



Ports and
Logistics

Letter No.: APDPL-EHS/MOEF RO/EC Comp (I&II)/2023/01

Date: 18.05.2023

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

Sub.: - Six Monthly Compliance Report of Environment and CRZ Clearance for the period from **October 2022 to March 2023.**

Ref.: - 1) Environmental and CRZ clearances granted to M/s. Adani Petronet (Dahej) Port Pvt. Ltd. for **Phase-I and Phase-II** vide letters dated 6th July 2007 and 11th November 2008 bearing F. No.: 11-37/2007-IA-III, respectively.
2) CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG vide letter dated 16th May 2007 bearing No.: ENV-102006-71-P for **Phase-I** and letter dated 29th September 2008 bearing No.: ENV-10-2007-2126-E for **Phase-II**.

Dear Sir,

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters for the period October 2022 to March 2023.

Thanking you,

Yours Faithfully,

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

(Authorized Signatory)

Copy to:

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

Adani Petronet (Dahej) Port Limited
At & PO: Lakhigam
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Bharuch 392 130
Gujarat, India
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**SIX MONTHLY COMPLIANCE REPORT OF
ENVIRONMENT & CRZ CLEARANCE PHASE –I & II
FOR
DEVELOPMENT OF SOLID CARGO PORT TERMINAL AT
DAHEJ, DISTRICT: BHARUCH, GUJARAT

(FOR THE PERIOD: OCTOBER 2022 TO MARCH 2023)**

BY

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

LIST OF APPENDIXES

S. No.	DETAILS
1.	Environmental and CRZ clearances for Phase-I and Phase-II issue by MOEF&CC, New Delhi vide letters dated 6 th July, 2007 and 11 th November, 2008 bearing F. No.: 11-37/2007-IA-III. M/s. Adani Petronet (Dahej) Port Ltd.
2.	CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG vide letter dated 16 th May, 2007 bearing No.: ENV-102006-71-P for Phase-I and letter dated 29 th September, 2008 bearing No.: ENV-10-2007-2126-E for Phase-II. M/s. Adani Petronet (Dahej) Port Ltd.
3.	Name change letter from Certificate of Incorporation (COI).

List of Annexure

Annexure 1	:	Forest Clearance Compliance
Annexure 2	:	Details of Fixed Mobile Fire Fighting System
Annexure 3	:	Environment Monitoring Report
Annexure 4	:	Green Belt Development Plan for FY 22-23
Annexure 5	:	CCA Copy
Annexure 6	:	Environmental Budget & Expenditure for FY 22-23
Annexure 7	:	Compliance status of EMP as per EIA Guidelines
Annexure 8	:	CSR Report form October 2022 to March 2023
Annexure 9	:	Environment Cell Organogram
Annexure 10	:	COI Certificate for name change from APDPPL to APDPL.

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.

Sr. No.	Specific Conditions	Compliance status as on 31.03.2023																																				
P2(i)	All the conditions stipulated by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 shall be strictly adhered to	Complied. All the conditions mentioned by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annexure – 1.																																				
P2(ii)	All the conditions stipulated by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9) SF-76-K, dated., 1.7.2008 dated 16.6.2008 shall be strictly adhered to	Complied. All the conditions mention by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9) SF-76-K, dated., 1.7.2008 dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annexure – 1.																																				
P2(iii)	No reclamation will be carried out for the activity	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.																																				
P2(iv)	All the conditions stipulated by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 under the Forest Conservation Act shall complied.	Noted. We complied with the conditions stipulated by GCZMA including MOEF dated 16.06.2008. Copy of the compliance status enclosed as Appendix – 1.																																				
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	Complied. Sewage generated from port is being treated in designated STP of 80KL/Day capacity. <table><tr><td>Capacity</td><td>Quantity of Wastewater (Avg. from October 2022 to March 2023.)</td><td>Type of STP</td></tr><tr><td>80KLD</td><td>19.25 KLD</td><td>MBR</td></tr></table> The treated water from STP is being utilized on land for horticulture purpose within port premises after achieving permissible norms prescribed in CCA order. Treated water report are attached in Annexure 3F . Monthly monitoring of STP was being done by M/s. Pollucon Laboratories & M/s. Kadam Environment Consultant. Summary of STP treated water analysis results during compliance period from Oct. 2022 to March 2023 are mentioned below. <table><tr><td>Parameters</td><td>Unit</td><td>Min</td><td>Max</td><td>Perm. Limit</td></tr><tr><td>PH</td><td>-</td><td>6.92</td><td>8.23</td><td>6.5- 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>8</td><td>13</td><td>30</td></tr><tr><td>BOD (3 Days @ 27 °C</td><td>mg/L</td><td>3</td><td>11</td><td>20</td></tr><tr><td>Residual Free Chlorine</td><td>mg/L</td><td>0.8</td><td>0.8</td><td>0.5(Min)</td></tr><tr><td>Oil & Grease</td><td>mg/L</td><td>2.2</td><td>4.0</td><td>-</td></tr></table> The cost for Environment Monitoring for FY 22-23 is 14.71 lacs.	Capacity	Quantity of Wastewater (Avg. from October 2022 to March 2023.)	Type of STP	80KLD	19.25 KLD	MBR	Parameters	Unit	Min	Max	Perm. Limit	PH	-	6.92	8.23	6.5- 8.5	TSS	mg/L	8	13	30	BOD (3 Days @ 27 °C	mg/L	3	11	20	Residual Free Chlorine	mg/L	0.8	0.8	0.5(Min)	Oil & Grease	mg/L	2.2	4.0	-
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Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.		
Sr. No.	Specific Conditions	Compliance status as on 31.03.2023
P2(vi), P1(ii)	Afforestation in 200 ha. with mangroves should be undertaken under the project, as identified by the Gujarat Forest Department.	<p>Complied.</p> <p>Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). Details are given below.</p> <ol style="list-style-type: none"> 1. 100 ha near village Dandi, District Surat– 2011 2. 50 ha near village Jakhau, District Kutch – 2011 3. 50 ha near Padri bit, District Bhavnagar – 2011 4. 200 ha near Malpur, Ta. Jambusar – 2013-14 5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC & CRZ clearance). <p>Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha Mangrove afforestation (2017-18) was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.</p>
P2(vii)	Afforestation @1:3 shall be carried out in case of any trees to be cut.	<p>Complied.</p> <ul style="list-style-type: none"> • Afforestation on 38 Ha. Land has been completed with the help of forest department during 2012-14. • Land has been declared as reserve forest vide notification dated 23/12/2008. Copy of the same was submitted along with half yearly compliance report vide letter no. APDPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
P2(viii), P1(iii)	The recommendations of the Risk Assessment Report should be incorporated	<p>Complied.</p> <p>Risk Assessment Report was submitted along with compliance report dated 20/02/2008. The recommendation of risk assessment is incorporated and being followed during construction and operation phases.</p>
P2(ix), P1(v)	The materials for the filling and pavement construction should be made available from approved quarries.	<p>Complied.</p> <p>Construction of the project (Phase I & II) was completed in February 2011.</p>
P2(x), P1(vi)	Sufficient fixed and mobile firefighting system should be provided exclusively for the terminal in consultation with the local statutory bodies.	<p>Complied.</p> <p>Adequate fixed and mobile firefighting systems are provided. Details of firefighting systems available with APDPL is submitted to District collector, Mamlatdar (Disaster) and Gujarat Maritime Board, Bharuch, vide letter no. APDPPL/EHS/DMP/Rev-07/2020-21, 123 & 124 dated 20.01.2021. Details of the same are enclosed as Annexure – 2.</p>
P2(xi), P1(x)	All development in the port should be carried out in accordance with the Coastal Regulation Zone	<p>Complied.</p>

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.																															
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	Notification, 1991 and approved Coastal Zone Management Plan of Gujarat.	Construction of Phase I & II has been completed in February 2011 and same was carried out in accordance with CRZ Notification 1991.																													
P2(xii), P1(xi)	There shall be no withdrawal of ground water in CRZ area for this project. The proponent should ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	Complied. Ground water is not tapped for the project. Entire freshwater requirement is being met through GIDC water supply. Two Piezometers have been installed at different locations inside port. Monthly monitoring of ground water level & quality is being done through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat & M/s. Kadam Environment Consultant, Baroda. Summary of Piezometers analysis results during compliance period from October 2022 to March 2023 is mentioned below: <table><tr><th>Test Parameter</th><th>Unit</th><th>Min</th><th>Max</th></tr><tr><td>Temperature</td><td>°C</td><td>24.1</td><td>26.2</td></tr><tr><td>pH</td><td>--</td><td>7.45</td><td>7.95</td></tr><tr><td>Total Dissolved Solids</td><td>mg/L</td><td>444</td><td>756</td></tr><tr><td>Salinity</td><td>mg/L</td><td>117</td><td>263</td></tr><tr><td>Chloride as Cl</td><td>mg/L</td><td>65</td><td>146</td></tr><tr><td>Depth of Water Level from Ground Level</td><td>meter</td><td>2.1</td><td>2.3</td></tr></table> Copies of monitoring reports are enclosed as Annexure 3B.		Test Parameter	Unit	Min	Max	Temperature	°C	24.1	26.2	pH	--	7.45	7.95	Total Dissolved Solids	mg/L	444	756	Salinity	mg/L	117	263	Chloride as Cl	mg/L	65	146	Depth of Water Level from Ground Level	meter	2.1	2.3
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P2(xiii), P1(xii)	The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Complied. Project is commissioned after obtaining permission from PWD and Electricity Department. 1. GIDC permission dated 19.02.2013. 2. Electricity Department approval dated 18.02.2011																													
P2(xiv), P1(xiii)	Specific arrangements for rainwater harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized. Details in this regard shall be furnished to this Ministry's Regional Office at Bhopal within 3 months	Complied. The feasibility study for rainwater harvesting was conducted. Based on the report it was concluded that rainwater harvesting is not advisable as the area is next to the coast. Report was submitted along with the half-yearly compliance report dated 22.05.2015. Ministry of Water Resources (May 2000) it is mentioned that “The upper 3 m of the unsaturated zone is not considered for recharging, since it may cause adverse environmental impact e.g. water logging, soil salinity, etc. The post monsoon depth to water level represents a situation of minimum thickness of vadose zone available for recharge which can be considered vis-a-vis surplus monsoon run off in the area.”																													

