	2.31	2.25	2.56	2.43	2.36	2.29	2.51	2.43	3.06	2.81	3.18	3.02
11	Phosphates as PO ₄	μmol/L	1.78	1.63	2.08	1.97	2.19	2.05	1.96	1.89	2.27	2.16	2.75	2.61
12	Total Nitrogen	μmol/L	6.69	6.37	6.88	6.52	6.18	5.9	7.82	6.97	9.98	9.32	11.46	10.89
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	34418	34709	35519	35678	35756	36114	35476	35318	34392	34632	34468	35192
15	COD	mg/L	15	12	18	15	20.4	17.6	19	16	17.8	14.2	21	19
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.48	2.37	2.83	2.45	3.09	2.93	2.83	2.75	2.64	2.56	3.01	2.96
16.2	Phaeophytin	mg/m ³	1.11	1.23	0.76	1.15	0.49	0.33	0.76	0.86	0.68	1.04	0.44	0.36
16.3	Cell Count	No. x 10 ³ /L	214	208	228	219	258	239	265	238	244	221	296	274
16.4	Name of Group Number and name of group species of each group	--	Oscillatoria sp. Thalassiosira sp. Melosira sp. Ankistrodesmus sp.	Nitzschia sp. Guriniardia sp. Gyrodinium sp. Leptocylindrus sp.	Leptocylindrus sp. Ankistrodesmus sp. Amphiodia sp. Melosira sp. Cyclotella sp.	Nitzschia sp. Navicula sp. Thalassiosira sp. Bacteriaster sp.	Ankistrodesmus sp. Coscinodiscus sp. Rhizosolenia sp. Melosira sp. Cyclotella sp.	Navicula sp. Nitzschia sp. Thalassiosira sp. Ulothrix sp. Synedra sp.	Ankistrodesmus sp. Coscinodiscus sp. Rhizosolenia sp. Melosira sp. Cyclotella sp.	Navicula sp. Nitzschia sp. Thalassiosira sp. Ulothrix sp. Synedra sp.	Leptocylindrus sp. Guillardia sp. Rhizosolenia sp. Thalassiosira sp. Navicula sp.	Nitzschia sp. Synedra sp. Gyrodinium sp. Fragilaria sp.	Ankistrodesmus sp. Pedicellina sp. Oscillatoria sp. Skeletomena sp. Leptocylindrus sp. Rhizosolenia sp.	Navicula sp. Nitzschia sp. Closterium sp. Scenedesmus sp. Gyrodinium sp.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



