

## Om Prakash Yadav

**From:** Om Prakash Yadav  
**Sent:** Tuesday, May 25, 2021 9:24 AM  
**To:** rowz.bpl-mef@nic.in  
**Cc:** bharuchgpcb@yahoo.com; westzonepcb@yahoo.com; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; mefcc.ia3@gmail.com; monitoring-ec@nic.in; compliance.seiaa.gujarat@gmail.com; eccompliance-guj@gov.in; ms-gpcb@gujarat.gov.in; Manoj Katar; Shalin Shah; Snehal Jariwala; Harsh Yadav; Kaushal Singh  
**Subject:** Half yearly Compliance report of Environment and CRZ Clearance for Phase I & II of Adani Petronet (Dahej) Port Private Limited(APDPPL) From October, 2020 to March, 2021  
**Attachments:** EC & CRZ Clearance Compliance\_Phase\_I\_II\_APDPPL\_Dahej\_Oct\_20 to Mar\_21.pdf



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

Date: 24/05/2021

To  
Deputy Director General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WZ),  
E-5, Kendriya Paryaveeran Bhawan, E-5 Arera Colony, Link Road-3,  
Ravishankar Nagar, Bhopal - 462016 (M.P.)  
Email: [rowz.bpl-mef@nic.in](mailto:rowz.bpl-mef@nic.in)

Dear Sir,

**Subject:** - Six Monthly Compliance Report of Environment and CRZ Clearance for the period from October, 2020 to March, 2021

**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 6<sup>th</sup> July, 2007 and 11<sup>th</sup> 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 16<sup>th</sup> May, 2007 bearing No.: ENV-102006-71-P for Phase-I and letter dated 29<sup>th</sup> September, 2008 bearing No.: ENV-10-2007-2126-E for Phase-II.

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters.

Thanking you,

Yours Faithfully,

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

  
(Authorized Signatory)

Copy to:

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

Thanks with regards

**Om Prakash Yadav**

**Executive – HSE | Adani Petronet (Dahej) Port Pvt Ltd**

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**At & PO Lakhigam, Taluka Vagra, Via Dahej, Bharuch 392 130, Gujarat, India**



Ports and  
Logistics

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5. Integrated Regional Office, Gandhinagar
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Po Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
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**ADANI PETRONET (DAHEJ) PORT PVT. LTD**

**From: Oct., 2020  
To : March, 2021**

**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 2020 TO MARCH 2021)**

**BY**

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



**LIST OF APPENDIXES**

<b>S. No.</b>	<b>DETAILS</b>
1.	Environmental and CRZ clearances for Phase-I and Phase-II issue by MOEF&CC, New Delhi vide letters dated 6 <sup>th</sup> July, 2007 and 11 <sup>th</sup> November, 2008 bearing F. No.: 11-37/2007-IA-III. M/s. Adani Petronet (Dahej) Port Pvt. Ltd.
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**List of Annexure**

- Annexure 1** : Forest Compliance
- Annexure 2** : Details of Fixed Mobile Fire Fighting System
- Annexure 3** : Environment Monitoring Report
- Annexure 4** : Compliance Status of EMP As Per EIA Report
- Annexure 5** : Green Belt development plan
- Annexure 6** : Environmental Budget & Expenditure For FY 2021
- Annexure 7** : Environment Management Cell
- Annexure 8** : CSR Report form October, 20 to March, 21

**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																										
P2(i)	All the conditions stipulated by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJo6o/2006-BHO/1508, dtd., 16.6.2008 shall be strictly adhered to	<b>Complied.</b> All the conditions mention by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJo6o/2006-BHO/1508, dtd., 16.6.2008 have been complied with. Copy of the compliance status enclosed as <b>Annexure – 1.</b>																										
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	<b>Complied.</b> 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 <b>Annexure – 1.</b>																										
P2(iii)	No reclamation will be carried out for the activity	<b>Complied.</b> 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.	<b>Complied.</b> All the condition mentioned by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as <b>Appendix – 1.</b>																										
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	<b>Complied.</b> 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, 20 to March, 2021)</td><td>Type of STP</td></tr><tr><td>80KLD</td><td>18KLD</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. Summary of STP treated water analysis results during compliance period form October, 2020 to March, 2021 as 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>7.11</td><td>7.84</td><td>6.5- 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>6</td><td>18</td><td>30</td></tr><tr><td>BOD(3 Days @ 27 °C</td><td>mg/L</td><td>10</td><td>17</td><td>20</td></tr></table>	Capacity	Quantity of Wastewater (Avg. from October, 20 to March, 2021)	Type of STP	80KLD	18KLD	MBR	Parameters	Unit	Min	Max	Perm. Limit	PH	-	7.11	7.84	6.5- 8.5	TSS	mg/L	6	18	30	BOD(3 Days @ 27 °C	mg/L	10	17	20
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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				
		Residual Free Chlorine	mg/L	0.6	0.8	0.5(Min)
		Oil & Grease	mg/L	2.8	4.3	-
P2(vi), P1(ii)	Afforestation in 200 ha. with mangroves should be undertaken under the project, as identified by the Gujarat Forest Department	<b>Complied.</b> Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). Details are given below. <ol style="list-style-type: none"> <li>100 ha near village Dandi, District Surat– 2011</li> <li>50 ha near village Jakhau, District Kutch – 2011</li> <li>50 ha near Padri bit, District Bhavnagar – 2011</li> <li>200 ha near Malpur, Ta. Jambusar – 2013-14</li> <li>50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (done as compliance to Phase –III EC &amp;CRZ clearance)</li> </ol> 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.				
P2(vii)	Afforestation @1:3 shall be carried out in case of any trees to be cut.	<b>Complied.</b> <ul style="list-style-type: none"> <li>Afforestation on 38 ha. Land has been completed with the help of forest department during 2012-14.</li> <li>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. APPPL-EHS/MoEF RO/EC Comp (I &amp; II) dated 28.11.2017.</li> </ul>				
P2(viii), P1(iii)	The recommendations of the Risk Assessment Report should be incorporated	<b>Complied.</b> Risk Assessment Report was submitted along with compliance report dated 20/02/2008. The recommendation of risk assessment are incorporated and being followed during construction and operation phases.				

**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																												
P2(ix), P1(v)	The materials for the filling and pavement construction should be made available from approved quarries.	<b>Complied.</b> Construction of the project (Phase I & II) was completed in February 2011.																												
P2(x), P1(vi)	Sufficient fixed and mobile firefighting system should be provided exclusively for the terminal in consultation with the local statutory bodies.	<b>Complied.</b> Adequate fixed and mobile firefighting systems are provided. Details firefighting systems available with APDPPL 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 <b>Annexure – 2</b> .																												
P2(xi), P1(x)	All development in the port should be carried out in accordance with the Coastal Regulation Zone Notification, 1991 and approved Coastal Zone Management Plan of Gujarat.	<b>Complied.</b> 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. Peizometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	<b>Complied.</b> Ground water is not tapped in CRZ area 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. Summary of Piezometers analysis results during compliance period form October, 2020 to March, 2021 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>30</td><td>30.5</td></tr><tr><td>pH</td><td>--</td><td>8.09</td><td>8.65</td></tr><tr><td>Total Dissolved Solids</td><td>mg/L</td><td>986</td><td>1810</td></tr><tr><td>Salinity</td><td>ppt</td><td>0.169</td><td>0.33</td></tr><tr><td>Chloride as Cl</td><td>mg/L</td><td>94</td><td>184</td></tr><tr><td>Depth of Water Level from Ground Level</td><td>meter</td><td>1.5</td><td>2.5</td></tr></table> Copies of monitoring reports are enclosed as <b>Annexure 3B</b> .	Test Parameter	Unit	Min	Max	Temperature	°C	30	30.5	pH	--	8.09	8.65	Total Dissolved Solids	mg/L	986	1810	Salinity	ppt	0.169	0.33	Chloride as Cl	mg/L	94	184	Depth of Water Level from Ground Level	meter	1.5	2.5
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P2(xiii), P1(xii)	The project shall not be commissioned till the requisite water supply and electricity to the	<b>Complied.</b> Project is commissioned after obtaining permission																												

**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
	project are provided by the PWD/Electricity Department.	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 rain water 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	<b>Complied.</b> The feasibility study for rain water harvesting was conducted. Based on the report it may be concluded that rain water 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.
P2(xv), P1(xv)	No land reclamation should be carried out for this project.	<b>Complied.</b> Project (Phase I & II) has been developed within existing land without any reclamation.
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.	<b>Being Complied</b> Considering the expansion plan, Green belt is being developed on periphery of the project boundary. So far 19.40 ha of Green belt is developed which mainly includes casuarina, <i>wasigtonia palm</i> , <i>cassia samiea</i> , <i>peltoforum</i> , <i>delonix regia</i> , <i>figus sps</i> . Details of green belt area are enclosed as <b>Annexure – 5</b> .
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.	<b>Complied.</b> 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.
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.	<b>Complied.</b> APDPPL is handling 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.
P1(iv)	Location of general cargo berth should be taken in to considerations with regard to location of LNG terminal	<b>Complied.</b> General cargo berth (Solid Cargo Port Terminal jetty) is approx. 500 m away from the LNG jetty of Petronet LNG Ltd.
P1(vii)	The wave tranquility study and the ship maneuvering studies carried out should be taken in to account while operating the Port.	<b>Complied.</b> 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.
P1(viii)	The project proponent should ensure that during construction and operation of the port	<b>Complied.</b> There is no commercial fishing in the area. Free

**Half yearly Compliance report for Environment and CRZ Clearance for the development of  
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	there will be no impact on the livelihood of the fisherman. The fisherman should be provided free access to carry out the fishing activity.	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.	<b>Complied.</b> Construction (Phase I & II) activities are completed in February, 2011. APDPPL 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 19.03.2021. Last revision in the DMP was done on 01.05.2020. Disaster Management Plan 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. copy enclosed as <b>Annexure-2</b>

**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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>All the development activities are being taken up in accordance with the CRZ notification, 1991 &amp; its subsequent amendments.</li> <li>The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006.</li> <li>Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87.</li> </ul>
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.	<b>Complied.</b> 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	<b>Complied.</b> <ul style="list-style-type: none"> <li>The Project (Phase I &amp; II) activities are not generating any trade effluent.</li> <li>Only domestic effluent is being generated which was treated in the STP outside CRZ area and used for horticulture within the premises.</li> <li>Details regarding STP are given in point</li> </ul>



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Solid Cargo Port Terminal Phase – I and Phase – II.**

Sr. No.	Specific Conditions	Compliance																																																																																																																															
	Pollution Control Board and the Union Ministry of Environment and Forest under the Environmental (Protection) Act, 1986, whichever are more stringent.	<div>number- V (Refer above point)</div> <div><ul style="list-style-type: none"><li>Noise monitoring (Once in a month) is carried out by NABL accredited and MoEF&amp;CC approved agency namely M/s Pollucon Laboratories Pvt. Ltd.</li><li>The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise monitoring results during compliance period form October, 2020 to March, 2021 as mentioned below table.</li></ul></div> <table><tr><th>Location</th><th>Unit</th><th>Max</th><th>Min</th><th>Limit</th></tr><tr><td rowspan="2">Behind QHSE Office</td><td>Day Time dB(A)</td><td>70.1</td><td>42.5</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>61.5</td><td>41.8</td><td>70</td></tr><tr><td rowspan="2">PMC Office Back Side</td><td>Day Time dB(A)</td><td>63.8</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>62.5</td><td>42.4</td><td>70</td></tr><tr><td rowspan="2">Sub Station - 6 Back Side</td><td>Day Time dB(A)</td><td>68.7</td><td>42.4</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>64.3</td><td>40.8</td><td>70</td></tr><tr><td rowspan="2">Sub Station - 8 (Marine Building)</td><td>Day Time dB(A)</td><td>67.3</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>65.1</td><td>42.1</td><td>70</td></tr><tr><td rowspan="2">Near Sub Station - 7B</td><td>Day Time dB(A)</td><td>68.1</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>66.5</td><td>41.8</td><td>70</td></tr><tr><td rowspan="2">JS – 1 (Nr. Lakhigam)</td><td>Day Time dB(A)</td><td>69.1</td><td>42.7</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>64.9</td><td>42.3</td><td>70</td></tr><tr><td rowspan="2">Behind S.S. - 11 (Silo)</td><td>Day Time dB(A)</td><td>68.1</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>62.9</td><td>41.6</td><td>70</td></tr><tr><td rowspan="2">Cylo Loading Point</td><td>Day Time dB(A)</td><td>69.1</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>61.3</td><td>42.6</td><td>70</td></tr><tr><td rowspan="2">GCPTL Gate</td><td>Day Time dB(A)</td><td>69.1</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>69.1</td><td>42.1</td><td>70</td></tr><tr><td rowspan="2">Lakhi Village (Primary School)</td><td>Day Time dB(A)</td><td>70.1</td><td>42.9</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>62.1</td><td>41.7</td><td>70</td></tr><tr><td rowspan="2">ERMS Workshop</td><td>Day Time dB(A)</td><td>66.5</td><td>36.9</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>62.8</td><td>41.9</td><td>70</td></tr><tr><td rowspan="2">Behind Pump House</td><td>Day Time dB(A)</td><td>68.1</td><td>36.4</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>62.6</td><td>42.5</td><td>70</td></tr><tr><td rowspan="2">Rock bond Approach (Jetty)</td><td>Day Time dB(A)</td><td>69.1</td><td>42.8</td><td>75</td></tr><tr><td>Night Time dB(A)</td><td>64.2</td><td>42.1</td><td>70</td></tr><tr><td>New Gate</td><td>Day Time dB(A)</td><td>69.1</td><td>43.2</td><td>75</td></tr></table>	Location	Unit	Max	Min	Limit	Behind QHSE Office	Day Time dB(A)	70.1	42.5	75	Night Time dB(A)	61.5	41.8	70	PMC Office Back Side	Day Time dB(A)	63.8	42.8	75	Night Time dB(A)	62.5	42.4	70	Sub Station - 6 Back Side	Day Time dB(A)	68.7	42.4	75	Night Time dB(A)	64.3	40.8	70	Sub Station - 8 (Marine Building)	Day Time dB(A)	67.3	42.8	75	Night Time dB(A)	65.1	42.1	70	Near Sub Station - 7B	Day Time dB(A)	68.1	42.8	75	Night Time dB(A)	66.5	41.8	70	JS – 1 (Nr. Lakhigam)	Day Time dB(A)	69.1	42.7	75	Night Time dB(A)	64.9	42.3	70	Behind S.S. - 11 (Silo)	Day Time dB(A)	68.1	42.8	75	Night Time dB(A)	62.9	41.6	70	Cylo Loading Point	Day Time dB(A)	69.1	42.8	75	Night Time dB(A)	61.3	42.6	70	GCPTL Gate	Day Time dB(A)	69.1	42.8	75	Night Time dB(A)	69.1	42.1	70	Lakhi Village (Primary School)	Day Time dB(A)	70.1	42.9	75	Night Time dB(A)	62.1	41.7	70	ERMS Workshop	Day Time dB(A)	66.5	36.9	75	Night Time dB(A)	62.8	41.9	70	Behind Pump House	Day Time dB(A)	68.1	36.4	75	Night Time dB(A)	62.6	42.5	70	Rock bond Approach (Jetty)	Day Time dB(A)	69.1	42.8	75	Night Time dB(A)	64.2	42.1	70	New Gate	Day Time dB(A)	69.1	43.2	75
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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				
			Night Time dB(A)	66.5	41.9	70
		Security	Day Time dB(A)	69.1	42.6	75
		Barrier Gate	Night Time dB(A)	63.2	40.8	70
		JS – 2	Day Time dB(A)	64.4	42.7	75
			Night Time dB(A)	60.2	40.9	70
		Railway	Day Time dB(A)	69.1	43.9	75
		Dead End	Night Time dB(A)	67.2	41.4	70
		Open	Day Time dB(A)	68.1	42.6	75
		Storage Yard -1	Night Time dB(A)	61.5	41.8	70
		Loco shed	Day Time dB(A)	67.6	42.6	75
			Night Time dB(A)	66.5	42.8	70
		Lakhi Village (below conveyer belt)	Day Time dB(A)	69.1	40.8	75
			Night Time dB(A)	60.6	41.9	70
Copy of Noise level monitoring are enclosed as <b>Annexure – 3G.</b>						
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.	<b>Complied.</b> APDPPL 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 which is valid up to 16.07.2025. Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 25.11.2020.				
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>Domestic effluent is being treated in STPs. Details regarding the same are given above in point number V (Refer above)</li> <li>The monitoring results of the treated wastewater from STP for the period from October, 2020 to March, 2021 are enclosed as <b>Annexure – 3F.</b></li> <li>Reports are available at site for the inspection and APDPPL regularly submits report to GPCB.</li> </ul>				
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	<b>Complied.</b> 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, a NABL accredited and				

**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																									
	facilities and qualified manpower to carry out the testing of various environmental parameters.	<p>MoEF &amp; CC recognised laboratory. Summary of environment monitoring during compliance period from October, 2020 to March, 2021 as mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit</th></tr><tr><td>PM<sup>10</sup></td><td>µg/m<sup>3</sup></td><td>96.26</td><td>43.6</td><td>100</td></tr><tr><td>PM<sup>2.5</sup></td><td>µg/m<sup>3</sup></td><td>55.4</td><td>15.3</td><td>60</td></tr><tr><td>SO<sub>2</sub></td><td>µg/m<sup>3</sup></td><td>27.55</td><td>6.4</td><td>80</td></tr><tr><td>NO<sub>2</sub></td><td>µg/m<sup>3</sup></td><td>45.63</td><td>13.54</td><td>80</td></tr></table> <ul style="list-style-type: none"><li>The monitoring results for the period from October, 2020 to March, 2021 are enclosed as <b>Annexure – 3A to 3H.</b></li></ul>	Parameter	Unit	Max	Min	Perm. Limit	PM <sup>10</sup>	µg/m <sup>3</sup>	96.26	43.6	100	PM <sup>2.5</sup>	µg/m <sup>3</sup>	55.4	15.3	60	SO <sub>2</sub>	µg/m <sup>3</sup>	27.55	6.4	80	NO <sub>2</sub>	µg/m <sup>3</sup>	45.63	13.54	80
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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.	<b>Complied.</b> <ul style="list-style-type: none"><li>There are no sand dunes in project area.</li><li>Free flow to the mangroves near the jetty approach is maintained.</li></ul>																									
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.	<b>Complied.</b> <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&amp;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.	<b>Complied.</b> <p>Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP’s (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –6.</b></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	<b>Complying with.</b> <ul style="list-style-type: none"><li>APDPPL is regularly submitting six monthly compliance reports which comprises Compliance to the conditions stipulated in</li></ul>																									

**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
	proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<p>Environment and CRZ clearance, environment monitoring reports etc.</p> <ul style="list-style-type: none"> <li>Whenever any authorities from MoEF&amp;CC, GPCB and GMB etc. visit APDPPL, full support is extended and APDPPL provides all additional information seek by them during the inspection.</li> <li>No officer of MoEF&amp;CC, regional office Bhopal and CPCB visited the port during the compliance period.</li> <li>Latest visit of Gujarat Pollution Control Board was on 15.12.2020.</li> </ul>
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.	<p><b>Noted and complied with.</b></p> <p>There is no change in the Phase I &amp; II development.</p>
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.	<b>Noted &amp; agreed.</b>
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.	<b>Noted &amp; Agreed</b>
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 <a href="http://www.envfornic.in">http://www.envfornic.in</a> . 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.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>Copies of the advertisements were submitted to MoEF&amp;CC vide compliance report dated 27/11/2013.</li> </ul>
P2(xvi),	The Project proponents should inform the	<b>Complied.</b>

**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
P1(xvi)	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.	<ul style="list-style-type: none"> <li>Financial closure date of Project was 31<sup>st</sup> July 2007.</li> <li>Existing Facility – construction started date July 2007.</li> <li>Land development work for phase II started in Jan. 2009.</li> <li>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.</li> </ul>
P2(xvii)	Any appeal against this environment clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Appellate Act, 1997	<b>Noted.</b>

**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 Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II**

Sr. no.	Conditions	Status/Action taken																																																																	
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 APPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the APPL.	<b>Complied.</b> 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 APPL before commencing the expansion activities.	<b>Complied.</b> <ul style="list-style-type: none"><li>All the necessary permissions have been obtained by M/s. APDPPL.</li><li>NOC obtained form Gujarat Maritime Board vide letter No. GMB/N/PVT/264(10)1/1858-10215 Dated 27.06.2006</li><li>Environment Clearance for phase I &amp; Phase II obtained vide letters dated 6<sup>th</sup> July, 2007 &amp; 11<sup>th</sup> November 2008 and bearing F. No. 11-37/2007-IA-III respectively</li><li>Consent to Establish (CTE) and Consent to Operate (CTO) are obtained from GPCB and renewed/amendment form time to time as per the progress of the project activity. The present in force CTE/CTO are mentioned below</li></ul> <table><tr><th>S. No.</th><th>Permission</th><th>Project</th><th>Ref. No./Order No.</th><th>Valid till</th></tr><tr><td>1</td><td>CTE</td><td>APDPPL</td><td>GPCB/BRCH/ NOC/2528/80108</td><td>30/03/2011</td></tr><tr><td>2</td><td>CCA</td><td>APDPPL</td><td>AWH-40224</td><td>04/07/2011</td></tr><tr><td>3</td><td>CCA (Amendment)</td><td>APDPPL</td><td>GPCB/BRCH-B-CCA-06/(2)ID-31664/12315</td><td>04/07/2015</td></tr><tr><td>4</td><td>CCA Renewal</td><td>APDPPL</td><td>AWH-73359</td><td>16/07/2020</td></tr><tr><td>5</td><td>CTE</td><td>APDPPL Phase-III</td><td>CTE Amendments-71696</td><td>07/07/2020</td></tr><tr><td>6</td><td>CTE (Amendment)</td><td>APDPPL-III</td><td>CTE Amendments-71696</td><td>07/07/2020</td></tr><tr><td>7</td><td>CCA Amendment</td><td>APDPPL</td><td>GPCB/BRCH-BCCA-06(3)ID-31664</td><td>16/07/2020</td></tr><tr><td>8</td><td>CCA Amendment</td><td>APDPPL</td><td>GPCB/BRCH-BCCA-06(3)ID-31664</td><td>16/07/2020</td></tr><tr><td>9</td><td>CCA Amendment</td><td>APDPPL</td><td>GPCB/BRCH-BCCA-06(3)ID-31664</td><td>16/07/2020</td></tr><tr><td>10</td><td>CCA Amendment</td><td>APDPPL</td><td>GPCB/BRCH-BCCA-06(3)ID-31664/566292</td><td>16/07/2020</td></tr><tr><td>11</td><td>CCA Renewal</td><td>APDPPL</td><td>GPCB/BRCH-B/CCA-06(7)ID-31664/571845(AWH-109820)</td><td>01/11/2020</td></tr><tr><td>12</td><td>CTE Validity extend</td><td>APDPPL-III</td><td>CTE Amendment No. 111311</td><td>07/07/2023</td></tr></table>	S. No.	Permission	Project	Ref. No./Order No.	Valid till	1	CTE	APDPPL	GPCB/BRCH/ NOC/2528/80108	30/03/2011	2	CCA	APDPPL	AWH-40224	04/07/2011	3	CCA (Amendment)	APDPPL	GPCB/BRCH-B-CCA-06/(2)ID-31664/12315	04/07/2015	4	CCA Renewal	APDPPL	AWH-73359	16/07/2020	5	CTE	APDPPL Phase-III	CTE Amendments-71696	07/07/2020	6	CTE (Amendment)	APDPPL-III	CTE Amendments-71696	07/07/2020	7	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020	8	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020	9	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020	10	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664/566292	16/07/2020	11	CCA Renewal	APDPPL	GPCB/BRCH-B/CCA-06(7)ID-31664/571845(AWH-109820)	01/11/2020	12	CTE Validity extend	APDPPL-III	CTE Amendment No. 111311	07/07/2023
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8	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020																																																															
9	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020																																																															
10	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664/566292	16/07/2020																																																															
11	CCA Renewal	APDPPL	GPCB/BRCH-B/CCA-06(7)ID-31664/571845(AWH-109820)	01/11/2020																																																															
12	CTE Validity extend	APDPPL-III	CTE Amendment No. 111311	07/07/2023																																																															



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

Sr. no.	Conditions	Status/Action taken
P2(3), P1(5)	The APPL 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	<b>Complied.</b> <ul style="list-style-type: none"> <li>Construction (Phase I &amp; II) of the port was completed in February 2011.</li> <li>The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006.</li> <li>Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87.</li> </ul>
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.	<b>Noted and agreed to comply.</b>
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 affected due to any of the project activities.	<b>Complied.</b> <ul style="list-style-type: none"> <li>No dredging/reclamation have been done in CRZ I (i).</li> <li>There is no wildlife sanctuary, national park in the vicinity of the project.</li> </ul>
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>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, 2020 to March, 2021 are enclosed as <b>Annexure – 3F</b>.</li> <li>Reports are available at site for the inspection and</li> </ul>

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

Sr. no.	Conditions	Status/Action taken
		APDPPL 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 APPL.	<b>Being Complied.</b> 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 Chalamandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as <b>Annexure 4</b> .
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>Construction (Phase I &amp; II) of the project was completed on February 2011.</li> <li>Free flow to the mangroves near the jetty approach is maintained.</li> </ul>
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>Two small tidal creeks, Ban Khadi and Ghugar Khadi creeks flows at North -West direction form port</li> <li>No creeks are blocked due to port activity.</li> <li>Free flow to the mangroves near the jetty approach is maintained.</li> </ul>
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.	<b>Noted and agreed to comply.</b> APDPPL is committed for 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.	<b>Complied.</b> 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 ensure that the environmental conditions are not deteriorated by the	<b>Complied.</b> <ul style="list-style-type: none"> <li>Construction of the project was completed on February 2011.</li> <li>No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.</li> </ul>

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

Sr. no.	Conditions	Status/Action taken
	construction labours.	
P2(13), P1(18)	The APPL 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.	<b>Complied</b> <ul style="list-style-type: none"> <li>Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012.</li> <li>Resubmitted Oil Spill Contingency plan prepared and submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi &amp; Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018</li> <li>Request letter for approval of Oil Spill Contingency plan submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi &amp; Coast Guard, Gandhinagar vide letter dated 16/09/2020</li> <li>APDPPL has a well-defined DMP and regular mock drills are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 19.03.2021. Last revision in the DMP was done on 01.05.2020. Disaster Management Plan is submitted to District collector, Mamlatdar (Disaster) and Gujarat Maritime Board, Bharuch, vide letter no. APDPPL/EHS/DMP/Rev-07/2020-21, 123 &amp; 124 dated 20.01.2021.</li> </ul>
P2(14),P1(19)	The APPL 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.	<b>Noted and agreed to comply.</b>
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	<b>Complied.</b> Mangrove afforestation has been carried out in an area of 450 ha. Details are given below. <ol style="list-style-type: none"> <li>100 ha near village Dandi, Dist Surat– 2011</li> <li>50 ha near village Jakhau, Dist Kutch – 2011</li> <li>50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>200 ha near Malpur, Ta. Jambusar – 2013-14</li> <li>50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as part of compliance to Phase – III EC &amp; CRZ Clearance conditions)</li> </ol>

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

Sr. no.	Conditions	Status/Action taken
		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 carried out as per the permission accorded by the concerned Authority for the said purpose	<b>Complied.</b> Construction of the project was completed in February 2011 in compliance to the approvals.
P1(3)	The APPL 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.	<b>Complied.</b> Mangrove afforestation has been carried out in an area of 450 ha. Details are given below. 5. 100 ha near village Dandi, Dist Surat– 2011 6. 50 ha near village Jakhau, Dist Kutch – 2011 7. 50 ha near Padri bit, Dist Bhavnagar – 2011 8. 200 ha near Malpur, Ta. Jambusar – 2013-14 5. 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.
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>All the activities on forest land have been started only after obtaining forest land clearance.</li> <li>Clarence from MOEF was obtained vide letter no 6-GJCo60/2006-BHO/1508 dated 16<sup>th</sup> June 2008.</li> <li>The same was communicated by State Forest Department vide letter no A-1006(10-9)SF-76-K dated 1<sup>st</sup> July 2008 from DOEF.</li> </ul>

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

Sr. no.	Conditions	Status/Action taken
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.	<b>Complied.</b> APDPPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.
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.	<b>Complied.</b> Alternative access to the sea is available adjoining to the project site.
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.	<b>Complied.</b> Construction of the project was completed in February 2011.
P1(20)	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	<b>Complied.</b> The jetty and most of the approach of 1270 meter is supported on piles allowing adequate flow of water without significant obstruction.
	<b>General Conditions</b>	
P2(17),P1(21)	The groundwater shall not be tapped by the APPPL to meet with the water requirements in any case.	<b>Complied.</b> Ground water is not tapped in CRZ area 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
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.	<b>Complying with.</b> Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. Details of the green development is enclosed is <b>Annexure – 5</b> .
P2(19),P1(23)	The APPL 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	<b>Complied.</b> The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as <b>Annexure – 8</b> .

Sr. no.	Conditions	Status/Action taken																								
	Department and the District Collector/District Development Officer.																									
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.	<p><b>Complied.</b> Separate budget is allocated for Environmental Management and Socio Economic activities.</p> <ul style="list-style-type: none"> <li>• Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure –6</b>.</li> <li>• 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 <b>Annexure – 8</b>.</li> </ul>																								
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.	<p><b>Complied.</b> APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 7</b>.</p>																								
P2(22),P1(26)	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the APPL to this Department as well as to the MoEF, GOI.	<p><b>Complied.</b> Seawater and sediment is being monitored through NABL accredited &amp; MoEF&amp;CC recognized laboratory M/s Pollucon Laboratories, Surat. Refer the results shown earlier. Monitoring Report for the period October, 2020 to March, 2021 is enclosed in <b>Annexure 3C &amp; 3D</b>. No significant changes observed.</p>																								
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><b>Being Complied</b></p> <ul style="list-style-type: none"> <li>• APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports.</li> <li>• Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&amp;II) dated 25.11.2020 in soft copy via mail dated 25.11.2020. Please refer below for the details regarding past 7 compliance submissions.</li> </ul> <table border="1"> <thead> <tr> <th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr><td>1</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> </tbody> </table>	S. No	Compliance Period	Date of Submission	1			2			3			4			5			6			7		
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**Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal  
Phase – I and Phase – II**

Sr. no.	Conditions	Status/Action taken		
		1	Apr'17 to Sep'17	28.11.2017
		2	Oct'17 to Mar'18	28.05.2018
		3	Apr'18 to Sep'18	23.11.2018
		4	Oct'18 to Mar'19	29.05.2019
		5	Apr'19 to Sep'19	20.11.2019
		6	Oct'19 to Mar'20	20.05.2020
		7	Apr'20 to Sep'20	25.11.2020
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.	<b>Noted and agreed to comply with</b> 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 APPL 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.	<b>Complied.</b> A request in this regard for asking for the terms of Financial Contribution submitted to the GEER Foundation vide letter dated 17th April, 2009.		



**ANNEXURE-1**  
**FOREST COMPLIANCE**

**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-GJo60/2006-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	<b>Noted.</b>
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.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• APDPPL 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</li> <li>• APDPPL has deposited Rs. 33,06,000/- towards the cost of compensatory afforestation</li> <li>• Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.</li> </ul>
2(b)	This CA land shall be notified as Reserved Forests.	<b>Complied.</b> 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.	<b>Complied</b> 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	<b>Complied.</b> <ul style="list-style-type: none"> <li>• APDPPL has deposited Rs. 3,48,000/- towards the cost of penal compensatory afforestation.</li> <li>• Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.</li> </ul>
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 (CAMP A) in A/c No. CA-1583 of Corporation bank Block 11, CGO Complex, Phase – I, Lodhi Road, New Delhi – 110003.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• All the funds received from user agency under project have been transferred to CAMP A by Forest Department, Govt. of Gujarat.</li> </ul>
5	The forest land shall not be used for any purpose other than that specified in the project proposal.	<b>Complied.</b> Forest land is being used as per the proposal for which clearance has been obtained.

