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Half yearly Compliance report of Enviro...

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## Half yearly Compliance report of Environment and CRZ Clearance for Phase I & II of Adani

OY

Om Prakash Yadav

Wed 11/25/2020 1:39 PM

To: rowz.bpl-mef@nic.in

Cc: bharuchgpcb@yahoo.com; westzonepcb@yahoo.com; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; me

EC &amp; CRZ Clearance Complia...

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

Date: 25/11/2020

To  
The Deputy Director General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WZ),  
E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3,  
Ravishankar Nagar, Bhopal - 462036 (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 April, 2020 to September, 2020

**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-10-2007-2326-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, Farvesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382030 (Gujarat).
5. Integrated Regional Office, Gandhinagar
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt. Ltd.  
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एकीकृत क्षेत्रीय कार्यालय  
Integrated Regional Office  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,  
Ministry of Environment, Forest & Climate Change,  
भारत सरकार, भोपाल  
25/11/2020



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

Date: 25/11/2020

To

The Deputy Director General of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WZ),  
E-5, Kendriya Paryavaran 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 **April, 2020 to September, 2020**

- 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, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010 (Gujarat).
5. Integrated Regional Office, Gandhinagar
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt Ltd  
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**Adani Petronet (Dahej) Port  
Private Limited**

**From: April, 2020  
To : Sept., 2020**

**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: APRIL, 2020 TO SEPTEMBER, 2020)**

**M/s. Adani Petronet (Dahej) Port Private Limited  
Village Lakhigam, Taluk Vagra, Bharuch District,  
Pin Code 392130  
Gujarat**



**Adani Petronet (Dahej) Port  
Private Limited**

**From: April, 2020  
To : Sept., 2020**

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

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

<b>Sr. No.</b>	<b>Specific Conditions</b>	<b>Compliance</b>
P2(i)	All the conditions stipulated by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 shall be strictly adhered to	<b>Complied.</b> All the conditions mention by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 have been complied with. Copy of the compliance status enclosed as <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 Treatment Plant of capacity 80KL / day has been installed and is in operation.
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 450 ha. 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</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

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

<b>Sr. No.</b>	<b>Specific Conditions</b>	<b>Compliance</b>
		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.
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 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 is carried out in accordance with CRZ Notification 1991.
P2(xii), P1(xi)	There shall be no withdrawal of ground water in CRZ area for this project. The proponent should ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	<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. Copies of reports are enclosed as <b>Annexure 3B.</b>
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.**

<b>Sr. No.</b>	<b>Specific Conditions</b>	<b>Compliance</b>
	project are provided by the PWD/Electricity Department.	from PWD and Electricity Department. 1. GIDC permission dtd 19.02.2013 2. Electricity Department approval dtd 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. Roof top rainwater harvesting project design & study is ongoing.
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 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  
Solid Cargo Port Terminal Phase – I and Phase – II.**

<b>Sr. No.</b>	<b>Specific Conditions</b>	<b>Compliance</b>
	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 29.09.2020. Last revision in the DMP was done on 01.05.2020.
<b>General Conditions</b>		
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 Pollution Control Board and the Union Ministry of Environment and Forest under the Environmental (Protection) Act, 1986, whichever are more stringent.	<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>The noise monitoring results, are enclosed as <b>Annexure – 3G</b>.</li> <li>Disruption in monthly environment monitoring due to COVID-19 in month of April, 2020. Copy of Intimation mail sent to regional office of MoEF&amp;CC is attached as <b>Annexure-10</b></li> <li>Quality of treated domestic effluent is also</li> </ul>



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


<b>Sr. No.</b>	<b>Specific Conditions</b>	<b>Compliance</b>
		being monitored by NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Please refer <b>Annexure – 3F</b> . Results confirm with applicable standards.
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 Consolidated Consent and Authorization (CC&A) as <b>Annexure-8</b>
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. 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 April, 2020 to September, 2020 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 facilities and qualified manpower to carry out the testing of various environmental parameters.	<b>Complied.</b> <ul style="list-style-type: none"> <li>APDPPL has engaged M/s Pollucon Laboratories, a NABL accredited and MoEF &amp; CC recognised laboratory for environmental monitoring.</li> <li>The monitoring results for the period from April'2020 to September' 2020 are enclosed as <b>Annexure – 3A to 3H</b>.</li> <li>Disruption in monthly environment monitoring due to COVID-19 in month of April, 2020. Copy of Intimation mail sent to regional office MoEF&amp;CC is attached as <b>Annexure-10</b></li> </ul>
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	<b>Complied.</b> Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I&II)