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")											
			31/10/2022 2		29/11/2022 2		29/12/2022 2		20/01/2022 3		27/02/2022 3		20/03/2022 3	
			Surfac e	Botto m	Surfac e	Botto m	Surfac e	Botto m	Surface	Botto m	Surface	Botto m	Surfac e	Botto m
B Zooplanktons														
17.1	Abundance (Population)	Nox103/100 m3	32		42		32		24		29		21	
17.2	Name of Group Number and name of group species of each group	--	Amphipods Polychaetes Siphonophores		Copepods Chaetognaths Polychaetes Amphipods		Copepods Polychaetes Amphipods Gastropods		Copepods Polychaetes Gastropods		Copepods Polychaetes Amphipods Foraminiferans		Copepods Polychaetes Cladocerans Lamellibranches	
17.3	Total Biomass	ml/100 m²	2.95		4.05		3.05		2.35		2.70		2.05	
C Microbiological Parameters														
18.1	Total Bacterial Count	CFU/ml	2520		2640		2480		2710		2570		2530	
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 - 2022 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")											
			31/10/2022		29/11/2022		29/12/2022		20/01/2022		27/02/2022		20/03/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.07	7.98	8.25	8.21	8.31	8.25	8.19	8.12	8.27	8.19	8.19	8.05
2	Temperature	°C	28.6	28.4	29	28.7	29.7	29.4	29.3	29.1	29.5	29.4	30.1	30
3	Total Suspended Solids	mg/L	135	126	157	139	140	123	156	140	171	153	165	147
4	BOD (3 Days @ 27 °C)	mg/L	3.4	3	5.6	4.1	5.2	4.3	5.82	5.14	5.46	4.2	4.9	4.6
5	Dissolved Oxygen	mg/L	5.8	5.75	5.95	5.8	5.9	5.75	5.85	5.7	5.65	5.5	5.8	5.75
6	Salinity	ppt	33.29	33.6	34.39	34.67	34.18	34.56	34.36	34.69	32.96	33.28	33.38	33.56
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	3.84	3.7	3.76	3.64	3.62	3.48	4.01	3.92	4.31	4.19	6.19	5.73
9	Nitrite as NO ₂	μmol/L	0.35	0.26	0.43	0.37	0.36	0.31	0.57	0.51	0.63	0.48	0.78	0.62
10	Ammonical/Nitrogenous NH ₃	μmol/L	2.4	2.31	2.71	2.66	2.54	2.4	2.45	2.39	2.81	2.61	2.64	2.37
11	Phosphates as PO ₄	μmol/L	1.91	1.87	2.19	1.9	2.27	2.21	2.03	1.98	2.16	2.03	2.36	2.19
12	Total Nitrogen	μmol/L	6.59	6.27	6.9	6.67	6.52	6.19	7.46	7.12	7.84	7.46	9.61	8.72
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	34592	34805	35576	35798	35346	35724	35490	35792	34219	34532	34598	34798
15	COD	mg/L	15	13	21	17	19.7	15.6	23	19	20.4	17.6	18.2	15.6
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.58	2.4	2.67	2.48	2.94	2.72	2.72	2.58	2.59	2.48	2.86	2.32
16.2	Phaeophytin	mg/m ³	0.49	1.32	1.05	0.6	0.6	0.94	1	0.49	1.13	0.6	0.68	0.87
16.3	Cell Count	Nox 10 ³ /L	225	207	239	219	252	236	242	226	236	218	296	278
16.4	Name of Group Number and name of group species of each group	--	Thalassiosira sp. Skeletone nema sp. Coscinodiscus sp. Guinardia sp. Leptocylindrus sp. Synedra sp.	Fragililaria sp. Navicula sp. Nitzschia sp. Nitzschia sp. Cymbella sp. Gyrosigma sp.	Oscillatoria sp., Navicula sp. Ankistrodesmus sp. Guinardia sp. Gyrosigma sp. Melosira sp.	Ceratoceros sp. Nitzschia sp. Cymbella sp. Gyrosigma sp. Fragililaria sp.	Pleurosigma sp. Ankistrodesmus sp. Skeletone ma sp. Coscinodiscus sp. Ulothrix sp. Leptocylindrus sp.	Nitzschia sp. Navicula sp. Synechocystis sp. Melosira sp. Cymbella sp. Pleurosigma sp.	Pleurosigma sp. Ankistrodesmus sp. Skeletone ma sp. Coscinodiscus sp. Ulothrix sp. Leptocylindrus sp.	Nitzschia sp. Navicula sp. Synechocystis sp. Melosira sp. Cymbella sp. Gyrosigma sp.	Rhizosolenia sp. Coscinodiscus sp. Ulothrix sp. Leptocylindrus sp. Navicula sp.	Navicula sp. Nitzschia sp. Fragililaria sp. Melosira sp. Gyrosigma sp.	Scenedesmus sp. Anacystis sp. Pediastrum sp. Fragililaria sp. Leptocylindrus sp.	Navicula sp. Nitzschia sp. Closterium sp. Melosira 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")											
			31/10/2022		29/11/2022		29/12/2022		20/01/2023		27/02/2023		20/03/2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B Zooplanktons														
17.1	Abundance (Population)	Nox103/100m3	29		36		28		23		27		40	
17.2	Name of Group Number and name of group species of each group	--	Lamellibranch es Amphipods Copepods Polychaetes		Lamellibranches Polychaetes Gastropods Decapods		Polychaetes Gastropods Bivalves Mysids		Polychaetes Gastropods Bivalves Mysids		Polychaetes Gastropods Copepods Bivalves		Polychaetes Gastropods Bivalves Mysids	
17.3	Total Biomass	ml/100 m ³	2.75		3.4		2.60		2.10		2.60		3.75	
C Microbiological Parameters														
18.1	Total Bacterial Count	CFU/ml	2410		2370		2580		2360		2610		2540	
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-1.11: Sea Water Quality Analysis Results of CB1 End towards Channel from the Sea Basin for the period: October - 2022 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")											
			31/10/2022		29/11/2022		29/12/2022		20/01/2023		27/02/2023		20/03/2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.21	8.15	8.15	8.21	8.29	8.23	8.17	8.12	8.25	8.17	8.2	8.13
2	Temperature	°C	28.6	28.4	29.7	29.6	29.6	29.4	29.3	29.1	29.6	29.5	30.2	30.1
3	Total Suspended Solids	mg/L	117	108	146	128	132	120	156	139	187	161	160	149
4	BOD (3 Days @ 27 °C)	mg/L	3.56	3.36	4.9	4.4	6	5.34	5.7	5.2	6.1	5.7	4.7	4.43
5	Dissolved Oxygen	mg/L	5.85	5.75	5.9	5.8	5.85	5.75	5.8	5.65	5.7	5.6	5.8	5.7
6	Salinity	ppt	33.26	33.54	34.3	34.62	34.52	34.98	34.29	34.58	33.62	34.08	33.14	33.48
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	3.91	3.82	3.74	3.68	3.92	3.69	4.13	4.01	4.28	4.16	6.49	6.13
9	Nitrite as NO ₂	μmol/L	0.34	0.28	0.56	0.43	0.38	0.32	0.5	0.43	0.57	0.49	0.69	0.57
10	Ammonical/Nitrogen as NH ₄	μmol/L	2.25	2.16	2.37	2.29	2.21	2.16	2.39	2.27	2.48	2.37	2.53	2.41
11	Phosphates as PO ₄	μmol/L	2.16	2.07	2.39	2.18	2.17	2.09	2.06	1.93	2.27	2.16	2.31	2.2
12	Total Nitrogen	μmol/L	6.5	6.26	6.67	6.4	6.51	6.17	7.54	6.82	7.61	7.48	9.78	9.29
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	34506	34762	35476	35732	35702	36128	35480	35693	34826	35246	34418	34678
15	COD	mg/L	15	13	21	19	23.2	20.6	21	19	24	20	19	17.2
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.56	2.34	2.69	2.45	2.91	2.61	2.77	2.42	2.67	2.48	2.8	2.24
16.2	Phaeophytin	mg/m ³	0.67	0.62	0.39	0.52	0.25	0.24	0.31	0.54	0.41	0.49	0.19	0.9
16.3	Cell Count	Nox 10 ³ /L	207	199	232	224	256	239	245	236	238	228	281	245
16.4	Name of Group Number and name of group species of each group	--	Scenedesmus sp. Closterium sp. Gyrosigma sp. Rhizosolenia sp. Leptocylindrus sp. Skeletonelema sp.	Nitzschia sp. Cymbella sp. Navicula sp. Thalassiosira sp. Fragillaria sp.	Guinardia sp. Leptocylindrus sp. Thalassionema sp. Rhizosolenia sp. Cyclotella sp. Closterium sp.	Nitzschia sp. Gyrosigma sp. Fragillaria sp. Thalassiosira sp. Cymbella sp.	Leptocylindrus sp. Rhizosolenia sp. Closterium sp. Skeletonelema sp. Thalassiosira sp. Cymbella sp.	Nitzschia sp. Navicula sp. Cyclotella sp. Pleurosigma sp. Synedra sp.	Leptocylindrus sp. Rhizosolenia sp. Closterium sp. Skeletonelema sp. Cymbella sp.	Nitzschia sp. Navicula sp. Gyrosigma sp. Ulothrix sp. Rhizosolenia sp.	Leptocylindrus sp. Rhizosolenia sp. Closterium sp. Cymbella sp. Skeletonelema sp.	Nitzschia sp. Ulothrix sp. Fragillaria sp. Gyrosigma sp. Synedra sp.	Leptocylindrus sp. Rhizosolenia sp. Scenedesmus sp. Skeletonelema sp. Nitzschia sp.	Navicula sp. Fragillaria sp. Gyrosigma sp. Synedra sp.

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



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")											
			31/10/2022 2		29/11/2022 2		29/12/2022 2		20/01/2022 3		27/02/2022 3		20/03/2022 3	
			Surfac e	Botto m	Surfac e	Botto m	Surfac e	Botto m	Surface	Botto m	Surface	Botto m	Surfac e	Botto m
B	Zooplanktons													
17.1	Abundance (Population)	Nox103/100 m3	27		38		30		25		29		37	
17.2	Name of Group Number and name of group species of each group	--	Gastropods Polychaetes Copepods Foraminiferans		Gastropods Polychaetes Amphipods Copepods		Gastropods Polychaetes Bivalves Amphipods		Gastropods Polychaetes Bivalves		Gastropods Polychaetes Amphipods Bivalves		Gastropods Polychaetes Bivalves Ostracods	
17.3	Total Biomass	ml/100 m²	2.65		3.6		2.95		2.40		2.75		3.40	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ml	2700		2510		2320		2450		2560		2630	
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 - 2022 to March - 2022**