**ANNEXURE- 2**

**DETAILS OF FIXED MOBILE FIRE FIGHTING  
SYSTEM**

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

<b>Fire Fighting Systems</b>	<b>Details</b>
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	461 Nos.
Smoke Detector	144 Nos.
Fire Bucket	66 Nos.
Emergency Siren	5 Nos.
Port Water Reservoir Pump House	5040 KL
Silo Water Reservoir Pump House	5031 KL
<b>Fire Vehicles Detail</b>	
Multi-Purpose Fire Tender – Water & Foam	10 KL & 1.5
Dry Chemical Powder @ 50 Kgs. (MFT)	2 Nos.
CO <sub>2</sub> @ 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

APDPPL/EHS/DMP/Rev-07/2020-21/

Date : 20-01-21

To,  
The Executive Magistrate,  
Executive Magistrate Office,  
Taluka : Vagara,  
District : Bharuch,

**Subject: Submission of Emergency Response and Disaster Management Plan of Adani Petronet (Dahej) Port Pvt. Ltd. (APDPPL)**


Dear Sir,

With reference to above subject, we are submitting emergency response and disaster management plan for the period from April 2020 to March 2021 of APDPPL. Copy of the same is enclosed as Annexure 1 for your ready reference.

Thanking you,

For, Adani Petronet (Dahej) Port Pvt. Ltd.

  
(Authorized Signatory)

  
28/1/2021  
રવાનગી કારકુન  
મામલતદાર કચેરી  
વાગરા, જી. ભરૂચ

APDPPL/EHS/DMP/Rev-07/2020-21/123

Date: 20-1-21

To,  
The Mamlatdar (Disaster)  
District Disaster Management Branch,  
District Collector Office,  
Bharuch,

Subject: Submission of Emergency Response and Disaster Management Plan of Adani  
Petronet (Dahej) Port Pvt. Ltd. (APDPPL)

Dear Sir,

With reference to above subject, we are submitting emergency response and disaster management plan for the period from April 2020 to March 2021 of APDPPL. Copy of the same is enclosed as Annexure 1 for your ready reference.

Thanking you,

For, Adani Petronet (Dahej) Port Pvt. Ltd.

  
(Authorized Signatory)

Received -

DPO  
20/1/21

20/1/2021  
स्वा.म.डी.के.रकुन  
डिस्ट्रिक्ट कलेक्टर  
भारुच. 20/1/2021

APDPPL/EHS/DMP/Rev-07/2020-21/124

Date: 20-01-21

To,  
The Port Officer,  
Gujarat Maritime Board,  
Bharuch,

**Subject:** Submission of Emergency Response and Disaster Management Plan of Adani Petronet (Dahej) Port Pvt. Ltd. (APDPPL)

Dear Sir,

With reference to above subject, we are submitting emergency response and disaster management plan for the period from April 2020 to March 2021 of APDPPL. Copy of the same is enclosed as Annexure 1 for your ready reference.

Thanking you,

For, Adani Petronet (Dahej) Port Pvt. Ltd.

  
(Authorized Signatory)

Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Po Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India

Tel +91 2641 25 3395  
Fax +91 2641 25 3398  
info@adani.com  
www.adani.com





**ANNEXURE- 3**

**ENVIRONMENT MONITORING REPORT**  
**(OCTOBER-2020 TO MARCH-2021)**

## Environment Monitoring Report for the period from October-20 to March-21

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

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

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	86.22	41.55	ND*	ND*	ND*	ND*	0.71	ND*	30.23	13.72	31.59	18.37
2	06/10/2020	96.26	53.21	0.82	ND*	2.62	10.67	1.02	ND*	38.66	18.14	36.54	29.95
3	09/10/2020	87.26	50.24	ND*	ND*	ND*	ND*	0.81	ND*	24.13	25.48	39.53	25.21
4	13/10/2020	94.29	55.38	0.90	ND*	2.58	10.43	1.00	ND*	32.85	21.23	43.57	27.58
5	16/10/2020	85.30	46.28	ND*	ND*	ND*	ND*	0.62	ND*	35.46	23.40	45.35	15.15
6	20/10/2020	77.59	37.58	ND*	ND*	ND*	ND*	0.94	ND*	27.39	20.13	37.46	24.31
7	23/10/2020	88.62	48.62	ND*	ND*	ND*	ND*	0.84	ND*	39.29	27.20	42.85	22.31
8	27/10/2020	80.21	44.25	ND*	ND*	ND*	ND*	0.54	ND*	25.65	14.72	38.70	30.4
9	30/10/2020	93.39	52.40	0.65	ND*	2.36	10.34	0.69	ND*	42.34	19.21	33.78	20.76
10	03/11/2020	80.24	39.37	ND*	ND*	ND*	ND*	0.58	ND*	27.54	25.67	42.57	26.36
11	06/11/2020	90.31	43.39	ND*	ND*	ND*	ND*	0.86	ND*	36.46	21.47	34.78	23.42
12	10/11/2020	95.65	53.43	0.83	ND*	2.62	10.56	0.66	ND*	29.41	24.63	37.67	29.4
13	13/11/2020	89.66	46.85	ND*	ND*	ND*	ND*	0.95	ND*	24.90	18.38	32.46	25.47
14	17/11/2020	96.20	55.40	0.92	ND*	2.46	10.33	0.74	ND*	32.86	26.13	44.55	20.32
15	20/11/2020	79.35	44.54	ND*	ND*	ND*	ND*	0.41	ND*	42.69	22.63	41.51	27.54
16	24/11/2020	87.83	50.35	ND*	ND*	ND*	ND*	0.44	ND*	38.41	20.52	38.29	15.41
17	27/11/2020	94.22	54.45	0.80	ND*	2.76	10.35	0.89	ND*	34.50	23.48	31.38	28.25
18	01/12/2020	94.39	52.64	0.70	ND*	2.32	10.32	1.05	ND*	28.55	17.52	33.53	28.38
19	04/12/2020	84.35	46.51	ND*	ND*	ND*	ND*	0.97	ND*	31.50	23.82	37.54	20.78
20	08/12/2020	96.18	54.27	0.76	ND*	2.52	10.88	0.79	ND*	27.66	20.65	41.55	27.6
21	11/12/2020	85.67	39.33	ND*	ND*	ND*	ND*	0.80	ND*	20.48	25.26	38.41	23.78
22	15/12/2020	90.59	51.52	0.82	ND*	2.46	10.61	0.89	ND*	39.53	22.15	42.39	21.3
23	18/12/2020	76.58	32.39	ND*	ND*	ND*	ND*	0.71	ND*	29.37	19.30	39.26	26.28
24	22/12/2020	82.36	30.52	ND*	ND*	ND*	ND*	0.65	ND*	32.42	24.12	44.26	24.86



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25	25/12/2020	93.92	50.24	0.65	ND*	2.65	10.73	0.69	ND*	35.38	21.25	40.20	29.27
26	29/12/2020	83.67	47.83	ND*	ND*	ND*	ND*	0.94	ND*	40.26	15.31	32.48	22.83
27	01/01/2021	78.26	42.36	ND*	ND*	ND*	ND*	0.44	ND*	30.45	19.52	28.66	25.64
28	05/01/2021	86.21	34.67	ND*	ND*	ND*	ND*	0.97	ND*	35.66	22.48	40.30	30.68
29	08/01/2021	94.33	52.66	0.70	ND*	2.22	10.67	0.72	ND*	22.42	25.44	45.35	22.53
30	12/01/2021	88.67	45.56	ND*	ND*	ND*	ND*	0.80	ND*	31.51	23.27	41.25	24.13
31	15/01/2021	79.68	48.37	ND*	ND*	ND*	ND*	0.93	ND*	25.78	16.96	37.56	29.67
32	19/01/2021	90.25	54.23	0.82	ND*	2.18	10.39	0.68	ND*	20.76	26.23	32.49	20.7
33	22/01/2021	81.51	41.60	ND*	ND*	ND*	ND*	0.86	ND*	37.63	18.27	39.28	21.9
34	26/01/2021	70.60	32.41	ND*	ND*	ND*	ND*	0.70	ND*	29.37	20.76	42.34	27.59
35	29/01/2021	93.61	49.30	0.92	ND*	2.60	10.36	0.81	ND*	34.53	24.24	36.55	23.26
36	02/02/2021	86.62	50.50	ND*	ND*	ND*	ND*	0.96	ND*	36.34	25.49	44.35	30.54
37	05/02/2021	79.67	42.36	ND*	ND*	ND*	ND*	0.85	ND*	29.30	17.69	41.21	23.51
38	09/02/2021	90.53	55.37	0.88	ND*	2.46	10.76	0.64	ND*	38.29	21.37	36.46	17.5
39	12/02/2021	82.62	46.27	ND*	ND*	ND*	ND*	0.77	ND*	33.47	26.31	43.65	29.63
40	16/02/2021	78.37	38.40	ND*	ND*	ND*	ND*	1.00	ND*	40.28	23.35	39.24	24.34
41	19/02/2021	93.55	53.61	0.76	ND*	2.62	10.59	1.07	ND*	35.35	13.42	34.57	27.52
42	23/02/2021	80.66	47.29	ND*	ND*	ND*	ND*	0.57	ND*	25.38	20.26	32.58	25.4
43	26/02/2021	92.68	54.58	0.66	ND*	2.84	10.41	0.87	ND*	45.38	24.35	35.63	28.19
44	02/03/2021	89.62	52.36	ND*	ND*	ND*	ND*	1.05	ND*	26.68	21.71	36.58	26.34
45	05/03/2021	93.65	55.36	0.85	ND*	2.23	10.39	0.65	ND*	36.23	27.55	39.25	28.41
46	09/03/2021	84.21	41.28	ND*	ND*	ND*	ND*	0.80	ND*	24.31	16.86	42.54	16.31
47	12/03/2021	94.56	54.25	0.76	ND*	2.42	10.88	0.97	ND*	22.42	25.70	37.61	25.34
48	16/03/2021	88.60	47.09	ND*	ND*	ND*	ND*	0.85	ND*	35.48	20.34	40.31	21.52
49	19/03/2021	80.27	38.49	ND*	ND*	ND*	ND*	0.92	ND*	25.61	17.90	30.68	23.39
50	23/03/2021	92.50	53.29	0.65	ND*	2.36	10.43	0.98	ND*	29.43	26.20	45.63	29.46
51	26/03/2021	73.63	36.26	ND*	ND*	ND*	ND*	0.61	ND*	34.56	22.40	41.22	24.14
52	30/03/2021	86.38	45.43	ND*	ND*	ND*	ND*	0.78	ND*	30.26	15.36	35.46	30.37

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$

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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	66.33	28.67	ND*	ND*	ND*	ND*	0.41	ND*	27.68	18.46	18.88	13.89
2	06/10/2020	78.27	44.40	ND*	ND*	ND*	ND*	0.46	ND*	31.54	11.26	33.56	21.62
3	09/10/2020	83.61	47.30	ND*	ND*	ND*	ND*	0.61	ND*	19.81	23.91	36.48	27.75
4	13/10/2020	60.28	35.64	ND*	ND*	ND*	ND*	0.80	ND*	24.76	13.59	27.63	23.42
5	16/10/2020	80.37	40.40	ND*	ND*	ND*	ND*	0.53	ND*	17.83	19.27	40.29	19.53
6	20/10/2020	69.26	32.66	ND*	ND*	ND*	ND*	0.65	ND*	11.66	10.54	26.43	22.4
7	23/10/2020	82.66	42.60	ND*	ND*	ND*	ND*	0.66	ND*	26.16	16.51	35.17	16.52
8	27/10/2020	74.31	39.27	ND*	ND*	ND*	ND*	0.48	ND*	16.33	20.30	28.44	20.2
9	30/10/2020	64.27	36.46	ND*	ND*	ND*	ND*	0.50	ND*	32.49	14.92	22.46	18.28
10	03/11/2020	58.64	33.78	ND*	ND*	ND*	ND*	0.30	ND*	19.41	20.70	33.87	12.68
11	06/11/2020	62.52	28.64	ND*	ND*	ND*	ND*	0.37	ND*	28.63	14.50	28.71	19.28
12	10/11/2020	73.51	39.43	ND*	ND*	ND*	ND*	0.56	ND*	12.60	12.31	23.68	24.23
13	13/11/2020	56.31	26.80	ND*	ND*	ND*	ND*	0.76	ND*	16.26	15.64	25.45	11.65
14	17/11/2020	83.11	47.54	ND*	ND*	ND*	ND*	0.22	ND*	23.55	18.45	30.64	28.3
15	20/11/2020	52.36	23.80	ND*	ND*	ND*	ND*	0.45	ND*	29.81	16.39	29.21	17.84
16	24/11/2020	78.55	30.47	ND*	ND*	ND*	ND*	0.73	ND*	33.51	11.28	21.62	26.2
17	27/11/2020	65.22	35.37	ND*	ND*	ND*	ND*	0.62	ND*	18.50	13.60	19.41	23.59
18	01/12/2020	76.10	38.67	ND*	ND*	ND*	ND*	0.74	ND*	14.55	6.62	15.60	26.32
19	04/12/2020	60.27	24.79	ND*	ND*	ND*	ND*	0.82	ND*	16.52	9.59	22.64	17.97
20	08/12/2020	88.27	46.35	ND*	ND*	ND*	ND*	0.47	ND*	20.33	15.53	34.32	19.56
21	11/12/2020	71.59	33.49	ND*	ND*	ND*	ND*	0.40	ND*	13.86	19.47	30.29	13.25
22	15/12/2020	89.37	49.33	0.62	ND*	2.36	10.26	0.36	ND*	27.32	14.31	26.85	27.54
23	18/12/2020	51.60	20.33	ND*	ND*	ND*	ND*	0.78	ND*	18.57	12.27	32.27	11.27
24	22/12/2020	64.22	25.68	ND*	ND*	ND*	ND*	0.48	ND*	24.36	20.88	41.34	18.88
25	25/12/2020	87.37	47.59	0.55	ND*	2.42	10.46	0.50	ND*	26.80	23.40	38.62	22.69
26	29/12/2020	73.25	35.26	ND*	ND*	ND*	ND*	0.66	ND*	33.44	13.55	21.56	20.42
27	01/01/2021	62.34	30.66	ND*	ND*	ND*	ND*	0.17	ND*	22.60	14.88	20.63	19.96



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28	05/01/2021	74.64	38.59	ND*	ND*	ND*	ND*	0.92	ND*	29.69	19.62	37.68	23.11
29	08/01/2021	80.20	44.60	ND*	ND*	ND*	ND*	0.47	ND*	14.26	22.31	33.60	25.43
30	12/01/2021	78.67	40.89	ND*	ND*	ND*	ND*	0.46	ND*	18.11	17.23	22.41	15.12
31	15/01/2021	64.23	37.64	ND*	ND*	ND*	ND*	0.38	ND*	21.66	12.85	34.17	26.23
32	19/01/2021	73.55	48.81	ND*	ND*	ND*	ND*	0.55	ND*	15.49	21.89	28.28	16.54
33	22/01/2021	67.53	31.57	ND*	ND*	ND*	ND*	0.66	ND*	32.55	15.31	35.44	13.67
34	26/01/2021	58.32	26.34	ND*	ND*	ND*	ND*	0.57	ND*	36.71	11.53	32.66	18.69
35	29/01/2021	81.62	45.66	ND*	ND*	ND*	ND*	0.39	ND*	19.67	20.65	29.63	12.73
36	02/02/2021	69.59	36.33	ND*	ND*	ND*	ND*	0.55	ND*	27.61	20.21	41.58	25.32
37	05/02/2021	57.58	34.28	ND*	ND*	ND*	ND*	0.76	ND*	24.50	8.71	26.37	26.37
38	09/02/2021	70.64	43.85	ND*	ND*	ND*	ND*	0.37	ND*	22.68	14.21	28.45	15.33
39	12/02/2021	58.32	23.41	ND*	ND*	ND*	ND*	0.30	ND*	15.28	21.57	31.33	18.32
40	16/02/2021	72.67	33.39	ND*	ND*	ND*	ND*	0.82	ND*	34.66	16.34	25.84	20.48
41	19/02/2021	83.49	51.19	ND*	ND*	ND*	ND*	0.25	ND*	17.84	17.37	37.52	14.51
42	23/02/2021	74.37	38.62	ND*	ND*	ND*	ND*	0.39	ND*	21.50	10.38	23.18	11.38
43	26/02/2021	81.23	50.21	ND*	ND*	ND*	ND*	0.45	ND*	42.67	19.36	27.68	21.73
44	02/03/2021	75.62	41.53	ND*	ND*	ND*	ND*	0.86	ND*	20.53	19.51	29.51	29.23
45	05/03/2021	82.67	47.01	ND*	ND*	ND*	ND*	0.34	ND*	23.24	17.25	32.69	18.48
46	09/03/2021	52.51	29.35	ND*	ND*	ND*	ND*	0.64	ND*	12.65	10.27	35.30	20.63
47	12/03/2021	69.33	38.68	ND*	ND*	ND*	ND*	0.29	ND*	16.85	23.61	34.51	24.22
48	16/03/2021	78.67	44.26	ND*	ND*	ND*	ND*	0.42	ND*	10.60	14.54	24.25	16.46
49	19/03/2021	70.57	35.64	ND*	ND*	ND*	ND*	0.38	ND*	13.69	11.42	27.55	17.6
50	23/03/2021	81.24	43.87	ND*	ND*	ND*	ND*	0.84	ND*	22.54	24.21	40.22	19.67
51	26/03/2021	54.58	23.69	ND*	ND*	ND*	ND*	0.66	ND*	25.43	18.23	37.51	25.63
52	30/03/2021	73.56	42.48	ND*	ND*	ND*	ND*	0.49	ND*	14.31	9.59	33.69	23.73

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$

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

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	75.64	33.21	ND*	ND*	ND*	ND*	0.47	ND*	14.21	16.70	15.60	15.93
2	06/10/2020	68.25	41.24	ND*	ND*	ND*	ND*	0.76	ND*	16.57	6.54	30.24	13.36
3	09/10/2020	74.56	36.30	ND*	ND*	ND*	ND*	0.23	ND*	11.25	10.96	25.36	18.54
4	13/10/2020	55.26	29.37	ND*	ND*	ND*	ND*	0.73	ND*	12.31	7.69	35.33	19.21
5	16/10/2020	72.57	32.57	ND*	ND*	ND*	ND*	0.45	ND*	22.64	11.46	29.39	27.22
6	20/10/2020	58.66	28.59	ND*	ND*	ND*	ND*	0.57	ND*	15.75	17.77	21.34	11.27
7	23/10/2020	63.58	24.50	ND*	ND*	ND*	ND*	0.37	ND*	21.21	13.37	26.31	25.87
8	27/10/2020	54.23	21.68	ND*	ND*	ND*	ND*	0.64	ND*	13.43	9.66	22.81	17.14
9	30/10/2020	82.65	48.48	ND*	ND*	ND*	ND*	0.44	ND*	17.28	12.15	28.21	12.63
10	03/11/2020	53.53	22.61	ND*	ND*	ND*	ND*	0.14	ND*	16.59	15.72	30.51	17.57
11	06/11/2020	72.62	30.29	ND*	ND*	ND*	ND*	0.25	ND*	12.74	12.84	25.38	11.82
12	10/11/2020	62.47	26.49	ND*	ND*	ND*	ND*	0.38	ND*	15.81	8.57	20.31	20.41
13	13/11/2020	77.50	33.48	ND*	ND*	ND*	ND*	0.69	ND*	13.22	11.53	17.81	13.43
14	17/11/2020	58.69	28.57	ND*	ND*	ND*	ND*	0.34	ND*	11.21	14.27	22.64	16.33
15	20/11/2020	74.54	42.62	ND*	ND*	ND*	ND*	0.60	ND*	20.50	9.53	18.32	22.6
16	24/11/2020	69.59	38.34	ND*	ND*	ND*	ND*	0.52	ND*	14.29	18.24	34.23	10.61
17	27/11/2020	83.61	41.35	ND*	ND*	ND*	ND*	0.53	ND*	25.31	16.18	24.83	15.83
18	01/12/2020	63.62	42.52	ND*	ND*	ND*	ND*	0.23	ND*	17.83	11.55	24.66	18.64
19	04/12/2020	71.28	36.42	ND*	ND*	ND*	ND*	0.61	ND*	22.60	7.57	18.30	15.86
20	08/12/2020	82.68	40.52	ND*	ND*	ND*	ND*	0.41	ND*	13.65	12.61	27.33	13.32
21	11/12/2020	62.69	28.30	ND*	ND*	ND*	ND*	0.32	ND*	18.22	14.54	23.45	11.57
22	15/12/2020	79.62	35.60	ND*	ND*	ND*	ND*	0.26	ND*	30.28	16.29	19.87	23.53
23	18/12/2020	65.33	27.23	ND*	ND*	ND*	ND*	0.21	ND*	14.39	8.60	15.31	19.82
24	22/12/2020	70.62	21.89	ND*	ND*	ND*	ND*	0.64	ND*	12.52	15.25	35.68	14.5
25	25/12/2020	69.39	39.44	ND*	ND*	ND*	ND*	0.44	ND*	20.25	17.36	26.23	12.88
26	29/12/2020	54.60	26.22	ND*	ND*	ND*	ND*	0.57	ND*	25.26	6.64	14.37	20.53
27	01/01/2021	55.10	28.50	ND*	ND*	ND*	ND*	0.21	ND*	18.32	6.88	17.54	12.64

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28	05/01/2021	62.31	25.36	ND*	ND*	ND*	ND*	0.53	ND*	32.42	11.17	23.44	18.71
29	08/01/2021	69.22	23.66	ND*	ND*	ND*	ND*	0.74	ND*	12.37	15.63	26.53	15.61
30	12/01/2021	71.55	34.26	ND*	ND*	ND*	ND*	0.30	ND*	27.67	13.55	28.37	21.84
31	15/01/2021	56.38	24.28	ND*	ND*	ND*	ND*	0.15	ND*	10.57	8.51	20.46	13.74
32	19/01/2021	68.52	32.23	ND*	ND*	ND*	ND*	0.52	ND*	19.38	17.59	25.38	23.57
33	22/01/2021	54.63	22.66	ND*	ND*	ND*	ND*	0.25	ND*	24.32	10.26	22.64	20.26
34	26/01/2021	65.67	29.58	ND*	ND*	ND*	ND*	0.45	ND*	26.37	7.62	19.46	11.55
35	29/01/2021	74.54	40.57	ND*	ND*	ND*	ND*	0.26	ND*	22.87	9.49	16.55	25.23
36	02/02/2021	46.35	25.28	ND*	ND*	ND*	ND*	0.86	ND*	20.41	18.21	23.68	22.3
37	05/02/2021	51.68	26.83	ND*	ND*	ND*	ND*	0.40	ND*	14.34	13.42	33.49	24.63
38	09/02/2021	64.57	37.54	ND*	ND*	ND*	ND*	0.32	ND*	11.52	11.46	24.83	19.63
39	12/02/2021	76.52	31.59	ND*	ND*	ND*	ND*	0.62	ND*	22.71	17.26	30.42	13.65
40	16/02/2021	52.63	21.35	ND*	ND*	ND*	ND*	0.31	ND*	19.63	19.59	37.43	16.3
41	19/02/2021	63.60	38.26	ND*	ND*	ND*	ND*	0.16	ND*	24.67	6.75	18.56	21.21
42	23/02/2021	58.37	33.72	ND*	ND*	ND*	ND*	0.48	ND*	10.27	12.69	26.92	18.77
43	26/02/2021	75.60	45.34	ND*	ND*	ND*	ND*	0.23	ND*	33.55	10.41	20.10	15.77
44	02/03/2021	82.42	44.76	ND*	ND*	ND*	ND*	0.41	ND*	12.85	16.61	25.25	19.59
45	05/03/2021	68.58	41.32	ND*	ND*	ND*	ND*	0.72	ND*	20.43	14.65	26.27	23.6
46	09/03/2021	74.32	35.50	ND*	ND*	ND*	ND*	0.53	ND*	17.51	12.70	18.72	13.63
47	12/03/2021	63.20	30.41	ND*	ND*	ND*	ND*	0.48	ND*	13.20	19.35	21.29	18.29
48	16/03/2021	72.55	40.57	ND*	ND*	ND*	ND*	0.57	ND*	16.33	10.83	27.26	24.3
49	19/03/2021	53.43	20.36	ND*	ND*	ND*	ND*	0.73	ND*	15.34	8.25	24.68	11.66
50	23/03/2021	62.69	36.79	ND*	ND*	ND*	ND*	0.19	ND*	11.39	20.40	30.38	17.25
51	26/03/2021	59.29	25.96	ND*	ND*	ND*	ND*	0.36	ND*	23.47	13.65	23.52	12.65
52	30/03/2021	67.68	38.61	ND*	ND*	ND*	ND*	0.60	ND*	19.45	7.58	17.25	16.58

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$



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

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	56.25	30.31	ND*	ND*	ND*	ND*	0.29	ND*	21.53	12.50	21.51	12.34
2	06/10/2020	73.44	35.86	ND*	ND*	ND*	ND*	0.39	ND*	19.22	9.26	17.35	15.39
3	09/10/2020	58.38	27.56	ND*	ND*	ND*	ND*	0.63	ND*	28.52	17.62	33.18	11.09
4	13/10/2020	66.23	32.45	ND*	ND*	ND*	ND*	0.60	ND*	29.35	10.33	30.89	13.7
5	16/10/2020	59.25	28.35	ND*	ND*	ND*	ND*	0.31	ND*	15.61	16.24	37.26	21.6
6	20/10/2020	43.63	18.49	ND*	ND*	ND*	ND*	0.17	ND*	13.27	18.60	35.40	16.28
7	23/10/2020	70.28	37.42	ND*	ND*	ND*	ND*	0.33	ND*	18.52	22.32	29.14	19.42
8	27/10/2020	60.25	29.59	ND*	ND*	ND*	ND*	0.52	ND*	11.38	13.26	34.30	14.28
9	30/10/2020	76.20	44.50	ND*	ND*	ND*	ND*	0.14	ND*	24.59	8.26	31.21	23.2
10	03/11/2020	75.67	35.70	ND*	ND*	ND*	ND*	0.42	ND*	14.51	11.35	25.87	14.26
11	06/11/2020	52.50	21.69	ND*	ND*	ND*	ND*	0.17	ND*	10.37	8.66	19.32	21.81
12	10/11/2020	79.82	42.58	ND*	ND*	ND*	ND*	0.47	ND*	25.43	15.34	28.64	18.68
13	13/11/2020	65.39	39.88	ND*	ND*	ND*	ND*	0.55	ND*	21.24	9.20	22.54	16.5
14	17/11/2020	72.51	36.53	ND*	ND*	ND*	ND*	0.63	ND*	13.63	17.30	27.51	13.66
15	20/11/2020	48.62	26.34	ND*	ND*	ND*	ND*	0.82	ND*	33.84	14.48	31.23	25.38
16	24/11/2020	54.52	30.57	ND*	ND*	ND*	ND*	0.88	ND*	24.29	12.62	26.21	23.85
17	27/11/2020	59.37	25.37	ND*	ND*	ND*	ND*	0.81	ND*	12.87	7.67	15.40	17.21
18	01/12/2020	82.38	34.69	ND*	ND*	ND*	ND*	0.30	ND*	13.53	8.41	20.86	24.25
19	04/12/2020	65.36	27.35	ND*	ND*	ND*	ND*	0.68	ND*	18.64	15.90	28.34	22.33
20	08/12/2020	59.36	24.51	ND*	ND*	ND*	ND*	0.38	ND*	10.39	10.18	24.32	17.53
21	11/12/2020	48.52	21.20	ND*	ND*	ND*	ND*	0.46	ND*	16.81	21.52	35.29	21.68
22	15/12/2020	63.68	29.46	ND*	ND*	ND*	ND*	0.18	ND*	20.92	19.46	30.58	18.31
23	18/12/2020	46.56	16.68	ND*	ND*	ND*	ND*	0.31	ND*	12.38	16.32	23.59	13.54
24	22/12/2020	52.27	19.56	ND*	ND*	ND*	ND*	0.93	ND*	21.81	13.49	32.33	16.21
25	25/12/2020	62.55	26.82	ND*	ND*	ND*	ND*	0.25	ND*	17.63	9.62	17.53	20.24
26	29/12/2020	58.29	22.35	ND*	ND*	ND*	ND*	0.86	ND*	30.68	11.26	19.11	11.63
27	01/01/2021	50.62	21.55	ND*	ND*	ND*	ND*	0.27	ND*	28.35	12.37	24.53	10.59

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28	05/01/2021	67.51	29.40	ND*	ND*	ND*	ND*	0.23	ND*	21.57	7.74	27.57	14.65
29	08/01/2021	72.68	18.52	ND*	ND*	ND*	ND*	0.56	ND*	17.60	17.14	21.52	12.53
30	12/01/2021	57.63	27.55	ND*	ND*	ND*	ND*	0.33	ND*	23.36	10.37	25.43	17.21
31	15/01/2021	49.23	20.58	ND*	ND*	ND*	ND*	0.22	ND*	16.49	6.94	15.66	19.3
32	19/01/2021	62.67	28.21	ND*	ND*	ND*	ND*	0.41	ND*	13.44	11.83	19.50	26.71
33	22/01/2021	43.60	15.36	ND*	ND*	ND*	ND*	0.71	ND*	30.22	8.28	13.54	22.89
34	26/01/2021	53.69	19.38	ND*	ND*	ND*	ND*	0.19	ND*	22.73	15.91	26.30	16.74
35	29/01/2021	68.26	35.71	ND*	ND*	ND*	ND*	0.50	ND*	27.87	14.18	22.09	18.22
36	02/02/2021	52.63	28.77	ND*	ND*	ND*	ND*	0.46	ND*	17.56	15.36	30.34	15.65
37	05/02/2021	62.40	32.39	ND*	ND*	ND*	ND*	0.49	ND*	20.20	11.37	21.56	18.54
38	09/02/2021	80.52	47.54	ND*	ND*	ND*	ND*	0.47	ND*	29.47	18.63	33.61	13.49
39	12/02/2021	70.29	34.57	ND*	ND*	ND*	ND*	0.58	ND*	12.19	12.37	36.25	16.55
40	16/02/2021	64.31	26.36	ND*	ND*	ND*	ND*	0.73	ND*	23.43	13.50	23.48	11.58
41	19/02/2021	72.36	43.46	ND*	ND*	ND*	ND*	0.50	ND*	21.22	10.27	22.38	24.85
42	23/02/2021	53.62	30.34	ND*	ND*	ND*	ND*	0.36	ND*	13.65	7.41	16.90	14.29
43	26/02/2021	65.55	35.44	ND*	ND*	ND*	ND*	0.29	ND*	30.37	14.49	31.23	19.37
44	02/03/2021	48.27	25.51	ND*	ND*	ND*	ND*	0.33	ND*	18.24	9.58	20.24	14.26
45	05/03/2021	54.67	31.90	ND*	ND*	ND*	ND*	0.50	ND*	15.56	18.49	35.52	12.54
46	09/03/2021	68.28	26.46	ND*	ND*	ND*	ND*	0.25	ND*	19.26	15.61	31.28	19.23
47	12/03/2021	83.42	46.21	ND*	ND*	ND*	ND*	0.11	ND*	10.92	11.32	27.64	13.4
48	16/03/2021	56.32	33.49	ND*	ND*	ND*	ND*	0.69	ND*	13.56	16.41	34.55	26.21
49	19/03/2021	66.35	29.43	ND*	ND*	ND*	ND*	0.23	ND*	17.36	7.62	18.31	20.22
50	23/03/2021	55.39	32.95	ND*	ND*	ND*	ND*	0.14	ND*	26.45	12.60	26.47	11.31
51	26/03/2021	49.51	20.75	ND*	ND*	ND*	ND*	0.55	ND*	11.65	8.62	19.50	15.38
52	30/03/2021	61.29	34.69	ND*	ND*	ND*	ND*	0.37	ND*	16.48	17.41	28.53	18.19