**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
	proposal.	dated 28.11.2017.
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> 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 all location 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 FY 2020-21 is enclosed as <b>Annexure -6</b> .
P2(xi), P1(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<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 Environment and CRZ clearance, environment monitoring reports etc.</li> <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>Latest visit of Gujarat Pollution Control Board was on 08.10.2020.</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.	<b>Noted and complied with.</b> There is no change in the Phase I & II development.
P2(xiii), P1(xiii)	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	<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	<b>Noted &amp; Agreed</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
	complied with.	
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.	<b>Complied.</b> <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), P1(xvi)	The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	<b>Complied.</b> <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>

	<b>Adani Petronet (Dahej) Port Private Limited</b>	<b>From: April, 2020 To : Sept., 2020</b>
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## **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>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>CC&amp;A is obtained from Gujarat Pollution Control Board vide letter no AWH-209820 dated 19.10.2020 and valid up 16.07.2025. Copy of CCA attached as <b>Annexure-8</b></li> </ul>
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	<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 notified ecologically important and significant area present in the project vicinity.</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
	due to any of the project activities.	
P2(6), P1(11)	No effluent or sewage shall be discharged into the sea / creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises to the extent possible.	<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 April' 2020 to September' 2020 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(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>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 the environment protection.
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. All the debris has been removed.
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	<b>Complied.</b> <ul style="list-style-type: none"> <li>Construction of the project was completed on February 2011.</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
	sanitation, water supply and fuel and it shall be ensure that the environmental conditions are not deteriorated by the construction labours.	<ul style="list-style-type: none"> <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>
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>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 29.09.2020. Last revision in the DMP was done on 01.05.2020.</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</li> </ol> <p>Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I &amp; 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 &amp; II) dated 29/05/2019.</p>
P2 (16)	The construction activities in the Forest land and the Gauchar land shall be carried out as per the	<b>Complied.</b> Construction of the project was completed in

**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
	permission accorded by the concerned Authority for the said purpose	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.	<p><b>Complied.</b> Mangrove afforestation has been carried out in an area of 450 ha. Details are given below.</p> <ol style="list-style-type: none"> <li>1. 100 ha near village Dandi, Dist Surat– 2011</li> <li>2. 50 ha near village Jakhau, Dist Kutch – 2011</li> <li>3. 50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>4. 200 ha near Malpur, Ta. Jambusar – 2013-14</li> <li>5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18</li> </ol> <p>Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I &amp; 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 &amp; II) dated 29/05/2019.</p>
P1(4)	The approach road and trestle passing through the forestland shall be constructed only after obtaining necessary permissions under the relevant forest laws including the forest (Conservation) Act. further, no activity shall be carried out in the forestland or in the area having natural plantation / forest till all mandatory clearances under various Forest Acts including the Forests Conservation Act obtained.	<p><b>Complied.</b></p> <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-GJC060/2006-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>
P1(6)	The project proponent shall have to make a separate application and shall have to obtain prior clearance under the CRZ Notification for any activities other than those proposed and got approved as part of this phase I activities.	<p><b>Complied.</b> APDPPL had obtained Environmental &amp; CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.</p>
P1(8)	The project proponents shall ensure that the local people shall be provided with an alternative access to the sea in case the existing access to Rock-Bund could not be made available to them.	<p><b>Complied.</b> Alternative access to the sea is available adjoining to the project site.</p>
P1(9)	The project proponents shall ensure that the	<b>Complied.</b>

**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 period shall be reduced by proper planning and executing the construction program in time-bound manner to avoid any time over-run.	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> No ground water is being tapped by APDPPL and water demand is met through GIDC.
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 upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	<b>Complied.</b> The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as <b>Annexure – 8.</b>
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.	<b>Complied.</b> Separate budget is allocated for Environmental Management and Socio Economic activities. <ul style="list-style-type: none"> <li>• Key components of environment budget are environmental Monitoring, STP's (O&amp;M), Closed Conveyor System Maintenance and 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 compliance period April' 2020 to September' 2020 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),P	A separate environmental management cell with	<b>Complied.</b>