Sr. No.	Parameters	Unit	29/11/2022	29/11/2022	27/02/2023	27/02/2023
			OLD COAL YARD	PET COCK	OLD COAL YARD	PET COCK
1	pH	--	8.54	8.61	8.32	8.53
2	Total Dissolved Solids	mg/L	2198	2275	2017	2167
3	Total Suspended Solids	mg/L	57	68	51	59
4	Turbidity	NTU	8.1	10.4	11.6	9.3
5	BOD (3 Days @ 27 °C)	mg/L	37	47	41	37
6	Dissolved Oxygen	mg/L	5.9	6	5.95	6.05
7	COD	mg/L	168	182	153	172
8	Salinity	ppt	1.34	1.45	1.23	1.44
9	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10	Total Hardness as CaCO ₃	mg/L	180	186	174	213
11	Fluoride as F	mg/L	0.5	0.53	0.57	0.46
12	Chloride as Cl	mg/L	746	804	769	798
13	Zinc as Zn	mg/L	0.25	0.19	0.27	0.15
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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Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

**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 - 2022 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	03/10/2022	03/11/2022	01/12/2022	02/01/2023	02/02/2023	02/03/2023
06:00-07:00	73.6	69.6	69.5	71.6	68.2	73.8
07:00-08:00	61.5	61.2	63.6	66.9	61.6	69.5
08:00-09:00	68.3	72.5	71.4	67.2	71.5	70.1
09:00-10:00	62.4	68.3	65.9	70.5	61.2	65.9
10:00-11:00	66.9	59.1	63.1	60.6	65.9	63.2
11:00-12:00	69.2	55.5	66.6	63.2	61.5	66.6
12:00-13:00	59.8	54.6	56.2	61.8	57.2	59.5
13:00-14:00	61.1	57.9	64.8	67.5	56.8	65.2
14:00-15:00	70.5	65.2	73.4	69.3	69.5	67.3
15:00-16:00	63.3	68.1	66.8	64.5	62.3	62.9
16:00-17:00	60.2	62.6	58.2	61.5	61.4	64.1
17:00-18:00	56.1	54.1	53.7	56.9	58.3	59.8
18:00-19:00	65.9	63.3	67.4	72.4	62.7	69.2
19:00-20:00	71.0	52.9	66.5	63.5	55.1	66.8
20:00-21:00	62.7	64.6	61.7	66.3	60.2	64.2
21:00-22:00	66.3	68.7	67.3	64.1	64.8	67.4

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

Day Time shall mean from 6:00 am to 10:00 pm

Table-1.14: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October - 2022 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	03/10/2022 & 04/10/2022	03/11/2022 & 04/11/2022	01/12/2022 & 02/12/2022	02/01/2023 & 03/01/2023	02/02/2023 & 03/02/2023	02/03/2023 & 03/03/2023
22:00-23:00	48.5	52.1	51.2	53.6	51.4	55.5
23:00-00:00	51.6	55.4	53.6	56.5	55.6	57.2
00:00-01:00	54.3	50.3	52.8	54.2	58.9	58.1
01:00-02:00	58.9	56.6	54.2	56.9	54.3	54.3
02:00-03:00	52.1	51.2	50.6	57.8	59.7	60.2
03:00-04:00	60.6	58.9	56.9	60.2	51.7	57.4
04:00-05:00	62.5	49.3	59.7	63.4	59.0	59.6
05:00-06:00	59.7	52.4	54.3	52.1	60.2	55.3

#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.

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**Table-1.15: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2022 to September, 2022 At HSE Building Terrace**

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	10/10/2022	10/11/2022	08/12/2022	05/01/2023	09/02/2023	09/03/2023
06:00-07:00	58.4	65.3	62.6	64.5	70.2	66.3
07:00-08:00	69.4	63.9	67.5	70.4	65.9	70.4
08:00-09:00	60.2	60.2	66.9	64.3	69.3	64.3
09:00-10:00	64.9	57.1	62.5	66.9	64.7	66.9
10:00-11:00	72.5	66.9	69.3	65.4	68.2	65.4
11:00-12:00	59.1	70.4	64.8	62.2	63.9	62.2
12:00-13:00	63.6	51.9	68.3	71.9	66.7	71.9
13:00-14:00	64.5	62.6	69.1	65.1	70.9	67.1
14:00-15:00	52.3	54.9	56.8	61.5	61.5	61.5
15:00-16:00	66.8	64.5	63.9	67.8	66.8	67.8
16:00-17:00	65.9	60.8	62.7	66.3	58.9	68.2
17:00-18:00	61.5	69.1	65.6	62.1	73.4	65.7
18:00-19:00	55.2	56.2	58.3	60.2	61.7	62.8
19:00-20:00	63.7	58.6	67.2	65.3	57.6	61.4
20:00-21:00	58.2	63.2	64.9	69.2	59.1	66.5
21:00-22:00	60.3	59.6	65.2	62.4	62.0	59.1

#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 - 2022 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	10/10/2022 & 11/10/2022	10/11/2022 & 11/11/2022	08/12/2022 & 09/12/2022	05/01/2023 & 06/01/2023	09/02/2023 & 10/02/2023	09/03/2023 & 10/03/2023
22:00-23:00	55.3	58.7	52.4	55.7	54.5	53.2
23:00-00:00	56.8	53.6	50.7	53.9	58.3	58.3
00:00-01:00	58.1	51.9	54.3	56.4	51.4	53.5
01:00-02:00	50.9	47.8	46.2	46.2	55.2	49.7
02:00-03:00	61.5	60.2	58.3	58.3	54.3	55.1
03:00-04:00	57.8	61.3	53.8	56.1	53.9	52.9
04:00-05:00	59.4	52.4	56.2	60.9	58.7	57.4
05:00-06:00	63.1	49.5	59.9	57.5	51.2	53.6

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

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 - 2022 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	13/10/2022	14/11/2022	12/12/2022	09/01/2023	13/02/2023	13/03/2023
06:00-07:00	62.9	66.7	66.3	69.6	56.1	67.2
07:00-08:00	59.1	55.4	62.7	64.1	59.7	66.1
08:00-09:00	55.6	67.8	59.2	63.9	55.0	66.0
09:00-10:00	60.7	62.2	65.9	62.8	62.2	69.2
10:00-11:00	58.2	57.6	56.1	54.2	54.3	56.1
11:00-12:00	65.5	68.5	69.8	73.7	67.7	70.7
12:00-13:00	57.3	65.9	61.0	65.5	55.2	63.5
13:00-14:00	66.9	68.7	70.4	68.2	66.3	64.8
14:00-15:00	59.6	59.3	55.7	59.4	57.8	57.3
15:00-16:00	60.5	69.7	66.4	69.3	71.2	71.4
16:00-17:00	56.3	61.4	59.5	63.6	55.3	65.6
17:00-18:00	70.2	68.6	64.5	68.7	63.0	64.9
18:00-19:00	63.9	65.5	67.9	72.5	63.9	67.3
19:00-20:00	57.4	62.7	54.1	56.9	56.2	59.5
20:00-21:00	52.5	61.9	56.6	58.7	62.7	54.2
21:00-22:00	59.2	56.3	62.9	65.1	65.2	68.3