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.		
Sr. No.	Specific Conditions	Compliance status as on 31.03.2023
		<p>Point no. I of Sub Para D of para VI on Page 7/11 of CGWA Guideline issued by Central Ground Water Authority (CGWA) for Criteria for evaluation of proposals/requests for GW abstraction (wef. 15/11/2012) it is mentioned that “(i). Mandatory clause on RWH may be relaxed in case of waterlogged/shallow water level (< 5 m bgl during pre-monsoon) areas.”</p> <p>As per point no. VIII of para 2.1.2. of Guidelines for issuance of No Objection Certificate (NOC) for ground water withdrawal issued by Central Ground Water Authority Ministry of Water Resources, RD & GR Government of India; Point no. VI of Para 2.7, it is mention on page no 13. That “VI. Mandatory clause on rain water harvesting may be relaxed in case of water logged/shallow water level (< 5 m bgl during post monsoon or as per state policy) areas.”</p> <p>As mentioned above it is not permissible/advisable to develop ground water recharge structure in case ground water level is less than 5 m.</p>
P2(xv), P1(xv)	No land reclamation should be carried out for this project.	<p>Complied.</p> <p>Project (Phase I & II) has been developed within existing land without any reclamation.</p>
P2(xvi), P1(xvi)	Green buffer zone should be provided all around the project area in consultation with local forest department and report submitted to this Ministry's Regional Office at Bhopal.	<p>Being Complied</p> <p>Considering the expansion plan, green belt is being developed on periphery of the project boundary. So far 24.04 Ha of green belt with 49279 nos. which mainly includes casuarina, <i>wasigtonia palm</i>, <i>cassia samiea</i>, <i>peltorum</i>, <i>delonix regia</i>, <i>ficus sps</i>. Details of green belt area are enclosed as Annexure – 4. Total expenditure of horticulture during Oct'22 to Mar'23 is 19.21 Lacs.</p>
P2(xvii), P1(xiv)	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	<p>Complied.</p> <p>Construction of the project (Phase I & II) was completed in February 2011 and same is in conformity with the provisions of the CRZ Notification 1991.</p>
P2(xviii), P1(xvii)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 should be stored in the Coastal Regulation Zone area.	<p>Complied.</p> <p>APDPL is handling only dry cargo mainly coal and other bulk cargos or project cargo at designated storage areas in compliance to the CRZ Notification 1991 and 2011 and as per approval received.</p>
P1(iv)	Location of general cargo berth should be taken into considerations with regard to location of LNG terminal	<p>Complied.</p> <p>General cargo berth (Solid Cargo Port Terminal jetty) is approx. 500 m away from the LNG jetty of Petronet LNG Ltd.</p>
P1(vii)	The wave tranquility study and the ship maneuvering studies carried out should be taken into account while operating the Port.	<p>Complied.</p> <p>Ship mooring study and wave tranquility studies were carried out to understand the wind wave and swell wave conditions. The recommendations are being regularly followed during port operations.</p>

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.		
Sr. No.	Specific Conditions	Compliance status as on 31.03.2023
P1(viii)	The project proponent should ensure that during construction and operation of the port there will be no impact on the livelihood of the fisherman. The fisherman should be provided free access to carry out the fishing activity.	Complied. There is no commercial fishing in the area. Free access to the “Pagadiya” fishermen is available. They are continuing with their activities without any impact from project.
P1(ix)	All necessary precaution while undertaking construction and operation of the port should be taken keeping in view the bathymetric changes caused due to cyclones.	Complied. Construction (Phase I & II) activities are completed in February, 2011. APDPL has a well-defined DMP (covering natural disasters including cyclones) and regular mock drills are being conducted. DMP is also reviewed at regular interval. Mock drill is being conducted as per plan. Last Mock drill was conducted on 21.03.2023. Last revision in the DMP was done on 01.07.2022 (Rev. 9).
General Conditions		
P2(i), P1(i)	Construction of proposed structures shall be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned state Government Departments/Agencies.	Complied. <ul style="list-style-type: none"> All the development activities are being taken up in accordance with the CRZ notification, 1991 & its subsequent amendments. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87. Approval of GPCB NOC has taken for the project vide letter ref. no. CTE no. 111311 dated 22.02.2021 valid till 07.07.2023.
P2(ii), P1(ii)	Adequate provision for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surrounding.	Complied. Construction of the project (Phase I & II) was completed on February 2011. During construction all facilities such as water supply, fuel, sanitation etc. was provided.
P2(iii), P1(iii)	The project authorities must make necessary arrangements for disposal of solid waste and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forest under the Environmental (Protection) Act, 1986, whichever are more stringent.	Complied. <ul style="list-style-type: none"> The Project (Phase I & II) activities are not generating any trade effluent. Only domestic effluent is being generated which was treated in the STP outside CRZ area and used for horticulture within the premises. Details regarding STP are given in point number-V (Refer above point) Noise monitoring (Once in a month) is carried out by NABL accredited and MoEFCC approved agency namely M/s Pollucon Laboratories Pvt. Ltd. The noise level confirm to the standard laid down by Gujarat Pollution Control Board. Monthly monitoring of Noise has been carried out from M/s. Pollucon Laboratories.

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.																																															
Sr. No.	Specific Conditions	Compliance status as on 31.03.2023																																													
		<ul style="list-style-type: none"> Summary & Copy of Noise level monitoring are enclosed as Annexure – 3G. <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Location</th><th>Day Time (dBA)</th><th>Night Time (dBA)</th></tr> </thead> <tbody> <tr><td>1</td><td>Behind QHSE office</td><td>62.7</td><td>55.2</td></tr> <tr><td>2</td><td>Substation 6</td><td>59.5</td><td>55.2</td></tr> <tr><td>3</td><td>Marine Building</td><td>59.0</td><td>53.5</td></tr> <tr><td>4</td><td>Substation 7B</td><td>59.6</td><td>52.5</td></tr> <tr><td>5</td><td>JS 1 (Lakhigam)</td><td>61.0</td><td>54.0</td></tr> <tr><td>6</td><td>Lakhi Village</td><td>58.5</td><td>50.2</td></tr> <tr><td>7</td><td>ERMS workshop</td><td>59.4</td><td>55.3</td></tr> <tr><td>8</td><td>Jetty (Rock Bond Approach)</td><td>59.8</td><td>54.0</td></tr> <tr><td>9</td><td>Open Storage Yard 1</td><td>58.8</td><td>55.8</td></tr> <tr><td>10</td><td>Lakhi Village (Nr. Conveyor Belt)</td><td>55.4</td><td>51.7</td></tr> </tbody> </table> <p>*Permissible limit: Day Time <75 dBA & Night Time <70 dBA.</p>		Sr. No.	Location	Day Time (dBA)	Night Time (dBA)	1	Behind QHSE office	62.7	55.2	2	Substation 6	59.5	55.2	3	Marine Building	59.0	53.5	4	Substation 7B	59.6	52.5	5	JS 1 (Lakhigam)	61.0	54.0	6	Lakhi Village	58.5	50.2	7	ERMS workshop	59.4	55.3	8	Jetty (Rock Bond Approach)	59.8	54.0	9	Open Storage Yard 1	58.8	55.8	10	Lakhi Village (Nr. Conveyor Belt)	55.4	51.7
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P2(iv), P1(iv)	The proponent shall obtain the requisite consents for discharge of effluents and emission under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.	Complied. APDPL has obtained renewal of CC&A under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board vide No. AWH 109820 dated: 19.10.2020 and CCA amendment Letter no AWH 116434 dated 09.03 .2022 which is valid up to 16.07.2025. Copy of the same is attached with Annexure 5. Name change letter from Adani Petronet (Dahej) Port Pvt. Ltd. To Adani Petronet (Dahej) Port Ltd. Grant from GPCB is attached as Annexure 5A.																																													
P2(v), P1(v)	The proponent shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The record of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.	Complied. <ul style="list-style-type: none"> No industrial effluent is generated from the port as no industrial process is carried out. Domestic effluent is being treated in STPs. Details regarding the same are given above in point number V (Refer above). The monitoring results of the treated wastewater from STP for the period from October 2022 to March 2023 are enclosed as Annexure – 3F. Reports are available at site for the inspection and APDPL regularly submits report to GPCB. 																																													
P2(vi), P1(vi)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	Complied. Ambient Air quality monitoring (twice in a week) and Noise level (once in a month) monitoring are being carried out by M/s Pollucon Laboratories & M/s. Kadam Environment Consultant, a NABL accredited and MoEF & CC recognised laboratory.																																													

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.																																															
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		<p>The monitoring results for the period from October 2022 to March 2023 are enclosed as Annexure – 3A to 3H.</p> <p>Summary of Ambient Air Monitoring Report is given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Location</th><th>PM₁₀ (100 µg/m³)</th><th>PM_{2.5} (60 µg/m³)</th><th>SO₂ (80 µg/m³)</th><th>NO_x (80 µg/m³)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Marine Building</td><td>91.67</td><td>50.89</td><td>21.48</td><td>37.92</td></tr> <tr> <td>2</td><td>SS 7B</td><td>67.06</td><td>32.78</td><td>12.98</td><td>22.75</td></tr> <tr> <td>3</td><td>EHS Building</td><td>71.24</td><td>35.90</td><td>15.33</td><td>27.78</td></tr> <tr> <td>4</td><td>Nr. GCPTL Gate</td><td>64.79</td><td>30.42</td><td>13.92</td><td>25.64</td></tr> <tr> <td>5</td><td>Nr. JS 2</td><td>82.07</td><td>42.63</td><td>17.79</td><td>31.49</td></tr> <tr> <td>6</td><td>Silo Porta Cabin</td><td>61.07</td><td>30.09</td><td>12.64</td><td>25.01</td></tr> </tbody> </table>				Sr. No.	Location	PM ₁₀ (100 µg/m ³)	PM _{2.5} (60 µg/m ³)	SO ₂ (80 µg/m ³)	NO _x (80 µg/m ³)	1	Marine Building	91.67	50.89	21.48	37.92	2	SS 7B	67.06	32.78	12.98	22.75	3	EHS Building	71.24	35.90	15.33	27.78	4	Nr. GCPTL Gate	64.79	30.42	13.92	25.64	5	Nr. JS 2	82.07	42.63	17.79	31.49	6	Silo Porta Cabin	61.07	30.09	12.64	25.01
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P2(vii), P1(vii)	The sand dunes and mangroves, if any on the site should not be disturbed in any way.	<p>Complied.</p> <ul style="list-style-type: none"> There are no sand dunes in project area. Free flow to the mangroves near the jetty approach is maintained. 																																													
P2(viii), P1(viii)	A copy of the clearance letter will be marked to the concern Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<p>Complied.</p> <p>Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I&II) dated 28.11.2017.</p>																																													
P2(ix), P1(ix)	The Gujarat State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre, and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to the project proponent.																																													
P2(x), P1(x)	The fund earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.	<p>Complied.</p> <p>Separate budget is allocated for Environmental Management. Key components of environment budget are Environmental Monitoring, waste monitoring, STP (Operations and Maintenance), Dust Suppression and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 359.16 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6.</p>																																													
P2(xi), P1(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by	<p>Complying with.</p> <ul style="list-style-type: none"> Whenever any authorities from MoEF&CC, GPCB and GMB etc. visit APDPL, full support is extended and APDPL provides all additional information sought by them during the inspection. 																																													