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

<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
1(25)	qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	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>
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.	<b>Complied.</b> Seawater and sediment is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Monitoring Report for the period April' 2020 to September 2020 is enclosed in <b>Annexure 3C &amp; 3D.</b> No significant changes observed.
P2(23),P 1(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.	<b>Being Complied</b> <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 15.05.2020 in soft copy via mail dated 20.05.2020</li> </ul>
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

**Annexure – 1:** Compliance status of the conditions by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 and by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dated 16.6.2008

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

S. No.	Condition	Compliance
1	The legal status of the forest land shall remain unchanged	<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 (CAMPA) 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 CAMPA 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

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

Fire Fighting Systems	Details
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	479Nos.
Smoke Detector	144 Nos.
Fire Bucket	68 Nos.
Emergency Siren	5 Nos.
Port Water Reservoir Pump House	5040 KL
Silo Water Reservoir Pump House	5013 KL
<b>Fire Vehicles Detail</b>	
Multi-Purpose Fire Tender - Water	10 KL
Multi-Purpose Fire Tender - Foam	1.5 KL
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





**Environment Monitoring Report for the period from April-2020 to September-2020**

**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	19/05/2020	86.33	45.32	ND*	ND*	ND*	ND*	0.66	ND*	30.28	16.60	29.49	23.45
2	22/05/2020	92.31	52.40	0.72	ND*	2.46	10.64	0.71	ND*	34.56	22.50	34.52	25.38
3	26/05/2020	79.65	40.68	ND*	ND*	ND*	ND*	0.60	ND*	18.60	18.26	38.42	21.44
4	29/05/2020	88.49	48.38	0.66	ND*	2.64	10.48	0.55	ND*	26.47	24.52	31.58	28.23
5	02/06/2020	92.65	51.38	ND*	ND*	ND*	ND*	0.71	ND*	37.35	17.40	35.64	21.28
6	05/06/2020	79.67	30.51	ND*	ND*	ND*	ND*	0.85	ND*	30.26	22.48	42.42	23.53
7	09/06/2020	91.29	48.34	0.64	ND*	2.56	10.60	0.68	ND*	40.26	25.69	37.51	25.47
8	12/06/2020	74.33	31.28	ND*	ND*	ND*	ND*	0.77	ND*	27.33	18.69	29.44	19.79
9	16/06/2020	93.49	53.44	0.86	ND*	2.42	10.46	0.98	ND*	46.25	23.40	39.58	28.24
10	19/06/2020	82.66	37.20	ND*	ND*	ND*	ND*	0.52	ND*	23.41	20.32	36.70	22.35
11	23/06/2020	90.37	49.32	ND*	ND*	ND*	ND*	0.42	ND*	32.32	16.80	40.26	26.20
12	26/06/2020	87.60	46.22	ND*	ND*	ND*	ND*	0.74	ND*	35.39	21.27	34.33	24.38
13	30/06/2020	72.77	29.44	ND*	ND*	ND*	ND*	0.39	ND*	39.48	15.63	30.48	27.56
14	03/07/2020	86.25	47.23	ND*	ND*	ND*	ND*	0.57	ND*	24.29	23.47	29.39	18.64
15	07/07/2020	64.39	24.30	ND*	ND*	ND*	ND*	0.54	ND*	43.67	16.55	35.37	28.37
16	10/07/2020	75.31	38.45	ND*	ND*	ND*	ND*	0.89	ND*	37.57	19.45	38.47	23.37
17	14/07/2020	94.28	53.44	0.78	ND*	2.40	10.84	0.98	ND*	40.25	25.22	42.67	14.37
18	17/07/2020	76.33	48.20	ND*	ND*	ND*	ND*	0.71	ND*	29.64	14.16	34.57	25.66
19	21/07/2020	87.29	39.68	ND*	ND*	ND*	10.34	0.87	ND*	36.37	22.47	37.31	21.51
20	24/07/2020	68.28	31.22	ND*	ND*	ND*	ND*	0.68	ND*	26.59	17.65	30.69	27.84
21	28/07/2020	90.26	49.26	0.84	ND*	2.64	ND*	0.38	ND*	42.31	20.07	46.19	22.59
22	31/07/2020	79.41	40.23	ND*	ND*	ND*	ND*	0.73	ND*	35.38	18.76	26.49	24.36
23	04/08/2020	88.31	46.29	0.83	ND*	2.42	10.44	0.92	ND*	41.22	12.52	34.32	25.27