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	50.69	22.55	ND*	ND*	ND*	ND*	0.70	ND*	17.13	10.20	24.59	10.27
2	06/10/2020	61.47	27.63	ND*	ND*	ND*	ND*	0.26	ND*	26.21	13.31	20.79	19.82
3	09/10/2020	68.71	33.61	ND*	ND*	ND*	ND*	0.42	ND*	21.38	14.36	16.20	14.33
4	13/10/2020	71.72	42.49	ND*	ND*	ND*	ND*	0.36	ND*	14.50	9.55	22.33	17.21
5	16/10/2020	52.47	20.44	ND*	ND*	ND*	ND*	0.24	ND*	12.89	11.32	34.63	23.03
6	20/10/2020	48.59	24.36	ND*	ND*	ND*	ND*	0.30	ND*	18.25	8.62	29.46	18.42
7	23/10/2020	55.24	28.42	ND*	ND*	ND*	ND*	0.27	ND*	15.36	18.30	33.43	24.67
8	27/10/2020	45.39	19.24	ND*	ND*	ND*	ND*	0.19	ND*	19.66	7.56	19.26	25.65
9	30/10/2020	58.36	25.46	ND*	ND*	ND*	ND*	0.32	ND*	27.50	16.45	25.78	29.43
10	03/11/2020	63.68	27.58	ND*	ND*	ND*	ND*	0.23	ND*	12.53	18.61	22.33	22.43
11	06/11/2020	59.60	24.51	ND*	ND*	ND*	ND*	0.33	ND*	22.81	15.55	21.85	17.61
12	10/11/2020	67.55	31.76	ND*	ND*	ND*	ND*	0.27	ND*	18.64	6.52	29.53	13.87
13	13/11/2020	73.43	35.80	ND*	ND*	ND*	ND*	0.24	ND*	13.52	13.20	19.50	19.63
14	17/11/2020	64.20	40.25	ND*	ND*	ND*	ND*	0.40	ND*	17.22	20.68	35.28	21.55
15	20/11/2020	58.59	28.32	ND*	ND*	ND*	ND*	0.48	ND*	23.69	11.39	24.50	10.25
16	24/11/2020	62.62	37.83	ND*	ND*	ND*	ND*	0.32	ND*	20.78	9.63	31.51	12.41
17	27/11/2020	71.24	32.33	ND*	ND*	ND*	ND*	0.57	ND*	10.62	19.64	26.32	20.27
18	01/12/2020	69.32	29.67	ND*	ND*	ND*	ND*	0.33	ND*	24.69	19.84	27.55	20.83
19	04/12/2020	57.61	21.67	ND*	ND*	ND*	ND*	0.14	ND*	27.54	21.38	33.87	12.52
20	08/12/2020	72.54	35.54	ND*	ND*	ND*	ND*	0.34	ND*	17.56	7.36	31.57	23.66
21	11/12/2020	67.58	26.35	ND*	ND*	ND*	ND*	0.45	ND*	10.14	11.35	20.42	14.89
22	15/12/2020	70.22	37.53	ND*	ND*	ND*	ND*	0.60	ND*	22.52	12.85	23.35	25.4
23	18/12/2020	56.51	23.86	ND*	ND*	ND*	ND*	0.16	ND*	25.39	14.29	19.56	16.49
24	22/12/2020	49.80	15.30	ND*	ND*	ND*	ND*	0.53	ND*	18.39	17.87	26.48	22.71
25	25/12/2020	55.38	28.39	ND*	ND*	ND*	ND*	0.24	ND*	23.47	13.67	21.33	18.51
26	29/12/2020	68.29	31.48	ND*	ND*	ND*	ND*	0.22	ND*	16.31	9.35	16.22	13.82
27	01/01/2021	67.94	24.56	ND*	ND*	ND*	ND*	0.16	ND*	14.31	8.61	14.51	17.54

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28	05/01/2021	49.52	17.53	ND*	ND*	ND*	ND*	0.61	ND*	25.36	12.26	30.37	24.6
29	08/01/2021	56.31	27.66	ND*	ND*	ND*	ND*	0.34	ND*	10.27	10.51	23.69	19.42
30	12/01/2021	63.58	23.50	ND*	ND*	ND*	ND*	0.54	ND*	15.25	7.39	33.42	13.47
31	15/01/2021	68.30	33.41	ND*	ND*	ND*	ND*	0.18	ND*	18.59	13.42	25.73	15.53
32	19/01/2021	52.42	22.34	ND*	ND*	ND*	ND*	0.37	ND*	11.26	15.20	20.28	18.14
33	22/01/2021	61.26	26.51	ND*	ND*	ND*	ND*	0.63	ND*	21.72	6.61	28.41	16.29
34	26/01/2021	48.66	16.58	ND*	ND*	ND*	ND*	0.73	ND*	16.31	9.88	35.27	14.59
35	29/01/2021	62.53	32.94	ND*	ND*	ND*	ND*	0.31	ND*	13.54	11.67	19.81	11.3
36	02/02/2021	58.65	33.59	ND*	ND*	ND*	ND*	0.60	ND*	13.22	13.62	20.30	12.23
37	05/02/2021	67.57	35.73	ND*	ND*	ND*	ND*	0.24	ND*	26.31	6.40	29.35	20.34
38	09/02/2021	53.53	30.26	ND*	ND*	ND*	ND*	0.65	ND*	18.37	9.63	21.35	11.62
39	12/02/2021	64.57	27.60	ND*	ND*	ND*	ND*	0.34	ND*	25.20	14.33	17.61	21.37
40	16/02/2021	57.93	23.79	ND*	ND*	ND*	ND*	0.56	ND*	15.31	11.20	31.56	23.45
41	19/02/2021	49.36	34.66	ND*	ND*	ND*	ND*	0.66	ND*	12.32	8.92	26.55	13.53
42	23/02/2021	63.35	24.58	ND*	ND*	ND*	ND*	0.22	ND*	19.28	12.17	19.68	15.41
43	26/02/2021	70.30	29.69	ND*	ND*	ND*	ND*	0.38	ND*	24.33	16.49	22.65	22.44
44	02/03/2021	55.29	29.30	ND*	ND*	ND*	ND*	0.21	ND*	15.61	11.52	18.64	11.25
45	05/03/2021	61.27	34.10	ND*	ND*	ND*	ND*	0.17	ND*	11.27	13.59	22.63	21.3
46	09/03/2021	57.25	21.57	ND*	ND*	ND*	ND*	0.47	ND*	21.21	7.41	15.59	14.6
47	12/03/2021	79.65	43.58	ND*	ND*	ND*	ND*	0.16	ND*	18.64	16.28	19.25	16.24
48	16/03/2021	50.29	26.60	ND*	ND*	ND*	ND*	0.32	ND*	29.35	12.51	20.60	18.61
49	19/03/2021	58.63	23.38	ND*	ND*	ND*	ND*	0.44	ND*	10.30	14.88	21.61	15.23
50	23/03/2021	49.27	28.47	ND*	ND*	ND*	ND*	0.39	ND*	14.25	18.35	24.29	23.44
51	26/03/2021	44.29	17.52	ND*	ND*	ND*	ND*	0.24	ND*	17.45	15.27	28.41	17.86
52	30/03/2021	54.31	31.05	ND*	ND*	ND*	ND*	0.54	ND*	24.27	10.49	23.76	22.67

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$

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

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	02/10/2020	80.31	38.45	ND*	ND*	ND*	ND*	0.38	ND*	25.26	20.56	28.58	19.38
2	06/10/2020	91.82	48.20	0.72	ND*	2.42	10.52	0.82	ND*	34.25	15.20	39.27	25.37
3	09/10/2020	78.67	40.27	ND*	ND*	ND*	ND*	0.68	ND*	31.88	22.43	30.42	21.23
4	13/10/2020	84.25	46.33	0.81	ND*	2.36	10.35	0.95	ND*	17.56	19.65	24.68	24.56
5	16/10/2020	90.23	49.20	ND*	ND*	ND*	ND*	0.58	ND*	27.10	26.52	31.15	29.34
6	20/10/2020	63.55	35.73	ND*	ND*	ND*	ND*	0.40	ND*	24.27	13.20	26.30	20.33
7	23/10/2020	75.23	45.69	ND*	ND*	ND*	ND*	0.74	ND*	35.25	24.83	38.31	28.27
8	27/10/2020	68.65	33.54	ND*	ND*	ND*	ND*	0.90	ND*	22.26	16.78	42.56	22.19
9	30/10/2020	87.55	39.43	0.53	ND*	2.12	10.17	0.34	ND*	29.59	21.68	37.84	14.41
10	03/11/2020	69.58	31.56	ND*	ND*	ND*	ND*	0.49	ND*	23.41	22.52	36.35	24.56
11	06/11/2020	78.28	38.43	ND*	ND*	ND*	ND*	0.78	ND*	31.21	18.59	31.66	27.23
12	10/11/2020	90.28	48.31	0.68	ND*	2.42	10.45	0.54	ND*	20.60	21.68	34.54	22.55
13	13/11/2020	82.40	43.59	ND*	ND*	ND*	ND*	0.85	ND*	19.28	15.44	27.25	20.65
14	17/11/2020	91.26	52.25	0.78	ND*	2.34	10.38	0.68	ND*	28.27	24.18	37.43	26.89
15	20/11/2020	68.57	33.87	ND*	ND*	ND*	ND*	0.36	ND*	38.24	20.25	35.66	30.22
16	24/11/2020	83.66	46.51	ND*	ND*	ND*	ND*	0.64	ND*	30.50	23.53	42.41	21.61
17	27/11/2020	88.62	50.40	0.65	ND*	2.65	10.23	1.05	ND*	33.44	17.86	28.56	25.53
18	01/12/2020	89.61	47.56	0.63	ND*	2.15	10.53	0.17	ND*	21.54	10.61	30.64	22.49
19	04/12/2020	77.66	39.64	ND*	ND*	ND*	ND*	0.92	ND*	35.27	13.18	25.29	24.68
20	08/12/2020	92.64	49.44	0.84	ND*	2.18	10.72	0.72	ND*	29.63	18.79	37.69	15.32
21	11/12/2020	78.65	30.85	ND*	ND*	ND*	ND*	0.58	ND*	24.53	16.84	33.32	18.22
22	15/12/2020	84.35	46.20	0.76	ND*	2.27	10.41	0.95	ND*	33.69	20.56	38.27	16.36
23	18/12/2020	71.26	36.25	ND*	ND*	ND*	ND*	0.62	ND*	22.38	22.38	34.82	28.79
24	22/12/2020	68.30	28.60	ND*	ND*	ND*	ND*	0.42	ND*	27.81	15.70	29.29	26.58
25	25/12/2020	82.30	43.68	0.60	ND*	2.36	10.64	0.55	ND*	32.89	11.61	32.82	23.84
26	29/12/2020	79.51	45.21	ND*	ND*	ND*	ND*	0.49	ND*	20.60	17.80	27.80	19.29
27	01/01/2021	71.65	34.52	ND*	ND*	ND*	ND*	0.24	ND*	36.20	21.32	31.24	25.38

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28	05/01/2021	80.54	31.84	ND*	ND*	ND*	ND*	0.42	ND*	18.66	17.29	34.25	21.52
29	08/01/2021	89.23	47.53	0.58	ND*	2.32	10.37	0.36	ND*	26.25	19.32	42.67	26.49
30	12/01/2021	83.51	37.28	ND*	ND*	ND*	ND*	0.49	ND*	29.42	20.37	35.68	19.53
31	15/01/2021	73.81	44.30	ND*	ND*	ND*	ND*	0.48	ND*	34.29	14.37	28.63	23.70
32	19/01/2021	85.37	51.42	0.68	ND*	2.12	10.16	0.62	ND*	24.27	23.53	36.29	27.24
33	22/01/2021	76.64	35.60	ND*	ND*	ND*	ND*	0.79	ND*	28.29	11.44	30.27	29.29
34	26/01/2021	52.68	23.74	ND*	ND*	ND*	ND*	0.82	ND*	19.53	18.43	38.36	24.55
35	29/01/2021	88.69	49.91	0.82	ND*	2.40	10.20	0.76	ND*	30.87	16.19	26.67	28.86
36	02/02/2021	80.35	46.34	ND*	ND*	ND*	ND*	1.01	ND*	23.64	23.47	35.35	18.66
37	05/02/2021	73.43	38.28	ND*	ND*	ND*	ND*	0.79	ND*	17.60	19.66	38.31	28.35
38	09/02/2021	85.33	50.38	0.73	ND*	2.24	10.28	0.54	ND*	34.57	17.66	30.20	24.51
39	12/02/2021	53.51	20.32	ND*	ND*	ND*	ND*	0.89	ND*	28.67	24.58	39.57	26.23
40	16/02/2021	60.26	29.42	ND*	ND*	ND*	ND*	0.70	ND*	37.50	21.61	34.57	29.56
41	19/02/2021	76.54	47.36	0.72	ND*	2.46	10.50	0.98	ND*	31.68	15.66	31.37	16.14
42	23/02/2021	69.53	43.38	ND*	ND*	ND*	ND*	0.84	ND*	16.61	18.55	28.86	22.21
43	26/02/2021	86.34	40.22	0.56	ND*	2.56	10.39	0.61	ND*	38.60	22.37	37.24	25.62
44	02/03/2021	70.28	36.57	ND*	ND*	ND*	ND*	0.93	ND*	22.34	14.29	32.47	22.43
45	05/03/2021	87.64	49.75	0.72	ND*	2.16	10.32	0.30	ND*	30.46	23.42	42.60	30.40
46	09/03/2021	79.60	38.29	ND*	ND*	ND*	ND*	0.46	ND*	28.27	21.21	38.43	18.22
47	12/03/2021	88.27	50.23	0.65	ND*	2.12	10.15	0.58	ND*	20.32	13.45	29.57	28.38
48	16/03/2021	65.65	35.21	ND*	ND*	ND*	ND*	0.68	ND*	23.51	18.67	31.55	20.33
49	19/03/2021	75.68	32.51	ND*	ND*	ND*	ND*	0.77	ND*	18.50	20.28	33.58	24.59
50	23/03/2021	86.38	48.26	0.58	ND*	2.22	10.24	0.52	ND*	17.28	22.53	37.69	26.82
51	26/03/2021	64.20	29.03	ND*	ND*	ND*	ND*	0.71	ND*	31.24	19.48	34.24	21.45
52	30/03/2021	77.55	40.76	ND*	ND*	ND*	ND*	0.82	ND*	27.52	12.35	30.54	19.84

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1  $\mu\text{g}/\text{m}^3$ , Carbon Monoxide as CO: 0.1  $\text{mg}/\text{m}^3$ , Benzene as  $\text{C}_6\text{H}_6$ : 2  $\mu\text{g}/\text{m}^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $\text{ng}/\text{m}^3$ , Arsenic as As: 2  $\text{ng}/\text{m}^3$ , Nickel as Ni: 5  $\text{ng}/\text{m}^3$

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: October-20 to March-21****3B.1 Near Sub Station-7B**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1	Temperature	°C	30.3	30.4	30	30.1	30.3	30.3
2	pH	--	8.4	8.23	8.48	8.29	8.09	8.35
3	Total Dissolved Solids	mg/L	1810	1526	1673	1730	1156	1768
4	Salinity	ppt	0.27	0.23	0.25	0.27	0.198	0.294
5	Chloride as Cl	mg/L	149	129	138	148	110	163
6	Depth of Water Level from Ground Level	meter	1.5	2	2.5	1.5	1.5	1.5
7	Status of Tide	--	High Tide	High Tide	Low Tide	High Tide	Low Tide	Low Tide

**3B.2 Near QHSE Office**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1	Temperature	°C	30.5	30.3	30	30.2	30.3	30.3
2	pH	--	8.42	8.47	8.65	8.59	8.2	8.62
3	Total Dissolved Solids	mg/L	992	986	1356	1586	1218	1673
4	Salinity	ppt	0.21	0.169	0.29	0.31	0.22	0.33
5	Chloride as Cl	mg/L	119	94	154	170	124	184
6	Depth of Water Level from Ground Level	meter	1.5	1.5	1.5	1.5	2	2
7	Status of Tide	--	High Tide	High Tide	Low Tide	High Tide	Low Tide	Low Tide

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**3C. SEA WATER (SURFACE & BOTTOM) QUALITY ANALYSIS MONITORING:-**
**Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period: October 2020 to March 2021:-**

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			OCT-20		NOV-20		DEC-20		JAN-21		FEB-21		MARCH-21	
			23/10/2020		28/11/2020		30/12/2020		05/01/2021		18/02/2021		25/03/2021	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.94	7.91	8.11	8.06	8.26	8.21	8.21	8.17	8.28	8.23	8.27	8.24
2	Temperature	°C	29.2	29	29.1	28.9	29.9	29.5	29.7	29.5	30.4	30.2	30.4	30.2
3	Total Suspended Solids	mg/L	316	293	386	264	368	270	328	287	351	319	312	278
4	BOD (3 Days @ 27 °C)	mg/L	2.3	Not Detected	2.9	Not Detected	3.1	Not Detected	3.4	Not Detected	3.6	Not Detected	3.4	Not Detected
5	Dissolved Oxygen	mg/L	5.9	5.8	5.8	5.6	5.9	5.7	5.8	5.6	5.9	5.7	5.9	5.8
6	Salinity	ppt	29.5	29.9	30.4	30.7	30.7	31.1	30.8	31.3	31.8	32.5	32.1	32.6
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µm ol/L	2.58	2.4	2.36	2.28	2.48	2.23	2.69	2.43	3.37	3.21	2.93	2.76
9	Nitrite as NO <sub>2</sub>	µm ol/L	0.61	0.39	0.74	0.59	0.68	0.45	0.96	0.85	0.61	0.48	0.59	0.43
10	Ammonical Nitrogen as NH <sub>3</sub>	µm ol/L	2.43	2.4	2.26	2.1	1.87	1.68	2.28	2.16	2.57	2.36	2.37	2.26
11	Phosphates as PO <sub>4</sub>	µm ol/L	1.58	1.34	1.93	1.84	1.61	1.52	2.39	2.27	2.6	2.47	2.41	2.18
12	Total Nitrogen	µm ol/L	5.62	5.19	5.36	4.97	5.03	4.36	5.93	5.44	6.55	6.05	5.89	5.45
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	31440	31816	32296	32598	32576	32968	32686	32730	33689	34370	34108	34406
15	COD	mg/L	21.3	Not Detected	25	Not Detected	27	Not Detected	25	Not Detected	29	20	25	19
<b>A Phytoplankton</b>														
16.1	Chlorophyll	mg/m <sup>3</sup>	3.04	2.78	2.83	2.46	2.99	2.72	3.1	3.04	3.26	3.15	2.79	2.42
16.2	Phaeophytin	mg/m <sup>3</sup>	1.11	2.08	1.32	2.4	1.12	1.69	1.87	1.74	2.42	1.78	0.26	0.03
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	158	104	144	98	184	102	146	98	178	130	156	128
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Rhizosolenia sp. Nitzschia sp. Thalassionema sp.	Navicula sp. Fragillaria sp. Biddulphia sp. --	Pleurosigma sp. Navicula sp. Rhizosolenia sp. Odontella sp.	Thalassiosira sp. Ceratiurn sp. Nitzschia sp. --	Coscinodiscus sp. Rhizosolenia sp. Pleurosigma sp. Skeletonema sp.	Nitzschia sp. Navicula sp. Cyclotella sp. --	Rhizosolenia sp. Ceratiurn sp. Odontella sp. Ankistrodesmus sp. Pleurosigma sp.	Synedra sp. Navicula sp. Nitzschia sp. Pleurosigma sp. --	Chaetognathes sp. Pleurosigma sp. Ceratiurn sp. Coscinodiscus sp.	Navicula sp. Nitzschia sp. Odontella sp. --	Rhizosolenia sp. Odontella sp. Chaetognathes sp.	Pleurosigma sp. Nitzschia sp. Ceratiurn sp.

*Continue...*

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS    SEA WATER SOUTH SIDE					
			OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
			South Side	South Side	South Side	South Side	South Side	South Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	20	24	22	31	36	29
17.2	Name of Group Number and name of group species of each group	--	Gastropods Isopods Ostracodes Polychaetes	Crustaceans Copepods Bivalves	Polychaetes Copepods Decapods --	Bivalves Copepods Mysids Crustaceans	Mysids Polychaetes Gastropods Isopods	Copepods Bivalves Polychaetes --
17.3	Total Biomass	ml/100 m <sup>3</sup>	2.95	2.85	2.35	3.15	3.4	3.05
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2130	2240	2290	2150	2240	2310
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

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



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**Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: October 2020 to March 2021:-**

SR. NO	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			OCT-20		NOV-20		DEC-20		JAN-21		FEB-21		MARCH-21	
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.99	7.95	8.15	8.1	8.27	8.25	8.22	8.19	8.27	8.2	8.29	8.23
2	Temperature	°C	29.4	29.9	29.2	29	29.8	29.6	29.6	29.4	30.3	30.1	30.4	30.2
3	Total Suspended Solids	mg/L	310	296	359	270	324	258	309	286	334	356	312	283
4	BOD (3 Days @ 27 °C)	mg/L	2.16	Not Detected	2.9	Not Detected	3.2	Not Detected	3.3	Not Detected	3.5	Not Detected	3.3	Not Detected
5	Dissolved Oxygen	mg/L	5.9	5.7	5.8	5.6	5.9	5.7	5.8	5.6	5.7	5.5	5.9	5.8
6	Salinity	ppt	29.7	30.1	30.5	30.8	30.8	31.2	30.6	31.2	31.5	32.2	31.9	32.4
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µmol/L	2.56	2.37	2.45	2.31	2.3	2.19	2.73	2.39	3.29	3.17	2.86	2.71
9	Nitrite as NO <sub>2</sub>	µmol/L	0.48	0.39	0.68	0.5	0.76	0.57	0.86	0.72	0.57	0.43	0.61	0.53
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	1.76	1.53	2.34	2.1	1.9	1.81	2.35	2.21	2.46	2.39	2.39	2.28
11	Phosphates as PO <sub>4</sub>	µmol/L	1.12	1	1.87	1.7	1.59	1.37	2.24	2.1	2.68	2.41	2.46	2.21
12	Total Nitrogen	µmol/L	4.8	4.29	5.47	4.91	4.96	4.57	5.94	5.32	6.32	5.99	5.86	5.52
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	31640	31906	32406	32694	32670	33058	32493	33114	33465	33698	33768	34296
15	COD	mg/L	20.3	Not Detected	22	Not Detected	25	Not Detected	24	Not Detected	32	21	28	19.2
<b>A Phytoplankton</b>														
16.1	Chlorophyll	mg/m <sup>3</sup>	2.93	2.83	2.88	2.72	3.04	2.62	3.09	2.93	3.25	3.04	2.75	2.4
16.2	Phaeophytin	mg/m <sup>3</sup>	1.17	1.58	1.23	1.69	1.07	2.24	1.69	2	1.53	1.89	0.54	0.51
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	156	98	152	102	178	98	140	90	186	110	172	106
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Thalassionema sp. Rhizosolenia sp. Navicula sp.	Nitzschia sp. Synechodra sp. Fragillaria sp. --	Pleurosigma sp. Skeletonema sp. Thalassiosira sp. Navicula sp.	Nitzschia sp. Fragillaria sp. Rhizosolenia sp. --	Rhizosolenia sp. Ceratiurn sp. Pleurosigma sp. coscinodiscus sp.	Nitzschia sp. Chaetoceros sp. Fragillaria sp. --	Rhizosolenia sp. Coscinodiscus sp. Skeletonema sp. Pleurosigma sp. Pleurosigma sp. Nitzschia sp.	Navicula sp. Biddulphia sp. Nitzschia sp. Synedra sp. --	Nitzschia sp. Coscinodiscus sp. Ceratiurn sp. Rhizosolenia sp.	Navicula sp. Odontella sp. Pleurosigma sp. --	Trichodesmium sp. Chaetoceros sp. Coscinodiscus sp. Odontella sp. Ceratiurn sp.	Nitzschia sp. Rhizosolenia sp. Pleurosigma sp. Navicula sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE					
			OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
			North Side	North Side	North Side	North Side	North Side	North Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	19	23	18	33	36	31
17.2	Name of Group Number and name of group species of each group	--	Polychaetes Mysids Bivalves Decapods	Bivalves Isopods Copepods Crustaceans	Copepods Bivalves Crustaveans --	Copepods Crustaceans Polychaetes --	Copepods Mysis Polychaetes Isopods	Polychaetes Gastropods Bivalves --
17.3	Total Biomass	ml/100 m <sup>3</sup>	2.1	2.7	2.4	3.35	3.55	3.25
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2310	2290	2330	2280	2150	2240
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

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



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

**Table - Sea Sediment Quality Analysis (South Side) Results for the period: October 2020 to March 2021**

Sr. No	PARAMETERS	UNIT	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
1	Organic Matter	%	0.4	0.43	0.52	0.47	0.61	0.52
2	Phosphorus as P	µg/g	536	630	694	638	714	618
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	4.6	4.4	4.7	4.84	5.26	4.36
5.2	Total Chromium as Cr <sup>+3</sup>	µg/g	147	139	164	159	139	119
5.3	Manganese as Mn	µg/g	704	610	570	683	587	512
5.4	Iron as Fe	%	4.53	4.28	4.36	4.46	4.53	4.36
5.5	Nickel as Ni	µg/g	58	47	61	57	68	59
5.6	Copper as Cu	µg/g	23	32	39	48	35.4	27.6
5.7	Zinc as Zn	µg/g	164	158	141	163	129	148
5.8	Lead as Pb	µg/g	2.23	1.94	1.58	2.19	1.56	2.29
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Polychaetes Crustaceans Bivalves	Polychaete worms Oligochaetes Amphipods	Polychaetes Gastropods Crustaceans	Polychaetes Molluscs Decapods	Polychaetes Bivalves Crustaceans	Polychaetes Gastropods --
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Nematodes	Nematodes	Foraminiferans Nematodes
6.3	Population	no/m <sup>2</sup>	351	292	382	529	559	412

BDL\* - Below Detection Limit

**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: Oct-20 to March-2021:-**

Sr. No..	PARAMETERS	UNIT	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
1	Organic Matter	%	0.41	0.46	0.53	0.47	0.59	0.48
2	Phosphorus as P	mg/kg	509	634	674	628	693	635
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	4.53	4.36	4.69	4.7	5.18	4.45
5.2	Total Chromium as Cr <sup>+3</sup>	mg/kg	161	132	153	168	147	138
5.3	Manganese as Mn	mg/kg	720	758	596	613	556	507
5.4	Iron as Fe	%	4.76	4.28	4.48	4.69	4.43	4.26
5.5	Nickel as Ni	mg/kg	53	39	57	53	61.5	49.2
5.6	Copper as Cu	mg/kg	27	36	45	49	38.2	31.5
5.7	Zinc as Zn	mg/kg	143	193	156	173	113	127
5.8	Lead as Pb	mg/kg	2.16	1.84	1.37	2.28	1.93	2.15
5.9	Mercury as Hg	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Gastropods Crustaceans	Polychaete worms Herpacticoids Amphipods	Polychaetes Gastropods Bivalves	Polychaetes Annelids Crustaceans	Polychaetes Crustaceans --	Polychaetes Gastropods --
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Nematodes	Nematodes	Foraminiferans
6.3	Population	no/m <sup>2</sup>	380	263	292	499	528	440

BDL\* - Below Detection Limit

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

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**3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -****Table -Dump Pond Water Quality Analysis Results for the period: October-20 to March-21**

Date			Nov-20	Nov-20	Feb-21	Feb-21
			28/11/2020	28/11/2020	18/02/2021	18/02/2021
Sr. No.	Test Parameters	Unit	Dump Pond Discharge -J3	Dump Pond Discharge – SS7A	Dump Pond Discharge -J3	Dump Pond Discharge – SS7A
1.	pH	--	8.02	8.28	8.73	8.75
2.	Total Dissolved Solids	mg/L	1184	1870	1589	2356
3.	Total Suspended Solids	mg/L	19	25	21	31
4.	Turbidity	NTU	2.43	2.78	2.34	2.96
5.	BOD (3 Days @ 27 °C)	mg/L	15	15	11.4	13.4
6.	Dissolved Oxygen	mg/L	6	6.1	6.1	6
7.	COD	mg/L	72	68	67	71
8.	Salinity	ppt	0.21	0.216	0.25	0.23
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO <sub>3</sub>	mg/L	598	570	612	593
11.	Fluoride as F	mg/L	0.39	0.32	0.48	0.42
12.	Chloride as Cl	mg/L	118	120	139	129
13.	Zinc as Zn	mg/L	0.21	0.19	0.23	0.28
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected

BDL\*: Below Detection Limit

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

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

**TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: OCTOBER-20 TO MARCH-21**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1.	pH	--	7.75	7.84	7.25	7.68	6.83	7.11
2.	Total Suspended Solids	mg/L	6	8	18	15	13	14
3.	BOD (3 Days @ 27 °C)	mg/L	15	10	16	13	17	7.8
4.	Residual Free Chlorine	mg/L	0.6	0.8	0.6	0.8	0.6	0.8
5.	Oil & Grease	mg/L	4.3	2.8	3.5	4.1	3.7	3.1

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

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

**Tables - 1 - Behind QHSE Office Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	02/10/2020	02/11/2020	01/12/2020	01/01/2021	01/02/2021	02/03/2021
6:00-7:00	45.9	60.5	51.2	59.8	59.8	54.5
7:00-8:00	50.0	44.4	57.6	48.6	56.3	48.9
8:00-9:00	47.6	53.2	60.2	50.0	54.4	50.4
9:00-10:00	42.6	50.8	55.4	51.4	55.7	61.1
10:00-11:00	59.3	49.0	59.7	58.6	52.2	48.6
11:00-12:00	47.8	49.9	48.6	47.5	51.6	53.8
12:00-13:00	55.8	59.7	50.4	50.2	56.8	57.6
13:00-14:00	50.1	42.5	48.5	48.8	53.7	58.7
14:00-15:00	52.4	56.3	68.1	52.4	50.7	48.5
15:00-16:00	49.2	50.7	49.4	49.6	48.7	50.9
16:00-17:00	50.1	53.9	57.2	54.1	52.3	51.7
17:00-18:00	51.1	59.3	53.1	57.5	49.7	53.7
18:00-19:00	50.0	49.7	70.1	51.8	46.5	59.2
19:00-20:00	45.8	51.7	44.3	47.2	45.8	47.9
20:00-21:00	44.8	59.9	54.0	49.2	52.6	55.4
21:00-22:00	43.8	49.8	48.7	53.2	54.8	51.0

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	02/10/2020 & 03/10/2020	02/11/2020 & 03/11/2020	01/12/2020 & 02/12/2020	01/01/2021 & 02/01/2021	01/02/2021 & 02/02/2021	02/03/2021 & 03/03/2021
22:00-23:00	48.5	58.7	58.7	56.8	52.7	56.4
23:00-00:00	56.4	41.8	61.5	52.6	50.6	57.3
00:00-01:00	60.1	54.4	55.6	46.5	53.9	55.3
01:00-02:00	49.5	45.6	42.5	50.9	58.7	43.5
02:00-03:00	47.8	52.7	59.8	51.7	56.5	57.8
03:00-04:00	54.4	50.2	50.9	54.7	50.9	56.1
04:00-05:00	51.8	51.5	51.8	55.9	41.9	59.8
05:00-06:00	58.1	50.6	53.4	56.4	42.8	55.8

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

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

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



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**Tables -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 2020 to March 2021**