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.		
Sr. No.	Specific Conditions	Compliance status as on 31.03.2023
	furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<ul style="list-style-type: none"> No officer of MoEF&CC, regional office and CPCB visited the port during the compliance period. Last visit of Gujarat Pollution Control Board during the compliance period was on 17.03.2023.
P2(xii), P1(xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted. There is no change in the Phase I & II development.
P2(xiii), P1(xiii)	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Noted & agreed.
P2(xiv), P1(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted & agreed.
P2(xv), P1(xv)	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental 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 & Forest at http://www.envforin.in . The advertisement should be made within 7 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"> Advertisement of phase 1 approval was published in Gujarati language in “Sandesh” newspaper dated 01/09/2007 and in English language in “GUJARAT SAMACHAR” newspaper dated 11.9.2007. Advertisement of phase 2 approval was published in Gujarati language in “Divya Bhaskar” newspaper and in English language in “The Times of India” dated 19/11/2008. Copies of the advertisements were submitted to MoEF&CC vide compliance report dated 27/11/2013.
P2(xvi), P1(xvi)	The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Complied. <ul style="list-style-type: none"> Financial closure date of Project was 31st July 2007. Existing Facility – construction started date July 2007. Land development work for phase II started in Jan. 2009. The permission to construct of Solid Cargo Beth at Dahej port has been obtained from GMB vide letter dated 23 Feb 2006 bearing no GMB/N/PVT/264(10)/1910/11201.
P2(xvii)	Any appeal against this environment clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days	Noted.

Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.

Sr. No.	Specific Conditions	Compliance status as on 31.03.2023
	as prescribed under Section 11 of the National Appellate Act, 1997	

Appendix - 1

**Compliance to the conditions stipulated in CRZ clearance/ recommendation for proposed cargo
port terminal phase I, II**

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Compliance status as on 31.03.2023
P2(1), P1(1)	The provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by the APPPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the APPPL.	Complied. All the activities carried out are complying with the provisions of the CRZ notification and subsequent amendments.
P2(2), P1(2)	All necessary permissions from different Government Departments / agencies shall be obtained by the APPPL before commencing the expansion activities.	Complied. <ul style="list-style-type: none"> All the necessary permissions have been obtained by M/s. APDPL. NOC obtained from Gujarat Maritime Board vide letter No. GMB/N/PVT/264(10)1/1858-10215 Dated 27.06.2006 Environment Clearance for phase I & Phase II obtained vide letters dated 6th July 2007 & 11th November 2008 and bearing F. No. 11-37/2007-IA-III respectively Consent to Establish (CTE) and Consent to Operate (CTO) are obtained from GPCB and renewed/amendment from time to time as per the progress of the project activity.
P2(3), P1(5)	The APPPL shall carry out the construction activities either in the CRZ area or into the sea / estuary only after having the detailed study with respect to chances of erosion / accretion due to the proposed activities conducted through the NIO and vetted through the CWPRS and shall implement all necessary steps / actions as may be suggested by these institutes for mitigating the potential negative impacts including the checking of erosion and/or accretion in the region. Further, the company shall have to have the construction drawings approved for this purpose through a competent agency before undertaking any construction and/or enabling activities at the site	Complied. <ul style="list-style-type: none"> Construction (Phase I & II) of the port was completed in February 2011. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87. CTE obtained from GPCB vide letter no. GPCB/BRCH/NOC-2528/8018 dated 31.03.2006.
P2(4), P1(7)	The APPL shall have to face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government of Gujarat and shall have to take all necessary actions as may be desired by the Government, from time to time.	Noted and agreed to comply.
P2(5), P1(10)	No dredging and/or reclamation activity shall be carried out in the CRZ area categorized as CRZ I (i) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas are not	Complied. <ul style="list-style-type: none"> No dredging/reclamation have been done in CRZ I (i). There is no wildlife sanctuary, national park in the vicinity of the project.

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Compliance status as on 31.03.2023
	affected due to any of the project activities.	
P2(6), P1(11)	No effluent or sewage shall be discharged into the sea / creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises to the extent possible.	Complied. <ul style="list-style-type: none"> No industrial effluent is generated from the port as no industrial process is carried out. Domestic effluent is being treated in STPs. The treated water conforming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October 2022 to March 2023 are enclosed as Annexure – 3F. Reports are available at site for the inspection and APDPL regularly submits report to GPCB.
P2(7), P1(12)	All the recommendations and suggestions given by the NIO in the Comprehensive Environment Impact Assessment report for conservation / protection and betterment of environment shall be implemented strictly by the APPPL.	Being Complied. A Separate EIA has been prepared for phase III development, which includes EMP for the current scenario. All the recommendations and suggestions given by M/s Choramandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 7 .
P2(8), P1(13)	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves and other coastal/marine habitat. The construction activities shall be carried out only under the constant supervision of the NIO.	Complied. <ul style="list-style-type: none"> Construction (Phase I & II) of the project was completed on February 2011. Free flow to the mangroves near the jetty approach is maintained.
P2(9), P1(14)	The APPL shall strictly ensure that no creeks are blocked due to any activity at port and the mangroves habitat are neither disturbed nor destroyed due to any activity.	Complied. <ul style="list-style-type: none"> No creeks are blocked due to port activity. Free flow to the mangroves near the jetty approach is maintained.
P2(10), P1(15)	The APPL shall participate financially for any common facility that may be established or any common study that may be carried out for the Gulf of Khambhat region for environmental protection and/or management purpose.	Noted and agreed to comply. APDPL is committed to participate financially for any common facility being established or any common study carried out in Gulf of Khambhat region for the environment protection and management purpose.
P2(11), P1(16)	The construction debris and/or any other type of waste shall not be disposed into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	Complied. Construction of the project was completed on February 2011.
P2(12), P1(17)	The construction camps shall be located outside the CRZ area and the construction labour shall be provided the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental	Complied. <ul style="list-style-type: none"> Construction of the project was completed on February 2011. No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II		
Sr. no.	Conditions	Compliance status as on 31.03.2023
	conditions are not deteriorated by the construction labours.	are from surrounding villages and have been provided residential facilities in the surrounding villages.
P2(13), P1(18)	The APPPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency plan and shall submit the same to this Department after having it vetted through the India Coast Guard.	Complied <ul style="list-style-type: none"> Oil Spill Contingency plan is prepared and resubmitted Tier 1 OSR Facility Dahej port Terminals on dated 15.09.2022. Request letter for approval of Oil Spill Contingency plan submitted to the chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar vide letter dated 16/09/2020 Oil Spill Contingency plan is prepared and resubmitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018. Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. APDPL has a well-defined DMP and regular mock drills are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 21.03.2023. Last revision in the DMP was done on 01.07.2022.
P2(14),P1(19)	The APPPL shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of proposed activities and the environmental impacts of the proposed activities.	Noted and agreed to comply.
P2 (15)	The mangrove plantation in 50 ha. of area on Gujarat cost line shall be carried out by the applicant in a phased manner in five years	Complied. Mangrove afforestation has been carried out in an area of 450 ha. Details are given below. <ol style="list-style-type: none"> 100 ha near village Dandi, Dist Surat– 2011 50 ha near village Jakhau, Dist Kutch – 2011 50 ha near Padri bit, Dist Bhavnagar – 2011 200 ha near Malpur, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as part of compliance to Phase – III EC & CRZ Clearance conditions) Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.
P2 (16)	The construction activities in the Forest land and the Gauchar land shall be	Complied.

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Compliance status as on 31.03.2023
	carried out as per the permission accorded by the concerned Authority for the said purpose	Construction of the project was completed in February 2011 in compliance to the approvals.
P1(3)	The APPPL shall take up massive mangrove plantation in 200 ha of area in and around the project site or at an alternative site to be selected in consultation with this Department.	<p>Complied.</p> <p>Mangrove afforestation has been carried out in an area of 450 ha. Details are given below.</p> <ol style="list-style-type: none"> 1. 100 ha near village Dandi, Dist Surat– 2011 2. 50 ha near village Jakhu, Dist Kutch – 2011 3. 50 ha near Padri bit, Dist Bhavnagar – 2011 4. 200 ha near Malpur, Ta. Jambusar – 2013-14 5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as part of compliance to Phase – III EC & CRZ Clearance conditions) <p>Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.</p>
P1(4)	The approach road and trestle passing through the forestland shall be constructed only after obtaining necessary permissions under the relevant forest laws including the forest (Conservation) Act. further, no activity shall be carried out in the forestland or in the area having natural plantation / forest till all mandatory clearances under various Forest Acts including the Forests Conservation Act obtained.	<p>Complied.</p> <ul style="list-style-type: none"> • All the activities on forest land have been started only after obtaining forest land clearance. • Clearance from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16th June 2008. • The same was communicated by State Forest Department vide letter no A-1006(10-9) SF-76-K dated 1st July 2008 from DOEF.
P1(6)	The project proponent shall have to make a separate application and shall have to obtain prior clearance under the CRZ Notification for any activities other than those proposed and got approved as part of this phase I activities.	<p>Complied.</p> <p>APDPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.</p>
P1(8)	The project proponents shall ensure that the local people shall be provided with an alternative access to the sea in case the existing access to Rock-Bund could not be made available to them.	<p>Complied.</p> <p>Alternative access to the sea is available adjoining to the project site.</p>
P1(9)	The project proponents shall ensure that the construction period shall be reduced by proper planning and executing the construction program in time-bound manner to avoid any time over-run.	<p>Complied.</p> <p>Construction of the project was completed in February 2011.</p>

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II		
Sr. no.	Conditions	Compliance status as on 31.03.2023
P1(20)	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. The jetty and most of the approach of 1270 meter is supported on piles allowing adequate flow of water without significant obstruction.
	General Conditions	
P2(17),P1(21)	The groundwater shall not be tapped by the APPPL to meet with the water requirements in any case.	Complied. Ground water is not tapped for the project. Water requirement is being met through GIDC water supply. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat & M/s. Kadam Environment Consultant. Results are attached in Annexure 3B.
P2(18),P1(22)	The APPL shall take up massive green belt development activities in consultation with the Gujarat Institute of Desert Ecology/Forest Department. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Complying with. Green belt is being developed in an area of 24.04 Ha including periphery of the project boundary. Details of the green development is enclosed is Annexure – 4.
P2(19),P1(23)	The APPPL shall have to be contributing financially for taking up the socio-economic up-liftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	Complied. The CSR activities are executed by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8.
P2(20),P1(24)	A separate budget shall be earmarked for environmental management and socio – economic activities 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.	Complied. Separate budget is allocated for Environmental Management and Socio-Economic activities. <ul style="list-style-type: none"> • Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of budget for Environment Cell for the FY 2022-23 was approx. Rs. 319.56 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6. • Socio Economic activities are taken up in the areas of Education, Community Health and Sustainable livelihood development, Rural Infrastructure development etc. Details are enclosed as Annexure – 8. Annual Budget of CSR for FY 2022-23 is 387.68 lacs.
P2(21),P1(25)	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Complied. APDPL has a well-structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 9.
P2(22),P1(26)	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the	Complied.