#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-1.18: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: October - 2022 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	13/10/2022 & 14/10/2022	14/11/2022 & 15/11/2022	12/12/2022 & 12/12/2022	09/01/2023 & 10/01/2023	13/02/2023 & 14/02/2023	13/03/2023 & 14/03/2023
22:00-23:00	58.7	55.5	54.2	59.6	56.1	56.4
23:00-00:00	54.2	56.1	52.1	55.8	54.2	52.1
00:00-01:00	62.4	56.0	59.7	60.1	57.9	57.2
01:00-02:00	53.1	65.5	51.1	53.4	56.2	52.2
02:00-03:00	59.6	59.7	54.3	61.7	58.7	58.4
03:00-04:00	55.4	57.3	50.5	53.9	55.2	55.0
04:00-05:00	61.3	64.5	58.9	62.5	61.3	60.8
05:00-06:00	57.9	55.9	53.3	56.7	58.9	54.2

#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-1.19: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: October - 2022 to March - 2022 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	06/10/2022	07/11/2022	05/12/2022	12/01/2023	06/02/2023	06/03/2023
06:00-07:00	65.5	61.5	61.7	65.9	66.5	62.8
07:00-08:00	57.2	73.6	54.8	58.3	69.7	61.7
08:00-09:00	53.7	65.3	56.3	60.2	63.7	58.4
09:00-10:00	52.2	56.1	56.2	54.1	56.1	57.8
10:00-11:00	69.6	62.9	72.4	69.5	59.8	67.3
11:00-12:00	60.3	59.6	65.8	63.9	60.8	60.5
12:00-13:00	68.8	55.2	63.6	67.5	61.3	66.4
13:00-14:00	57.4	58.8	61.5	66.4	57.7	69.2
14:00-15:00	65.2	64.2	69.7	72.6	59.6	68.1
15:00-16:00	64.7	54.1	62.2	59.1	52.1	61.6
16:00-17:00	58.6	66.6	61.6	66.0	57.3	63.3
17:00-18:00	63.5	70.4	67.0	64.5	68.2	67.4
18:00-19:00	68.6	67.2	73.9	69.1	58.8	72.8
19:00-20:00	56.2	69.3	58.7	61.2	58.1	57.2
20:00-21:00	61.9	59.5	66.3	64.8	72.5	61.8
21:00-22:00	62.4	63.4	65.2	63.6	61.7	66.5

*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 - 2022 to March - 2022 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	06/10/2022 & 07/10/2022	07/11/2022 & 08/11/2022	05/12/2022 & 06/12/2022	12/01/2023 & 13/01/2023	06/02/2023 & 07/02/2023	06/03/2023 & 07/03/2023
22:00-23:00	56.6	53.2	52.4	56.2	58.4	60.5
23:00-00:00	49.4	57.8	46.3	49.7	60.2	51.4
00:00-01:00	56.3	44.1	53.7	55.1	55.2	52.9
01:00-02:00	59.8	55.4	56.2	59.7	58.5	61.7
02:00-03:00	54.1	48.3	51.3	56.0	57.1	54.6
03:00-04:00	59.0	50.2	58.4	61.4	58.3	59.7
04:00-05:00	53.2	51.7	49.8	52.9	53.2	55.1
05:00-06:00	62.4	58.9	59.6	62.6	61.3	60.6

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

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: April, 2022 to September, 2022 At Hazira Village**

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	17/10/2022	17/11/2022	15/12/2022	16/01/2023	16/02/2023	16/03/2023
06:00-07:00	71.3	69.5	69.6	67.1	66.9	65.5
07:00-08:00	53.2	66.9	57.4	54.2	67.1	57.2
08:00-09:00	67.5	62.4	70.6	69.9	56.1	67.8
09:00-10:00	59.1	60.6	56.4	53.5	65.4	58.9
10:00-11:00	65.4	54.2	62.8	66.3	67.4	64.2
11:00-12:00	61.7	66.4	68.9	71.5	66.2	69.0
12:00-13:00	65.2	71.5	69.2	69.3	58.2	67.4
13:00-14:00	54.1	55.4	52.7	55.5	61.7	53.2
14:00-15:00	58.4	63.9	63.9	66.6	64.5	64.8
15:00-16:00	66.3	63.5	70.5	68.3	61.4	70.4
16:00-17:00	63.2	62.5	60.4	62.4	66.0	59.1
17:00-18:00	53.5	68.3	58.4	54.1	60.3	56.2
18:00-19:00	58.3	61.4	61.2	64.9	56.4	62.0
19:00-20:00	69.4	66.1	72.5	69.5	69.5	67.1
20:00-21:00	53.3	69.3	58.0	61.6	65.6	58.4
21:00-22:00	61.2	61.2	65.4	60.8	67.5	58.2

#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-1.22: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2022 to September, 2022 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	17/10/2022 & 18/10/2022	17/11/2022 & 18/11/2022	15/12/2022 & 16/12/2022	16/01/2023 & 17/01/2023	16/02/2023 & 17/02/2023	16/03/2023 & 17/03/2023
22:00-23:00	61.2	54.6	60.4	58.3	52.8	55.2
23:00-00:00	54.5	50.2	50.2	52.1	51.1	56.1
00:00-01:00	60.6	57.4	57.6	61.7	53.8	59.5
01:00-02:00	57.4	61.3	55.2	52.4	60.2	55.4
02:00-03:00	64.9	51.7	60.3	63.9	55.1	59.8
03:00-04:00	51.4	64.6	48.7	50.8	63.9	52.2
04:00-05:00	56.3	48.2	53.2	51.1	55.2	56.2
05:00-06:00	53.2	60.5	51.1	54.3	60.6	52.7

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

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: April,2022 to September,2022 At Suvali Village**

Sampling Location	6 - Suvali Village					
Longitude Latitude	N 21° 08.55' E 72° 38.24'					
Date of Monitoring	20/10/2022	21/11/2022	19/12/2022	19/01/2023	20/02/2023	20/03/2023
06:00-07:00	50.5	50.5	54.1	56.9	51.5	58.2
07:00-08:00	54.1	51.3	56.6	60.4	53.7	63.5
08:00-09:00	56.3	56.6	60.5	64.2	56.6	66.1
09:00-10:00	49.7	58.2	51.3	56.5	57.3	54.0
10:00-11:00	55.9	45.1	60.8	62.4	51.8	59.5
11:00-12:00	51.6	55.3	57.7	55.1	49.7	56.9
12:00-13:00	60.5	54.9	63.4	61.5	52.9	63.7
13:00-14:00	56.2	52.2	53.1	58.3	50.5	56.2
14:00-15:00	56.1	61.3	59.7	62.2	55.4	59.7
15:00-16:00	50.4	50.6	52.3	55.3	51.9	58.5
16:00-17:00	55.6	46.7	52.4	56.1	50.9	60.4
17:00-18:00	52.9	49.5	55.6	59.3	48.7	58.1
18:00-19:00	60.1	45.7	62.7	66.9	53.5	64.3
19:00-20:00	54.4	53.2	51.1	54.2	49.2	56.1
20:00-21:00	59.6	47.0	57.9	60.5	51.4	62.5
21:00-22:00	58.3	54.1	54.2	57.3	53.2	60.7