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	03/10/2020	03/11/2020	02/12/2020	02/01/2021	02/02/2021	03/03/2021
6:00-7:00	46.8	50.9	61.6	62.6	60.3	51.4
7:00-8:00	54.2	58.3	56.8	61.8	58.2	58.8
8:00-9:00	55.1	47.5	54.3	58.9	56.5	60.5
9:00-10:00	50.1	55.8	59.4	59.5	54.3	62.5
10:00-11:00	45.9	50.6	60.5	57.4	50.8	50.8
11:00-12:00	46.8	52.6	48.4	56.8	53.9	59.7
12:00-13:00	50.0	51.8	55.9	55.4	58.5	56.2
13:00-14:00	47.9	59.4	47.4	52.6	57.2	53.4
14:00-15:00	58.2	60.2	50.6	50.1	55.9	57.2
15:00-16:00	52.4	45.8	57.4	51.3	52.4	62.2
16:00-17:00	44.9	54.7	44.8	58.7	60.5	56.8
17:00-18:00	49.2	56.8	52.3	63.8	57.9	49.2
18:00-19:00	56.9	46.6	49.7	62.7	56.9	52.3
19:00-20:00	53.1	54.4	62.3	61.3	53.8	56.9
20:00-21:00	54.6	56.5	56.2	60.8	50.3	50.6
21:00-22:00	57.8	42.8	47.3	56.4	54.1	59.4

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	03/10/2020 & 04/10/2020	03/11/2020 & 04/11/2020	02/12/2020 & 03/12/2020	02/01/2021 & 03/01/2021	02/02/2021 & 03/02/2021	03/03/2021 & 04/03/2021
22:00-23:00	57.4	57.5	60.4	62.5	51.9	58.4
23:00-00:00	62.1	48.6	58.3	61.9	53.6	52.8
00:00-01:00	42.9	47.2	42.4	60.5	58.0	48.5
01:00-02:00	58.1	51.3	55.3	58.5	52.8	53.5
02:00-03:00	54.4	58.6	58.9	57.5	50.5	52.6
03:00-04:00	48.4	45.3	53.8	56.0	51.8	58.5
04:00-05:00	56.8	58.2	45.7	52.7	48.3	54.4
05:00-06:00	51.4	45.4	50.2	49.7	46.7	57.9

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

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

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



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**Tables - 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 2020 to March 2021**

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	05/10/2020	04/11/2020	03/12/2020	04/01/2021	03/02/2021	04/03/2021
6:00-7:00	51.1	47.4	55.8	60.4	61.5	56.5
7:00-8:00	47.2	51.2	61.4	57.6	59.2	60.2
8:00-9:00	51.2	59.6	47.6	55.6	58.4	57.8
9:00-10:00	49.8	49.6	58.4	58.8	57.3	55.7
10:00-11:00	45.9	55.4	60.1	56.2	55.3	51.2
11:00-12:00	57.8	51.9	44.6	54.4	52.9	60.6
12:00-13:00	52.8	53.8	57.3	53.4	61.2	58.6
13:00-14:00	44.9	52.4	58.0	57.3	60.4	52.6
14:00-15:00	55.8	47.6	68.0	60.9	58.7	64.8
15:00-16:00	50.1	49.4	47.5	61.7	54.9	68.7
16:00-17:00	51.0	56.9	59.6	64.4	52.5	56.7
17:00-18:00	53.9	52.1	50.3	60.3	58.0	57.1
18:00-19:00	42.9	59.8	51.4	58.1	50.1	58.3
19:00-20:00	56.3	56.4	46.5	55.8	51.9	59.6
20:00-21:00	55.0	52.7	42.4	53.8	57.8	63.4
21:00-22:00	52.1	58.9	54.1	54.9	59.4	67.1

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	05/10/2020 & 06/10/2020	04/11/2020 & 05/11/2020	03/12/2020 & 04/12/2020	04/01/2021 & 05/01/2021	03/02/2021 & 04/02/2021	04/03/2021 & 05/03/2021
22:00-23:00	51.4	45.8	57.6	51.6	56.7	64.3
23:00-00:00	55.8	59.4	56.5	53.6	55.6	62.5
00:00-01:00	44.9	50.8	59.4	61.8	60.8	53.2
01:00-02:00	49.4	51.8	54.3	57.2	53.7	59.4
02:00-03:00	58.2	53.4	50.8	55.7	56.4	54.7
03:00-04:00	60.1	49.3	52.4	56.9	55.7	55.4
04:00-05:00	57.5	53.9	60.8	50.5	49.4	54.9
05:00-06:00	47.8	49.8	40.8	58.6	59.8	48.6

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

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

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



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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 2020 to March 2021**

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	06/10/2020	05/11/2020	04/12/2020	05/01/2021	04/02/2021	05/03/2021
6:00-7:00	57.1	42.9	52.1	57.1	62.1	66.1
7:00-8:00	45.8	55.2	47.7	60.5	57.5	58.9
8:00-9:00	50.8	49.3	61.1	58.3	59.5	56.3
9:00-10:00	44.9	59.1	59.2	57.7	60.2	54.7
10:00-11:00	59.1	53.4	58.7	52.8	58.3	53.1
11:00-12:00	57.1	60.1	49.6	53.0	56.1	52.7
12:00-13:00	46.8	52.9	50.1	58.4	53.5	54.4
13:00-14:00	50.1	49.1	53.4	55.9	66.3	60.8
14:00-15:00	51.2	56.1	47.2	62.4	59.1	65.1
15:00-16:00	58.1	47.9	57.1	60.6	61.1	63.9
16:00-17:00	59.9	57.2	42.9	57.2	57.4	54.1
17:00-18:00	42.8	46.8	48.9	59.1	50.5	58.1
18:00-19:00	50.1	54.9	51.9	65.9	67.3	57.5
19:00-20:00	56.3	57.1	59.9	62.8	50.9	59.8
20:00-21:00	55.0	46.9	49.8	56.1	54.2	57.3
21:00-22:00	59.8	56.7	44.5	52.7	56.2	52.5

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	06/10/2020 & 07/10/2020	05/11/2020 & 06/11/2020	04/12/2020 & 05/12/2020	05/01/2021 & 06/01/2021	04/02/2021 & 05/02/2021	05/03/2021 & 06/03/2021
22:00-23:00	61.1	45.7	48.5	64.4	54.3	62.3
23:00-00:00	57.5	55.3	51.6	62.7	60.5	61.6
00:00-01:00	48.5	42.1	58.8	60.8	58.5	59.6
01:00-02:00	56.4	53.7	47.3	58.7	55.4	56.2
02:00-03:00	65.1	46.2	56.2	61.4	57.8	60.3
03:00-04:00	44.8	50.9	49.3	57.9	60.9	62.6
04:00-05:00	53.4	45.9	54.7	56.5	61.5	54.3
05:00-06:00	50.0	50.4	42.6	52.3	46.5	50.7

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

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

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



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**Tables - 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 2020 to March 2021**

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	07/10/2020	06/11/2020	05/12/2020	06/01/2021	05/02/2021	06/03/2021
6:00-7:00	60.2	46.7	51.1	64.8	64.1	64.5
7:00-8:00	48.9	54.6	58.1	58.2	52.8	58.2
8:00-9:00	50.3	44.6	46.9	54.3	63.2	60.3
9:00-10:00	55.4	58.1	58.5	59.2	56.4	58.4
10:00-11:00	59.2	68.1	48.8	60.1	62.8	53.2
11:00-12:00	49.4	50.1	51.0	58.5	60.8	57.4
12:00-13:00	51.0	48.9	47.9	55.3	60.9	59.1
13:00-14:00	57.3	55.6	65.1	53.7	57.1	53.5
14:00-15:00	65.1	43.8	61.2	50.3	61.3	52.8
15:00-16:00	44.9	54.2	47.8	57.4	53.2	60.1
16:00-17:00	48.8	50.0	55.1	54.6	55.8	56.4
17:00-18:00	53.9	52.3	50.0	52.3	66.7	64.4
18:00-19:00	58.1	45.9	44.9	48.9	68.1	63.2
19:00-20:00	64.2	50.4	59.1	47.6	55.2	55.8
20:00-21:00	54.9	51.4	49.9	51.9	60.1	62.6
21:00-22:00	64.2	45.4	42.8	54.8	53.1	63.1

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	07/10/2020 & 08/10/2020	06/11/2020 & 07/11/2020	05/12/2020 & 06/12/2020	06/01/2021 & 07/01/2021	05/02/2021 & 06/02/2021	06/03/2021 & 07/03/2021
22:00-23:00	58.1	58.4	41.8	58.0	60.2	51.3
23:00-00:00	47.4	42.7	54.0	56.7	57.6	59.7
00:00-01:00	56.5	62.7	44.3	60.2	56.3	54.5
01:00-02:00	44.8	57.9	46.5	62.4	52.4	52.7
02:00-03:00	54.9	44.2	57.1	61.5	54.2	55.2
03:00-04:00	48.9	54.7	52.8	54.5	60.6	58.7
04:00-05:00	51.8	44.8	51.7	46.3	66.5	52.9
05:00-06:00	59.1	52.8	50.3	48.3	58.6	54.2

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

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

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



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**Tables -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 2020 to March 2021**

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	08/10/2020	07/11/2020	07/12/2020	07/01/2021	06/02/2021	08/03/2021
6:00-7:00	55.1	58.5	59.2	60.2	58.8	49.5
7:00-8:00	61.2	48.7	54.1	61.8	57.6	53.8
8:00-9:00	49.9	51.0	69.1	57.6	55.7	47.6
9:00-10:00	58.4	47.5	46.7	58.4	54.4	53.2
10:00-11:00	60.1	65.1	52.5	62.5	62.8	50.8
11:00-12:00	44.9	61.5	44.6	60.6	53.7	58.8
12:00-13:00	57.1	47.6	58.7	57.5	52.6	55.4
13:00-14:00	58.0	55.8	62.1	58.3	59.9	46.8
14:00-15:00	54.2	50.9	50.5	56.5	56.5	60.5
15:00-16:00	59.1	44.3	48.9	55.9	54.3	54.8
16:00-17:00	50.3	59.8	55.8	59.4	50.8	57.1
17:00-18:00	51.4	49.6	43.7	56.4	52.3	53.5
18:00-19:00	46.9	46.7	54.2	53.2	60.5	52.4
19:00-20:00	42.8	59.6	50.9	50.8	59.5	48.9
20:00-21:00	42.8	49.5	52.9	51.3	58.3	49.4
21:00-22:00	54.1	42.7	45.9	54.1	54.2	50.3

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	08/10/2020 & 09/10/2020	07/11/2020 & 08/11/2020	07/12/2020 & 08/12/2020	07/01/2021 & 08/01/2021	06/02/2021 & 07/02/2021	08/03/2021 & 09/03/2021
22:00-23:00	50.1	47.0	61.7	53.8	57.5	58.6
23:00-00:00	49.8	50.3	57.5	55.6	59.2	56.9
00:00-01:00	57.7	42.3	48.6	59.5	56.8	52.3
01:00-02:00	45.8	52.6	47.2	56.3	54.7	53.7
02:00-03:00	48.9	64.9	51.9	58.9	53.5	50.9
03:00-04:00	59.1	57.1	60.6	60.1	51.6	57.5
04:00-05:00	60.1	64.8	43.4	52.9	50.4	42.6
05:00-06:00	46.8	57.3	51.5	49.9	54.9	46.1

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

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

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



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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 2020 to March 2021**

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	09/10/2020	09/11/2020	08/12/2020	08/01/2021	08/02/2021	09/03/2021
6:00-7:00	46.5	59.5	46.5	52.1	53.2	64.4
7:00-8:00	54.8	58.1	54.8	60.3	52.5	68.1
8:00-9:00	58.1	49.8	58.1	61.1	59.8	50.2
9:00-10:00	42.9	50.1	42.8	59.9	58.7	59.6
10:00-11:00	55.2	53.4	55.9	58.8	56.4	60.3
11:00-12:00	49.3	47.2	49.3	56.2	55.8	56.4
12:00-13:00	59.1	57.8	59.7	53.8	54.7	53.6
13:00-14:00	53.4	45.9	60.6	52.6	51.3	59.5
14:00-15:00	60.1	48.4	52.6	54.4	58.5	63.2
15:00-16:00	52.8	51.2	49.1	50.9	60.8	60.7
16:00-17:00	49.1	58.3	66.7	49.8	57.5	57.8
17:00-18:00	56.1	49.9	47.9	51.2	53.9	56.1
18:00-19:00	47.9	47.3	57.9	58.6	54.1	55.6
19:00-20:00	57.1	56.7	46.9	52.4	52.7	56.2
20:00-21:00	46.9	52.6	50.4	54.8	51.9	61.9
21:00-22:00	50.4	50.5	57.1	58.9	49.7	64.1

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	09/10/2020 & 10/10/2020	09/11/2020 & 10/11/2020	08/12/2020 & 09/12/2020	08/01/2021 & 09/01/2021	08/02/2021 & 09/02/2021	09/03/2021 & 10/03/2021
22:00-23:00	45.8	56.8	62.9	57.4	58.9	54.8
23:00-00:00	54.8	55.9	48.9	56.6	56.2	53.9
00:00-01:00	51.2	49.6	58.2	55.5	55.9	52.1
01:00-02:00	50.1	45.1	54.4	54.9	52.3	49.9
02:00-03:00	46.9	50.7	59.5	53.7	50.7	50.6
03:00-04:00	49.2	54.9	48.3	48.9	48.7	60.8
04:00-05:00	44.8	50.0	60.5	54.0	46.8	62.4
05:00-06:00	56.9	59.1	41.6	59.8	50.2	61.5

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

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

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



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**Tables - 8 –Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	10/10/2020	10/11/2020	09/12/2020	09/01/2021	09/02/2021	10/03/2021
6:00-7:00	59.2	58.4	56.5	51.5	60.3	62.5
7:00-8:00	54.1	60.9	50.3	57.4	62.4	61.3
8:00-9:00	69.1	51.9	58.5	47.2	61.9	58.7
9:00-10:00	46.7	57.3	47.6	53.6	56.2	57.5
10:00-11:00	52.8	58.0	51.8	51.8	59.7	61.1
11:00-12:00	44.9	59.7	59.8	50.6	62.3	60.4
12:00-13:00	62.1	47.8	49.6	48.5	58.6	58.6
13:00-14:00	50.1	59.4	55.4	54.3	55.9	57.6
14:00-15:00	48.9	50.7	44.8	60.9	54.8	55.7
15:00-16:00	55.6	51.4	53.2	62.6	59.1	54.4
16:00-17:00	43.8	46.8	52.4	58.2	62.1	58.9
17:00-18:00	54.2	53.8	44.4	55.7	60.4	59.8
18:00-19:00	50.0	54.8	49.4	52.7	53.8	60.2
19:00-20:00	52.8	46.9	56.7	50.7	55.4	62.8
20:00-21:00	45.9	44.8	52.7	49.9	56.1	62.3
21:00-22:00	51.5	54.1	59.6	42.8	57.8	59.4

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	10/10/2020 & 11/10/2020	10/11/2020 & 11/11/2020	09/12/2020 & 10/12/2020	09/01/2021 & 10/01/2021	09/02/2021 & 10/02/2021	10/03/2021 & 11/03/2021
22:00-23:00	50.8	48.3	58.4	61.1	61.3	56.8
23:00-00:00	42.8	55.7	51.2	60.6	58.2	58.3
00:00-01:00	52.0	58.9	56.8	57.3	57.9	56.7
01:00-02:00	43.2	56.4	58.6	53.4	56.9	55.6
02:00-03:00	53.4	42.6	46.9	55.0	55.5	59.3
03:00-04:00	44.9	51.6	42.7	54.4	53.3	56.6
04:00-05:00	59.1	44.9	54.6	50.8	58.3	58.2
05:00-06:00	46.8	49.4	53.6	55.4	53.2	53.8

<sup>#</sup>dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.  
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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



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**Tables -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	12/10/2020	11/11/2020	10/12/2020	11/01/2021	10/02/2021	11/03/2021
6:00-7:00	51.5	59.3	67.1	66.5	64.3	54.1
7:00-8:00	58.1	61.9	49.7	68.7	60.7	58.5
8:00-9:00	46.9	48.8	58.4	69.1	61.2	49.6
9:00-10:00	58.5	55.4	50.1	60.8	58.9	52.8
10:00-11:00	48.8	47.4	58.3	58.7	57.2	54.3
11:00-12:00	51.0	50.3	47.4	57.2	56.3	52.7
12:00-13:00	47.9	57.5	55.6	61.9	58.4	55.1
13:00-14:00	65.1	44.6	50.6	62.1	60.2	59.2
14:00-15:00	61.2	52.3	44.5	56.7	53.5	50.9
15:00-16:00	47.8	42.9	51.2	58.5	52.1	49.8
16:00-17:00	55.1	62.3	59.9	55.6	62.6	60.8
17:00-18:00	55.0	56.2	60.2	53.7	54.6	62.1
18:00-19:00	44.9	47.9	43.8	54.2	60.9	58.1
19:00-20:00	59.1	62.8	54.3	51.9	53.4	56.5
20:00-21:00	49.9	56.4	56.1	47.5	57.9	63.1
21:00-22:00	42.8	53.9	52.3	45.9	62.7	51.9

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	12/10/2020 & 13/10/2020	11/11/2020 & 12/11/2020	10/12/2020 & 11/12/2020	11/01/2021 & 12/01/2021	10/02/2021 & 11/02/2021	11/03/2021 & 12/03/2021
22:00-23:00	69.1	57.4	61.8	58.4	62.8	51.8
23:00-00:00	42.1	58.5	55.9	47.4	55.3	47.6
00:00-01:00	54.4	57.7	57.9	58.2	54.1	59.5
01:00-02:00	43.9	42.5	52.7	42.4	55.8	58.0
02:00-03:00	46.9	60.1	61.1	68.1	51.0	55.9
03:00-04:00	45.8	54.8	54.9	57.1	54.8	49.5
04:00-05:00	42.8	59.8	53.9	48.0	52.0	52.5
05:00-06:00	51.1	54.1	42.9	52.8	55.2	53.1

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

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

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



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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 2020 to March 2021**

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	13/10/2020	12/11/2020	11/12/2020	12/01/2021	11/02/2021	12/03/2021
6:00-7:00	61.1	59.2	49.5	62.3	63.9	50.7
7:00-8:00	58.2	48.9	58.8	59.8	62.5	57.3
8:00-9:00	54.3	50.4	60.1	58.1	60.6	60.1
9:00-10:00	59.2	53.7	44.9	57.8	57.3	58.4
10:00-11:00	60.1	68.1	53.4	55.2	56.8	59.1
11:00-12:00	48.8	49.4	50.8	60.4	52.4	57.2
12:00-13:00	55.3	57.2	47.1	59.1	50.9	55.3
13:00-14:00	47.4	53.6	54.4	61.3	49.8	50.6
14:00-15:00	50.3	59.1	59.1	60.1	53.1	52.6
15:00-16:00	57.4	70.1	42.9	56.8	58.1	53.4
16:00-17:00	44.9	48.6	56.3	54.9	56.7	57.4
17:00-18:00	42.9	54.4	50.2	52.8	54.9	50.1
18:00-19:00	62.3	52.9	50.0	57.1	57.1	55.2
19:00-20:00	56.2	44.9	52.8	54.6	56.6	49.2
20:00-21:00	47.3	54.0	59.4	53.9	60.1	56.3
21:00-22:00	58.0	46.2	49.8	48.6	57.0	50.4

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	13/10/2020 & 14/10/2020	12/11/2020 & 13/11/2020	11/12/2020 & 12/12/2020	12/01/2021 & 13/01/2021	11/02/2021 & 12/02/2021	12/03/2021 & 13/03/2021
22:00-23:00	57.1	42.8	56.4	54.3	52.5	49.1
23:00-00:00	60.0	48.5	52.3	58.3	50.1	50.8
00:00-01:00	44.9	61.1	59.7	54.1	48.4	55.7
01:00-02:00	45.9	58.1	48.8	55.3	54.5	48.2
02:00-03:00	57.8	53.1	47.5	42.6	52.1	51.1
03:00-04:00	52.4	50.5	53.1	53.1	56.0	54.6
04:00-05:00	56.9	53.8	41.7	45.6	60.7	49.6
05:00-06:00	54.6	50.1	52.6	50.3	62.1	50.2

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

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

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



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**Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	14/10/2020	13/11/2020	12/12/2020	13/01/2021	12/02/2021	13/03/2021
6:00-7:00	46.8	50.2	45.8	57.8	56.9	50.7
7:00-8:00	54.2	45.5	58.1	58.4	58.7	56.5
8:00-9:00	55.1	46.4	42.4	56.5	63.9	61.3
9:00-10:00	50.1	50.0	47.6	51.4	62.5	58.2
10:00-11:00	45.9	47.2	52.8	55.8	54.4	57.3
11:00-12:00	46.8	57.9	46.6	53.6	53.2	66.5
12:00-13:00	50.0	58.2	47.5	52.8	52.8	63.5
13:00-14:00	47.9	52.4	51.8	50.9	51.9	65.4
14:00-15:00	57.8	44.5	44.7	58.8	50.7	64.3
15:00-16:00	58.2	49.2	47.2	62.1	54.7	60.3
16:00-17:00	52.4	46.0	53.9	64.4	53.9	58.5
17:00-18:00	44.9	56.8	52.6	60.3	50.4	62.5
18:00-19:00	49.2	53.2	46.5	58.7	56.8	60.7
19:00-20:00	36.9	46.7	42.8	56.6	60.3	57.5
20:00-21:00	53.1	56.9	44.6	54.4	54.1	52.6
21:00-22:00	54.6	53.1	46.3	50.3	59.7	56.3

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	14/10/2020 & 15/10/2020	13/11/2020 & 14/11/2020	12/12/2020 & 13/12/2020	13/01/2021 & 14/01/2021	12/02/2021 & 13/02/2021	13/03/2021 & 14/03/2021
22:00-23:00	45.9	47.5	49.5	45.9	59.3	57.1
23:00-00:00	50.0	41.9	54.6	50.2	57.2	50.2
00:00-01:00	47.6	46.9	55.7	47.6	53.0	47.9
01:00-02:00	51.1	57.2	46.4	51.9	48.2	48.3
02:00-03:00	45.4	54.3	56.9	45.4	53.6	59.6
03:00-04:00	42.8	52.3	55.4	42.3	61.8	57.2
04:00-05:00	53.2	55.7	42.2	53.5	62.8	46.5
05:00-06:00	51.1	50.6	49.6	51.7	53.4	46.2

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

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

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



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**Tables - 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 2020 to March 2021**

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	15/10/2020	14/11/2020	14/12/2020	14/01/2021	13/02/2021	15/03/2021
6:00-7:00	60.0	51.8	45.4	55.6	66.5	63.9
7:00-8:00	50.1	54.6	57.6	52.6	68.2	62.4
8:00-9:00	54.8	59.5	51.7	51.3	64.4	60.5
9:00-10:00	51.2	48.4	59.9	47.5	63.2	58.7
10:00-11:00	44.9	56.1	47.4	50.8	61.7	53.8
11:00-12:00	59.1	54.2	51.6	52.4	58.4	52.3
12:00-13:00	46.2	51.9	50.8	51.8	56.7	56.8
13:00-14:00	56.1	47.3	53.6	54.3	55.4	59.5
14:00-15:00	54.2	57.2	52.1	57.4	59.8	61.4
15:00-16:00	51.1	48.5	48.9	56.8	57.9	58.3
16:00-17:00	47.9	49.7	48.4	55.7	56.2	54.7
17:00-18:00	48.9	56.5	59.7	53.8	54.6	53.2
18:00-19:00	45.9	57.4	44.5	54.2	53.7	50.6
19:00-20:00	36.4	44.8	45.5	52.1	51.3	54.3
20:00-21:00	57.8	56.4	59.8	50.4	58.9	50.1
21:00-22:00	48.9	57.6	69.1	48.6	50.8	49.5

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	15/10/2020 & 16/10/2020	14/11/2020 & 15/11/2020	14/12/2020 & 15/12/2020	14/01/2021 & 15/01/2021	13/02/2021 & 14/02/2021	15/03/2021 & 16/03/2021
22:00-23:00	53.2	51.5	56.6	53.2	61.9	62.2
23:00-00:00	46.4	51.4	52.0	46.4	62.6	50.0
00:00-01:00	42.8	42.7	54.5	42.5	43.8	58.4
01:00-02:00	49.4	55.2	43.2	49.6	54.4	60.6
02:00-03:00	55.8	50.4	59.6	54.8	59.0	48.9
03:00-04:00	50.0	54.1	59.3	48.7	57.0	58.5
04:00-05:00	44.9	50.9	57.4	50.7	50.0	45.5
05:00-06:00	56.1	54.8	47.0	56.1	47.6	54.0

<sup>#</sup>dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.  
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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



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**Tables - 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 2020 to March 2021**

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	16/10/2020	16/11/2020	15/12/2020	15/01/2021	15/02/2021	16/03/2021
6:00-7:00	57.1	48.7	46.8	69.1	61.8	65.1
7:00-8:00	45.8	59.2	54.8	68.7	59.2	61.9
8:00-9:00	50.8	57.1	55.1	66.5	60.1	56.7
9:00-10:00	44.9	47.9	50.4	64.3	58.3	57.8
10:00-11:00	59.1	46.8	43.7	60.5	56.4	54.9
11:00-12:00	57.1	50.6	46.4	58.6	54.5	59.4
12:00-13:00	47.9	52.6	50.0	55.1	64.8	60.4
13:00-14:00	46.8	58.9	47.9	59.8	60.5	59.1
14:00-15:00	50.1	59.9	58.2	58.5	57.8	53.5
15:00-16:00	51.2	57.5	52.4	57.3	56.3	57.6
16:00-17:00	58.1	47.6	49.8	54.5	58.2	67.1
17:00-18:00	59.9	51.7	46.9	54.1	57.4	59.7
18:00-19:00	42.8	50.9	49.7	51.9	55.8	51.2
19:00-20:00	47.4	47.4	56.9	48.7	52.3	57.2
20:00-21:00	51.2	51.2	52.7	52.3	54.2	61.5
21:00-22:00	50.8	50.8	56.3	55.9	57.6	54.2

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	16/10/2020 & 17/10/2020	16/11/2020 & 17/11/2020	15/12/2020 & 16/12/2020	15/01/2021 & 16/01/2021	15/02/2021 & 16/02/2021	16/03/2021 & 17/03/2021
22:00-23:00	59.3	53.6	54.2	45.2	63.5	64.2
23:00-00:00	47.8	42.9	45.3	47.3	55.0	46.3
00:00-01:00	55.8	49.1	53.7	58.8	57.3	52.2
01:00-02:00	50.1	52.2	48.0	48.6	49.8	63.3
02:00-03:00	52.4	55.5	57.3	53.6	44.9	63.1
03:00-04:00	47.9	54.7	52.1	51.5	48.1	62.6
04:00-05:00	49.2	55.6	49.9	53.9	55.3	57.5
05:00-06:00	50.1	47.8	42.1	43.4	48.3	51.4

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

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

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



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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 2020 to March 2021**

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	17/10/2020	17/11/2020	16/12/2020	16/01/2021	16/02/2021	17/03/2021
6:00-7:00	59.1	44.3	52.2	56.1	55.9	59.6
7:00-8:00	52.2	45.8	44.3	60.8	53.6	52.5
8:00-9:00	56.4	48.9	50.9	57.9	52.6	60.9
9:00-10:00	44.9	50.7	53.4	56.4	58.1	61.8
10:00-11:00	45.8	52.7	51.9	58.9	51.2	57.9
11:00-12:00	48.9	53.4	54.6	54.8	56.5	60.6
12:00-13:00	50.7	58.1	47.3	53.7	60.7	55.1
13:00-14:00	52.1	49.9	43.2	51.6	52.9	49.2
14:00-15:00	53.4	56.3	59.5	48.4	59.4	58.6
15:00-16:00	58.1	55.0	53.7	43.9	58.6	64.6
16:00-17:00	50.1	52.9	50.2	46.5	62.3	69.1
17:00-18:00	50.2	59.6	52.0	50.7	60.8	53.4
18:00-19:00	56.3	51.5	49.2	47.8	58.5	56.2
19:00-20:00	55.0	52.1	44.8	51.2	53.4	50.4
20:00-21:00	52.1	59.8	51.0	54.9	63.8	58.1
21:00-22:00	59.8	51.6	53.2	50.6	62.9	54.8

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	17/10/2020 & 18/10/2020	17/11/2020 & 18/11/2020	16/12/2020 & 17/12/2020	16/01/2021 & 17/01/2021	16/02/2021 & 17/02/2021	17/03/2021 & 18/03/2021
22:00-23:00	58.1	47.1	50.7	57.0	62.5	54.7
23:00-00:00	56.2	54.5	53.5	45.8	58.4	50.1
00:00-01:00	47.5	48.4	59.2	54.7	53.5	47.1
01:00-02:00	44.9	51.9	45.0	44.8	50.5	64.4
02:00-03:00	56.8	44.4	41.9	54.6	60.2	57.7
03:00-04:00	57.8	42.6	56.3	43.8	49.9	65.6
04:00-05:00	55.1	44.7	48.1	48.9	58.7	66.5
05:00-06:00	50.6	42.5	48.2	44.6	53.7	51.6

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

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

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



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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 2020 to March 2021**

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	19/10/2020	18/11/2020	17/12/2020	18/01/2021	17/02/2021	18/03/2021
6:00-7:00	45.8	49.6	56.1	47.6	61.1	61.1
7:00-8:00	58.1	45.9	45.9	48.8	54.3	58.4
8:00-9:00	47.5	57.8	50.6	51.1	59.3	57.4
9:00-10:00	51.2	52.8	43.8	53.4	56.1	60.1
10:00-11:00	55.0	44.9	50.1	56.7	50.3	56.4
11:00-12:00	45.8	55.8	54.2	55.4	53.1	64.1
12:00-13:00	44.9	50.1	51.4	50.1	54.8	62.6
13:00-14:00	50.1	51.0	55.2	59.1	49.8	66.7
14:00-15:00	52.2	53.9	53.1	53.1	57.1	63.4
15:00-16:00	62.1	42.6	43.9	50.2	64.1	56.6
16:00-17:00	69.1	60.8	46.7	52.0	48.9	59.2
17:00-18:00	42.9	46.5	56.2	49.2	61.2	44.9
18:00-19:00	54.1	42.7	47.8	48.5	59.1	56.1
19:00-20:00	45.9	59.7	51.2	51.0	64.2	50.3
20:00-21:00	47.8	46.9	59.6	53.2	53.8	54.4
21:00-22:00	50.3	42.8	44.9	58.2	51.0	51.7

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	19/10/2020 & 20/10/2020	18/11/2020 & 19/11/2020	17/12/2020 & 18/12/2020	18/01/2021 & 19/01/2021	17/02/2021 & 18/02/2021	18/03/2021 & 19/03/2021
22:00-23:00	50.6	59.1	58.1	59.3	54.7	53.3
23:00-00:00	47.9	46.8	43.4	47.4	47.9	55.5
00:00-01:00	47.8	48.0	52.9	55.9	48.5	47.4
01:00-02:00	51.4	52.1	49.7	50.9	58.3	53.6
02:00-03:00	48.1	49.8	45.6	52.4	60.5	58.8
03:00-04:00	55.2	40.8	46.8	47.2	63.2	43.6
04:00-05:00	50.4	49.5	59.1	59.7	62.4	46.8
05:00-06:00	54.1	51.8	57.0	50.8	57.5	49.4

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

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

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



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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 2020 to March 2021**

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	20/10/2020	19/11/2020	18/12/2020	19/01/2021	18/02/2021	19/03/2021
6:00-7:00	55.6	54.8	42.7	51.8	58.2	59.7
7:00-8:00	45.6	47.7	47.6	47.2	57.2	56.5
8:00-9:00	50.6	50.9	51.8	52.6	52.3	58.4
9:00-10:00	47.8	43.2	54.4	49.8	50.7	57.8
10:00-11:00	55.3	59.7	47.5	52.3	54.9	60.6
11:00-12:00	44.8	53.4	50.9	54.4	55.3	55.5
12:00-13:00	51.1	50.2	43.2	52.8	52.8	48.6
13:00-14:00	46.9	52.7	59.8	50.3	51.6	55.1
14:00-15:00	57.4	49.5	53.1	55.8	60.6	49.7
15:00-16:00	47.8	44.3	50.2	53.8	62.3	58.7
16:00-17:00	50.1	51.7	52.0	51.4	64.4	62.6
17:00-18:00	49.8	53.8	49.2	53.9	63.2	63.5
18:00-19:00	54.2	58.2	44.5	50.6	56.5	56.3
19:00-20:00	42.8	51.0	52.4	57.6	58.7	53.3
20:00-21:00	46.9	53.6	53.7	55.4	53.8	52.7
21:00-22:00	50.4	58.1	58.6	52.4	51.0	50.6