Half yearly Compliance report for CRZ recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Compliance status as on 31.03.2023																					
	coastal and marine environment shall be submitted every year by the APPPL to this Department as well as to the MoEF, GOI.	Seawater and sediment is being monitored monthly by NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat & M/s. Kadam Environment Consultants. Monitoring Report for the period October 2022 to March 2023 is enclosed in Annexure 3C & 3D . No significant changes observed.																					
P2(23),P1(28)	A six monthly report on compliance of the condition mentioned in this letter shall have to be furnished by the APPL on regular basis to this Department.	<p>Being Complied</p> <ul style="list-style-type: none"> APDPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports. Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&II)/2022/01 dated 01.12.2022 in soft copy via mail dated 01.12.2022. It is also uploaded in our website: www.adaniports.com Please refer below for the details regarding past 6 compliance submissions. <table border="1"> <thead> <tr> <th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Oct'19 to Mar'20</td><td>20.05.2020</td></tr> <tr> <td>2</td><td>Apr'20 to Sep'20</td><td>25.11.2020</td></tr> <tr> <td>3</td><td>Oct' 20 to Mar' 21</td><td>25.05.2021</td></tr> <tr> <td>4</td><td>April '21 to Sep. '21</td><td>29.11.2021</td></tr> <tr> <td>5</td><td>Oct'21 to Mar'22</td><td>27.05.2022</td></tr> <tr> <td>6</td><td>April '22 to Sep. '22</td><td>01.12.2022</td></tr> </tbody> </table>	S. No	Compliance Period	Date of Submission	1	Oct'19 to Mar'20	20.05.2020	2	Apr'20 to Sep'20	25.11.2020	3	Oct' 20 to Mar' 21	25.05.2021	4	April '21 to Sep. '21	29.11.2021	5	Oct'21 to Mar'22	27.05.2022	6	April '22 to Sep. '22	01.12.2022
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6	April '22 to Sep. '22	01.12.2022																					
P2(24),P1(29)	Any other condition that may be stipulated by this Department from time to time for environmental protection/management purpose shall also have to be complied by the APPL.	Noted and agreed to comply with any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection.																					
P1(27)	The APPPL shall have to contribute financially to support the National Green Corps scheme being implemented in Gujarat by GEER Foundation, Gandhinagar, in consultation with Forests and Environment Department.	<p>Complied.</p> <p>A request in this regard for asking for the terms of Financial Contribution submitted to the GEER Foundation vide letter dated 17th April 2009.</p>																					

Annexure – 1:

Compliance status of the conditions by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 and by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dated 16.6.2008

Compliance: Both above mentioned letters have the same conditions; Compliance of the same is given in table below:

S. No.	Condition	Compliance
1	The legal status of the forest land shall remain unchanged	Noted.
2(a)	Compensatory afforestation shall be taken up by the forest department over 38.00 Ha non forest land (Survey No.2, Village- Pingot, Ta. Valiya, Dist. Bharuch at the cost of the project authority.	Complied. <ul style="list-style-type: none"> APDPL has transferred equivalent non forest land of 38 ha. Area of village Pingot, S. No. 2 paiki, Ta. Valiya, Dist. Bharuch in favour of Forest Department APDPL has deposited Rs. 33,06,000/- towards the cost of compensatory afforestation Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.
2(b)	This CA land shall be notified as Reserved Forests.	Complied. The CA land has been notified as Reserved Forest vide notification dated 23/12/2008.
2(c)	The copy of the Notification issued under section 4 of the Indian Forest Act, 1927 shall be sent to this office within six months from the date of handing over of this forest land to the project authority.	Complied Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
3	Penal compensatory afforestation shall be raised over 4.00 ha. Degraded forest land in (Survey No. – 572) Village mirapur, Ta. Valia, Dist. Bharuch	Complied. <ul style="list-style-type: none"> APDPL has deposited Rs. 3,48,000/- towards the cost of penal compensatory afforestation. Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.
4	All the funds received from the user agency under the project shall be transferred to the Ad-hoc Compensatory Afforestation Fund management & planning Agency (CAMPFA) in A/c No. CA-1583 of Corporation bank Block 11, CGO Complex, Phase – I, Lodhi Road, New Delhi – 110003.	Complied. <ul style="list-style-type: none"> All the funds received from user agency under project have been transferred to CAMPFA by Forest Department, Govt. of Gujarat.
5	The forest land shall not be used for any purpose other than that specified in the project proposal.	Complied. Forest land is being used as per the proposal for which clearance has been obtained.

Annexure – 2: Details of the Fixed and Mobile Firefighting system

Fire Fighting Systems	Details
Fire Hydrant	136 Nos.
Fire Monitor	65 Nos.
Risers	16 Nos.
Total Fire Extinguisher	466 Nos.
Smoke Detector	325 Nos.
Fire Bucket	90 Nos.
Emergency Siren	06 Nos.
Port Water Reservoir Pump House	5040 KL
Silo Water Reservoir Pump House	5031 KL
Fire Vehicles Detail	
Multi-Purpose Fire Tender – Water & Foam	10 KL & 1.5
Dry Chemical Powder @ 50 Kgs. (MFT)	2 Nos.
CO ₂ @ 4.5 Kgs. (MFT)	2 Nos.
Fire Tender (01 No.)	12 KL
Fire Water Bowser (01 No.)	7.5 KL
Trailer Pump (01 No.)	1800 LPM



Environment Monitoring Report for the period from October-22 To November-22

3A. AMBIENT AIR QUALITY MONITORING: -

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

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	85.26	50.24	ND*	ND*	ND*	ND*	0.97	ND*	33.84	22.39	38.53	28.88
2	07/10/2022	94.82	53.19	0.66	ND*	2.47	10.39	1.03	ND*	46.27	24.51	43.58	22.48
3	11/10/2022	88.21	47.66	ND*	ND*	ND*	ND*	0.74	ND*	42.64	19.29	34.55	29.44
4	14/10/2022	75.46	38.36	ND*	ND*	ND*	ND*	0.63	ND*	45.84	26.28	45.15	26.53
5	18/10/2022	93.56	56.54	0.82	ND*	2.32	10.26	0.87	ND*	48.48	21.93	39.17	23.28
6	21/10/2022	82.15	41.53	ND*	ND*	ND*	ND*	0.95	ND*	38.32	18.53	35.44	25.62
7	26/10/2022	91.51	51.76	0.70	ND*	2.62	10.51	0.76	ND*	49.37	25.86	31.71	27.83
8	28/10/2022	76.81	42.71	ND*	ND*	ND*	ND*	0.66	ND*	27.67	15.32	36.53	21.34
9	01/11/2022	87.55	47.64	ND*	ND*	ND*	ND*	0.87	ND*	48.21	24.19	37.27	27.17
10	04/11/2022	93.11	54.26	0.70	ND*	2.42	10.65	0.71	ND*	30.96	26.44	40.20	21.66
11	09/11/2022	80.15	48.54	ND*	ND*	ND*	ND*	0.63	ND*	38.27	23.43	35.65	24.96
12	11/11/2022	94.21	52.45	0.73	ND*	2.88	10.49	0.46	ND*	40.27	17.15	32.75	16.64
13	16/11/2022	73.85	40.20	ND*	ND*	ND*	ND*	0.70	ND*	32.56	25.86	36.21	30.21
14	18/11/2022	90.28	51.68	0.88	ND*	2.60	10.34	0.65	ND*	45.25	20.59	39.25	23.62
15	23/11/2022	84.22	46.25	ND*	ND*	ND*	ND*	0.85	ND*	39.81	22.58	42.92	28.62
16	25/11/2022	78.52	39.27	ND*	ND*	ND*	ND*	0.90	ND*	49.26	18.66	30.84	25.46
17	29/11/2022	83.22	44.19	ND*	ND*	ND*	ND*	0.95	ND*	44.26	14.81	41.20	22.28

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

Note:ND*: Not Detected, Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³


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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	59.43	33.44	ND*	ND*	ND*	ND*	0.82	ND*	26.44	16.57	35.54	25.48
2	07/10/2022	66.52	28.65	ND*	ND*	ND*	ND*	0.71	ND*	32.38	18.36	27.52	15.24
3	11/10/2022	79.85	36.33	ND*	ND*	ND*	ND*	0.44	ND*	36.21	14.23	30.47	20.39
4	14/10/2022	71.41	30.84	ND*	ND*	ND*	ND*	0.73	ND*	35.52	19.70	28.57	17.53
5	18/10/2022	80.05	47.33	ND*	ND*	ND*	ND*	0.34	ND*	22.81	11.58	24.22	19.52
6	21/10/2022	65.94	35.45	ND*	ND*	ND*	ND*	0.55	ND*	20.94	21.24	31.57	24.34
7	26/10/2022	74.36	41.66	ND*	ND*	ND*	ND*	0.24	ND*	45.23	15.85	21.93	26.26
8	28/10/2022	61.36	29.40	ND*	ND*	ND*	ND*	0.53	ND*	18.46	10.24	26.63	28.23
9	01/11/2022	51.63	23.45	ND*	ND*	ND*	ND*	0.50	ND*	19.23	19.18	25.32	19.48
10	04/11/2022	83.72	42.46	ND*	ND*	ND*	ND*	0.44	ND*	22.38	22.15	30.23	13.88
11	09/11/2022	67.52	31.24	ND*	ND*	ND*	ND*	0.23	ND*	30.14	15.13	21.62	21.27
12	11/11/2022	73.22	37.96	ND*	ND*	ND*	ND*	0.42	ND*	27.51	10.40	15.71	25.12
13	16/11/2022	56.33	29.47	ND*	ND*	ND*	ND*	0.48	ND*	14.37	14.54	18.74	27.21
14	18/11/2022	78.24	41.52	ND*	ND*	ND*	ND*	0.89	ND*	26.71	6.35	34.60	32.45
15	23/11/2022	72.05	36.46	ND*	ND*	ND*	ND*	0.31	ND*	24.22	13.54	31.58	17.47
16	25/11/2022	55.46	25.95	ND*	ND*	ND*	ND*	0.24	ND*	37.74	17.59	20.87	26.12
17	29/11/2022	70.78	40.67	ND*	ND*	ND*	ND*	0.76	ND*	29.23	12.42	36.51	11.75