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

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

Table-1.24: Ambient Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April,2022 to September,2022 At Suvali Village

Sampling Location	6 - Suvali Village					
Longitude Latitude	N 21° 08.55' E 72° 38.24'					
Date of Monitoring	20/10/2022 & 21/10/2022	21/11/2022 & 22/11/2022	19/12/2022 & 20/12/2022	19/01/2023 & 20/01/2023	20/02/2023 & 21/02/2023	20/03/2023 & 21/03/2023
22:00-23:00	49.6	49.4	46.6	47.5	51.5	49.4
23:00-00:00	45.2	46.3	42.3	45.0	55.9	46.2
00:00-01:00	50.4	49.6	47.2	51.8	46.7	49.8
01:00-02:00	48.7	45.2	45.1	48.9	42.1	51.5
02:00-03:00	46.3	53.6	48.9	51.0	51.9	48.7
03:00-04:00	52.9	44.1	49.8	53.7	45.2	50.1
04:00-05:00	43.5	53.9	47.7	45.2	50.7	48.3
05:00-06:00	47.1	47.5	45.2	46.8	52.9	44.2

#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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4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -
Table-1.25: DG Sets Stack Monitoring Results for the period: October - 2022 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	
			28/11/2022	20/02/2023	28/11/2022	20/02/2023
1	Particulate Matter	mg/Nm ³	24.53	28.61	28.67	24.2
2	Sulphur Dioxide	ppm	4.51	7.8	6.49	8.37
3	Oxide of Nitrogen	ppm	34.23	38.56	36.19	33.67
4	Carbon Monoxide (CO)	mg/m ³	23.39	28.05	22.9	25.39
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

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

Sr. No.	Parameters	Unit	DG SET TOYO DENKI -3		SS-1 LT DG -320 KVA	
			28/11/2022	28/11/2022	28/11/2022	20/02/2023
1	Particulate Matter	mg/Nm ³	30.62	27.52	27.52	24.2
2	Sulphur Dioxide	ppm	7.55	7.41	7.41	8.37
3	Oxide of Nitrogen	ppm	38.67	38.3	38.3	33.67
4	Carbon Monoxide (CO)	mg/m ³	25.77	11.68	11.68	25.39
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

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

Sr. No.	Parameters	Unit	SS3 -DG -200 KVA		LT Phase -1 (625 KVA)	
			28/11/2022	21/02/2023	29/11/2022	21/02/2023
1	Particulate Matter	mg/Nm ³	26.81	23.55	38.41	36.23
2	Sulphur Dioxide	ppm	8.21	6.32	6.47	5.16
3	Oxide of Nitrogen	ppm	30.47	32.61	34.28	36.28
4	Carbon Monoxide (CO)	mg/m ³	10.99	11.68	18.9	21.07
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	LT Phase -2 (750 KVA)		ER-1 (100 KVA)	
			29/11/2022	21/02/2023	29/11/2022	21/02/2023
1	Particulate Matter	mg/Nm ³	32.56	39.59	26.52	28.54
2	Sulphur Dioxide	ppm	7.68	8.16	5.02	6.56
3	Oxide of Nitrogen	ppm	36.46	38.71	31.55	29.59
4	Carbon Monoxide (CO)	mg/m ³	21.19	18.9	16.26	17.41
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

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

Sr. No.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
			29/11/2022	21/02/2023	29/11/2022	20/02/2023
1	Particulate Matter	mg/Nm ³	36.24	31.55	32.48	35.43
2	Sulphur Dioxide	ppm	5.08	4.91	6.49	7.31
3	Oxide of Nitrogen	ppm	35.33	33.44	34.5	30.5
4	Carbon Monoxide (CO)	mg/m ³	15.35	16.61	14.43	15.57
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

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

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
	Sampling Date	28 & 29/11/2022	20 & 21/02/2023
1.	DG SET TOYO DENKI - 1	71.6	70.2
2.	DG SET TOYO DENKI - 2	69.5	65.8
3.	DG SET TOYO DENKI -3	62.1	69.0
4.	SS-1 LT DG -320 KVA	70.3	65.7
5.	SS3 -DG -200 KVA	64.2	60.1
6.	LT PHASE -1 (625 KVA)	68.1	55.2
7.	LT PHASE -2 (750 KVA)	63.9	63.9
8.	ER-1 (100 KVA)	67.7	64.2
9.	NDG BUILDING (380 KVA)	59.5	56.1
10.	CUSTOM BUILDING (320 KVA)	72.9	64.9

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Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com



4H. SEA SEDIMENT QUALITY MONITORING: -

Table-1.27: Sea Sediment Quality Results of CB2 South End towards Landside for the period: October - 2022 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")					
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Organic Matter	%	0.38	0.43	0.4	0.42	0.36	0.33
2	Phosphorus as P	µg/g	608	709	673	729	809	706
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	%	4.98	5.18	4.86	5.21	4.96	5.48
5.2	Total Chromium as Cr ⁺³	µg/g	127	107	119	129	99.13	83.16
5.3	Manganese as Mn	µg/g	786	703	756	718	684	705
5.4	Iron as Fe	%	5.12	4.99	5.08	4.98	5.32	5.18
5.5	Nickel as Ni	µg/g	49.72	53.27	59.73	47.26	51.94	61.37
5.6	Copper as Cu	µg/g	41.87	48.51	61.84	53.16	63.81	69.81
5.7	Zinc as Zn	µg/g	145	116	97.86	108	91.85	87.15
5.8	Lead as Pb	µg/g	1.83	2.05	1.63	1.79	2.04	1.09
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Crustaceans Polychaetes Gastropods	Polychaetes Bivalves Crustaceans	Crustaceans Polychaetes Gastropods	Crustaceans Polychaetes Amphipods Bivalves	Branchyurans Polychaetes Amphipods	Branchyurans Polychaetes Amphipods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Foraminiferans	Nematodes	Nematodes
6.3	Population	No./m ²	529	647	526	647	588	321