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	20/10/2020 & 21/10/2020	19/11/2020 & 20/11/2020	18/12/2020 & 19/12/2020	19/01/2021 & 20/01/2021	18/02/2021 & 19/02/2021	19/03/2021 & 20/03/2021
22:00-23:00	50.0	56.7	52.6	54.2	58.6	44.3
23:00-00:00	51.1	42.4	40.9	57.8	50.2	60.2
00:00-01:00	48.4	52.4	55.8	59.2	51.4	45.3
01:00-02:00	42.9	47.9	46.7	46.8	57.9	46.4
02:00-03:00	49.1	49.2	47.8	47.0	59.4	60.0
03:00-04:00	52.2	42.2	42.5	42.1	57.6	58.6
04:00-05:00	55.2	49.6	51.3	52.1	58.1	51.0
05:00-06:00	47.8	50.1	44.9	49.5	56.4	44.2

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

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

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



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**Tables - 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 2020 to March 2021**

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	21/10/2020	20/11/2020	19/12/2020	20/01/2021	19/02/2021	20/03/2021
6:00-7:00	69.1	45.7	60.1	59.4	68.1	56.8
7:00-8:00	51.5	50.3	50.6	52.2	67.5	64.4
8:00-9:00	47.8	54.3	54.8	55.5	66.5	68.7
9:00-10:00	55.3	51.4	51.4	54.3	64.7	66.5
10:00-11:00	45.8	55.2	48.7	51.9	68.5	62.8
11:00-12:00	51.6	53.1	59.4	48.7	64.3	58.6
12:00-13:00	55.1	43.9	46.2	50.7	60.5	56.4
13:00-14:00	59.2	46.7	56.1	56.8	58.4	51.1
14:00-15:00	53.1	56.2	54.2	57.3	57.6	57.1
15:00-16:00	53.9	47.5	51.1	58.4	55.4	54.7
16:00-17:00	58.1	51.9	47.3	54.1	54.3	51.6
17:00-18:00	48.4	59.1	57.9	56.3	53.2	49.4
18:00-19:00	54.1	44.2	48.8	55.6	51.9	50.1
19:00-20:00	49.2	51.8	45.6	52.1	60.9	58.5
20:00-21:00	54.0	59.8	56.8	58.7	54.1	62.3
21:00-22:00	53.2	44.9	57.6	51.6	53.7	59.5

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	21/10/2020 & 22/10/2020	20/11/2020 & 21/11/2020	19/12/2020 & 20/12/2020	20/01/2021 & 21/01/2021	19/02/2021 & 20/02/2021	20/03/2021 & 22/03/2021
22:00-23:00	45.2	55.1	54.9	51.2	67.2	54.9
23:00-00:00	50.1	44.8	49.8	49.4	66.3	58.6
00:00-01:00	58.8	56.9	49.1	47.1	64.8	49.3
01:00-02:00	41.4	43.8	52.2	55.8	63.9	45.6
02:00-03:00	57.8	48.9	50.1	46.5	62.7	62.5
03:00-04:00	51.1	44.5	55.5	51.8	59.8	52.3
04:00-05:00	53.9	48.7	44.3	44.9	51.7	57.4
05:00-06:00	43.4	44.6	49.2	42.8	57.8	49.8

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

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

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



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**Tables -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 2020 to March 2021**

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	22/10/2020	21/11/2020	21/12/2020	21/01/2021	20/02/2021	22/03/2021
6:00-7:00	42.8	55.9	57.1	57.9	56.4	68.1
7:00-8:00	47.6	48.7	45.7	56.5	60.2	66.4
8:00-9:00	51.1	51.6	52.6	53.4	58.3	62.7
9:00-10:00	51.2	55.1	44.6	58.5	57.3	60.5
10:00-11:00	47.8	59.2	59.7	59.8	61.1	57.6
11:00-12:00	50.9	53.3	57.5	57.1	58.5	52.3
12:00-13:00	43.2	58.7	47.9	56.7	56.3	49.5
13:00-14:00	59.1	48.4	46.8	55.0	55.7	56.7
14:00-15:00	53.1	55.7	50.4	53.0	63.5	58.2
15:00-16:00	50.2	47.2	51.9	52.5	61.9	60.8
16:00-17:00	52.0	54.9	58.7	58.1	60.8	64.1
17:00-18:00	49.2	52.6	59.9	59.9	55.8	66.7
18:00-19:00	44.9	53.0	42.6	57.5	53.5	63.2
19:00-20:00	51.0	54.0	47.4	56.2	52.7	55.3
20:00-21:00	53.2	42.6	51.2	54.9	60.7	52.9
21:00-22:00	58.1	53.2	50.3	50.8	54.6	54.5

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	22/10/2020 & 23/10/2020	21/11/2020 & 22/11/2020	21/12/2020 & 22/12/2020	21/01/2021 & 22/01/2021	20/02/2021 & 21/02/2021	22/03/2021 & 23/03/2021
22:00-23:00	54.2	56.5	50.8	50.0	61.5	53.4
23:00-00:00	57.8	41.8	57.8	51.1	58.2	61.1
00:00-01:00	59.1	57.8	45.8	48.4	50.9	59.2
01:00-02:00	46.8	43.9	55.1	42.9	57.4	46.7
02:00-03:00	47.8	53.9	42.3	49.1	56.5	61.2
03:00-04:00	52.1	43.4	58.8	52.2	54.1	47.8
04:00-05:00	49.8	52.8	49.4	55.4	61.2	48.6
05:00-06:00	51.1	43.2	54.4	47.8	56.1	50.4

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

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

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



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**Tables -19 -S & S Yard (North) Boundary Wall Loco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	23/10/2020	23/11/2020	22/12/2020	22/01/2021	22/02/2021	23/03/2021
6:00-7:00	51.1	47.4	59.1	60.8	59.6	57.5
7:00-8:00	47.2	55.3	52.2	58.9	61.6	58.3
8:00-9:00	51.2	51.1	56.4	54.8	56.8	55.7
9:00-10:00	49.8	46.5	44.9	56.6	55.2	51.2
10:00-11:00	45.9	57.4	43.8	57.4	60.3	54.6
11:00-12:00	57.8	47.3	48.9	59.5	67.6	57.3
12:00-13:00	52.8	50.8	50.7	54.0	66.2	53.5
13:00-14:00	44.9	59.6	55.9	56.1	64.5	58.8
14:00-15:00	50.1	54.2	53.4	52.7	62.7	61.1
15:00-16:00	51.0	49.8	58.4	51.1	61.2	50.9
16:00-17:00	53.9	46.8	50.8	48.5	58.6	57.4
17:00-18:00	42.6	51.3	56.3	53.6	57.8	59.2
18:00-19:00	59.1	46.4	55.0	48.9	56.7	54.3
19:00-20:00	46.9	46.9	52.1	45.8	60.4	52.6
20:00-21:00	42.8	50.4	51.6	44.8	63.1	56.1
21:00-22:00	44.9	46.1	42.9	43.2	62.8	54.4

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq <sup>#</sup>					
Date of Monitoring	23/10/2020 & 24/10/2020	23/11/2020 & 24/11/2020	22/12/2020 & 23/12/2020	22/01/2021 & 23/01/2021	22/02/2021 & 23/02/2021	23/03/2021 & 24/03/2021
22:00-23:00	51.1	58.8	45.9	50.6	57.1	52.4
23:00-00:00	49.4	49.4	50.0	47.9	56.3	48.8
00:00-01:00	47.1	55.8	47.6	49.8	55.6	53.8
01:00-02:00	55.8	52.0	51.1	51.4	53.2	54.8
02:00-03:00	47.9	44.9	45.4	48.1	51.3	46.9
03:00-04:00	51.3	56.1	42.8	55.2	66.5	50.3
04:00-05:00	44.9	44.3	53.2	50.4	63.7	58.1
05:00-06:00	42.8	56.4	48.4	59.1	59.1	57.6

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

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

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



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**Tables - 20 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021**

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	24/10/2020	24/11/2020	23/12/2020	23/01/2021	23/02/2021	24/03/2021
6:00-7:00	42.8	51.2	42.8	53.7	52.1	51.4
7:00-8:00	47.6	54.7	47.8	54.2	57.5	58.1
8:00-9:00	51.1	47.9	51.0	55.7	56.2	50.3
9:00-10:00	54.2	58.8	53.2	50.1	54.4	47.4
10:00-11:00	47.8	52.2	58.1	45.9	59.1	46.7
11:00-12:00	47.8	62.1	40.8	46.8	57.4	55.6
12:00-13:00	50.9	69.1	53.6	50.0	56.9	49.2
13:00-14:00	53.2	54.4	47.2	47.9	53.4	56.2
14:00-15:00	43.2	54.1	48.6	57.8	60.1	60.1
15:00-16:00	59.1	48.8	46.9	58.8	57.9	58.0
16:00-17:00	53.1	47.0	53.8	55.3	55.1	59.1
17:00-18:00	50.2	50.6	52.3	44.9	54.8	56.9
18:00-19:00	52.0	52.4	47.1	49.2	59.2	50.4
19:00-20:00	49.2	47.8	54.3	56.9	55.9	48.9
20:00-21:00	44.8	50.1	45.9	53.1	54.2	54.2
21:00-22:00	50.1	52.3	50.1	54.6	52.6	53.1

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq <sup>#</sup>					
Date of Monitoring	24/10/2020 & 25/10/2020	24/11/2020 & 25/11/2020	23/12/2020 & 24/12/2020	23/01/2021 & 24/01/2021	23/02/2021 & 24/02/2021	24/03/2021 & 25/03/2021
22:00-23:00	53.2	47.6	51.4	58.1	56.7	55.4
23:00-00:00	46.4	60.6	55.2	56.2	50.3	56.1
00:00-01:00	42.8	45.4	50.4	47.5	53.8	49.5
01:00-02:00	49.4	42.8	54.1	41.9	47.4	58.3
02:00-03:00	55.8	53.2	42.4	46.2	49.2	56.7
03:00-04:00	50.0	51.1	50.6	57.2	58.5	55.8
04:00-05:00	44.9	53.8	54.8	55.1	47.8	51.2
05:00-06:00	56.1	51.6	57.2	51.3	48.7	45.9

<sup>#</sup>dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.  
Day Time shall mean from 6:00 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

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

  
Authorized Signatory

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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-20 to March-21

Sr. No.	Parameters	Unit	DG Set # 1 MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3 Marine (SS8)		DG Set # 4 Silo (SS11)	
			NOV-20	FEB-21	NOV-20	FEB-21	NOV-20	FEB-21	NOV-20	FEB-21
			28/11/2020	18/02/2021	28/11/2020	18/02/2021	28/11/2020	18/02/2021	28/11/2020	18/02/2021
1	Particulate Matter	mg/Nm <sup>3</sup>	24.49	28.64	28.62	24.52	21.56	23.56	32.42	29.42
2	Sulphur Dioxide	ppm	7.53	6.38	6.21	5.62	5.34	4.61	8.39	7.65
3	Oxide of Nitrogen	ppm	36.86	34.51	32.63	29.44	34.52	36.52	38.64	31.76
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	11.65	13.26	8.44	11.04	10.66	12.81	9.48	15.14

Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: October-20 to March-21

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
		NOV-20	FEB-21
		28/11/2020	18/02/2021
1.	DG Set # 1MRSS (SS5)	72.3	72.8
2.	DG Set # 2 SS7B	71.5	70.6
3.	DG Set # 3Marine (SS8)	70.2	69.8
4.	DG Set # 4Silo (SS11)	71.7	71.1



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**ANNEXURE- 4**

**COMPLIANCE STATUS OF EMP AS PER EIA  
REPORT**



**Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., March, 2021**

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

S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none"> <li>Monitoring reports are presented in the <b>Annexure 3G</b>.</li> </ul>
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	<b>Complying with.</b> Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>There is no occasion till date for exceeding the noise level at the port boundary.</li> <li>Persons working in the fabrication yard are provided with PPEs.</li> </ul>
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	<b>Complying with.</b> All noise generating equipment's are provided with acoustic enclosures.
<b>1.3</b>	<b>Sewage Management Plan</b>	
	Sewage generated from the construction site will be treated in existing STP of 27 m <sup>3</sup> capacity.	<b>Complying with.</b> Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October, 2020 to March, 2021 are enclosed as <b>Annexure -3F</b> .
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
<b>1.4</b>	<b>Solid and Hazardous Waste Management Plan</b>	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	<b>Complying with.</b> <ul style="list-style-type: none"> <li>All solid waste is being segregated for biodegradable and non-biodegradable.</li> <li>Biodegradable waste is being decomposed in vermicomposting yard and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.</li> </ul>
	All hazardous waste generated will be categorized as per Hazardous Waste Management Rules, 2008.	<b>Complying with.</b> Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	<b>Complying with.</b> Recyclable waste such as used oil, Discarded drum etc. is being sold to authorize recyclers only.
<b>1.5</b>	<b>Construction Phase Storm Water Runoff</b>	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	<b>Complying with.</b> Storm water drainage system has been provided and regular maintenance is being done.
<b>B.</b>	<b>ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)</b>	
<b>2.1</b>	<b>Air Quality Management Plan - Coal Handling and Stock Yard Area:</b>	
	Appropriate stack height will be provided to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	<b>Complying with.</b> All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty, conveyor belt, transfer tower, and discharge	<b>Complying with.</b> All dust control systems are maintained and operating well.



S. No.	EMP Conditions	Compliance Status
	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	APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly.
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	<b>Complying with.</b> <ul style="list-style-type: none"> <li>At coal stack yard, 130 sprinklers are maintained and operating well.</li> <li>Pavement of the additional storage area is completed. Installation of water sprinklers and other DSS measures will be complete before storage of coal.</li> </ul>
	To prevent wind carryover of dust from coal stack yard, wind barrier have been erected around the coal stock pile area at a height of 14m from the ground level. The wind barrier is of galvanized sheet with perforated holes to withstand high velocity wind has been fitted in the structural beams and erected in solid foundation thereby effectively control the wind carryover of dust from the stock piles.	<b>Shall be complied.</b> <p>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;</p> <ul style="list-style-type: none"> <li>➤ Reduction of coal losses in open yard</li> <li>➤ Saves water for dust suppression</li> <li>➤ Improves the living conditions of local residents</li> <li>➤ Improves the working conditions of the on-site staff</li> </ul> <p>Wind break walls have been erected around the coal stock pile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stock piles. An amount of 58 crore is spent by APDPPL in erecting and marinating the wind breaking wall around the coal yard</p> <p>Wind breaker of the same specification shall be provided in the additional storage area once completed.</p>
	Road sweeping of dust is being undertaken using mobile van thereby preventing settled dust gets	<b>Complying with.</b>

S. No.	EMP Conditions	Compliance Status
	<p>airborne due to movement of vehicles and high wind velocity and the same is recommended</p> <p>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.</p>	<p>Road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPPL.</p> <ul style="list-style-type: none"> <li>• <b>Road cleaning by sweeping machine:</b> APDPPL, have 02 nos. of large capacity road sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal.</li> </ul> <p><b>Manual Road Cleaning:</b> In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by two team consisting of 8 members each. All the coal dust collected is sent to the coal yard.</p>
	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.	<p><b>Complying with.</b></p> <p>Sprinkling of water is being done on the roads to control the dust.</p>
<b>2.2</b>	<b>Noise Control Management Plan</b>	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	<p><b>Shall be complied.</b></p> <p>Mechanization of the south jetty is yet to be done.</p>
	DG sets installed in open area will be provided with acoustic enclosure	<p><b>Complying with.</b></p> <p>DG sets installed in open area are provided with acoustic enclosure</p>
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	<p><b>Complying with.</b></p> <p>Compressor and DG sets &amp; Pump house are installed in separate building and provided with acoustic enclosures.</p>
	Movement of vehicles within the port will be restricted with speed control measures	<p><b>Complying with.</b></p> <ul style="list-style-type: none"> <li>• Speed is limited within the port premises.</li> <li>• Proper signage also provided within the premises.</li> </ul>
	Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port	<p><b>Complying with.</b></p> <p>All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.</p>



S. No.	EMP Conditions	Compliance Status
	Planting trees which acts as barrier to arrest dispersion of noise levels along the internal roads and port boundary	<b>Complying with.</b> Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible	<b>Complying with.</b> Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	<b>Complying with.</b> APDPPL is certified with the ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007. A proper change management process in place for any kind of deviation. However, there is no occurrence of noise level exceeding norms.
<b>2.3</b>	<b>Storm Water Management Plan</b>	
	Following areas will be provided with storm water drainage systems to prevent any surface run-off in to the sea. <ul style="list-style-type: none"> <li>• Reclamation of 23 Ha back up area</li> <li>• Coal stock pile development of 7.7 Ha area</li> <li>• Railway siding area</li> </ul>	<b>Complying with.</b> Coal stock pile and Railway siding area are provided with storm water drainage. Reclamation of 4 Ha area is being done. Remaining 19ha area will be developed phase wise, as per the future requirement.
	<ul style="list-style-type: none"> <li>• The drainage water will be channeled through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains.</li> </ul>	<b>Complied with.</b> Runoff from the coal storage is being routed through dump pond where all the particles settled down.
<b>2.4</b>	<b>Solid &amp; Hazardous Waste Management Plan</b>	
	Port operator will prepare the robust waste management plan for the entire operations, process carried out during operation. As part of the plan, a scavenging boat will be anchored for collection of waste due to windblown in to the sea.	<b>Complying with.</b> A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	<b>Complying with.</b> All the wastes are being managed in compliance to the respective waste management rules as amended in 2016.
	Solid Waste generated during port operations will be disposed as per Solid Waste (Management & Handling) Rules 2000. Wherever possible the recycle and reuse will be explored for possibilities of recovery of any useful material. Option for recycle/reuse if not economical, then the waste will be disposed as per the SWM Rules, 2000.	
<b>2.5</b>	<b>Green Belt Development Plan:</b>	

S. No.	EMP Conditions	Compliance Status
	It is proposed to develop nearly 6 ha. of green cover all along the boundary of the port. Green Buffer Zone is being implemented at Eastern project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	<b>Complying with.</b> Three tier Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	It is proposed to develop further three tier greenbelt to increase efficiency of dust control.	
<b>2.6</b>	<b>Community Development Plan</b>	
	<p>The proposed CSR programs are based on the needs felt and socioeconomic indicators of the study. The proposed CSR programs can be initially implemented in the five villages of the study area that is Lakhigam, Luvara, Jageshwar, Ambetha and Dahej. Based on the outcome of the CSR programs, it can be expanded to the other villages apart from the study area. The proposed CSR Programs can be grouped into the following subheadings.</p> <p><b>Health Promotions Programs</b></p> <ul style="list-style-type: none"> <li>✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs</li> <li>✓ Mobile Clinic</li> </ul>	<b>Complied.</b> The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as <b>Annexure – 8</b> .
	<p><b>Education Promotion Programs</b></p> <ul style="list-style-type: none"> <li>✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc</li> <li>✓ Providing scholarship programs</li> <li>✓ Sport Coaching centre</li> </ul>	
	<p><b>Economic Development Programs</b></p> <ul style="list-style-type: none"> <li>✓ Knowledge centre regarding various government schemes and latest technology</li> <li>✓ Skill Development Training Programs</li> </ul>	
	<p><b>Women Empowerment</b></p> <ul style="list-style-type: none"> <li>✓ Sanitation Promotion Programs</li> <li>✓ Construction and Maintenance of Sanitation complex</li> <li>✓ Awareness Programs</li> </ul>	
	<p><b>Infrastructure development Programs</b></p> <ul style="list-style-type: none"> <li>✓ Developing internal roads of villages</li> <li>✓ Developing drainage systems</li> <li>✓ Solar Street Lights</li> <li>✓ Construction / Maintenance of Community Halls</li> <li>✓ Social Forestry</li> </ul>	
<b>2.7</b>	<b>Village Specific Infrastructure Development Programs:</b>	



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

S. No.	EMP Conditions	Compliance Status
	will be undertaken by MoEF recognized and NABL accredited environmental laboratories as part of compliance report preparation and its submission to GPCB, MoEF Regional Office, Vadodara and New Delhi.	
2.9	<b>Cost Estimates for Environmental Management Plan:</b>	
	The estimated total cost of the proposed project is Rs.464.32 Crores. Under the project, about Rs.173.35 Crores is allocated towards pollution control equipment, implementation of environmental pollution control measures and environmental management programs.	<p><b>Complied.</b></p> <p>Separate budget is allocated for Environmental Management activities.</p> <ul style="list-style-type: none"> <li>• Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as <b>Annexure – 6.</b></li> <li>•</li> </ul>



**ANNEXURE -5**

**GREEN BELT DEVELOPMENT PLAN**

### Annexure-5 Green Belt development plan (APDPPL)

Sr.no.	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm	Remarks	FY
1	PMC office area Landscape / old pump house /Road side	0.45	500	Delonix regia/ Pelttoforum /casurina (3 x3 m )	1000	1500	25	Implemented	2010-11
		0.23	250	Cassia semia/peltoforum/conocarpus (3 x3 m )					
		0.20	450	Coconut spp./ fruit trees / Dragon fruit /boganvallia (1.5 x 3 m)					
	Back side lakhibaba temple &Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia (1.5x 2 m)	0	0		Implemented	2011-12
	Back side lakhibaba temple &Boundry site plantation (phase -1 a )	0.27	600	Casurina Equisitifolia (1.5x 3 m)	0	0	0		
	<b>Total</b>	<b>1.54</b>	<b>3100</b>		<b>1000</b>	<b>1500</b>	<b>25</b>	Implemented	
2	Gcptcl boudry wall site plantation (phase-	1.35	6000	Casurina Equisitifolia (1.5x 1.5 m)				Implemented	2011-12
	APPPL office area (SS-7)	0.32	400	Delonix regia /peltoforum/conocarpus/neem (2x4 m)	800	8000	200		
	Gcptcl boudry wall site plantation (phase-	0.11	500	eucalyptus/ conocarpus (1.5x 1.5 m)	0	0	0	Implemented	2012-2013
	<b>Total</b>	<b>1.78</b>	<b>6900</b>		<b>800</b>	<b>8000</b>	<b>200</b>		
3	LNG Site Boundry wall site plantation	0.90	4000	Casurina Equisitifolia /conocarpus(1.5x 1.5 m)	0		500	Implemented	2012-2013
4	Stack yard	0.68	3000	Casurina Equisitifolia/Eucalyptus /conocarpus(1.5x 1.5 m)	0	0	0		
	<b>Total</b>	<b>1.58</b>	<b>7000</b>		<b>0</b>	<b>0</b>	<b>500</b>		
5	Road site Avenue tree plantation	0.68	1500	Casurina Equisitifolia/Conocarpus (1.5x 3 m)	3000	200	200	Implimented	2013-2014
		1.44	1600	Conocarpus (3x3 m)					
		0.90	1500	Conocarpus (2x3m)					
	<b>Total</b>	<b>3.02</b>	<b>4600.00</b>		<b>3000</b>	<b>200</b>	<b>200</b>		
6	Main gate Area Perifery /EHS/Road side	0.24	525.00	Casurina Equisitifolia (1.5x 3 m)	3450	2500		Implemented	2014-15 2015-16
		0.35	220.00	Conocarpus (4x4 m)				Implemented	
		0.23	500.00	Golden Bamboo (1.5x 3 m)				Implemented	
		0.60	500	Azardirecta indica /peltoforum/ Casurina (3x 4 m)				Implemented	
		0.256	320	Conocarpus /Casurina/forest trees (2x4 m)				Implemented	
		0.324	810	Conocarpus /Casurina (2x 2 m)				Implemented	
	<b>Total</b>	<b>2.0</b>	<b>2875.0</b>		<b>3450</b>	<b>2500</b>	<b>0</b>		
7	Coal yard area /Railaway yard	0.15	255	Conocarpus /Casurina (2x 3 m)	0	0		Implemented	2016-17 2017-18
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x1.5 m)	0	0	2000		
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x 1.5m)		0			
	<b>Total</b>	<b>2.40</b>	<b>10255.00</b>		0	0			
	Permenant Godown area	0.36	1380	Shrubs and forest tree plantation	1500	2100	100	Implemented	2018-19
	Coal Yard Area	1.14	2861	Conocarpus /Casurina (2x 2 m)	1200	0	0	Implemented	



	Perifery road side	0.68	3000	eucalyptus /conocarpus(1.5x 1.5 m)	0	0		Implemented	
	<b>Total</b>	<b>2.18</b>	<b>7241.00</b>		<b>2700.00</b>	<b>2100.00</b>	<b>2000.00</b>		
8	Near J10 Junction	0.05	120	Conocarpus /Casurina (1 x 1 m)					2019-20
	Sea side New Development	0.27	1480	eucalyptus /conocarpu/ Bouganvallia/ shrubs (1x 1 m)	500				
	Marine Police Station	0.17	250	Azardirecta indica /peltoforum/ Casurina (3x 4 m)	200				
	Old pump house /silo area	0.11	480	Azardirecta indica /peltoforum/ Casurina (1.5x 1.5 m)					
	Port Yard Area	0.12	400	eucalyptus /conocarpus(0.80x 0.80m)					
	Ramji Temple Area / Lakhigam school	0.49	820	Azardirecta indica /peltoforum/ Casurina/conocarpus					
	Near ODC Gate	0.02	30	Psidium guajava (Guava) (1.5 x 1.5m)					2020-21
	Workshop area		50	azadirachta indica (1.5 x 1.5m)					
	Workshop area		30	peltophorum pterocarpum (1.5 x 1.5m)					
	<b>Total</b>	<b>1.23</b>	<b>3660</b>						
<b>Trees Total Green Zone Area (Ha)</b>		<b>15.714450</b>	<b>45631.00</b>		<b>10950.00</b>	<b>14300.00</b>	<b>2925.00</b>		
<b>Shrub/carpet /palm Total Green Zone Area (Ha)</b>		<b>3.695</b>			<b>1.095</b>	<b>1.43</b>	<b>1.17</b>		
	<b>Total Green Zone Area (Ha)</b>	<b>19.40945</b>							

**ANNEXURE- 6**

**ENVIRONMENTAL BUDGET & EXPENDITURE LAST**

**3 YEAR**



**Annexure – 6: Environment Budget and Expenditure for the FY: 2020-21****A. Opex Environment Expenditure for the last 3 years**

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2018-2019	2019-2020	2020- 2021	2020-2021
1.	EHS Manpower	5.54	6.85	6.85	7.0
2.	Legal & Statutory Expenses	0.34	0.20	7.16	5.0
3.	Environmental Monitoring Services	18.30	20.28	16.52	21.0
4.	Cost for Water Consumption and use dust suppression	55.64	71.69	46.08	104.7
5.	Hazardous Waste Management & Disposal	2.07	2.12	2.72	2.0
6.	Greenbelt Development and Plantation	45.0	40.0	44.00	43.64
7.	O&M of Sewage Treatment Plant	5.30	6.70	6.77	6.70
8.	Environment Day Celebration	0.50	0.50	0.10	0.10
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	1.92	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	10.27	35.95	49.83	56.72
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	73.74	65.62	59.70	79.38
12.	Environmental Study / Audit and Consultancy	11.60	9.18	3.07	5.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	0.00	13.57	6.78	7.0
14	EHS Display Board	5.00	5.00	5.36	5.0
<b>Total Amount (In Lacs)</b>		<b>235.22</b>	<b>279.58</b>	<b>256.86</b>	<b>345.24</b>

**B. Capex Environment Expenditure for the last 3 years**

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2018-2019	2019-2020	2020- 2021	2020-2021
15	Marine Ecology / Shoreline Monitoring	0.00	10.35	0.00	0.00
16	STP -50KL(Membrane Biological Reactor(MBR) Technology)- Capex	0.00	20.50	0.00	0.00
17	Horticulture Development - CAPEX	22.57	8.00	0.00	0.00
18	Roof top rain water harvesting project	0.00	0.00	0.00	20.00
19	Marine Ecology / Shoreline Monitoring	7.00	0.00	0.00	0.00
<b>Total Amount (In Lacs)</b>		<b>29.75</b>	<b>38.85</b>	<b>0.00</b>	<b>20.00</b>
<b>Total(A+B) Amount (In Lacs)</b>		<b>257.79</b>	<b>314.58</b>	<b>256.86</b>	<b>365.24</b>

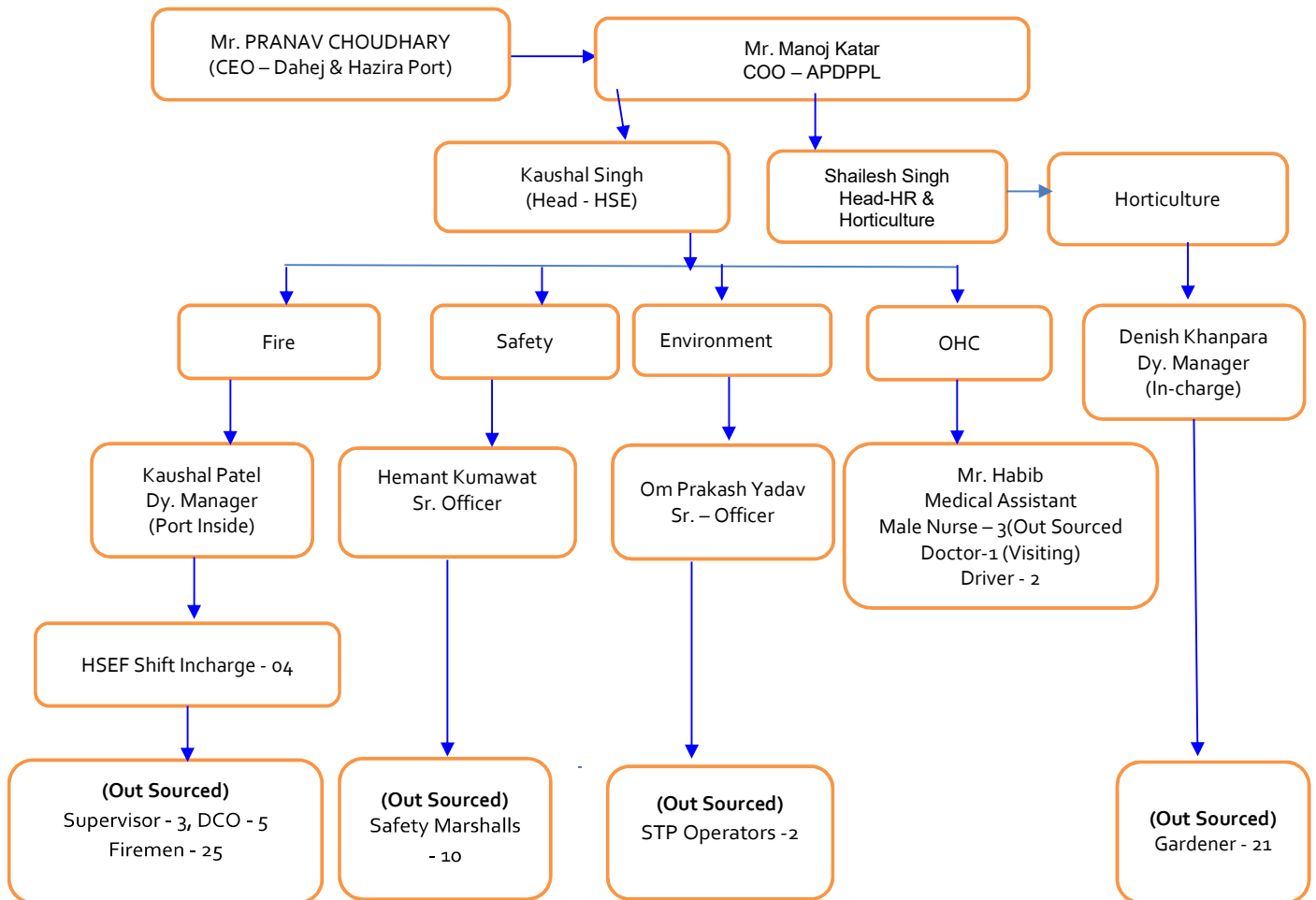
**ANNEXURE-7**  
**ENVIRONMENT MANAGEMENT CELL**