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

Note:ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	53.75	26.96	ND*	ND*	ND*	ND*	0.38	ND*	13.12	17.61	20.47	11.65
2	07/10/2022	78.42	45.35	ND*	ND*	ND*	ND*	0.52	ND*	21.82	13.13	32.26	17.81
3	11/10/2022	58.77	30.92	ND*	ND*	ND*	ND*	0.47	ND*	16.51	6.58	24.53	14.88
4	14/10/2022	48.74	19.65	ND*	ND*	ND*	ND*	0.25	ND*	38.62	21.44	26.36	23.51
5	18/10/2022	69.78	31.54	ND*	ND*	ND*	ND*	0.45	ND*	40.76	16.21	21.51	15.88
6	21/10/2022	59.36	29.56	ND*	ND*	ND*	ND*	0.23	ND*	25.51	9.82	15.38	21.51
7	26/10/2022	79.52	37.16	ND*	ND*	ND*	ND*	0.70	ND*	20.76	11.38	19.58	13.66
8	28/10/2022	68.32	32.68	ND*	ND*	ND*	ND*	0.32	ND*	15.67	8.66	17.21	10.03
9	01/11/2022	69.38	27.63	ND*	ND*	ND*	ND*	0.53	ND*	14.25	8.24	17.54	23.13
10	04/11/2022	56.12	32.41	ND*	ND*	ND*	ND*	0.32	ND*	15.21	11.26	26.96	12.44
11	09/11/2022	63.27	35.63	ND*	ND*	ND*	ND*	0.56	ND*	21.93	19.52	32.22	18.22
12	11/11/2022	84.16	46.23	ND*	ND*	ND*	ND*	0.36	ND*	34.18	16.44	29.12	21.44
13	16/11/2022	65.32	30.23	ND*	ND*	ND*	ND*	0.25	ND*	19.47	7.55	15.45	24.72
14	18/11/2022	82.68	44.56	ND*	ND*	ND*	ND*	0.52	ND*	11.93	17.26	20.38	20.46
15	23/11/2022	68.23	33.49	ND*	ND*	ND*	ND*	0.45	ND*	29.83	9.96	23.51	27.56
16	25/11/2022	46.51	21.20	ND*	ND*	ND*	ND*	0.72	ND*	27.33	15.25	16.17	14.15
17	29/11/2022	54.36	24.30	ND*	ND*	ND*	ND*	0.34	ND*	40.13	13.22	25.28	16.32

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

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	66.24	34.21	ND*	ND*	ND*	ND*	0.29	ND*	23.52	19.56	31.97	15.75
2	07/10/2022	60.48	25.79	ND*	ND*	ND*	ND*	0.33	ND*	26.56	15.69	23.65	10.85
3	11/10/2022	70.35	28.55	ND*	ND*	ND*	ND*	0.50	ND*	29.81	8.74	20.35	12.26
4	14/10/2022	56.23	24.84	ND*	ND*	ND*	ND*	0.30	ND*	21.28	11.87	36.46	19.95
5	18/10/2022	62.46	27.37	ND*	ND*	ND*	ND*	0.61	ND*	34.78	18.67	30.19	17.62
6	21/10/2022	52.95	23.29	ND*	ND*	ND*	ND*	0.56	ND*	32.62	16.45	24.39	13.87
7	26/10/2022	69.32	36.15	ND*	ND*	ND*	ND*	0.31	ND*	25.77	7.56	27.97	23.41
8	28/10/2022	54.68	22.60	ND*	ND*	ND*	ND*	0.58	ND*	12.63	20.25	22.53	14.91
9	01/11/2022	60.44	35.17	ND*	ND*	ND*	ND*	0.61	ND*	37.27	15.66	28.46	25.35
10	04/11/2022	78.98	39.64	ND*	ND*	ND*	ND*	0.68	ND*	20.28	9.28	18.94	15.71
11	09/11/2022	54.28	24.33	ND*	ND*	ND*	ND*	0.38	ND*	27.92	7.20	16.56	22.18
12	11/11/2022	69.01	31.65	ND*	ND*	ND*	ND*	0.41	ND*	25.41	14.38	19.86	14.77
13	16/11/2022	50.96	22.39	ND*	ND*	ND*	ND*	0.58	ND*	28.56	16.30	25.42	10.27
14	18/11/2022	72.43	37.55	ND*	ND*	ND*	ND*	0.29	ND*	19.57	18.87	30.41	12.75
15	23/11/2022	61.77	28.49	ND*	ND*	ND*	ND*	0.73	ND*	17.54	20.19	36.35	16.27
16	25/11/2022	71.64	36.32	ND*	ND*	ND*	ND*	0.62	ND*	32.01	8.74	15.35	20.23
17	29/11/2022	63.21	33.44	ND*	ND*	ND*	ND*	0.66	ND*	35.17	10.49	29.47	13.96

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

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	69.47	39.53	ND*	ND*	ND*	ND*	0.57	ND*	21.52	14.53	17.59	19.15
2	07/10/2022	76.16	42.57	ND*	ND*	ND*	ND*	0.49	ND*	27.76	16.14	35.80	12.91
3	11/10/2022	52.36	25.70	ND*	ND*	ND*	ND*	0.36	ND*	32.27	11.19	25.34	18.67
4	14/10/2022	43.57	21.61	ND*	ND*	ND*	ND*	0.26	ND*	16.22	15.36	21.17	22.35
5	18/10/2022	74.05	43.52	ND*	ND*	ND*	ND*	0.54	ND*	23.61	9.58	28.65	14.11
6	21/10/2022	47.36	26.35	ND*	ND*	ND*	ND*	0.64	ND*	35.66	7.80	26.77	27.57
7	26/10/2022	57.47	30.48	ND*	ND*	ND*	ND*	0.89	ND*	29.56	18.38	24.67	17.36
8	28/10/2022	48.23	20.28	ND*	ND*	ND*	ND*	0.22	ND*	20.15	12.93	19.26	26.82
9	01/11/2022	56.37	31.53	ND*	ND*	ND*	ND*	0.26	ND*	26.54	11.33	20.48	12.97
10	04/11/2022	68.14	28.46	ND*	ND*	ND*	ND*	0.64	ND*	13.44	19.49	24.13	18.55
11	09/11/2022	49.62	19.28	ND*	ND*	ND*	ND*	0.14	ND*	25.25	17.48	30.52	16.48
12	11/11/2022	78.42	35.82	ND*	ND*	ND*	ND*	0.55	ND*	21.26	9.85	34.53	19.31
13	16/11/2022	60.26	26.32	ND*	ND*	ND*	ND*	0.37	ND*	11.02	6.53	23.68	15.23
14	18/11/2022	54.22	33.25	ND*	ND*	ND*	ND*	0.22	ND*	16.35	12.97	16.23	25.83
15	23/11/2022	48.22	23.56	ND*	ND*	ND*	ND*	0.47	ND*	14.11	14.22	25.15	20.99
16	25/11/2022	64.52	27.34	ND*	ND*	ND*	ND*	0.17	ND*	22.75	10.93	28.32	24.68
17	29/11/2022	57.24	30.42	ND*	ND*	ND*	ND*	0.49	ND*	19.81	7.38	22.59	14.35

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

Note:ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

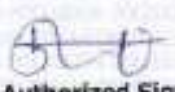

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Table No.: 1.6 - Ambient Air Quality Monitoring Results At JS - 2 Junction

Sr. No.	Date of Sampling	Location-6: JS - 2 Junction											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	04/10/2022	79.73	45.48	ND*	ND*	ND*	ND*	0.77	ND*	38.25	12.28	32.82	22.76
2	07/10/2022	89.68	49.81	0.65	ND*	2.36	10.23	0.42	ND*	35.24	21.58	38.32	20.25
3	11/10/2022	78.51	41.24	ND*	ND*	ND*	ND*	0.79	ND*	39.57	17.20	27.17	28.42
4	14/10/2022	66.18	27.07	ND*	ND*	ND*	ND*	0.98	ND*	42.37	23.66	34.62	15.46
5	18/10/2022	88.63	54.26	0.75	ND*	2.24	10.43	0.84	ND*	45.37	20.33	31.81	21.73
6	21/10/2022	72.57	39.32	ND*	ND*	ND*	ND*	0.65	ND*	29.25	15.45	28.47	31.67
7	26/10/2022	83.42	46.24	0.67	ND*	2.54	10.40	0.37	ND*	33.97	22.23	36.32	16.29
8	28/10/2022	73.75	38.86	ND*	ND*	ND*	ND*	0.41	ND*	26.67	16.35	33.53	29.96
9	01/11/2022	76.42	38.55	ND*	ND*	ND*	ND*	0.96	ND*	45.54	22.33	34.24	16.51
10	04/11/2022	87.25	47.79	0.55	ND*	2.32	10.38	0.57	ND*	25.37	17.63	33.47	25.61
11	09/11/2022	75.31	43.20	ND*	ND*	ND*	ND*	0.54	ND*	35.52	21.18	26.68	14.24
12	11/11/2022	90.96	40.27	0.67	ND*	2.58	10.19	0.30	ND*	19.62	7.63	24.73	17.37
13	16/11/2022	69.95	36.26	ND*	ND*	ND*	ND*	0.40	ND*	21.84	23.88	32.33	23.41
14	18/11/2022	88.42	46.38	0.74	ND*	2.49	10.07	0.78	ND*	39.68	14.71	37.55	28.81
15	23/11/2022	77.58	39.79	ND*	ND*	ND*	ND*	0.92	ND*	32.63	12.31	29.54	24.37
16	25/11/2022	61.42	29.54	ND*	ND*	ND*	ND*	0.74	ND*	43.65	20.51	23.47	22.46
17	29/11/2022	78.21	37.26	BDL*	ND*	ND*	ND*	0.80	ND*	47.36	16.31	27.54	19.20