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 - 2022 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")					
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Organic Matter	%	0.36	0.42	0.39	0.48	0.43	0.32
2	Phosphorus as P	µg/g	674	719	682	732	783	617
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	%	5.19	5.06	4.92	5.14	5.04	5.93
5.2	Total Chromium as Cr ⁺³	µg/g	107	97.29	103	132	97.28	81.46
5.3	Manganese as Mn	µg/g	804	753	824	716	668	709
5.4	Iron as Fe	%	4.87	5.18	4.76	5.12	4.97	5.27
5.5	Nickel as Ni	µg/g	45.61	52.84	43.95	53.64	58.61	63.17
5.6	Copper as Cu	µg/g	38.59	49.13	32.54	47.26	54.27	72.15
5.7	Zinc as Zn	µg/g	87.69	115	82.13	93.15	99.61	85.32
5.8	Lead as Pb	µg/g	1.63	1.95	2.03	1.54	2.07	1.03
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Crustaceans Bivalves Gastropods Amphipods	Brachyurans Crustaceans Bivalves Polychaetes	Crustaceans Polychaetes Brachyurans	Crustaceans Polychaetes Amphipods	Branchyurans Polychaetes Crustaceans	Gastropods Polychaetes Branchyurans
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	--	Nematodes	Foraminiferans	--	Nematodes	--
6.3	Population	No./m ²	468	585	412	585	468	353

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



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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

**Table-1.29: Sea Sediment Quality Results of CB1 End towards Channel for the period: October - 2022 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")					
			31/10/2022	29/11/2022	29/12/2022	20/01/2023	27/02/2023	20/03/2023
1	Organic Matter	%	0.4	0.45	0.43	0.4	0.46	0.35
2	Phosphorus as P	µg/g	653	704	678	712	792	609
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	%	4.95	5.18	4.98	5.24	5.09	5.73
5.2	Total Chromium as Cr ⁺³	µg/g	112	126	107	118	93.17	87.16
5.3	Manganese as Mn	µg/g	736	673	712	730	629	729
5.4	Iron as Fe	%	5.2	4.97	4.89	5.19	4.82	5.13
5.5	Nickel as Ni	µg/g	59.17	48.73	53.27	48.23	53.27	59.68
5.6	Copper as Cu	µg/g	38.64	45.61	40.79	54.98	59.18	67.14
5.7	Zinc as Zn	µg/g	115	107	93.56	106	94.72	82.37
5.8	Lead as Pb	µg/g	1.78	2.07	1.89	1.73	1.95	1.15
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 Crustaceans Bivalves	Polychaetes Crustaceans Bivalves Brachyurans	Polychaetes Bivalves Crustaceans Brachyurans	Polychaetes Bivalves Crustaceans	Polychaetes Gastropods Crustaceans	Polychaetes Bivalves Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	--	Nematodes	Foraminiferans	Nematodes
6.3	Population	No./m ²	556	612	471	554	641	380

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

Authorized Signatory

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

SR. NO.	PARAMETERS	UNIT	NEAR PORT GATE NO. 2	
			29/12/2022	14/03/2023
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	1.9	1.4
3	Coarse Sand	%	6.8	2.6
4	Medium Sand	%	22.3	28
5	Fine Sand	%	41	39
6	Total Sand	%	72	71
7	Silt + Clay	%	28	29
8	pH (1:5)	--	8.59	8.84
9	Electricity Conductivity	µmho/cm	1944	2043
10	Alkali matter	mg/kg	594	660
11	Cation Exchange Capacity	meq/100 gm	12.8	13.3
12	Sodium Absorption Ratio	--	10.2	10.5
13	Organic Matter	mg/kg	0.45	0.52
14	Available Nitrogen	meq/100 gm	0.54	0.71
15	Available Potassium	mg/kg	8.15	7.2
16	Available Phosphorus	mg/kg	0.65	0.66
17	Available Sodium	mg/kg	10.2	10.1
18	Permeability	cm/sec	1.55×10^{-7}	1.30×10^{-7}

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

Authorized Signatory

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

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	
			29/12/2022	14/03/2023
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	1.2	1.2
3	Coarse Sand	%	7.8	7.8
4	Medium Sand	%	24	21
5	Fine Sand	%	42	44
6	Total Sand	%	75	74
7	Silt + Clay	%	25	26
8	pH (1:5)	--	8.76	8.72
9	Electricity Conductivity	µmho/cm	2029	1946
10	Alkali matter	mg/kg	614	640
11	Cation Exchange Capacity	meq/100 gm	13.6	14.5
12	Sodium Absorption Ratio	--	10.4	10.4
13	Organic Matter	mg/kg	0.52	0.48
14	Available Nitrogen	meq/100 gm	0.59	0.65
15	Available Potassium	mg/kg	9.2	7.9
16	Available Phosphorus	mg/kg	0.85	0.86
17	Available Sodium	mg/kg	9.9	10.4
18	Permeability	cm/sec	1.10×10^{-7}	1.45×10^{-7}

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

Authorized Signatory

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

ANNEXURE-5

Copy of ISO Certificates

CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Quality Management Systems of

Organisation: Adani Hazira Port Limited

Address: P.O. Hazira, Tal: Choryashi,
Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 9001:2015

Scope: Providing Port Facilities for Handling and
Storage of Bulk, Liquid and Containerized
Cargo

Certificate No.: IRQS/220101167

Initial Certification Date: 28/10/2013

Current Date of Granting: 26/10/2022

Expiry Date: 25/10/2025



Indian Register Quality Systems



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Quality Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. C071. Condition Overleaf

COA/IRQS/RvA/QMS/Rev 00

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Environmental Management Systems of

Organisation: Adani Hazira Port Limited

Address: P.O. Hazira, Tal: Choryashi,
Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 14001:2015

Scope: Providing Port Facilities for Handling and
Storage of Bulk, Liquid and Containerized
Cargo

Certificate No.: IRQS/220301168

Initial Certification Date: 28/10/2013

Current Date of Granting: 26/10/2022

Expiry Date: 25/10/2025



Indian Register Quality Systems



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Environmental Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. C071. Condition Overleaf

COA/IRQS/RvA/EMS/Rev 00

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Occupational Health & Safety Management Systems of

Organisation: Adani Hazira Port Limited

Address: P.O. Hazira, Tal: Choryashi,
Dist. Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 45001:2018

Scope: Providing Port Facilities for Handling and
Storage of Bulk, Liquid and Containerized
Cargo

Certificate No.: IRQS/220401169

Initial Certification Date: 28/10/2013
(unaccredited)

Current Date of Granting: 26/10/2022

Expiry Date: 25/10/2025



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Occupational Health and Safety Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. OH 007. Condition Overleaf

COA/IRQS/NABCB/OHSMS/Rev 01

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Energy Management Systems of

Organisation: Adani Hazira Port Limited

Address: P. O. Hazira, Tal. Choryashi,
District Surat - 394 270

has been assessed and found conforming to the following requirement

Standard: ISO 50001:2018

Scope: Providing Port Facilities for Handling
and Storage of Bulk, Liquid and
Containerized Cargo

Certificate No.: IRQS/221001160

Initial Certification Date: 21/11/2019

Current Date of Granting: 02/11/2022

Expiry Date: 02/11/2025



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Energy Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. EN 001. Condition Overleaf

COA/IRQS/NABCB/EnMS/Rev 01

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.