**Authorized Signatory**

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008

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24	07/08/2020	75.69	43.54	ND*	ND*	ND*	ND*	0.66	ND*	24.27	14.52	29.31	22.31
25	11/08/2020	60.39	34.25	ND*	ND*	ND*	ND*	0.50	ND*	28.39	21.24	22.45	28.19
26	14/08/2020	78.35	37.58	ND*	ND*	ND*	ND*	0.81	ND*	31.53	17.88	32.85	24.32
27	18/08/2020	69.27	32.66	ND*	ND*	ND*	ND*	0.87	ND*	34.54	22.44	36.40	21.34
28	21/08/2020	89.34	47.23	0.68	ND*	2.56	10.34	0.73	ND*	38.41	24.52	40.29	26.27
29	25/08/2020	67.52	30.42	ND*	ND*	ND*	ND*	0.57	ND*	43.52	19.31	33.59	15.66
30	28/08/2020	85.62	42.33	ND*	ND*	ND*	ND*	0.82	ND*	36.28	16.61	37.38	27.25
31	01/09/2020	81.25	40.26	ND*	ND*	ND*	ND*	0.86	ND*	26.39	16.31	27.58	19.86
32	04/09/2020	94.39	55.29	0.62	ND*	2.46	ND*	0.73	ND*	34.34	23.23	32.45	27.56
33	08/09/2020	89.22	44.51	ND*	ND*	ND*	ND*	0.79	ND*	39.21	20.26	40.25	24.84
34	11/09/2020	76.59	41.61	ND*	ND*	ND*	ND*	0.66	ND*	36.24	12.62	24.34	28.44
35	15/09/2020	80.65	35.74	ND*	ND*	ND*	ND*	0.53	ND*	40.16	17.35	35.46	26.25
36	18/09/2020	92.42	53.56	0.76	ND*	2.62	ND*	0.56	ND*	25.24	21.32	30.14	23.51
37	22/09/2020	70.21	33.45	ND*	ND*	ND*	ND*	0.70	ND*	28.46	15.29	37.54	20.17
38	25/09/2020	82.61	39.32	ND*	ND*	ND*	ND*	0.92	ND*	41.24	24.28	34.23	25.88
39	29/09/2020	90.24	47.20	ND*	ND*	ND*	ND*	0.85	ND*	31.24	19.33	39.27	22.41

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

**Note:** ND\*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.1 mg/m<sup>3</sup>, Benzene as C<sub>6</sub>H<sub>6</sub>: 2 µg/m<sup>3</sup>, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m<sup>3</sup>, Arsenic as As: 2 ng/m<sup>3</sup>, Nickel as Ni: 5 ng/m<sup>3</sup>