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

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³


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ENVIRONMENTAL MONITORING REPORT

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

3A. AMBIENT AIR QUALITY MONITORING: -

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

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

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

Note: Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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ENVIRONMENTAL MONITORING REPORT



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

3A. AMBIENT AIR QUALITY MONITORING: -

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

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

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

Note: Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

3A. AMBIENT AIR QUALITY MONITORING: -

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

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

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

Note: Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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ENVIRONMENTAL MONITORING REPORT

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

3A. AMBIENT AIR QUALITY MONITORING: -

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

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

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**ENVIRONMENTAL MONITORING REPORT**

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

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

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

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

Note: Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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ENVIRONMENTAL MONITORING REPORT



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

3A. AMBIENT AIR QUALITY MONITORING: -

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

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

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

Note: Detection Limit, Lead as Pb: 0.1µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

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

3B.2 Near QHSE Office

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

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

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

3B.2 Near SS 7B Building

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



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

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

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

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

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



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

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

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

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

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KADAM ENVIRONMENTAL CONSULTANTS

An ISO 2001 -2015 Certified Company

(MoEF Approved)

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ENVIRONMENTAL MONITORING REPORT



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

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

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

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



3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

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

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

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

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**3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -****Table -Sea Sediment Quality Analysis Results (North Side) for the period: October-22 To November-22:-**

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

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

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**ENVIRONMENTAL MONITORING REPORT****3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -****Table - Sea Sediment Quality Analysis (North Side) Results for the period: October-2022 to March- 2023**

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

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

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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

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

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

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

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

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

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

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**ENVIRONMENTAL MONITORING REPORT****3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -**

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

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

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

**3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -****TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: OCTOBER-22 TO NOVEMBER-22**

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

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

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

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

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



3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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


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

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

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

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

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

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

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


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

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

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

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

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


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

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

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

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

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

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


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

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

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

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

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

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


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

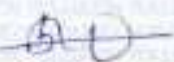
Sampling Location	11 - ERMS Workshop	
	During Day Time - dB(A)Leq*	
Date of Monitoring	13/10/2022	13/11/2022
6:00-7:00	68.5	61.4
7:00-8:00	62.4	63.6
8:00-9:00	56.8	57.7
9:00-10:00	52.1	59.8
10:00-11:00	65.5	67.5
11:00-12:00	56.1	54.1
12:00-13:00	58.6	58.4
13:00-14:00	69.2	64.9
14:00-15:00	57.6	53.3
15:00-16:00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

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

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

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

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



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

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

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

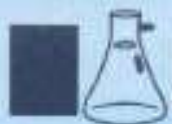
*dB(A) Leq, denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

^adB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is releatable to human hearing.

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

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

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

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

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

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

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

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


Authorized Signatory





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

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

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

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

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

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


Authorized Signatory





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

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

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

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

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

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

Authorized Signatory

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

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

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

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

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

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

Authorized Signatory



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

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

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

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

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

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


Authorized Signatory





ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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ENVIRONMENTAL MONITORING REPORT



3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 3 - PMC Office Back side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

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

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

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

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

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ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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



ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 10 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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



ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

Table - 14 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 15 - JS – 1 (Nr.Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 16 - JS - 2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October-2022 to March-2023

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

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

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

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



ENVIRONMENTAL MONITORING REPORT

3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

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

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

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

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

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



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

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

Sr. No.	Parameters	Unit	Nov-22				
			29/11/2022				
			DG Set # 1MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3Marine (SS8)	DG Set # 4Silo (SS11)	DG Set # 5 (SS7A)
1	Particulate Matter	mg/Nm ³	28.36	24.25	26.51	32.43	24.53
2	Sulphur Dioxide	ppm	5.92	4.74	7.66	8.54	6.12
3	Oxide of Nitrogen	ppm	32.65	28.64	30.46	35.47	33.46
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m ³	0.038	0.023	0.032	0.045	0.03

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

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



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

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October-2022 to March-23

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

KADAM ENVIRONMENTAL CONSULTANTS

An ISO 2001 -2015 Certified Company

(MoEF Approved)

871/B/3, Near Himalaya Machinery, GIDC Makarpura, Vadodara-10.

Phone : (O) 0265 - 6131000, 6131001



ENVIRONMENTAL MONITORING REPORT

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

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

Adani Petronet Dahej Port Ltd
Annexure 4: Green Belt Details

Sr.No.	Green Zone	Location	Area in (Ha.)	Tree(No.)	Name of Plants	Shrubs(Sqm)	Green carpet(Sqm)	Palm	Remark
1	68 (a)	CG-3	0.02		Ixora	200			
			0.01		Hibicus	139			
			0.03		Eranthemum	270			
		PMC office area Landscape	0.45	500	Delonix regia				
			0.23	250	cassia simia				
			0.20	450	Coconut spp.				
			0.10		Shrub	1000			
			0.07		lilly	730			
			0.15		Lawn		1500		
			0.020		Palm			50	
0.008000	20		pelfoferum						
Back side lakhibaba temple & Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia						
Back side lakhibaba temple & Boundry site plantation (phase -1 a)	0.27	600	Casurina Equisitifolia						
Total			1.95	3120		2339	1500	50	
2	68 (b)	Gcptcl boudry wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia				
		APPPL office area (SS-7)	0.36	450	Delonix regia				
		ODC GATE	0.01	51	Conocarpus				
		Gcptcl boudry wall site plantation (phase-1 a)	0.16	700	Delonix regia				
			0.10		Shrub	1000			
			0.8		Lawn		8000		
			0.04		Palm			100	
		Total			2.8126	7201		1000	8000
3	68(C)	LNG Site Boundry wall site plantation	0.95	4200	Casurina Equisitifolia				
			0.04		Palm			100	
Total			0.985	4200		0	0	100	
4	68 (d)	Stack yard	0.72	3200	Casurina Equisitifolia				
		Total			0.72	3200.00			
5	68 (e)	Road site Avenue tree plantation	0.77	1700	Casurina Equisitifolia				
			1.53	1700	Conocarpus				
			1.08	1800	Conocarpus				
			0.30		Shrub	3000			
			0.02		Lawn		200		
			0.08		Palm			200	
		Total			3.78	5200.00		3000.00	200.00
6	68 (f)	Beautification from Main Gate to GCPL Divider (Bhutnama Temple)	0.39		neerium	2200.00			
		Main gate Area	3.75	1500	Pelftofouram				
			0.60	500	Azardirecta indica				
			0.26	320	Conocarpus				
			0.32	810	Conocarpus				
			0.24	525	Casurina Equisitifolia				
			0.35	220	Conocarpus				
			0.23	500	Golden Bamboo				
			0.35		Shrub	3450			
			0.25		Lawn		2500		
		Total			6.73	4375.00		5650.00	2500.00
7	68 (g)	Railway yard area Phase 1	1.13	5000	Casurina Equisitifolia				
			0.0175	175	Pelftoferum				
			1.13	5000	Casurina Equisitifolia				
			0.15	255	Conocarpus				
			0.08		Palm			200	
		Total			2.50	10430.00		0.00	0.00
8	68 (h)	cg-2	0.05	500.00	Conocarpus				
			0.0130		neerium	130.00			
		Permenant Godown area	0.44	1680	Shrubs and forest tree plantation				
			0.15		Srub	1500			
			0.21		Lawn		2100		
			0.06		Palm			150	
		Coal Yard Area	1.23	3086	Conocarpus /Casurina				
			0.13	560	Conocarpus				
			0.03	120	pelfoferum				
			0.12		Lawn		1200		
		Perifery road side	0.72	3200	eucalyptus /conocarpus				
		Dahej Ramji Temple Green belt	0.05		Shrub			500	
			0.24		Palm			150	
			0.72	800	Pelftofouram /Azardirecta indica/ Conocarpus/ Palm				
Total			4.16	9946.00		2830.00	2600.00	300.00	
9	68(i)	YARD 16 (NEW ROCK YARD)	0.13	1307	Casurina				
			0.09		Bougainvelliya	888			
		ISPS GATE	0.09		Neerium	888			
			0.03	300	Conocarpus				
Safety Excellence Center			0.06		Lawn	600			
Total			0.40	1607.00		1776.00	0.00	0.00	
Grand Total			24.02	49279.00		16595.00	14800.00	950.00	



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)

CCA NO: AWH- 109820

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

DT: _

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

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

CONSENTS AND AUTHORISATION

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

To,

M/s ADANI PETRONET (DAHEJ) PORT PVT LTD

AT & PO LAKHIGAM-392130

TAL- VAGRA,

DIST- BHARUCH.

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

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

4. CONDITIONS UNDER THE WATER ACT: -

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



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

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

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

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

5 CONDITIONS UNDER THE AIR ACT: -

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

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

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

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

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

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

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

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

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

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

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

6.1 Number of authorization: - AWH-109820.

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

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

Outward No: 571845, 01/11/2020



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

6.3 The authorization is granted to operate a facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes as per mode of disposal mention in table above.

6.4 The authorization shall be in force for a period up to date **16/07/2025**.

6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

7 TERMS AND CONDITIONS OF AUTHORISATION:

7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.

7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.

7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.

7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"


7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.

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

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



(P.B. Patel)

Dy. ENVIRONMENT ENGINEER

Outward No:571845, 01/11/2020



GUJARAT POLLUTION CONTROL BOARD

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By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)

CCA AMENDMENT NO: AWH - 116434

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

DT: /03/2022

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

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

REF: (1) Your application No. 201795 dated 02/09/2021.

(2) CCA No. AWH-109820 dated: 01/11/2020.

(3) CTE Amendment No: 111311 dated 22/02/2021

Sir,

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

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

1. Unit shall operate following facility:

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

2. Specific conditions:

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

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

FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD


(IRFAN KARGI)
DY. ENVIRONMENT ENGINEER

Outward No:625047,09/03/2022



GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.