**Annexure - 7: Organogram of APDPPL - Environment Management Cell**

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

**Department: QHSE Management Cell**



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	14 Years
2.	Denish Khanpara	Dy. Manager (Horticulture)	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	14 Years
3.	Kaushal Patel	Dy. Manager (Fire)	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	16 Years
4.	Hemant Kumawat	Sr. Officer (Safety)	Dip – Mech, Dip. In Fire & Safety, NEBOSH	11..5 Years
5.	Om Prakash Yadav	Sr. Officer (Environment)	M.Sc. Environment Science	7.0Years

**ANNEXURE- 8**

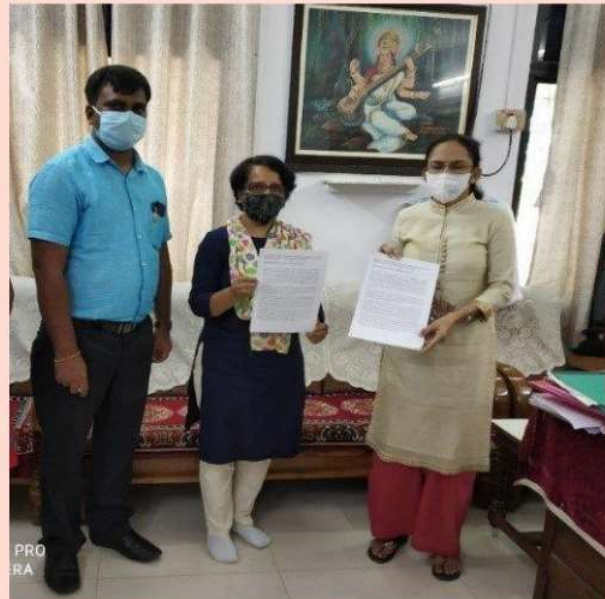
**CSR REPORT FROM OCTOBER, 2020 TO**

**MARCH, 2021**

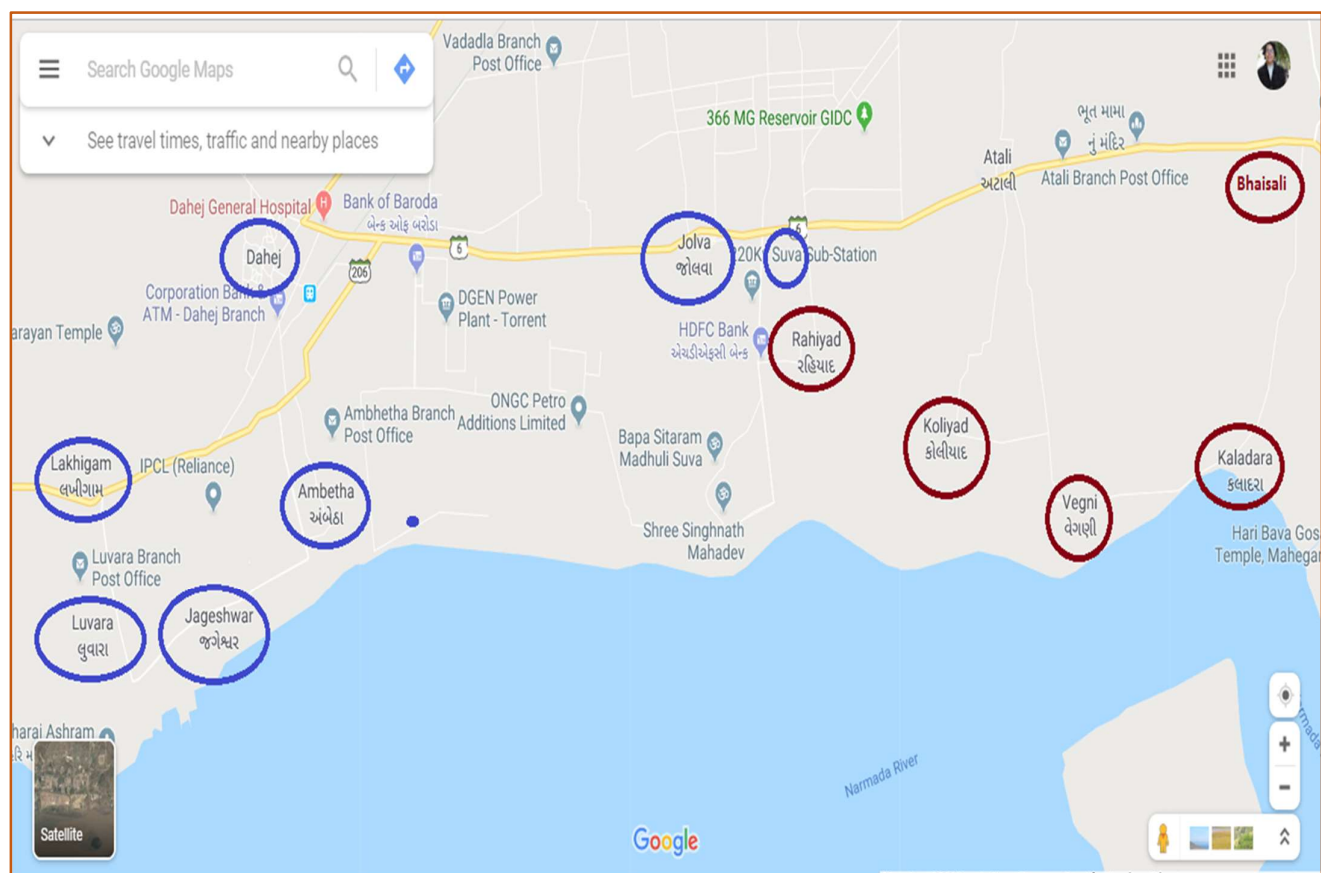


# CSR REPORT

(FOR THE PERIOD OF OCTOBER, 2020 TO MARCH, 2021)

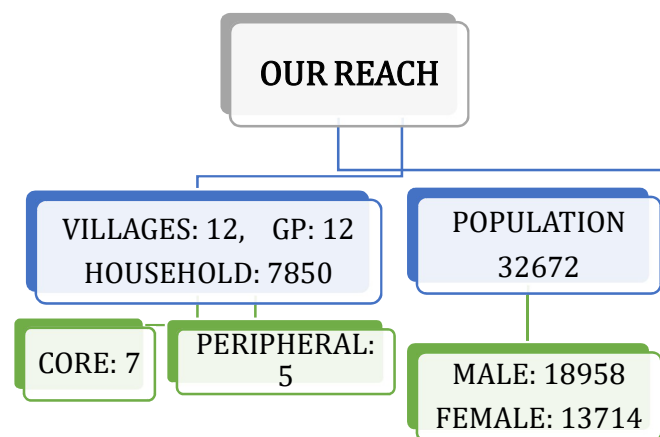


ADANI FOUNDATION, DAHEJ



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

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



### Thematic Areas

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



## SDG Alignment

### Sustainable Development Goal 4

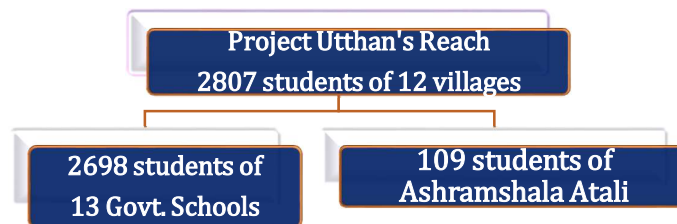
#### Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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

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

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

## PROJECT UTTHAN



**Selection of Utthan Sahayak:** AF team met all Gram Panchayats and other stakeholders regarding vacancies of Utthan Sahayak. Stakeholders circulated the message of Utthan Sahayak in their whatsapp groups. As a result, AF got no. of CVs of the aspirants. An online interview was conducted in December 2020. On the basis of interview, candidates were shortlisted.

**Support to Ashramshala Atali:** Adani Foundation and Ashramshala Atali are constructing a dining hall in the campus. AF's contribution is of Rs.21 lacs and Rs.5 lacs would be bear by Ashramshala. School's old dining area is in critical condition. It's about to collapse. Assessing the severity of the situation AF & Ashramshala Atali took the decision for construction of dining hall. 200 students, teachers and other staff would avail the facility. Construction work is in progress.



Dining Hall construction work, Ashramshala Atali

#### Boundary Wall Construction at Kumarshala, Nabipur:

District Primary Education Officer, Bharuch requested AF team for construction of boundary wall of Kumar Prathamshala, Nabipur, Bharuch. AF team visited the school and had meetings with School Principal and teachers. This school is situated at a distance of 16 kms. from Bharuch having strength of 244 from standard 1<sup>st</sup> to 8. There was no boundary on 3 sides of the school and front side boundary was damaged. Pond at front of the school added safety concern of the students. AF Senior Management approved construction of boundary wall work. This work is under progress.



Boundary wall construction at Kumarshala, Nabipur

## SPORTS

### SDG Alignment

SDG 3: Good Health and Well Being Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic Sports

#### Lakhigam Premier League

Lakhigam Premier League 2021 cricket tournament ended on 27th February. In final match Shivam 11 won the trophy after defeating Lakhabava 11 by 6 wickets. Shivam 11 won the trophy 6th consecutive season. 30 teams of the village participated in this tournament.

Sh. Manoj Katar, COO, APDPPL, Mr. Shailesh Singh, HR Head, Mr. Jatin Bhadresra, Corporate Affairs, Lakhigam Sarpanch and other Panchayat members gave trophies and medals to winner & runner up team.

AF provided t-shirts, trousers, sports materials and a pitch developed for practice purpose in Lakhigam High School.



**Inter School Volleyball Championship for Girls & Boys:** AF team had meetings with Principals of all 3 high schools of project area Lakhigam, Jageshwar and Dahej for Inter Village Volleyball Championship for Boys and Inter School Championship for Girls. Gram Panchayats, School teachers and other stakeholders welcomed the initiative. Teachers of P.J.Chheda High School played the role of coach and referee. Govt. Secondary and Higher Secondary School, Lakhigam and P.J.Chheda High School, Dahej provided their ground for the championship.

Adani Foundation & Adani Petronet Dahej Port Private Limited organized Inter School Volleyball Championship for Girls and Boys with 3 High Schools of core villages. 42 girls and 98 boys participated in the tournament. Among girls Govt. Secondary & Higher Secondary won the trophy and in boys P.J.Chheda High School lifted the winner's trophy. This tournament is the first one specially organized for school students in Special Economic Zone, Dahej.

AF provided material support in form of t-shirts, trousers, shoes, net, volleyball & trophies.





## Drawing Competition

On the occasion of Road Safety Week, a drawing competition was organized in 3 Primary Schools

- Govt. Primary School, Lakhigam
- Govt. Primary School, Luvara and
- Govt. Primary School, Jageshwar.

Total 60 students (20 students from each school) participated in the competition. This competition was organized by Adani Petronet (Dahej) Port Private Limited on Road Safety Closing Ceremony. In COVID phase it was a difficult task but AF team in close coordination with School Management and parents made this event successful.

In closing ceremony function winners of all 3 schools: 9 students were felicitated by Sh. Manoj Katar, COO, and APDPPL; Mr. Shailesh Singh, Head – HR, APDPPL and Mr. Ramesh Lenka, Head – Security, and APDPPL. Students' drawings were displayed on stage. These drawings were the point of attraction for all invitees – Police Personnel, port employees and village people.



## COMMUNITY HEALTH

### SDG Alignment

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

##### Project Swasthya

Adani Foundation supported Primary Health Centre, Dahej with HbA1C Analyzer, Bio chemistry Analyzer and multi diagnostic kits. People having complain of hypertension and diabetes undergo different tests, treatment, counselling and follow up. PHC, Dahej provides patient details to AF and AF do follow up of chronic patients.

Sh. Manoj Katar, COO, Adani Dahej Port, AF team, Dr. Pravinsig, Taluka Health Officer, vagra, Dr. Sabina, Medical Officer of Dahej PHC and other staff of PHC were present on inauguration event.

People of nearby villages undergo tests for glucose, urea, cholesterol, creatinine, SGOT, SGPT, uric acid, Alkaline phosphate, HDL, Bilirubin, CRP, triglycerides AT NO COST in PHC.

##### Progress so far

- PHC Dahej screening data : diabetis: 88, hypertension: 16
- Meeting with officials of Sub Centre, Ambheta regarding patients of hypertension and diabetes. 30 such patients are under treatment in this centre
- AF team along with ASHA conducted household visits and counselling of 12 patients having hypertension and 16 diabetic patients in Barad and Navinagri hamlets of Jolva village



##### Vehicle support in Pulse Polio Campaign

Adani Foundation is providing vehicle support to Community Health Centre, Vagra for more than six years. Cold chain management of polio vaccines is a big challenge. Due to AF support vaccines reached polio booths on time and **2417 children of 13 villages** get vaccinated. These villages are: Kalm, Limdi, Ambhel, Goladra, Narnavi, Trakal, Kesvan, Muler, Gandhar, Paldi, Chachavel, Badalpura and Aladra.





## SUSTAINABLE LIVELIHOOD DEVELOPMENT

### PASHUDHAN PROGRAM

**SDG Alignment: 2/1.1, 2.5**

**Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture**

1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

Pashudhan Program is operational in 12 villages of project area with support of BAIF since November 2017. 1<sup>st</sup> phase of the project is completed on 31<sup>st</sup> March 2020. A new MOU is signed between Adani Foundation and BAIF for 2<sup>nd</sup> phase of the project. Project duration is of 3 years 2020 – 2023.

Program Objective: Create self-employment/ supplementary income through animal livestock development in project villages of Special Economic Zone, Dahej



In 1<sup>st</sup> phase beneficiaries get acquainted with animal management practices and their health care, green fodder development, kitchen gardens, vermi composting. On the basis of good outcome of the program, project is extended for next 3 years.

## IMPACT OF CATTLE BREEDING PROGRAM OCT 2020 TO MAR 2021

At a Glance		
S.N	Particulars	Nos.
1	Total Villages	12
2	No of Families Benefitted (Direct)	
3	No of Artificial Insemination (Cow +Buffalo)	312
4	No of Confirm Pregnancy (Cow + Buffalo)	154
5	No of female Calving (Cow+Buffalo)	81
6	No of male Calving (Cow+Buffalo)	75

S.N	Particular	Amount (in Rs.)
1	Total 81 female calves born in project villages & their age wise valuation	162000
2	Total 75 male calves born in project villages & their age wise valuation	75000
4	Wormi Compost 2.10 ton sold @ Rs.5 in industrial area Dahej	10500
5	Savings on fodder by use of Chaff Cutter	5803
6	Savings on green fodder	335200
	<b>Total</b>	<b>5,88,503/-</b>

## IMPACT OF CATTLE BREEDING PROGRAM

Year 2017								Year 2020							
S. N	Village	No of House hold	Animal Holding Family	Cow	Buffalo	Animal Total	Beneficiaries in co-operative	Milk Collection of Co-operative per /day	Animal Holding Family	Cow	Buffalo	Calf	Animal Total	Beneficiaries in co-operative	Milk Collection of Co-operative per /day
1	Lakhigam	273	37	12	132	144		0	36	26	80	71	177	0	0
2	Luvara	553	41	31	152	183		0	54	43	214	126	383	0	0
3	Jageshwar	180	27	4	81	85	23	218	31	6	74	57	137	30	285
4	Ambheta	472	34	0	108	108		0	31	0	60	45	105	0	0
5	Dahej	1307	31	26	224	250		0	25	82	199	165	446	0	0
6	Jolva	637	9	124	78	202		0	5	71	1	22	94	0	0
7	Suva	332	94	22	236	258		0	57	33	104	109	246	0	0
8	Rahiyad	248	38	0	103	103		0	43	0	87	71	158	0	0
9	Koliyad	238	29	12	149	161		0	24	42	104	98	244	0	0
10	Atali	452	20	4	118	122		0	24	15	93	52	160	0	0
11	Vengni	183	49	78	108	186	41	285	48	121	74	169	364	49	396
12	Kaladra	351	77	207	440	647	54	344	57	103	176	177	456	61	429
	<b>Total</b>	<b>5226</b>	<b>486</b>	<b>520</b>	<b>1929</b>	<b>2449</b>	<b>118</b>	<b>847</b>	<b>435</b>	<b>542</b>	<b>1266</b>	<b>1162</b>	<b>2970</b>	<b>140</b>	<b>1110</b>

### Impact

- Animal population is increased from 2449 to 2970
- No. of animals increased in Lakhigam, Luvara, Dahej, Rahiyad, Koliyad, Atali & Vengani. In other villages nos. reduced to industrialization as more land is acquired for industries.
- 1 Dairy is established by beneficiaries at Luvara Village
- Green fodder cultivation is started with available land
- Improvement in animal husbandry practices like calf caring, artificial insemination, sorted semen AI
- Vermi compost as additional source of income



Repeat Breeder Animal Report Period: Oct 2020 to Mar 2021											
S. N	No. of Beneficiaries	No. of Village	No of Animals	Average Dry Month	No of Average AI	Average Cost of Insemination in Rs.	Average Expenditure on infertility treatment in Rs.	Total expenditure in Rs.	Average Per Animal Expenditure Rs	Through Pashuon Program	Result in the Month
1	2	1	2	6	5	1400	3000	4400	366.667	1.5	3

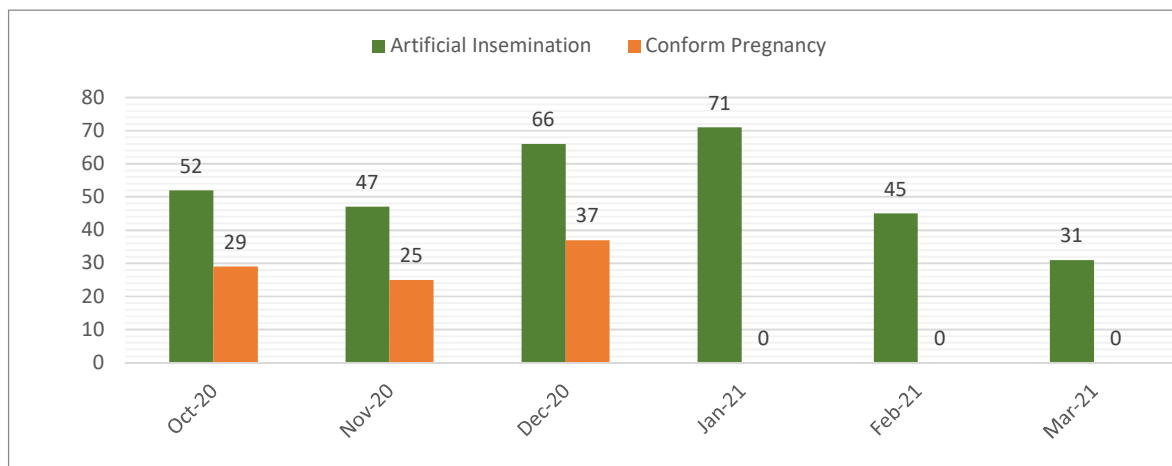
CREATED CATTLE ASSET VALUE PERIOD OCT 2020 TO MAR 2021							
S.N	Age (Month)	No of Female Calf			Market Rate (in Rs.)	Total Value (in Rs.)	Remarks
		Cows	Buffalo	Total			
1	0 To 6	27	54	81	2000	162000	
	<b>Total</b>	<b>27</b>	<b>54</b>	<b>81</b>	<b>2000</b>	<b>162000</b>	

MALE CATTLE ASSET VALUE PERIOD OCT 2020 TO MAR 2021							
S.N	Age (Month)	No of Male Calf			Market Rate (in Rs.)	Total Value (in Rs.)	Remarks
		Cows	Buffalo	Total			
1	0 To 6	31	44	75	1000	75000	
	<b>Total</b>	<b>31</b>	<b>44</b>	<b>75</b>	<b>1000</b>	<b>75000</b>	

AI performed v/s Pregnancy Detected

Sold Pregnant Animal Asset Value Period Oct 2020 To Mar 2021					
Sr. no	Animal Breed	Pregnant Animals	Market Rate Rs.	Total Asset Value Rs.	Remark
1	Bufflo	3	44000	132000	After AI 3 to 6 months Pregnant Animal
	<b>Total</b>			<b>132000</b>	

Month	Artificial Insemination			Confirm Pregnancy			Conception Rate %
	Cow	Buff	Total	Cow	Buff	Total	
Oct-20	21	31	52	10	19	29	56
Nov-20	7	40	47	3	22	25	53
Dec-20	16	50	66	7	30	37	56
Jan-21	31	40	71			0	0
Feb-21	16	29	45			0	0
Mar-21	19	12	31			0	0
<b>Total</b>	<b>110</b>	<b>202</b>	<b>312</b>	<b>20</b>	<b>71</b>	<b>91</b>	<b>29</b>



Note: The Animal Husbandry department's Bharuch district artificial insemination rate is 42%.

### Linkages with Government Scheme

#### Objective:

- Beneficiaries avail the benefits of Govt. schemes
- Promotion of Natural Farming

Adani Foundation Dahej facilitated animal holder **4 beneficiaries of Jageshwar, Luvara and Lakhigam village** for Govt. of Gujarat's Scheme **Assistance to Pastoralists on purchase of Power Driven Chaff cutter**

Into these animal holder 2 beneficiaries Mrs. Rakshaben V. Patel and Mrs. Daxaben M. Patel got **75% subsidy** in purchase power chaff cutter. Total price of one chaff cutter is **Rs. 27950/-**.



Pashudhan Program's beneficiaries having agriculture land registered On 11th Aug under Govt. scheme are getting benefits.

Adani Foundation Dahej facilitated these **3 beneficiaries** for Govt of Gujarat's Scheme to assist a farming family engaged in **full natural farming based on indigenous cows in maintenance cost for one cow (2020-21)**.

These beneficiaries are: Shri Manjulaben Anopsinh (widow), Atali; Mr.Balvantsinh Chouhan, Atali and Mr.Yogendrasinh Chauhan, Atali. Beneficiaries are getting **Rs.900 per month** maintenance cost of cow.

Cheque No.		Withdrawal	Deposit	Balance
79-04-2019	BY CASH			
15-04-2019	SMS charges APR-2019			
05-07-2019	Int Paid: 29-04-2019 TO 30-04-2019	17.70		500.00 Cr
30-08-2019	SMS charges JUL-SEP19		5.00	482.30 Cr
17-09-2019	FROM 29-04-2019 TO 28-07-2019	17.70		464.60 Cr
		54.00		408.60 Cr
C/r Bal: 408.60		Unc/r Bal: 0.00		
05-10-2019	Int Paid: 01-02-2019 TO 01-02-2019			
04-11-2019	SMS charges OCT-2019	17.70		390.90 Cr
18-12-2019	FROM 29-07-2019 TO 28-10-2019	54.00		336.90 Cr
02-01-2020	Int Paid: 02-10-2019 TO 31-12-2019		3.00	333.90 Cr
06-02-2020	NEFT-RBI057074012152-DISTRICT TREASURY, E	17.70	15600.00	15933.90 Cr
13-03-2020	SMS charges JAN-MAR20	54.00		15393.90 Cr
18-03-2020	FROM 29-10-2019 TO 28-01-2020		70.00	15463.90 Cr
08-04-2020	Int Paid: 01-01-2020 TO 31-03-2020		67.00	15530.90 Cr
11-04-2020	Int Paid: 01-04-2020 TO 31-05-2020	17.70		15513.20 Cr
19-06-2020	SMS charges APR-2020		97.00	15610.20 Cr
04-09-2020	Int Paid: 01-06-2020 TO 31-08-2020	17.70		15592.50 Cr
16-09-2020				
07-10-2020	NEFT-DUMS2020124743-PRODUCCT DIRECTOR BNY		7700.00	16362.50 Cr
27-10-2020				14662.50 Cr



### CATTLE BREEDING CENTRE

BAIF Institute for Sustainable Livelihoods & Development (BISLD), Gujarat established Cattle Breeding Centre at Dahej village. 1 Officer in Charge and 1-part time Coordinator are appointed for the project. This centre is equipped with cryogenic containers for frozen semen and liquid nitrogen supply. Artificial insemination is provided at doorsteps of beneficiaries on participatory basis.

AI, PD, Calving Details Oct 2020 to Mar 2021													
S.N	Village	AI			Examination			Pregnant			Calving		
		Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total
1	Lakhigam	1	40	41	2	24	26	2	16	18	7	20	27
2	Luvara	15	47	62	10	32	42	9	15	24	3	9	12
3	Jageshwar	0	15	15	1	9	10	1	6	7	4	6	10
4	Ambheta	0	1	1	0	0	0	0	0	0	0	2	2
5	Dahej	14	43	57	11	29	40	8	20	28	17	28	45
6	Jolva	0	1	1	0	1	1	0	1	1	0	0	0
7	Suva	0	3	3	0	2	2	0	2	2	0	0	0
8	Rahiyad	0	6	6	0	0	0	0	0	0	0	5	5
9	Koliyad	2	5	7	11	8	19	7	6	13	4	15	19
10	Atali	3	7	10	4	10	14	2	8	10	1	1	2
11	Vegni	59	5	64	52	3	55	22	3	25	19	6	25
12	Kaladra	16	29	45	8	27	35	6	20	26	3	6	9
	<b>Total</b>	44	121	312	41	22	244	28	13	154	26	42	156

Sex Sorted Semen Details Oct 2020 to Mar 2021												
S.N	Month	Target	Cow AI	Buffalo AI	Total AI	Cow Exam	Buffalo Exam	Total Exam	Cow PD	Buffalo PD	Total PD	No. of Beneficiaries
1	Oct	4	2	5	7	2	3	5	2	1	3	7
2	Nov	4	1	7	8	1	4	5	1	0	1	8
3	Dec	4	0	4	4	0	0	0	0	0	0	3
4	Jan	4	2	5	7	0	0	0	0	0	0	5
5	Feb	4	4	4	8	0	0	0	0	0	0	4
6	Mar	4	3	0	3	0	0	0	0	0	0	3
<b>Total</b>		<b>24</b>	12	25	37	3	7	10	3	1	4	30

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Nayanaben Jayeshbhai Ahir  
Village: Rahiyad  
Female calf: Gir



Ahir Dineshbhai Bhavanbhai  
Village: Dahej  
Female calf: Murrah



Mr. Yogendrasinh Chouhan,  
Village: Atali  
Female calf: Gir

## INFERTILITY CAMP & GENERAL HEALTH CAMP REPORT

### OBJECTIVE

- To reduce long inter-calving period by early detection of causes of infertility.
- Unproductive animals become productive.
- Better health and production by early diagnosis and treatment.

5 nos. of Infertility Camps and General Health Camps organized in Luvara, Jageshwar, Rahiyad, Koliyad & Dahej village. In these camps 162 animals of 86 beneficiaries were treated. Camps were held at 2 locations of each village. Animals were treated by Dr. AmolVagh of BAIF Institute Sustainable Livelihood Developments and Dr.Dhanajay Sinkar of KrushiVigyan Kendra, Chasvad (Bharuch). Interactive sessions were also held with beneficiaries and following points were observed.

- During rainy season grass is the main feed of animals that affects digestive system of animals and causes diarrhea.
- Due to poor post calved management Mastitis happens in new calved buffalos
- In cases of Goat there is problem of Lameness which happens due to poor bed arrangement at backyard side.
- Problem of abortion at advance stage of pregnancy happens due to fight in herd during grazing so advised to keep such animals at backyard only
- Overall Health condition of animals presented for treatment was good.
- Heifers having avg. age of 6 to 8 years are having problem of undeveloped uterine organs which is due to deficiency of Trace minerals.
- The buffalos have problem of anestrus. This might be of two factors: lack of knowledge on minerals feed and heat detection in buffalos.
- Cattle dwellers were educated about silent heat and heat sign particularly in buffalos
- Due to unavailability of veterinary aids animals are not able to get proper treatment at initial stage of disease.





S.N	Particular	Date	Village	Treated Animal	Beneficiaries
1	Infertility & General Health Treatment Camp	24-12-21	Jageshwar	36	17
2		23-01-21	Koliyad	51	15
3		25-01-21	Dahej	49	15
4		06-02-21	Rahiyad	26	21
	<b>Total</b>			<b>162</b>	<b>68</b>

### Animal vaccination (Cows & Buffalos)

#### OBJECTIVE

- To increase awareness among livestock holding families for periodic deworming
- To improve health condition of milking animals for increasing productivity
- To reduce calf mortality occurred due to heavy endoparasitic infestation

Vaccination Status					
S.N	Village Name	Beneficiaries	Cow	Buffalo	Total Vaccination
1	Lakhigam	22	46	105	151
2	Luvara	54	75	319	394
3	Jageshwar	4	8	47	55
	<b>Total</b>	<b>80</b>	<b>129</b>	<b>471</b>	<b>600</b>

### Vaccination & Deworming for Goat & Sheep

#### Objective

To reduce mortality and morbidity among goat and sheep and improvement in their health  
 Sheep and goat component is first time introduced in Pashudhan Program. Beneficiaries shared their feedback with AF team. They are very much thankful for such initiative directly related to their livelihood.



S. N	Village	Deworming				Liver Tonic				Vaccination			
		No. of beneficiaries	Sheep	Goat	Total	Beneficiaries	Sheep	Goat	Total	Beneficiaries	Sheep	Goat	Total
1	Lakhigam	5	70	104	174	5	50	102	152	4	40	60	100
2	Luvara	15	0	107	107	15	0	95	95	0	0	0	0
3	Dahej	8	40	179	219	3	36	73	109	0	0	0	0
	<b>Total</b>	<b>28</b>	<b>110</b>	<b>390</b>	<b>500</b>	<b>23</b>	<b>86</b>	<b>270</b>	<b>356</b>	<b>4</b>	<b>40</b>	<b>60</b>	<b>100</b>

## Calf Rearing Activity

### Background

The performance of any individual animal is dependent on its genetic potential and the environment. Proper breeding has increased the yield potential of our cows and buffaloes but many of these animals are unable to express their full potential for milk production due to poor growth and nutrition. Proper management of young calf is prerequisite to the success of any dairy farm. An optimal level of nutrition in early life favors faster growth and early maturity. The health of a calf directly effects the reproductive capacity as well as the milk production. The initial months in a calf's life are of the utmost importance as it forms the foundation for a high milk-yielding animal.

Calves should be reared carefully to obtain optimum gain in body weight, so that they attain about 70-75 percent of mature body weight at puberty. Poor feeding of young calves leads to higher age at first calving and overall loss of productivity in the life span.

Growth phase of the cows & buffaloes is confine to the first two years of its life. It is important that the calf is given nutritious feed in the form of concentrates or fodder right from its 4<sup>th</sup> month of age. This will ensure good milk yield when the calf becomes a cow or buffalo. The age at which feeding starts naturally becomes important and it is recommended that right from the 4<sup>th</sup> month of age concentrate feed should be made available to the calf. If the animal is introduced into the feeding schedule after the 6 month of age the desired effect may not be to the full extent. On an average it is assumed that the calf will come to puberty around 18 - 20 months of age and will become a cow by calving for the first time around 28 - 29 month of age.

### Objective of activity:

- Improving the breed and productivity of the local milch cattle
- Improving the nutritional and financial security of families engaged in dairy
- Improving the calf health

On 19<sup>th</sup> February 2021 Calf Rearing Activity held in Luvara village. Objective: Promotion of Cattle feed & mineral mixture among beneficiaries to establish an ideal management practice in animal holding families.