ANNEXURE-5

Copy of ISO Certificates

ANNEXURE-6

Photographs of Air Pollution Control Measures and Green Belt Area



Closed Conveyor System



Wind



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



Dry Bulk Cargo Covered with Tarpaulin to avoid dust generation



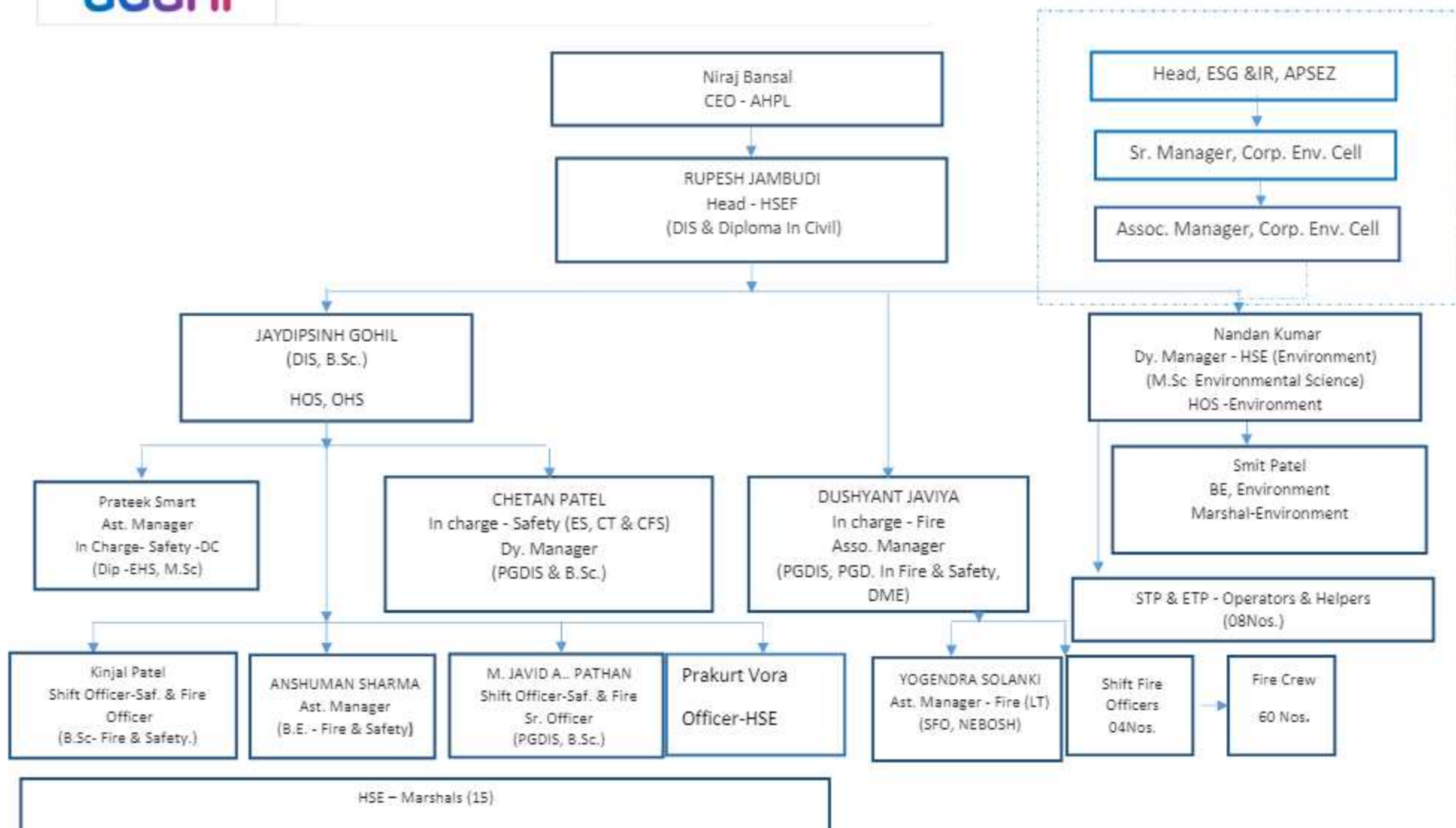
Coal Transporting Trucks Covered with Tarpaulin to avoid dust generation

Recent Photographs of Green Belt Area



ANNEXURE-7

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL



Annexure 8

Details of Environment Budget & Expenditure of Compliance Period (April-September 2022)

Environment Budget & Expenditure of FY 2022-23

Sr No	Activities	Budget for FY 2022-23	Expenditure (FY23)
		(In Lacs INR)	(In Lacs INR)
1	Environmental Study/Audit/Survey/Consultancy Services	32	19.28
2	Legal and Statutory Charges/Newspaper advertisement	10	9.45
3	Environmental Monitoring Services	21.04	16.56
4	Hazardous Waste Management	33.2	18.30
5	Horticulture Development – Greenery and Plantation	169	167
6	Manpower Sewage Treatment Plant and Effluent Treatment Plant	10	9.80
7	Disposal of Bio medical Waste	1.8	1.8
8	Water Sprinkling for dust suppression	250	210
9	Miscellaneous Environmental Initiatives and Salary of Environmental Professionals	20	18
10	ISO 14001:2015 (EMS) audit, certification, and internal audit training	3	1.5
Total		550.04	471.69

Expenditure of last three Years

Year	Budget	Expenditure (In Lacs INR)
2019-20	363.80	326.76
2020-21	479.63	418.11
2021-22	571.80	443.70

Annexure 9

Copy of Public Liability Insurance (PLI)

CONTRACT OF INSURANCE

INSURED NAME: ADANI HAZIRA PORT LIMITED.