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

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

DT: /05/2023

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

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

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

Sir,

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

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

FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD


(IRFAN K AGZI)
ENVIRONMENT ENGINEER

COPY TO:-

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

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

Annexure – 6: Environment Budget and Expenditure for the FY: 2022-23

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

Annexure-7: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Ltd.,

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

S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none">Monitoring reports are presented in the Annexure 3G.
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none">There is no occasion till date for exceeding the noise level at the port boundary.Persons working in the fabrication yard are provided with PPEs.
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipment's are provided with acoustic enclosures.
1.3	Sewage Management Plan	
	Sewage generated from the construction site will be treated in existing STP of 27 m ³ capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October, 2022 to March, 2023 are enclosed as Annexure -3F.
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
1.4	Solid and Hazardous Waste Management Plan	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	Complying with. <ul style="list-style-type: none">All solid waste is being segregated for biodegradable and non-biodegradable.Biodegradable waste is being decomposed in vermicomposting yard and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.
	All hazardous waste generated will be categorized as per Hazardous Waste Management Rules, 2008.	Complying with. Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	Complying with. Recyclable waste such as used oil, Discarded drum etc. is being sold to authorize recyclers only.
1.5	Construction Phase Storm Water Runoff	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.
B.	ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)	
2.1	Air Quality Management Plan - Coal Handling and Stock Yard Area:	
	Appropriate stack height will be provided to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty.	Complying with.

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

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

S. No.	EMP Conditions	Compliance Status
	Planting trees which act as barrier to arrest dispersion of noise levels along the internal roads and port boundary	Complying with. Green belt is being developed in an area of 24.04 Ha. including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	Using electricity powered equipment inside the port instead of diesel-powered ones will be explored to the extent possible	Complying with. Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	Complying with. APDPPL is certified with the ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007. A proper change management process in place for any kind of deviation. However, there is no occurrence of noise level exceeding norms.
2.3	Storm Water Management Plan	
	Following areas will be provided with storm water drainage systems to prevent any surface run-off into the sea. <ul style="list-style-type: none"> • Reclamation of 23 Ha back up area • Coal stockpile development of 7.7 Ha area • Railway siding area 	Complying with. Coal stockpile and Railway siding area are provided with storm water drainage. Reclamation of 16 Ha area is being done. Remaining 7 ha area will be developed phase wise, as per the future requirement.
	<ul style="list-style-type: none"> • The drainage water will be channeled through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. 	Complied with. Runoff from the coal storage is being routed through dump pond where all the particles settled down.
2.4	Solid & Hazardous Waste Management Plan	
	Port operator will prepare the robust waste management plan for the entire operations, process carried out during operation. As part of the plan, a scavenging boat will be anchored for collection of waste due to windblown into the sea.	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	Complying with. All the wastes are being managed in compliance to the respective waste management rules as amended.
	Solid Waste generated during port operations will be disposed as per Solid Waste (Management & Handling) Rules 2000. Wherever possible the recycle and reuse will be explored for possibilities of recovery of any useful material. Option for recycle/reuse if not economical, then the waste will be disposed as per the SWM Rules, 2000.	
2.5	Green Belt Development Plan:	

S. No.	EMP Conditions	Compliance Status
	It is proposed to develop nearly 6 ha. of green cover all along the boundary of the port. Green Buffer Zone is being implemented at Eastern project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	Complying with. Three tier green belt is being developed in an area of 24.04 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	It is proposed to develop further three tier greenbelt to increase efficiency of dust control.	
2.6	Community Development Plan	
	<p>The proposed CSR programs are based on the needs felt and socioeconomic indicators of the study. The proposed CSR programs can be initially implemented in the five villages of the study area that is Lakhigam, Luvara, Jageshwar, Ambetha and Dahej. Based on the outcome of the CSR programs, it can be expanded to the other villages apart from the study area. The proposed CSR Programs can be grouped into the following subheadings.</p> <p>Health Promotions Programs</p> <ul style="list-style-type: none"> ✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs ✓ Mobile Clinic 	Complied. The CSR activities are executed by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8.
	<p>Education Promotion Programs</p> <ul style="list-style-type: none"> ✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc ✓ Providing scholarship programs ✓ Sport Coaching centre 	
	<p>Economic Development Programs</p> <ul style="list-style-type: none"> ✓ Knowledge centre regarding various government schemes and latest technology ✓ Skill Development Training Programs 	
	<p>Women Empowerment</p> <ul style="list-style-type: none"> ✓ Sanitation Promotion Programs ✓ Construction and Maintenance of Sanitation complex ✓ Awareness Programs 	
	<p>Infrastructure development Programs</p> <ul style="list-style-type: none"> ✓ Developing internal roads of villages ✓ Developing drainage systems ✓ Solar Street Lights ✓ Construction / Maintenance of Community Halls ✓ Social Forestry 	
2.7	Village Specific Infrastructure Development Programs:	

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

S. No.	EMP Conditions	Compliance Status
	environmental clearance conditions. Environmental monitoring program will be undertaken by MoEF recognized and NABL accredited environmental laboratories as part of compliance report preparation and its submission to GPCB, MoEF Regional Office, Vadodara and New Delhi.	
2.9	Cost Estimates for Environmental Management Plan:	
	The estimated total cost of the proposed project is Rs.464.32 Crores. Under the project, about Rs.173.35 Crores is allocated towards pollution control equipment, implementation of environmental pollution control measures and environmental management programs.	Complied. Separate budget is allocated for Environmental Management activities. <ul style="list-style-type: none"> • Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2022-23 was approx. Rs. 359.16 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6.

Six Months Progress Report - Dahej



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Preface

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

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

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

Demographic Profile

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

Executive Summary

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

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

Key Highlights

Education: Project Utthan

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

Community Health:

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

Sustainable livelihood development

Kamdhenu- Dairy development

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

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

Adani Annapurna Project

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

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

Adani's Mahila Movement for Advancement - (AMMA)

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

Community Engagement:

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

Community Infrastructure Development:

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

Main section

1.1 Education

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

This comprehensive intervention entails:

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

Outreach of Utthan:

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

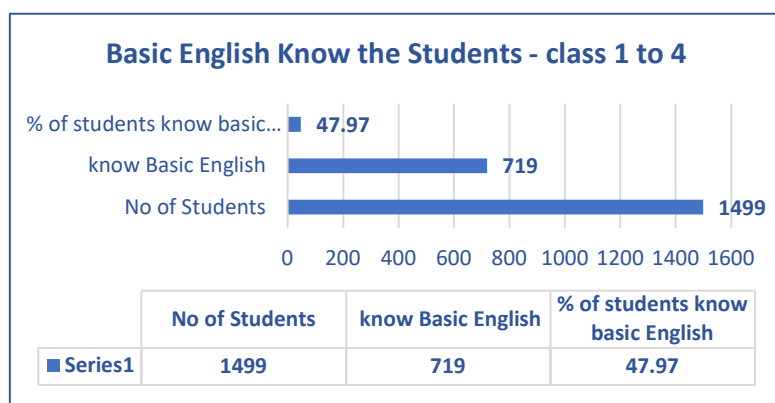
Progressive Learners –

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

From October 2022 to March 2023,

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

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



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

Enriched reading corner to develop reading habits - facilitated 2097 students

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

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

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

Volleyball Tournament

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



Creating Joyful Learning Space:

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

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

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



BaLA paintings in Schools

IT on Wheels Program Launch:

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

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



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

OTHER ACTIVITIES: October 2022 – March 2023

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

1.2 Community Health

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

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

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

DETAILS OF HEALTH CAMPS

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

Awareness Sessions on Healthcare:

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

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



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

Village wise Details of RBS test

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

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

Important Days Celebration

Celebration of Global Handwashing Day (15th Oct.):

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



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

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

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

Convergence of Government Scheme:

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

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

1.3 Sustainable Livelihood Development

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

At Dahej site sustainable livelihood interventions are

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

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

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

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

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

IMPACT OF CATTLE BREEDING PROGRAMME

Period: - October- 2022 to March- 2023

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

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

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

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

Annexure-4

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

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

Annexure – 5

Green Fodder Production FY 2022-23

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

Green Fodder Stump Distribution

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

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

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

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

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

31	Dahej	Kaladara (Ahir Faliya)	16	2	18
	Total		380	449	829

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

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

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

Adani Annapurna Project

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

Key Highlights:

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

Outcome:

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

Adani's Mahila Movement for Advancement - (AMMA)

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

SHG's Progress: October 2022 – March 2023

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

INTERGRATED MODEL SUVA

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

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

Key Highlights

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

COMMUNITY ENGAGEMENT

LAKHIGAM PREMIER LEAGUE

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



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

WOMEN'S DAY CELEBRATION

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

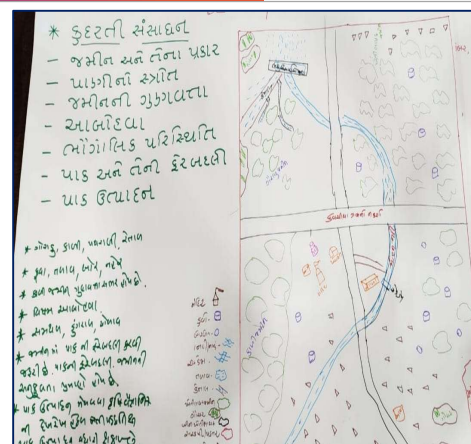
- More than 600 women of 18 villages participated in the event including Govt Officials of Health, Education, Livelihood, Women & Child Development departments: SHG members and housewives.
- AF honored 3 icons of women empowerment of tribal area.
 - **Drashti Vasava**, international level ice stock player,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



CAPACITY BUILDING PROGRAM

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

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



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

1.4 Community Infrastructure Development

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

Construction of Multipurpose Hall at Lakhigam



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

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

Develop Greenbelt around Luvara Pond



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

Children Park at Primary school, Kaladara



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

1.5 Employee Volunteering Program (EVP)

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



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

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

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

1.7 Case stories

Project Utthan transformed my life: Illaben

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

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

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



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

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

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

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



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

Adani Kamdhenu Project changed me from a Laborer to an Employer

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



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

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

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

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

1.8 Media coverage



ભચ્ચ-અંકલેશ્વર 27-02-2023

મહાનિર્વાણ

મંદ્ર પોકિટિવ ● લેખક બા.પિંગેટ ગામમાં ૬ જેટલા પરિવારો વાંસમાંથી વસ્તુઓ બનાવવાનું કુશળ ધારણ છે

કોટવાળિયા પરિવારોની કળાને વૈશ્વિક ઓળખ મળશે

કોર્પોરેટ ગિફ્ટિંગમાં વાંસની વસ્તુઓની માગ વધી

કોટવાળિયા પરિવારોની કળાને વૈશ્વિક ઓળખ મળશે

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કોર્પોરેટ ગિફ્ટિંગમાં વાંસની વસ્તુઓની માગ વધી

અદાણી ફાઉન્ડેશન દ્વારા વાગારના આઠ ગામોમાં મલ્ટિસ્પેશિયાલિટી હેલ્થ કેમ્પ યોજાયા

લખીગામ, લુવારા, કરવામાં આવી હતી. આ કેમ્પમાંએ(પ્રાથી) સુ લોકો તેો ડાપ થી દષ પર્યા વધુપરખાતા. એનું કરણ એ કે આ ઉમરના દર્દીઓ સ્ત્રીનીય અથવા તબીબી તપાસના હું માટે વુ હુ કુઈ શતા તી થી આ કેમ્પ તેમના માટે વરદાન સમાન હતા. એમના ગામમાં યોજાયાલા આ કેમ્પ એવા માંડે વરઓએ તબીબી પરીક્ષા કરી શકાહું તી. બી.કે.એસ.સેન્ટર દ્વારા એક પછી બીએમ પડુ જાણશે એમનું લોહોઅ પછ કરવામા આસો એનેરડીટી જાણશે તેમને વુસતવારનેડી વધવશા વધવશ કરવામાં આસો.