15 beneficiaries of 4 villages- Lakhigam, Luvara, Jageshwar & Dahej came to Luvara village for feed collection. Under the calf rearing activity, 334 kg feed distributed per beneficiary with 8 kg mineral mixture. Beneficiaries shared their feedback that these feed would help in animals' height & weight gain and that leads to pregnancy in 3 to 4 years. Calves of 3 to 6 months were selected for above activity. After one month of feed distribution measurement of calves would be taken to see the impact of the feed.

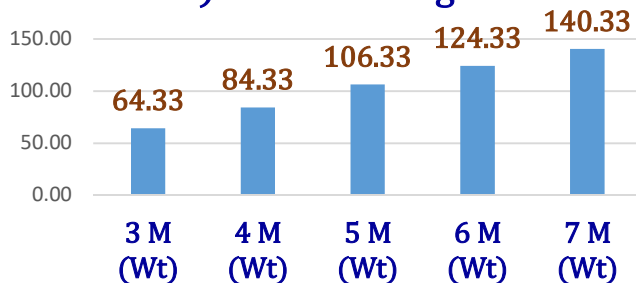




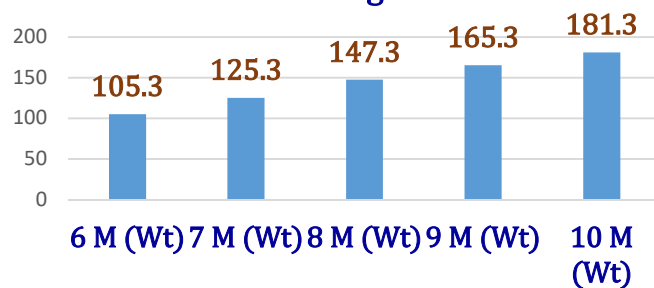
### Importance of Calf Rearing Program

- **Get their heifers milk sooner:** Dairy farmers can increase the herd size with the new replacement cows grown in their farm
- **Retain and grow the animals with improved genetics:** Dairy farmers will be able to retain good quality genetics in their farm itself. No need to purchase good genetics from outside of their dairy farm.
- Farmers will get higher price for dairy cows and buffaloes due to increased demand for good quality animals.
- If the dairy producers can develop their own animals faster, then the average production per animal can be raised with improved genetics.

**AVG WEIGHT GAIN IN GIR CALVES (AGE GROUP 3 -7 Months) in Succeeding months**



**AVG WEIGHT GAIN IN SURTI BUFF CALVES (AGE GROUP 3 -7 Months) in Succeeding months**

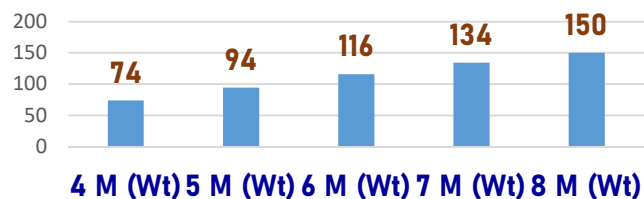


### Output / Impact:

- On an average 10-15% rise in body weight was noted during the interval.

Farmers understand that balanced concentrate ration, feed supplements, and periodic deworming are prerequisite for better growth and for early maturity

**AVG WEIGHT GAIN IN MEHSANI BUFF CALVES (AGE GROUP 4 -8 Months) in Succeeding months**



## Care & Management of Pregnant Animals

Pregnant animals require energy for growth as well as to maintain pregnancy and need to gain even more weight during the last trimester. Failure to meet these energy demands impacts the fetus in utero, colostrum production and the postpartum interval to return to estrus and rebreed. Both the growth and performance of this calf and the age (weight) of the presumptive next calf can suffer the negative consequences. During last three months of pregnancy when fetal growth is very rapid, a special pregnancy allowance of about 1-2 Kg of concentrate should be offered. Special care should be taken regarding mineral and vitamin deficiencies because they can have a serious adverse effect on the newborn calf.

Adequate health care and nutrition can ensure rapid growth of female calf as well as attaining puberty at an early age. Timely insemination of such animals can help them to calve at 2 to 2 ½ years of age. As foetus develops rapidly during last 3 months of pregnancy, adequate care needs to be taken during this time.

### Background of the program area

Most of the livestock holding families prefers to provide concentrate to lactating animals only. When their animals become pregnant of 7 months they dry their animals and at the same time stop to offer concentrate. Due to negligence during last trimester of pregnancy most of the animals faces problem of Difficulty in calving, Physiological edema before pregnancy and Retention of Placenta, Milk Fever, ketosis after calving. Undernourished cows and buffaloes also gives birth of weak calves resulting increased mortality percentage in calves.

### Objective

- Successful completion of pregnancy at term
- Birth of healthy and viable newborn with optimum birth and potential weaning body weight.
- To optimize health, lactation and reproductive performance of animals.

### Activity Input

- Balanced Concentrate ration
- Feed Supplements (Mineral Mixture)

Beneficiaries Distributed Mineral Mixture 2020-21							
S.N	Village	Beneficiaries	Total Mineral KG	Productive Animal	Pregnant animal	Heifer Animal	Total Animal
1	Lakhigam	3	15	9	4	2	15
2	Luvara	8	44	25	19	0	44
3	Jageshwar	20	80	49	28	3	80
4	Dahej	15	74	37	27	10	74
5	Suva	1	3	3	0	0	3
6	Rahiyad	15	82	38	35	9	82
7	Koliyad	5	46	25	15	6	46
8	Vegni	9	42	26	10	6	42
9	Kaladra	8	46	24	16	6	46
	Total	84	432	236	154	42	432



## Activity wise Beneficiaries Contribution

### Objective

- Beneficiaries involvement
- Sustainable growth

Beneficiaries Contribution Oct 2020 to Mar 2021								
S.N	Activity	Particular	Unit	Unit cost	Unit	Contribution Per Unit	Total Contribution	Percentage %
1	Conventional AI	Door service	AI	450	147	30	4410	7.50%
2	Sorted Semen AI	Door service	SS AI	1050	33	265	8745	25.24%
3	Animal Health care	Mineral Mixture	KG	130	432	20	8640	15.38%
4	Green Fodder Cultivation	Stump(Seed)	Nos	2	14500	0.20	2900	10%
5	Calf Rearing	334 KG feed + 8 Kg Mineral Mixture	Per Calf	10000	15	2000	30000	20%
6	Additional Income Source	Vermicomposting Tools	Per Unit	5500	5	550	2750	10%
7	Kitchen Garden	Drip Irrigation	Per Unit	5000	3	500	1500	10%
		<b>Total</b>					<b>58,945</b>	

## Animal Husbandry Training

### OBJECTIVE

To increase awareness on animal management practices

3 nos. of trainings on Animal Husbandry were held in 2 villages Jageshwar & Rahiyad. 87 beneficiaries including 54 women participated in these 3 training programs. Dr. DhanajayShikar, Veterinary Officer of Krishi Vigyan Kendra was the resource person.

#### Points of Discussion in trainings

- Animal Housing
- Breed of Animals
- Importance of Artificial Insemination
- Balanced Concentrate Formulation
- Eradication of Ectoparasites
- Calf Rearing
- Care of Pregnant Animals
- Clean Milk Production
- Diseases in Bovines
- Importance of Feed Supplements

#### Output

- Increased awareness among farmers for scientific breeding resulted increased no of insemination
- Increased awareness for feed supplements resulted gradual increase in production
- Increased awareness for health care services resulted excellent response for breeding activity & deworming program
- Become curious to know innovative technologies helps them to improve status of their animals and production
- Concentrating on heifer rearing



**Webinars:** 2 nos. of webinars organized with cattle dwellers with support of District Animal Husbandry Department, Bharuch and Krishi Vigyan Kendra, Chasvad.

## OBJECTIVE

To provide platform for farmers to share information about modern scientific practices in Cattle Management

**Webinar with support of District Animal Husbandry Department, Bharuch** organized on 6<sup>th</sup> October, 2020 with 30 beneficiaries including 15 women.

### Points of Discussion

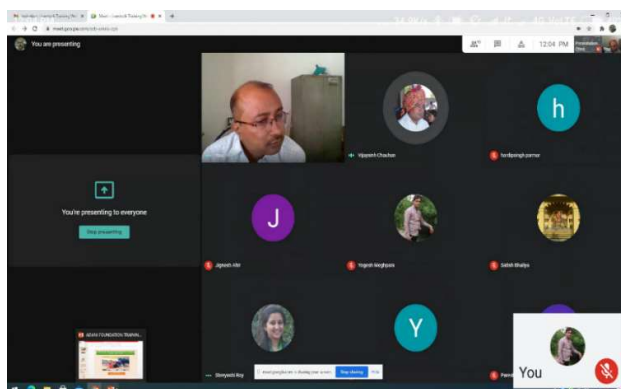
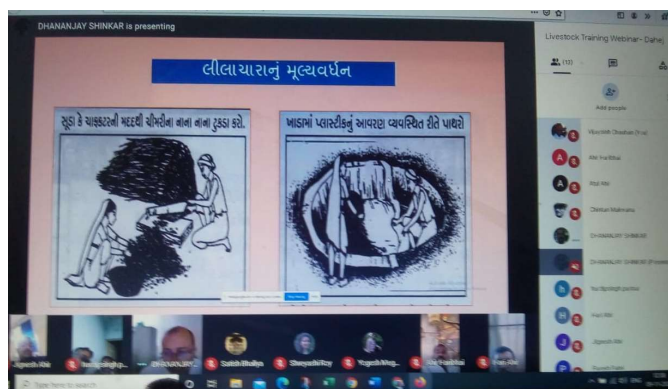
- Uses and benefits of sorted semen
- Artificial Insemination
- Significance of calf rearing program
- Procedure of green fodder storage (Sillage procedure),
- Difference between AI & Natural method
- Demerits of open grazing, relevant Govt. schemes and steps for registration in Govt schemes

**Webinar with support of Krishi Vigyan Kendra, Chasvad** organized on 9<sup>th</sup> November, 2020 with 22 beneficiaries.

Mode: Power point presentation & video

### Points of Discussion

- Importance of drinking water for animals
- Different types of animal feeds
- Vaccination
- Methods of urea treatment
- Silage treatment
- Appropriate time for AI & PD
- Calf rearing



## GREEN FODDER CULTIVATION

### OBJECTIVE

- To create awareness among farmers for fodder crop varieties
- Inculcate fodder cultivation practices among cattle dwellers in available space

Green fodder availability in project villages is a big challenge. Most of the beneficiaries purchase green fodder from Bharuch. To get acquainted with fodder cultivation farmers went on an exposure visit to Krishi Vigyan Kendra, Chasvad and BAIF's Adivasi Taleem Kendra, Lachhakadi, Netrang. Fodder stumps were distributed among the beneficiaries but very few of them cultivated in their land. AF team's continuous interaction and monitoring brought a hope among them. In 2020 -21, 14500 nos. of stumps were distributed among 21 beneficiaries of 3 villages Luvara, Jageshwar and Rahiyad. Beneficiaries shared their experiences



with AF team. They said they cultivated fodder stumps in available land and now they are getting good yield. Their fodder expenses are plunging.

Savings from Green Fodder Cultivation					
S.N	Name	Village	Land in Sq.m	Quantity(in ton)	Income(in Rs.)
1	Jitubhai R. Gohil	Lakhigam	101.20	17.10	100100
2	Rakshaben V. Patel	Jageshwar	505.90	18.70	108500
3	Gema Badharbhai	Lakhigam	101.20	6.10	36100
4	Hamirsinh K. Parmar	Luvara	303.51	15.50	90500
	<b>Total</b>			<b>57.40</b>	<b>3,35,200</b>



### Impact

- Awareness created among farmers for fodder cultivation
- Availability of green fodder helps to meet out requirement of fodder for growing and milking animals
- Health condition of animals improved
- Milk production is increased which is always reducing due to scarcity of fodder

### Beneficiaries Feedback

Overall farmer's response for this initiative is found very positive. Farmers admitted that after feeding green fodder as per requirement of animals helps to increase milk production and improvement in health condition of animals.

## SUCCESS STORY

### Pashudhan Program gave us a new life in Lockdown

Cattleman: Sudhirbhai Patel

Age: 47 years

Family members: 5 (husband, wife, 1 daughter, 1 son & mother)

Resident: Village – Luvara, Taluka – Vagra, District: Bharuch

Profession: contractual worker with Shreeji Enterprises Private Limited, SEZ, Dahej

Livestock owned: 2 cows, 5 buffalos & 9 calves

Sudhirbhai is a progressive cattleman of Luvara. Although he is a contractual worker in a nearby company Shreeji Enterprises Private Limited but animal care is in their blood. **As Sudhirbhai says 'before Adani Foundation's project we moved distant places for animals' treatment. We lost many animals due to lack of services on time. Now we are getting Taleem & Services at our doorsteps. Our Pashudhan graph is in upward direction and so the income graph.**



Adani Foundation has given one chaff cutter machine on group basis. Sudhirbhai is using this machine happily. Now use of chaff cutter has reduced his fodder expenses by 30 per cent and chopped forage increase the utilization and digestion of animals.

**Sudhirbhai shared his experiences of lock down due to COVID 19. He said "In normal days I earn Rs. 10,500/ per month from my job but in lock down it became zero. Milk selling was the only source of our bread and butter. I am very much thankful to Adani Foundation for this Animal Husbandry project. It is an alternate source of our livelihood. Now I understand the importance of cow dung too. I could never have thought that cow dung can enhance our income. My family members engage themselves not only in vermi compost production but its use in our small kitchen garden also. This project keeps me so much involved that I hardly get time to mingle with those people who have the habit of alcohol. In short, I can say Animal Husbandry Project keeps you informed, healthy and wealthy."**

Sudhirbhai's family is enjoying a good socio-economic status in the village. He has his own house, motorcycle and his two children are studying in Govt. schools. His daughter is in 9<sup>th</sup> Standard and son in 7<sup>th</sup> standard.



### Pashudhan Program: a bonus for livelihood

The village of Koliyad is located in the border of Bharuch district, almost 49 kms away from the district headquarter Bharuch. It is in close proximity to the river and is home to various communities like Ahir, Rajput, Koli, Patels. There is a scarcity of agricultural land in this areas due to presence of many industries and one of the main occupations of many communities is making salt from the river water.

Hardipsinh Gambhirsinh Parmar is a 32-year-old man who had studied up to 10<sup>th</sup> standard although his native is Panchmahalay, he has been residing alone in this village for 18 years. Working initially as a daily wage labourer he always desired to work for livestock development. When the entire country underwent demonetisation in 2016 he had 5 buffaloes and 5 cows gave 9 litres of milk daily. Lacking proper knowledge and skill about cattle development he was unable to make much profit from this. He would earn around 15,000 each month from a combination of labour work and selling milk.



The

Pashudhan project was started in the year 2017-18 with support of BAIF. It was then that Hardipsinh came to their centre to take information and guidance from the centre in charge about livestock. He was also involved in the various trainings and exposure visits conducted by the project team. After a thorough understanding he availed the Artificial Insemination facility, as he was convinced that it would lead to a better breed of calves. At present he has 4 heifers which will be calving in some time and altogether he has around 25 cattle. He has availed AI services a total of 15 times and also used the Sex-Sorted Semen which gave him a healthy female calf which is at present 6 months old.



He also avails other facilities of the project like mineral mixture to feed his animals, treating his animals at the health camps, vaccinating them on time, etc. At present, he earns around Rs. 15,000-20,000 from just livestock, and Rs. 10,000 from his job at the Asiatic Company.

The calf rally organised in 2019-20 fetched him the 3<sup>rd</sup> prize for his calf. This is why he is extremely grateful to this project and he inspires the other villagers to also avail the facilities that is being offered by the project.

## SHG/Women Empowerment

### Objective

- To make women self-dependent
- To make their family confident
- To improve quality of life of the community

### Shiv Shakti Sakhi Mandal, Jageshwar

#### Skill Enhancement Training Program

Adani Foundation organized skill upgradation training for SHG Shiv Shakti Sakhi Mandal, Jageshwar. This one-month training Program was from 15th September 2020 to 15 October 2020.

On 20th September 2020 Mr. Shailesh Singh, HR & Admin Head of Adani Dahej Port visited Shiv Shakti Sakhi Mandal. He appreciated SHG members' efforts.

During training, members upgraded their skills for different types of bags from daily utility bags to traveler's bags. They sold 22 nos bags in Jageshwar village. Now they focus on marketing strategies – demand, production, publicity. Resource person was Deepak Bhai of Bharuch. He himself runs a bag making unit named URVI BAG. Objective of this training is to prepare SHG as per market needs & attain sustainability.



#### Earning of Shiv Shakti Sakhi Mandal October 2020 to March 2021

S.N	Particular	Unit cost	Qty	Sale Price	Product cost	Net Profit
1	Cotton Face Mask	15	1045	15675	12246	3429
		17	1540	26180	9240	16940
		20	200	4000	1200	2800
	<b>Face Mask Total</b>		<b>2785</b>	<b>45855</b>	<b>22686</b>	<b>23169</b>
2	Cotton Bag	120	2	240	96	144
3	Purse	125	11	1375	550	825
4	ladies purses	130	10	1300	520	780
		150	1	150	52	98
		200	13	2600	1040	1560
5	Travel Bag	250	3	750	300	450
6	Laptop Bag	400	2	800	320	480
	<b>Bags Total</b>		<b>42</b>	<b>7215</b>	<b>2878</b>	<b>4337</b>
	<b>Grand Total</b>			<b>53070</b>	<b>25564</b>	<b>27506</b>



## Linkages with Government Scheme

**Objective:** SHGs avail the benefits of Govt. schemes & enhance their income

Shiv Shakti Sakhi Mandal, Jageshwar got

- **COTTON WICK (Pooja Batti) MAKING MACHINE**
- **Rs.12000/- Revolving fund**

on 26<sup>th</sup> December 2020 from District livelihood mission, Bharuch (Mission Mangalam).

- **Sadhdada Mahila Sakhi Mandal**, Lakhigam and **Mahadev Mahila Sakhi Mandal**, Luvara got a revolving fund of **Rs.10000/-** each from District Livelihood Mission, Bharuch.



## Entrepreneurship Awareness Workshop

10 members of Sadhdada Mahila Sakhi Mandal, Lakhigam attended Entrepreneurship Awareness Workshop organized by Center for Entrepreneurship Development (CED), Ahmedabad. This online workshop was conducted by Mr. Dharmendra Patel (Sr.Training Coordinator) of CED.

**Topics covered:** Introduction of CED, Objective of CED, Necessary requirements for training, and Benefits of CED certification two types of training: part 1 is of 30 days and part 2 is of 15 days of training



## Entrepreneurship Development Training Program

10 members of **Sadhdada Mahila Sakhi Mandal**, Lakhigam has completed through Entrepreneurship Development Training program. This training program is organized by **Centre for Entrepreneurship Development (CED), Ahmedabad**. This online training is of 15 days **23rd November to 07 December 2020**.



### Topics covered

✚ What is entrepreneurship	✚ Personnel Management
✚ Business opportunity guidance	✚ Experience sharing of succeed Entrepreneurs
✚ Important aspects for selecting business	✚ Financial Management
✚ Scheme for other financial institutions	✚ Fixed & Working Capital
✚ Loan applications & disbursement	✚ Computer in Business
✚ Marketing research & survey	✚ Project report preparation
✚ Marketing management	
✚ Whom to contact & where to contact	
✚ Project report preparation	
✚ Accounting Management	
✚ General Management	

## Output

Sadhdada Mahila Sakhi Mandal became confident for IG activity. Members are going to start Amul parlour at Lakhigam with a contribution of Rs. 75000. AF provides a support of Rs.3.50 lacs in form of cabin, furniture, fridge and freezer.

- Group has started snacks making IG activity and completed an order of 2600 packets of snacks @ Rs.30/- and 300 packets of snacks @ Rs.40/- by Adani Foundation

## Mahadev Mahila Sakhi Mandal, Luvara

### Income Generation from Vermi Compost

Mahadev Mahila Sakhi Mandal, Luvara members first time sold to vendor on August, 2020. Vendor supplies vermi compost in nearby companies.

SHG members had **earned Rs.1,11,240/-** in last six months. This is the only SHG of Bharuch District who has opted Vermi compost production as their INCOME GENERATION ACTIVITY. Taluka Livelihood Manager Mrs. Jyotiben & their team highly appreciated the members. Livelihood Mission has acclaimed Adani Foundation for their sustainable livelihood initiatives in project villages.



### Month wise earning

Sr. N	SHG Name	Oct-20		Nov-20		Jan-21		Feb-21		Mar-21		Total Qty	Total Income
		Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
1	Mahadev Mahila Sakhi Mandal	1.50	9000	2.00	12000	1.02	6120	3.12	18720	3.10	18600	10.74	64440

## Formation of New SHG

Meetings with women held in Jolva villages for formation of new SHGs. These women have been not associated with any SHG so far. We have conducted 4<sup>th</sup> meeting with women group.

### Points of discussion

- Adani Foundation's CSR activities in villages
- What is SHG and how it is related to women empowerment
- Process of SHG formation
- Interest areas of women for income generation activities

### Outcome of the meetings

- 10 women agreed to form an SHG in Jolva village.
- Women group decided name of SHG is Ekta Mahila Sakhi Mandal, Jolva





## Linkages with Government Office

### Field visit of Kushi Vigyan Kendra(KVK) Team

Mr. Mahendra Patel (Senior Scientist, KVK) and Mr. Lalit Patil (Agronomist Scientist) and AF team conducted field visit on 26th October 2020 for core village Suva and peripheral villages Kaladra and Atali.

#### Objectives

- Explore scope of agriculture project in peripheral villages.
- Revive agriculture practices in industrial zone
- Changes in crop pattern as per the climatic conditions
- Development of green fodder in Gau Sewa Trust, Suva. This trust has 2 acres of land & 40 cows.

After field visit KVK team had a discussion with AF team on identification of 25 progressive farmers for soil testing, crop pattern. KVK will submit a proposal regarding agriculture and Suva Gawshala development.



## WOMEN'S DAY CELEBRATION

**International Women's Day** Celebrated at Dahej site with village women's, grass root Workers-Asha, Aanganwadi worker and assistants Sanginis. ANM, Primary & High School Teacher and Panchayat members. on this occasion sport events organized in 3 villagers Lakhigam, Luvara, Jageshwar.

Total 158 women of Lakhigam, Luvara and Jageshwar Village Participation in Kabaddi Kho-Kho Spoon race and musical Chair race .AF team honored all grass root workers of Health Department, Women & Child welfare Department Female teachers of primary School and High School and Female Sarpanch Sangini Vidhyaben of Lakhigam and Vanitaben of Luvara Village honored with certificate, shawl and Memento for their contribution in eradication of malnourishment.

Closing ceremony organized at assembly hall of Govt. Secondary & Higher Secondary School Lakhigam on 8<sup>th</sup> March 2021 Ms. Alkaben Bhatt School Principal Welcomed the Participants and briefed on women's Day history she encouraged women to Provide opportunity of higher studies to their daughters. On this platform She announced that now girls can enroll in classes 11<sup>th</sup> & 12<sup>th</sup> in Lakhigam School. Earlier Girls have to P.J Chheda High School, Dahej for 11<sup>th</sup> & 12<sup>th</sup>.

- Total-45 Females felicitated by AF.
- Asha: Lakhigam – 2 , Luvara-1
- Awws: Lakhigam -2, Luvara -1, Jageshwar -1
- Primary teachers: Lakhigam -11, High School: 6: Luvara-7, Jageshwar -6
- ANM-1
- Sarpanch: Jageshwar
- Sanginis: 2

Winners and runners up of kabaddi and Kho -Kho were felicitated by trophies and medals. winner of spoon race and musical chair got prizes. Referee Mr. Kiran gohil was also honoured for his valuable contribution in organized the event.

Women highly enjoyed sports event some senior women of Luvara village also Participation in spoon race- Jasuben (63), Bhanuben (54). Nanduben (55) and Savitaben (51).

In Jageshwar Village's felicitation event Mr. Sanjaybhai Chavda Taluka Panchayat Member; Mr. Vitthalbhai Patel, SMC Member, Jageshwar, Mrs. vilasben Patel, Sarpanch, Jageshwar, Mr. Jaideepbhai Talati were mainly present.

Stakeholders' highly appreciated AF for their community initiatives.

Village	Kabaddi	Kho-Kho	Spoon race	Musical Chair	Total
Jageshwar	14	18	8	10	50
Luvara	14	18	7	6	45
Lakhigam	20	18	10	15	63





## COMMUNITY ENGAGEMENT

### Support to Suva Gaushala

Under Community Engagement we are proposing to develop an Integrated model of fodder cultivation, vegetables cultivation, income generation activities and animal husbandry at GAUSHALA, Suva. This Gaushala is managed by a youth group of Suva. This youth group has 50 members. Gaushala has 49 cows, 10 calves and 1 bull and 2.8 acres' land for farming activities. In this land youths do fodder cultivation in traditional method. They do not get fodder round the year. As a result, they have to spend a big chunk on purchase of green fodder. Their problem gets escalated as in absence of boundary fodder/vegetables are destroyed by Blue Bull (Nilgai). Youth group of Suva is engaged in income generation activities – phenyl making, agarbatti/ dhoop making, gau ark, jivamrit, soaps, shampoo, hand wash. These all products are organic products. They want to escalate their skills in a professional manner. Therefore, they have requested Adani Foundation to support in fencing, soil filling and levelling of the land, seeds for fodder cultivation and vegetable cultivation and dry dhoopbatti making machine. Vegetable cultivation would be done on GANGA MA MODEL.

On Adani Foundation's request 2 scientists of Krishi Vigyan Kendra, Chasvad Mr. Mahendra Patel and Mr. Lalit Patil visited GAUSHALA and they also conducted a meeting with youth group members. These scientists have suggested to develop an integrated model. Members of the youth group are land looser. Their land is acquired by Adani Power Private Limited in 2012. Since farming and animal husbandry were main occupation so they started GAUSHALA in 2014 on Gram Panchayat's land.

<b>Objective</b>					
<ul style="list-style-type: none"><li>Develop integrated model of farming, animal husbandry and income generation activities through youth engagement.</li></ul>					
<b>Interventions</b>	<b>Outputs</b>	<b>Short-term Outcome (01-year)</b>	<b>Intermediate Outcome (1-2 Years)</b>	<b>Long-term Outcomes/Impact (2+ years)</b>	<b>Indicators/ data Sources</b>
Resources support to Gaushala: Fencing of 2.8 acres' land, seeds support and dhoopbatti making machine	2.8 acres' land & fodder/vegetables would be safe and youths will start dhoopbatti production in bulk	-Getting green fodder throughout the year -Youth's skill would be enhanced and so the income	-Improvement in animals' health - Trust would be built with the community	An integrated model of farming, animal husbandry & cottage industry would be developed	Health of animals, income of youth group

Progress so far:

- Fencing work is going on
- Ploughing work completed by Gaushala Sewa Trust
- Preliminary IN FIELD training by KVK scientists
- Youth group's had an exposure visit to KVK, Chasvad



## EMPLOYEE VOLUNTEERING PROGRAM

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

**BLOOD DONATION CAMP:** Adani Power Private Limited (APPL) and Adani Petronet Dahej Port Private Limited every year arrange Blood Donation Camp with support of Red Cross Society, Bharuch. APPL mobilized 74 youths for blood donation. The camp was organized on 24<sup>th</sup> January 2021 in APPL campus, Suva. All youths received certificate, token gift LED Lamp with logo of Adani Foundation.



**EMERGENCY PREPAREDNESS:** On the occasion of 49<sup>th</sup> National Safety Month Mr. Anirudhsinh Jethava and Mr. Dharm of EHS department conducted an awareness session on emergency preparedness with 74 students of P.J.Chheda High School, Dahej.

Session conducted on 10<sup>th</sup> March 2021 on following

- Basic firefighting knowledge
- Classification of fire
- Electric short circuit
- Cyclone, flood, earthquake
- Gas leakage by nearby industries



In SEZ, Dahej there are a lot of petro chemical industries. Incidents of fire and gas leakage are happened. Being coastal area it is prone to cyclone & flood.

## DAYS CELEBRATION

**WORLD DISABILITY DAY:** AF team visited 2 organizations Asmita Vikas Kendra, Tralsa, Bharuch and KALRAV, Bharuch. These organizations are working on DIVYANG. Asmita Vikas Kendra has rehabilitation facilities for DIVYANG. Social Defense Department, Bharuch has given the responsibility to Asmita Vikas Kendra for registration of all Diyang of the district under Govt. schemes. KALRAV is a day care centre for intellectually challenged persons with well-equipped facilities – from treatment, counselling and skill development. AF team has established a good rapport with these 2 organizations.

On World Disability Day, a PDF booklet on govt schemes for Diyang circulated among employees of Dahej Port.

3 beneficiaries of Lakhigam village: Ishwarbhai Gohil, Lakshmanbhai Rathod and Gohil Premiben registered under Govt. scheme for Bus Pass





# **APPRECIATION**

પ્રતિશ્રી,

તા. ૨૦/૧૦/૨૦૨૦

સી. એસ.આર.હેડ યુનિટ, દહેજ  
અદાણીફાઉન્ડેશન, દહેજ

વિષય:

પ્રાથમિક આરોગ્ય કેન્દ્ર, દહેજ એચ.બી.એ.વન સી.એનેલાઈઝર/સેમી ઓટો બાયોકેમેસ્ટ્રી એનેલાઈઝર તથા લિકવિડ કિટ વ્લડપ્રેશર/ડાયાબીટીસ ચકાસણી અંગેના મશીન આપવા અંગે અદાણીફાઉન્ડેશન નો આભાર બાબત...

સવિનય સહ પ્રાથમિક આરોગ્ય કેન્દ્ર, દહેજ વ્લડપ્રેશર/ડાયાબીટીસ અંગે નુ અમારા વિસ્તાર ને દયાનમાં લેતા એચ.બી.એ.વન.સી.એનેલાઈઝર/સેમી ઓટોબાયોકેમેસ્ટ્રી એનેલાઈઝર તેમજવિવિધ લિકવિડકિટ અદાણીફાઉન્ડેશન, દહેજ તરફથી આપેલ છે. જે આજુબાજુ ના દહેજ વિસ્તારના માટે ઉપયોગી નીવડશે દહેજમાં ફક્ત એક જ પ્રાથમિક આરોગ્યકેન્દ્ર આવેલ છે. દહેજ આજુબાજુ વિસ્તારના તથા ગામના લોકો સુધી આરોગ્ય અંગેની સુવિધા વ્લડપ્રેશર/ડાયાબીટીસ, કોલેસ્ટ્રોલ, ગ્લુકોઝ, હિમોગ્લોબીન અંગેની તપાસ/ ચકાસણી વિના મુલ્ય કરી આપવામાં આવશે

ભરુચ સુધી પહોંચવા ની અગવડ તથા ટેસ્ટીંગ ચાર્જ પણ વધુ લાકોને ચુકવવો પડતો ને આવવા-જવાનો સમય પણ વધુ જતો સગર્ભા મહિલાને તથા વ્લડપ્રેશર/ડાયાબીટીસ ના ઉમરલાયક પેશાબ, તથા કિશોરી આ એચ.બી.એ.વન.સી. મશીનનો લાભ લઈ શકશે દર્દી માટે ચકાસણી હવે સુલભ-અને સરળ સુવિધા મળી રહેશે. અદાણીફાઉન્ડેશન તરફથી સાથ-સહકાર મળ્યો તે બદલ અમારી પી.એચ.સી, સી.એચ.સી ટીમ તરફથી ખુબ-ખુબ આભાર...

સહી

*Pravin Kumar*

....Taluka Health Officer.....  
Taluka Health Office  
Vagra, Dist. Bharuch

પ્રતિ શ્રી,

તા. ૩૦/૧/૨૦૨૧

સી.એસ.આર.હેડ યુનિટ, દહેજ

અદાણી ફાઉન્ડેશન, દહેજ

વિષય: વાગરા તાલુકામાં પોલિયો કેમ્પ કુલ-૩ દિવસ કાર્યક્રમ હોવાથી અદાણી ફાઉન્ડેશન તરફથી વહિકલ આપવા બાબત આભાર પત્ર.