INSURER: IFFCO TOKIO General Insurance Company Limited

Policy Type - Public Liability - Act

Policy Period - (01/04/2023 to 31/03/2024)

Servicing Branch :	AHMEDABAD
Policy Issuing Office :	IFFCO TOKIO GEN INSU. CO. LTD. Ground Floor, IFFCO Bhavan Bh Maruti Arcade, Shivranjani Cross Rd, Satellite AHMEDABAD , GUJARAT - 380015
Issuing Office GSTIN :	24AAACI7573H1ZI
Corporate Office :	IFFCO TOKIO GEN INSU. CO. LTD. 4th - 5th Floor, IFFCO Towers Plot No 3, Sector 29, GURGAON (HARYANA) - 122001
Policy No :	41078151
Unique Invoice No :	41078151
Invoice Date :	12/04/2023
SAC :	997139
Intermediary Details :	ACE INSURANCE BROKERS PVT LTD

Attaching & forming Part of
policy no. 41078151

Disclaimer:

The issuance of this Insurance Policy is subject to satisfactory verification of KYC documentation of the Client/ Policyholder as per IRDAI Master Circular dated 1st August 2022 on AML/ CFT. In case, if any discrepancy is found in KYC Verification of the Client/ Policyholder, it is agreed by the Client/ Policyholder to complete/ rectify the discrepancy found in the KYC documents/information for the generation of CKYC Number, failing which the policy will be considered ineffective/suspended/ cancelled and no claim will be payable under this Insurance Policy.

Toll Free: 1-800-103-5499; SMS "claim" to 56161
SAC Code: 9971
Regd. Office: IFFCO SADAN, C1 Distt Centre, Saket, New Delhi -110017
Corporate Identification Number (CIN) U74899DL2000PLC107621, IRDA Reg. No. 106
Consolidated Stamp Duty Deposited as per the order of Government of National Capital Territory of Delhi

For IFFCO-Tokio General Insurance Company Limited



Authorised Signatory

Regd. Office : IFFCO Sadan
C-1 Dist. Centre, Saket,
New Delhi-110017
CIN: U74899DL2000PLC107621

POLICY FORM
(PUBLIC LIABILITY INSURANCE – ACT ONLY POLICY)

1. OPERATIVE CLAUSE

Whereas the Insured Owner, named in the Schedule hereto and carrying on business described in the said Schedule, has applied to IFFCO-TOKIO General Insurance Co. Ltd. (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed thereunder.

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling hazardous substances as provided for in the said act and the rules framed thereunder.

2. DEFINITIONS

- a) "Act" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act, 1991.
- b) "Accident" means an accident involving a fortuitous or sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radio-activity.
- c) "Handling" in relation to any hazardous substance, means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance.
- d) "Hazardous Substance" means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government.
- e) "Owner" means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:-
 - (i) in the case of a firm, any of its partners;
 - (ii) in the case of an association, any of its members, and
 - (iii) in the case of a company, any of its directors, managers, secretaries or other officers who is directly in-charge of and is responsible to the company for the conduct of the business of the company.
- (f) "Turnover" shall mean –
 - i) Manufacturing units – Annual Gross Sales including all levies and taxes.
 - ii) Godown/warehouse owners – Annual rental receipts.
 - iii) Transport Operators – Annual freight receipts
 - iv) Others – Annual gross receipts

3. EXCLUSIONS

This Policy does not cover liability:

- (1) arising out of willful or intentional non-compliance of any Statutory Provisions.
- (2) in respect of fines, penalties, punitive and/or exemplary damages.
- (3) arising under any other legislation except in so far as is provided for in Section 8 Sub-Section (1) and (2) of the Act.
- (4) arising out of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured's control, care or custody.
- (5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power.
- (6) directly or indirectly caused by or contributed to by
 - a) ionizing radiations or contamination by radio activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel.
 - b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS

- (1) The Insured Owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or any specific event or circumstance that may give rise to a claim. The Insured shall immediately give to the Company copies of notice of application(s) forwarded by the Collector and all such additional information and or assistance that the Company may require.
- (2) No admission, offer, promise or payment shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.
- (3) The Company shall not be liable for any claims for relief made after five years from the date of occurrence of the accident.
- (4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.
- (5) If at the time of happening of any accident, resulting in a claim under this policy, there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its ratable proportion of such liability.
- (6) This Policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the Company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claim(s), failing which no refund of premium shall be allowable.
- (7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of cancellation.
- (8) If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for all practicable purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.
- (9) The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported by any person on behalf of the Insured and/or if the insurance has been continued in consequence of any material mis-statement or non-disclosure of any material information by or on behalf of the Insured. In such a case, if the Company pays any amount to the claimant due to any statutory provisions, such amount shall be recoverable from the Insured.
- (10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or this Policy shall bear such specific meaning.
- (11) Any dispute regarding interpretation of the terms, conditions and exceptions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.

Annexure 10

Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party
during period October 2022 to March 2023

Vessel Name	GPCB approved Recycler Name	Description	Date and time	Quantity in m3
MT FORTITUDE	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	29.01.2023 22:00	20.49
MV ARCHON	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	28.03.2023 10:00	23.94
MT SC TAIPEI	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	26.12.2022 10:00	4.2
MT EASTERLY BEECH GALAXY	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	24.03.2023 06:00	8.92
MT SAVER 1	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	23.11.2022 02:00	15.62
MV COMMON GALAXY	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	21.03.2023 06:00	17.64
MT CELSIUS BIRDIE	UNITED SHIPPING COMPANY	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	21.03.2023 20:00	17.08
MT CONDOR TRADER	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	22.02.2023 09:00	9.48
MV NAVIOS BEAUFIKS	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	21.10.2022 10:00	11.1
MV BIRTE OLDENDORFF	UNITED SHIPPING COMPANY	SLUDGE CHARGES (DISCHARGE FROM	17.02.2023 09:00	52.16

		VESSEL)		
MT SNOW PLOEG	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	20.12.2022 05:00	19.41
MT SONGA PEACE	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	20.02.2023 12:00	0.71
MV URUGUAY	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	18.02.2023 15:00	10.81
MV PROPEL GLORY	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	16.12.2022 18:00	9.45
MT BOW TRAJECTORY	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	16.11.2022 18:00	8.46
MT RAON TERESA	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	16.03.2023 06:00	13.39
MV MARAN VISION	UNITED SHIPPING COMPANY	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	08.11.2022 10:00	51.83
MT SC BRILLIANT	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	11.01.2023 09:00	3.66
MT CELSIUS BIRDIE	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	10.12.2022 10:00	14.6
TUG COASTAL AABHAAR	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	09.12.2022 06:00	6.01
MT ULRIKEN	ALICID ORGANIC INDUSTRIES LIMITED	SLUDGE CHARGES (DISCHARGE	05.11.2022 10:00	7.32

adani	ADANI HAZIRA PORT LIMITED	From: October 2022 to March 2023
--------------	----------------------------------	---

		FROM VESSEL)		
MT LILA FRONTIER	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	06.10.2022 06:00	16.31
MT LILA FRONTIER	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	03.02.2023 15:00	25.08
MT OCEAN HOPE	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	02.10.2022 08:00	1.2
MV DENSA TIGER	ATLAS ORGANICS PVT LTD	SLUDGE CHARGES (DISCHARGE FROM VESSEL)	27.02.2023 08:49	14.05