ભરુચ, તા. ૧૬ મુળ એવા ગામમાં પ્રથમ વાર ગામમાં યોજાયાલા આ કેમ્પ એવા માંડે વરઓએ તબીબી પરીક્ષા કરી શકાહું તી. બી.કે.એસ.સેન્ટર દ્વારા એક પછી બીએમ પડુ જાણશે એમનું લોહોઅ પછ કરવામા આસો એનેરડીટી જાણશે તેમને વુસતવારનેડી વધવશા વધવશ કરવામાં આસો.


અદાણી ફાઉન્ડેશન ડાપ જ હેલ્થ કેમ્પનું આયોજન થયું હતું. આ આરોગ્ય કેમ્પ માં પ્રાથમિકી હેલ્થ કેં, સેકેટરી આપા ઉંઠીશ, સીનીટી, ગ્રાપ પંચવાળા સહકારથીવાગર તાલુકાના આઠગામમાં નિયુક્ત આરમીસિસ્ટ્રીટી, દવાઓ આપણોર નિખાત, સીરોગ નિખાત અને જનરલ ડિસિસિપનતબીબી દ્વારા તપસ આયુલું. વાગર તાલુકામાં

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





3h · 🌐

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

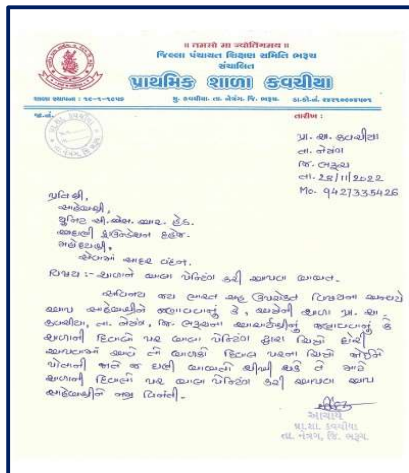
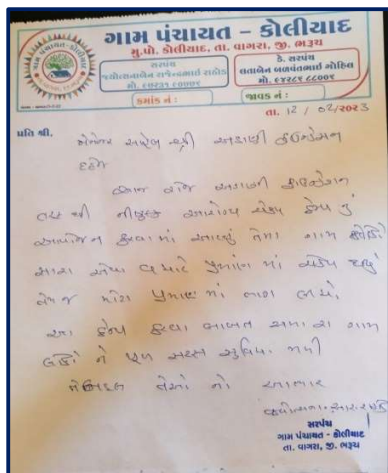
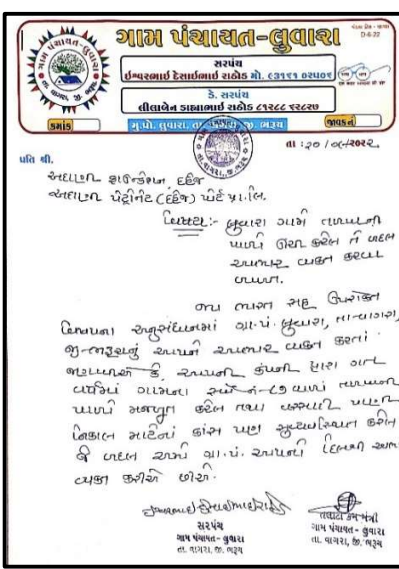
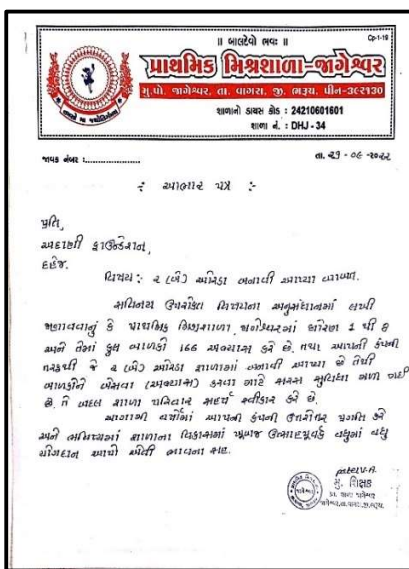
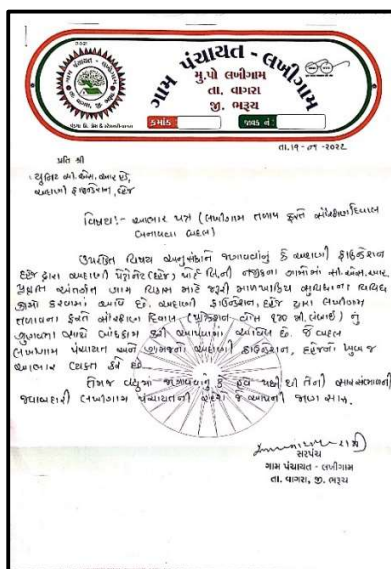


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1.9 Appreciation letter from stakeholder(s)



1.10 Award/ recognition



1.11 Beneficiaries count

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

INCLUSION of

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

Adani Foundation team

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

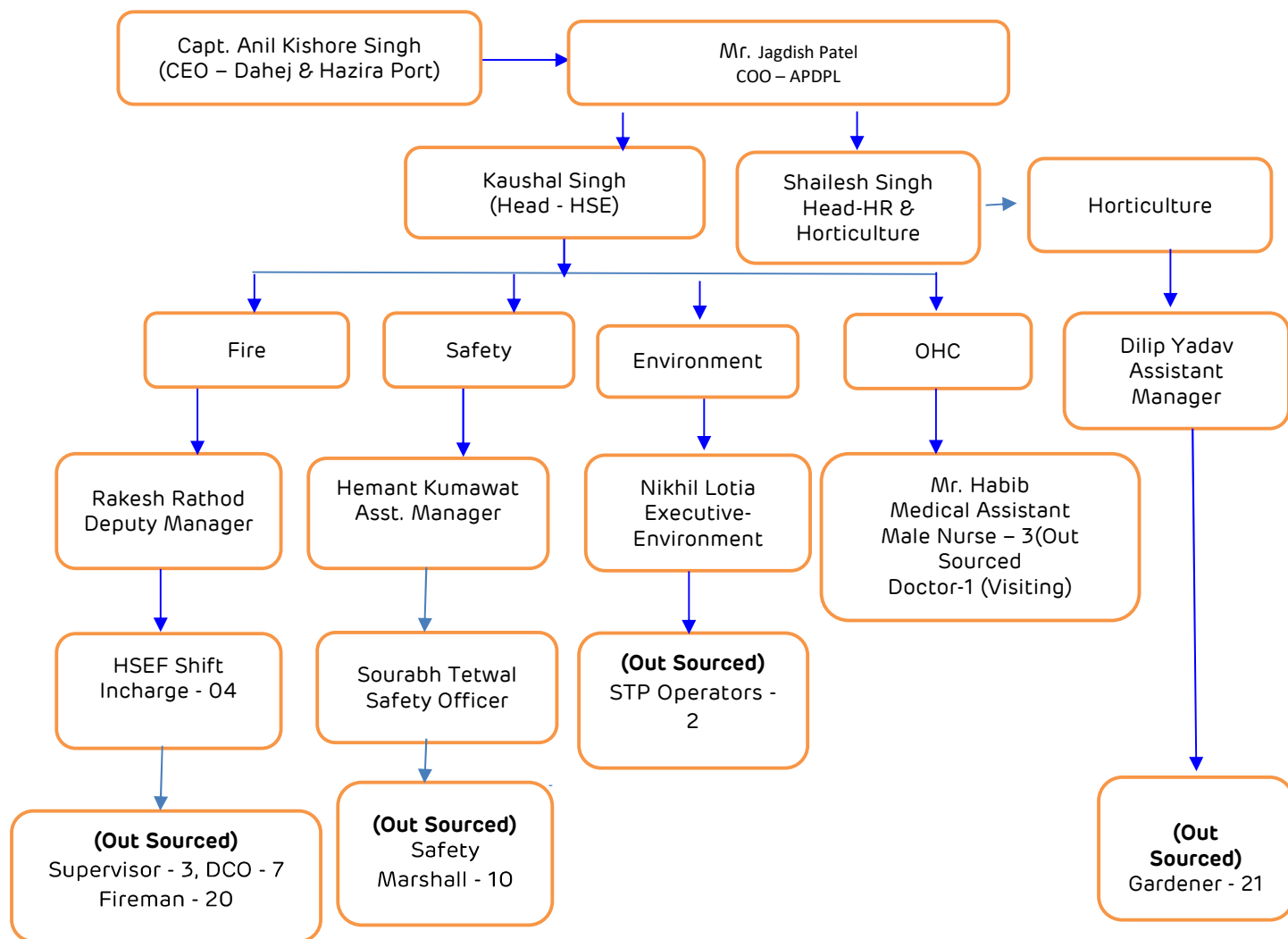


Site office address: Adani Foundation, Dahej
At & P.O: Lakhigam, Taluka: Vagra via Dahej
Bharuch: 392130, Gujarat (India)
www.adanifoundation.org

Annexure - 9: Organogram of APDPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT LTD.

Department: HSE Management Cell



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



सत्यमेव जयते

GOVERNMENT OF INDIA

MINISTRY OF CORPORATE AFFAIRS

Corporate Identity Number:

IN THE MATTER OF



Registrar of Companies

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