સવિનય સહ લખવાનું કે વાગરા તાલુકામાં પોલિયો કેમ્પ કુલ-૩ દિવસ નો કાર્યક્રમ તા. ૩૧/૧/૨૦૨૧ થી ૨/૨/૨૦૨૧ સરકારશ્રી નો પોગ્રામ હોય છે જેમાં વાગરા તાલુકા માં અમારી માંગણી ને દયાનમાં લઈ અદાણી ફાઉન્ડેશન તરફથી વહિકલ આપવા બાબત નો જે સાથ-સહકાર આપેલ છે આપના તરફથી દરેક વર્ષે વહિકલ અંગેનો સહકાર મળતો રહે છે, તે બાબતે અદાણી ફાઉન્ડેશન નો ખુબ-ખુબ આભાર...

સહી  
*Pravin Kumar*

Taluka Health Officer  
Taluka Health Office  
Vagra, Dist. Bharuch

પ્રતિ શ્રી,

તા. ૨૭/૩/૨૦૨૧

યુનિટ સી.એસ.આર.હેડ

અદાણી ફાઉન્ડેશન, દહેજ

વિષય: - અદાણી ફાઉન્ડેશન, દ્વારા વિશ્વ મહિલા દિવસ -૨૦૨૧ લખીગામની મહિલાઓ માટે રમતોત્સવ કાર્યક્રમ યોજવામાં આવેલ બાબત નો આભાર પત્ર...

સવિનય સહ અદાણી ફાઉન્ડેશન, દ્વારા રમતોત્સવ કાર્યક્રમ લખીગામની બહેનો માટે યોજવામાં આવ્યો જેમાં કુલ-૬૩ બહેનોએ રમત માં ભાગ લીધો હતો, વિવિધ રમતો કબડ્ડી, ખો-ખો, લીબુચમચી, સંગીત પુરશી જેવી રમતો રમાડવામાં આવી. બહેનો ને રમતો અંગે ની પ્રેરણા મળી. રમત રમવામાં ઉત્સાહ આવ્યો અદાણી ફાઉન્ડેશન તરફથી રમત રમનાર કબડ્ડી, ખો-ખો વિજેતા બહેનોને ટ્રોફી તથા લીબુચમચી, સંગીત પુરશી રમનાર બહેનોને ઇનામ વિતરણ કરવામાં આવેલ, તથા પ્રાથમિક શાળાના તથા માધ્યમિક શાળાના મહિલા શિક્ષકો આંગણવાડી વર્કર -હેલ્પર, આશા વર્કર સુપોષણ સંગીની બહેનો ને સાવ ઓઢાડી સન્માન કરવામાં આવ્યું તે બદલ અદાણી ફાઉન્ડેશન નો ખુબ-ખુબ આભાર...

સહી:

સહી  
ગ્રામ પંચાયત-લખીગામ  
તા. વાગરા, જ. ભરુચ

સરખંડ શ્રી, ગ્રામ પંચાયત લખીગામ  
તા. વાગરા, જ. ભરુચ





સરકારી માધ્યમિક અને ઉચ્ચતર માધ્યમિક શાળા, લખીગામ

મુ.પો.લખીગામ, તા.વાગરા, જી.ભરૂચ, પીનકોડ નં. - ૩૯૨૧૩૦  
નોંધણી નં. (માધ્યમિક) સમશ/૧૦૧૧-૧૬૮-ગ-૧, તા. ૧૩/૦૬/૨૦૧૧  
(ઉ.માધ્યમિક) ઉમબ /ઉમા-૩/વ.વ./સ.એ./૨૦૧૮-૧૯/ ૩૩૮૦-૮૧  
તા.૩/૭/૨૦૧૮



S.S.C. INDEX NO. 61.304

H.S.C. INDEX NO.11.235

જા.નં. - ૨૦૨૦/૫૧ ૮

તારીખ-૨૭/૦૩/૨૦૨૧

પ્રતિ શ્રી,

યુનિટ C.S.R. હેડ

અદાણી ફાઉન્ડેશન દહેજ.

વિષય - વિદ્યાર્થીઓને માટે વોલીબોલ ટુર્નામેન્ટનું આયોજન કરવામાં  
આવ્યું તે બદલ આભાર પત્ર.

સવિનય સહ ઉપરોક્ત વિષય અનુસંધાને જણાવવાનું કે અત્રેની શાળાના  
વિદ્યાર્થીઓ અને વિદ્યાર્થિનીઓ માટે અદાણી ફાઉન્ડેશન દહેજ દ્વારા ઇન્ટરસ્કૂલ  
વોલીબોલ ટુર્નામેન્ટનું આયોજન કરવામાં આવ્યું જેમાં વિદ્યાર્થીઓ અને  
વિદ્યાર્થિનીઓની વિજેતા ટીમને ટ્રોફી અને પ્રોત્સાહક ઈનામ આપી સન્માનિત કર્યા તે  
બદલ અમારી શાળા આપશ્રીનો આભાર વ્યક્ત કરે છે.

આભાર સહ...

*Signature*  
Principal  
Government Secondary School  
Lakhtigaon Tal. Vagra,  
Dist. Bharuch

**AMBHETA Gram Panchayat**

અંભેટા ગ્રામ પંચાયત

At.Po.-Ambheta, Tal.-Vagra, Bharuch.

મુ.પો.-અંભેટા, તા.-વાગરા, જિ.-ભરૂચ

Mo. :- 99090 15134

મો. :- ૯૯૦૯૦ ૧૫૧૩૪

તા.:- ૧૨/૦૩/૨૦૨૧

પ્રતિશ્રી,

મેનેજર સાહેબશ્રી,

યુનિટ સી.એસ.આર. હેડ,

અદાણી ફાઉન્ડેશન,

દહેજ.

વિષય :- અંભેટા ગામમાં આર્થિક રીતે પછાત કુટુંબોમાં મચ્છરદાની તથા  
પ્લાસ્ટીકની ચતાઈનું વિતરણ કરવા બદલ આભાર દર્શાવે.

સવિનય જય ભારત સહ ઉપરોક્ત વિષયના અનુસંધાને સરપંચશ્રી અંભેટાનું આપ સાહેબશ્રી  
ને જણાવવાનું કે,

મોજે :- અંભેટા, તા. :- વાગરા ગામમાં અદાણી ફાઉન્ડેશન દ્વારા આર્થિક રીતે પછાત કુટુંબોમાં  
મચ્છરદાની તથા પ્લાસ્ટીકની ચતાઈ નું વિતરણ કરવામાં આવેલ છે. જે ખુબ પ્રશંસનીય છે. જે બદલ અંભેટા  
ગ્રામ પંચાયતના સરપંચશ્રી તથા ગ્રામજનો તરફથી આપ સાહેબશ્રીને તથા અદાણી ફાઉન્ડેશન નો ખુબ ખુબ  
આભાર માનીએ છીએ.

વધુમાં ભવિષ્યમાં પણ આવા સામાજિક સહાયના કાર્યો આપની કંપની તરફથી ગામને મળતો રહે તેવી  
અભ્યર્થના સહ.

p.jelundh

સરપંચશ્રી

ગ્રામ પંચાયત અંભેટા

મુ.પો.અંભેટા, તા.વાગરા





## અદાણી ફાઉન્ડેશન દ્વારા લુવારા ગામમાં દુધાળા પ્રાણીઓ માટે જનરલ હેલ્થ અને વંધ્યત્વ નિવારણ કેમ્પનું આયોજન



આધુનિક યુગમાં પણ દુધના એક્ટીવીટી ચલાવવામાં આવી રહી બીમાર ૩૬ પ્રાણીઓની સારવાર ઈપીડી ક્રીટ ઉપયોગ અને તેના ફાયદા ઉપયોગ માનવ જીવન માટે અતી છે. જેના ભાગરૂપે લુવારા ગામમાં કરવામાં આવી હતી. બીએઆઈએફ વિશે સરળ રીતે સમજાવ્યું. આવશ્ય છે. તેમ છતાં પણ આપણે પ્રાણીઓ માટે જનરલ હેલ્થ અને સંસ્થા સસ્ટેઈનેબલ આજીવિકા લાભાર્થીઓએ કહ્યું 'ગર્ભવતી પ્રાણીઓ કાળજી લેવાની તકલીફ વંધ્યત્વ નિવારણ કેમ્પનું આયોજન વિકાસ વડોદરાના ડો.અમોલ વાધ પ્રાણીઓની સંભાળ રાખવામાં તે ઉદાત્તા નથી. તેવા સમયમાં અદાણી તારીખ ૦૭/૦૮/૨૦ નારોજ દ્વારા પ્રાણીઓની સારવાર કરવામાં સારું ઉપયોગી સંબંધિત થાય છે. ફાઉન્ડેશન દ્વારા છેલ્લા ત્રણ વર્ષથી કરવામાં આવ્યું હતું. જે ગામમાં બે આવી હતી. કેમ્પમાં લુવારા ગ્રામ પંચાયતના દહેજ આસપાસના ૧૩ ગામમાં અલગ અલગ વિસ્તાર જેવાકે અહિર પ્રારંભિક ગર્ભાવસ્થા નિદાન સરપંચ શ્રી રામસુંગભાઈ રાઠોડ પણ પ્રાણીઓ માટે પશુધન પ્રોગ્રામ ફળીયા તેમજ મહાદેવ મદિરની (ઈપીડી) ક્રીટ સત્રમાં શ્રી શંભુભાઈ ઉપસ્થિત રહ્યા હતા. તેમણે અદાણી ચાલાવવામાં આવી રહ્યો છે. પશુધન બાજુમાં કેમ્પનું આયોજન કરેલ હતું. દેસાઈ, જિલ્લા સંયોજક - બીએએફ ફાઉન્ડેશનના પશુધન કાર્યક્રમની ખૂબ પ્રોગ્રામમાં અલગ અલગ પ્રકારની આ કેમ્પમાં ૨૪ લાભાર્થીઓના દ્વારા રજૂ કરવામાં આવી હતી. તેમણે પ્રશંસા કરી.

## અદાણી ફાઉન્ડેશન દહેજ દ્વારા પ્રોત્સાહિત મહાદેવ મહિલા સખી મંડળ, લુવારા દ્વારા વર્મીકંપોશ્ટ ખાતર વેચાણ



મહાદેવ મહિલા સખી મંડળ, લુવારા દ્વારા તાજેતરમાં વર્મીકંપોશ્ટ ખાતર વેચી આવકનો એક નવો સ્રોત ઉભો કરેલ છે. ઉપરાંત આસ-પાસની કંપનીઓમાં ખાતરનાં વેચાણ માટે જાહેરાત કરી હતી. તેમને લુવારા ગામના સભ્યોનો સાથ સહકાર પણ સારો એવો મળી રહેલ છે. નજીકના ગામનાં દલસુખભાઈ કે જે આસપાસની કંપનીઓમાં ખાતર પહોંચાડવાનું કામ કરે છે. તેને ૩.૩ ટન વર્મી ખાતર વેચવામાં આવ્યું હતું અને મંડળની બહેનોને વળતરરૂપે રૂપિયા ૧૮૮૦૦ મળ્યા હતા. અદાણી ફાઉન્ડેશન દહેજના સહયોગ અને પ્રોત્સાહનથી આ સેલ્ફ હેલ્પ ગ્રુપની રચના ડેબ્રુઆરી ૨૦૨૦માં કરવામાં આવી હતી. તેમણે એકવાર નવસારીના લડવાખાડી આદિવાસી તાલીમ કેન્દ્રની મુલાકાત પણ કરાવવામાં આવી હતી અને મુલાકાત બાદ તેઓએ તેમના ઈન્કમ જનરેશન માટે વર્મી કંપોશ્ટ ખાતર પેસંદ કર્યું હતું. આના પહેલા તેઓ ગોબર ફેંકી દેતા હતા અને હવે તેઓ કંપનીઓમાં વર્મીખાતર વેચી રહ્યા છે અને ગામની અન્ય મહિલાઓ માટે પ્રેરણારૂપ બન્યા છે.

## અદાણી ફાઉન્ડેશન - દહેજ દ્વારા

# ૧૩ ગામોના પશુપાલકો માટે ઓન લાઈન તાલીમનું આયોજન કરાયું

## પશુપાલન પર નભતા પરિવારો માટે અદાણી ફાઉન્ડેશનનું પ્રશસ્ત કદમ

સમયસર ન્યુઝ, જંબુસર ગ્રામ્ય વિસ્તારોમાં પશુપાલક વ્યવસાય લોકોએ પુરક વ્યવસાય તરીકે સ્વીકાર્યો છે. પોતાનાં અમુલ્ય પશુધનને કેમ જાળવવું? તે અંગેની જાગૃતિ માટે દહેજ સ્થિત અદાણી ફાઉન્ડેશન દ્વારા સમયાંતરે વિવિધ કામો હાથ ધરાય છે. તદ્દનુસાર તાજેતરમાં પશુપાલન વિભાગ જિલ્લા પંચાયત-ભરૂચના નેતૃત્વમાં દહેજ વિસ્તારના ૧૩ જેટલા ગામોમાં પશુપાલક ભાઈ-બહેનોને માટે સૌ પ્રથમવાર ઈન્ટરનેટના માધ્યમથી પશુપાલન અંગેની તાલીમનું આયોજન કરવામાં આવ્યું હતું. માનવ માટે દુધ એ આવશ્યક પૌષ્ટિક આહાર ગણાય છે. દુધ વિનાના માનવ જીવનની કલ્પના કરવી મુશ્કેલ છે. ગ્રામ્ય સ્તરે પશુપાલન થકી દુધ ઉત્પાદન રોજગારીનું પુરક સાધન ગણાય છે.

આજના સમયમાં સમાજમાં ઘણો ખરો ભાગ પશુપાલન ઉપર નિર્ભર છે. ત્યારે પશુધનની સાર-સાંભળ પણ એટલી જ મહત્વની બની રહે છે. આ બાબતને ધ્યાનમાં લઈ દહેજના અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા ત્રણ વર્ષથી દહેજ અને આજુબાજુના ૧૩ જેટલાં ગામોમાં પશુધન પ્રોગ્રામ ચલાવાય છે. જે અંતર્ગત અલગ અલગ પ્રકારની પ્રવૃત્તિઓ કરવામાં આવી રહી છે. સમયની માંગને અનુસરી કોવિડ-૧૯ના સમયમાં પશુપાલકો એકસાથે એકત્ર નહિં કરતાં કોરોના ગાઈડલાઈન અનુસાર અદાણી ફાઉન્ડેશન દ્વારા તાજેતરમાં ડો.આર.એન.નાઈ પશુપાલન નિયામકશ્રીની રાહબરી હેઠળ પશુપાલકો માટે ઓનલાઈન તાલીમનું આયોજન કરવામાં આવ્યું હતું. જેમાં યુનિટ સી.એસ.આર. વડા ઉષાબેન

મિશ્રા તેમજ તેમની ટીમ અને ૩૦ લાભાર્થીઓ (૧૫ પુરુષ ૫ સ્ત્રીઓ અને ત્રણ જુથોમાં ૧૦ મહિલાઓ) જોડાયાં હતાં. પશુપાલન તકનીકી પદ્ધતિની તાલીમ આપવામાં આવી હતી. જેમાં કૃત્રિમ બીજદાન (એ.આઈ.)નો ઉપયોગ અને લાભ, વાછરડાં ઉછેરનું મહત્વ, લીલો ઘાસચારો સંગ્રહની પ્રક્રિયા (સાઈલેજ પ્રક્રિયા), એ.આઈ. અને કુદરતી પદ્ધતિનું મહત્વ, પશુધનને ખુલ્લામાં રાખવું કેટલું સલામત છે, સરકારની યોજના અંગે સમજૂતિ અને કઈ રીતે રજીસ્ટ્રેશન કરી શકાય જેવી તાલીમના મુદ્દા વણી લેવામાં આવ્યા હતા. આ તાલીમમાં ડો. આર.એન.નાઈ પશુપાલન નિયામકશ્રીએ રસપ્રદ માહિતી આપી હતી. તેમ ફાઉન્ડેશનના જતિન ભદ્રેશાએ જણાવ્યું હતું.



## અદાણી ફાઉન્ડેશન દ્વારા દહેજ વિસ્તારમાં સામાજિક વિકાસની પ્રવૃત્તિ હેઠળ લાભાર્થીઓને સરકારી યોજનાઓનો લાભ અપાયો

અદાણી ફાઉન્ડેશન દ્વારા દહેજ વિસ્તારમાં સામાજિક જવાબદારીના ભાગરૂપે અસરગ્રસ્ત લાભાર્થીઓને વિશાળની પ્રવૃત્તિ પોર્ટની નજીકના ગામોમાં કરી રહીયા છે. જે પ્રવૃત્તિમાં ભારતીય સરકારી યોજનાઓનો લાભ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

૧. ભરૂચ જિલ્લા રોજનાર મિશન દ્વારા જાહેર ગામના શીવ શકતી મહીલા સમીતિ મંડળ ને રોજગારી ના ભાગરૂપે ૨૦ મહીલા વાટ (પુષ્કા બહી) બનાવવાનું એક મહીલા મંડળને સમર્થન મળ્યું. જે સમીતિ મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

૨. ભરૂચ જિલ્લા રોજનાર સમીતિ સહાયતા મંડળ દ્વારા લાભાર્થીઓ ને મિશન દ્વારા લાભાર્થીઓને સહાયતા મળી રહે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

૩. જાહેર ગામના પશુપાલન મંડળ દ્વારા લાભાર્થીઓને સહાયતા મળી રહે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

૪. અદાણી ગામના ગણ સમીતિ દ્વારા લાભાર્થીઓને સહાયતા મળી રહે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.



લાભાર્થીઓ ને ગ્રામીણ મેરીટ કરતા સૌંદર્ય, શિ બળતંત્ર સૌંદર્ય, સહાય મારે ઉપરોક્ત જણાવેલ મેરીટનો લાભ મળી રહે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

૫. અદાણી ફાઉન્ડેશન દ્વારા લાભાર્થીઓને સહાયતા મળી રહે તેવા પ્રયત્નો કરવામાં આવ્યા, જેમાં નીચેના પ્રમાણમાં છે.

## નબીપુર પ્રાથમિક કુમારશાળાની કમ્પાઉન્ડ દીવાલ અને પ્રવેશદ્વારના કામનું ખાતમુહૂર્ત



ભરૂચ જિલ્લાના નબીપુર ખાતે આવેલી પ્રાથમિક કુમાર શાળામાં કમ્પાઉન્ડ દીવાલ અને પ્રવેશદ્વાર જઈ રીત હાલમાં થઈ ગયું હતું જેનો જીલ્લાધ્યક્ષ કરવા માટે અદાણી ફાઉન્ડેશન આગળ આવ્યું હતું. જે સ્વરૂપે આજરોજ અદાણી ફાઉન્ડેશન તરફથી ઉદ્ઘાટન મિશ્ર તથા મહેન્દ્રસિંહ સિંઘા ઉપસ્થિત રહ્યા હતા. આ પ્રસંગે શાળાની એસએમસીના પ્રમુખ સલીમભાઈ કડુજી, કમિટીના સભ્યો, પ્રા.કુમારશાળા નબીપુરના આચાર્ય ઈલાબેન રાણા, શાળાનો સમગ્ર સ્ટાફ, નબીપુર ગામના સરપંચ, તલાટી, ગામ પંચાયતનો સભ્યો તથા ગામના આગેવાનો પણ હાજર રહ્યા હતા. અદાણી ફાઉન્ડેશન દ્વારા ગામના વિકાસમાં ભાગીદાર બનતા ગામમાં ખુશીનો માહોલ જોવા મળ્યો હતો.

## વાગરાના લખીગામ ખાતે ક્રિકેટ ટુર્નામેન્ટનું આયોજન



(ક્રિકેટ ટુર્નામેન્ટ) ના ઉદ્દેશ્યમાં ફાઉન્ડેશન દ્વારા મદદ કરીયુવાનો કરવામાં આવે છે. આ ટુર્નામેન્ટમાં મનોજ કટાર COO, અદાણી પેટ્રોનેટ જુસ્સો વધારવામાં આવ્યો છે. યુવાનોનો ઉત્સાહ વધારવા ગામના (દહેજ) પોર્ટ પ્રા.લી., લખીગામના લખીગામના યુવાનો દ્વારા વીલો દ્વારા સીનીયર સીડીઝની સરપંચ સતીષ ગોસ્વિ, ગ્રામ કોરોનાની ગાઈલાઈનનું પાલન એક ક્રિકેટ ટીમ બનાવીને ક્રિકેટ પંચાયતના સભ્યો, એચ.આર. હેડ કાવવામાં પણ આવે છે. જે પ્રમાણે ટુર્નામેન્ટમાં ભાગ લીધે હતો.

શૈલેષ સિંઘ, ઉષા મિશ્રા, દહેજ મેલાડીઓને તેમજ ટ્રાંઝિમિશને અદાણી ફાઉન્ડેશન દ્વારા સી.એસ.આર. હેડ અને અદાણી ફાઉન્ડેશન માલિકા ઉપયોગ કરવો, બનાવવામાં આવેલ સમદાદા

વાગરા તાલુકાના લખીગામ ભાગ લીધે હતો. જે ટુર્નામેન્ટને ફાઉન્ડેશનની ટીમ ઉપસ્થિત રહી ભોડી ટેમ્પેરેચર માપવામાં આવે છે. મહિલા સમીતિ દ્વારા તૈયાર થયેલ મંડળ દ્વારા લખીગામમાં ક્રિકેટ અદાણી ફાઉન્ડેશન અને અદાણી હી. આ ટુર્નામેન્ટમાં લખીગામની તેમજ સેનેટરીઝરનો ઉપયોગ અને કાર્યક્રમ તાલુકા ક્રિકેટ ટુર્નામેન્ટના ટુર્નામેન્ટની સહાયતા કરવામાં આવી પેટ્રોનેટ (દહેજ) પોર્ટ પ્રા.લી. દ્વારા ૩૦ ટીમો ભાગ લઈ રહી છે. વર્ષ સામાજિક અંતરની જાળવણી ઉદ્દેશ્યમાં સંસ્કરણમાં આવ્યો હતો.

હી. ગામના વિવિધ કોમિયુનિટી સહયોગ કરવામાં આવ્યો હતો. ૨૦૨૧માં ટુર્નામેન્ટનું શરૂ થયું છે. —

૩૦ ટીમોના ૩૦૦ મેલાડીઓએ લખીગામ પ્રીમીયર લીગ સીઝન ૬ જેમાં દર વર્ષની જેમ અદાણી

## અદાણી ફાઉન્ડેશન દ્વારા ઈન્ટર વિલેજ વોલિબોલ ટુર્નામેન્ટ યોજવામાં આવી



અને દહેજ ઉચ્ચતર માધ્યમિક શાળાની યુવતીઓની ટીમ ઉપસ્થિત બની હતી જ્યારે યુવકોમાં દહેજ ઉચ્ચતર માધ્યમિક શાળાની યુવકોની ટીમ અને જોલવા ઉચ્ચતર માધ્યમિક શાળાના યુવકોની ટીમ ઉપસ્થિત બની હતી. વિજેતા અને ઉપવિજેતા ટીમને અદાણી ફાઉન્ડેશન દ્વારા ટ્રોફી તેમજ ઈનામ આપી ટીમ ના ખેલાડીઓને પ્રોત્સાહિત કર્યા હતા.

અદાણી ફાઉન્ડેશન પ્રયાશો થી રીતની ટુર્નામેન્ટનું આયોજન પ્રથમ અદાણી પોર્ટનાં આજુ-બાજુનાં વખત થતુ હોઈ યુવાનો-યુવતીઓને ગામોની માધ્યમિક અને ઉચ્ચતર પ્રથમ તજજ્ઞ દ્વારા વોલિબોલ માધ્યમિક શાળાના યુવક અને રમવાની તાલીમ આપવામાં આવી. મેચમાં મનોજ કટાર (COO-યુવકો તેમજ યુવતીઓ) માં રમત-શાળાની ૨૦ જેટલી ટીમો (યુવકોની ૧૬ અને યુવતીઓની ૬ ટીમો) હાજરી આપી ખેલાડીઓનો ઉત્સાહ વધારવામાં આવ્યો હતો.

કેળવવાના હેતુથી ઈન્ટર વિલેજ હતી. આ ટુર્નામેન્ટની ફાઉન્ડેશન સમગ્ર ટુર્નામેન્ટ દરમિયાન દરેક વોલિબોલ ટુર્નામેન્ટ સીઝન ૦૧ નું મેચમાં લખીગામ ઉચ્ચતર માધ્યમિક શાળાના શિક્ષકો અને આચાર્ય દ્વારા આયોજન કરવામાં આવ્યું હતું. આ શાળાની યુવતીઓની ટીમ વિજેતા ખુબ સારો સાથ સહકાર મળ્યો હતો.

## અદાણી ફાઉન્ડેશન તથા અદાણી પોર્ટ દહેજ દ્વારા આંતરરાષ્ટ્રીય મહિલા દિવસ-૨૦૨૧ની ઉત્સાહભરે ઉજવણી



**સીએસઆર હેડ ઉષા મિશ્રાએ મહિલાઓનું સન્માન કર્યું**

આંતરરાષ્ટ્રીય મહિલા દિવસની ઉજવણીના ભાગરૂપે અદાણી ફાઉન્ડેશન દ્વારા કુલ-૩ ગામો જાગેશ્વર, લુવારા,

લખીગામ રમતોત્સવનું આયોજન કરવામાં આવ્યું જેમાં કુલ-૩ દિવસ દરમિયાન રમતો રમાડવામાં આવી કબડી, ખો-ખો, સંગીત ખુરશી લીબુ-ચમચી રમતમાં કુલ-૧૫૮ બહેનો એ ભાગ લીધો જેમાં ૩ ગામના કબડીના વિજેતા ટીમને વિનર, રનર્સઅપ તથા ખો-ખોની વિજેતા ટીમને વિનર, રનર્સઅપ ટ્રોફી આપવામાં આવ્યા. સંગીત ખુરશી લીબુ-ચમચીના વિજેતા ટીમને ઈનામ આપી પ્રોત્સાહિત કરવામાં આવ્યા. આંતરરાષ્ટ્રીય મહિલા દિવસની ઉજવણીના ભાગરૂપે સ્વાસ્થ્ય વિભાગ આશાવર્કર-૩, એ.એન.એમ-૨, મહિલા પરિવાર કલ્યાણ વિભાગ દ્વારા આંગણવાડી વર્કર-૪, હેલ્પર-૪, શિક્ષા વિભાગ પ્રાથમિક-માધ્યમિક મહિલા



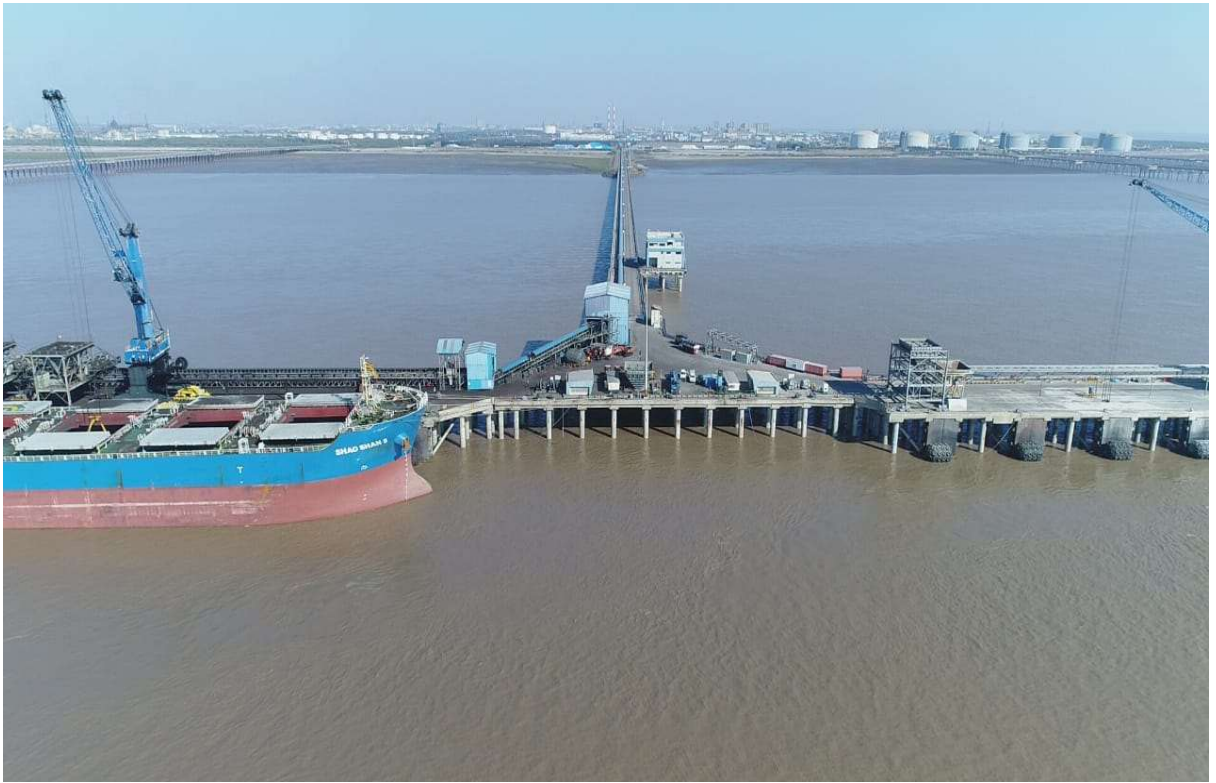
શિક્ષક-૨૮, સુપોષણ સંગીની-૨, અદાણી ફાઉન્ડેશન યુનિટ લખીગામ-લુવારા, જાગેશ્વર ગામના મહિલા સરપંચ, તમામ મહિલાઓને પ્રોત્સાહન રૂપે સાલ ઓઢાડી આપી સન્માનિત કર્યા.



આશાવર્કર, આંગણવાડી વર્કર, એ.એન.એમ, રેફરી તથા અદાણી ફાઉન્ડેશન ટીમ તરફથી કાર્યક્રમ ને સફળ બનાવવામાં સહકાર મળ્યો.

BENEFICIARIES FY 2020 - 21				
S.N	Description	No. of Beneficiaries	No. of Indirect Beneficiaries	Remarks
<b>I</b>	<b>Education initiatives</b>			
1	Project Utthan	2807	14035	14 schools of Project Utthan
2	Sports Enhancement	500	0	
	i. Lakhigam Cricket Tournament	360	0	30 teams of Lakhigam village
	ii. Volleyball Tournament for Girls	42	0	6 teams of 3 High Schools participated
	iii. Volleyball Tournament for Boys	98	0	14 teams of 7 villages participated
3	Construction of boundary wall, Nabipur, Bharuch	244	1220	
<b>II</b>	<b>Community Health Initiatives</b>			
4	Project Swasth	3670	14680	A project on awareness, screening & treatment of Life Style Diseases
5	Vehicle Support in Pulse Polio Campaign	2417	9668	Vehicle provided to CHC, Vagra team for immunization on time.
<b>III</b>	<b>Sustainable Livelihood Initiatives</b>			
6	Pashudhan Program	31400	0	Livestock management program
7	Skill Development Support	10	250	Skill development training, material support to Shiv Shakti Sakhi Mandal, Jageshwar
8	Community Engagement			
	i. Covid support	2000	10000	Ration kits, masks, soaps
	ii. Support to Suva Gaushala	50	200	Integrated model of agriculture, animal husbandry & skill development
	iii. Women's day celebration	158	790	Sports tournament for women
9	SHG Formation/Women Empowerment	33	2185	Training & material support





**Sh. Manoj Katar**

**Chief Operating Officer**

**Ms. Usha Mishra**

**Unit CSR Head**

**Ms. Varsha Pandit**

**Project Officer**

**Mr. Mahendrasinh Sindha**

**Project Officer**

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