**Note:** Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020



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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	19/05/2020	56.31	25.64	ND*	ND*	ND*	ND*	0.48	ND*	16.44	19.19	36.20	10.48
2	22/05/2020	78.62	40.22	0.56	ND*	ND*	ND*	0.30	ND*	13.66	10.65	21.51	13.44
3	26/05/2020	67.62	35.49	ND*	ND*	ND*	ND*	0.44	ND*	32.48	13.51	31.23	15.27
4	29/05/2020	60.21	28.66	ND*	ND*	ND*	ND*	0.37	ND*	23.30	18.48	26.49	11.30
5	02/06/2020	84.53	44.43	ND*	ND*	ND*	ND*	0.63	ND*	22.67	13.61	26.24	10.61
6	05/06/2020	58.35	23.32	ND*	ND*	ND*	ND*	0.55	ND*	27.57	18.64	36.54	17.21
7	09/06/2020	72.63	37.81	ND*	ND*	ND*	ND*	0.56	ND*	32.48	16.36	23.45	20.24
8	12/06/2020	48.88	19.26	ND*	ND*	ND*	ND*	0.64	ND*	21.58	12.33	21.50	15.22
9	16/06/2020	88.68	48.34	0.65	ND*	ND*	ND*	0.87	ND*	31.26	19.27	24.58	24.22
10	19/06/2020	68.56	32.64	ND*	ND*	ND*	ND*	0.19	ND*	14.54	17.27	28.23	12.59
11	23/06/2020	80.30	45.56	ND*	ND*	ND*	ND*	0.46	ND*	24.63	14.20	31.61	18.25
12	26/06/2020	73.69	36.39	ND*	ND*	ND*	ND*	0.34	ND*	20.68	10.85	20.78	16.84
13	30/06/2020	67.34	24.37	ND*	ND*	ND*	ND*	0.54	ND*	17.69	6.21	27.84	23.71
14	03/07/2020	70.23	34.27	ND*	ND*	ND*	ND*	0.48	ND*	19.63	19.20	39.33	14.57
15	07/07/2020	69.20	18.29	ND*	ND*	ND*	ND*	0.40	ND*	37.31	14.25	32.54	12.25
16	10/07/2020	58.22	21.85	ND*	ND*	ND*	ND*	0.69	ND*	41.23	12.61	29.60	16.48
17	14/07/2020	72.67	46.22	ND*	ND*	ND*	ND*	0.49	ND*	23.64	20.25	37.51	11.28
18	17/07/2020	62.66	36.52	ND*	ND*	ND*	ND*	0.34	ND*	26.37	11.22	30.50	22.70
19	21/07/2020	76.26	30.56	ND*	ND*	ND*	ND*	0.81	ND*	22.47	15.68	19.53	13.67
20	24/07/2020	57.61	24.56	ND*	ND*	ND*	ND*	0.61	ND*	18.21	22.66	27.85	21.69
21	28/07/2020	78.32	43.63	ND*	ND*	ND*	ND*	0.29	ND*	35.43	17.88	38.30	20.48
22	31/07/2020	65.31	27.22	ND*	ND*	ND*	ND*	0.23	ND*	27.50	13.52	18.45	17.89
23	04/08/2020	69.31	33.43	ND*	ND*	ND*	ND*	0.54	ND*	20.83	16.39	29.58	12.33
24	07/08/2020	57.66	19.37	ND*	ND*	ND*	ND*	0.31	ND*	30.37	9.68	21.65	10.48
25	11/08/2020	66.25	25.37	ND*	ND*	ND*	ND*	0.22	ND*	15.39	18.25	25.64	19.54
26	14/08/2020	51.29	21.30	ND*	ND*	ND*	ND*	0.32	ND*	33.52	11.36	28.66	22.20
27	18/08/2020	49.31	20.22	ND*	ND*	ND*	ND*	0.71	ND*	23.55	14.65	23.56	18.68

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28	21/08/2020	67.21	34.53	ND*	ND*	ND*	ND*	0.47	ND*	17.60	20.26	20.17	16.24
29	25/08/2020	58.61	26.71	ND*	ND*	ND*	ND*	0.36	ND*	25.60	13.58	30.43	13.20
30	28/08/2020	65.37	28.39	ND*	ND*	ND*	ND*	0.64	ND*	31.29	7.20	17.69	23.26
31	01/09/2020	50.30	25.67	ND*	ND*	ND*	ND*	0.71	ND*	13.25	11.54	21.51	15.21
32	04/09/2020	79.59	46.20	ND*	ND*	ND*	ND*	0.24	ND*	25.47	8.80	17.57	17.21
33	08/09/2020	59.24	28.55	ND*	ND*	ND*	ND*	0.33	ND*	30.43	16.17	35.38	23.44
34	11/09/2020	69.33	38.36	ND*	ND*	ND*	ND*	0.57	ND*	19.25	18.31	30.40	20.29
35	15/09/2020	75.24	33.22	ND*	ND*	ND*	ND*	0.42	ND*	12.56	12.63	22.62	14.65
36	18/09/2020	68.26	35.66	ND*	ND*	ND*	ND*	0.30	ND*	16.39	19.49	27.31	21.81
37	22/09/2020	53.55	29.43	ND*	ND*	ND*	ND*	0.58	ND*	14.58	10.30	31.54	18.36
38	25/09/2020	70.24	30.55	ND*	ND*	ND*	ND*	0.74	ND*	27.51	15.72	29.47	22.22
39	29/09/2020	76.31	37.51	ND*	ND*	ND*	ND*	0.37	ND*	24.11	17.15	23.61	25.39

**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  $\text{ng}/\text{m}^3$

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

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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	19/05/2020	63.54	30.26	ND*	ND*	ND*	ND*	0.54	ND*	26.59	10.23	16.51	12.64
2	22/05/2020	71.53	34.49	ND*	ND*	ND*	ND*	0.21	ND*	21.55	6.82	19.29	18.51
3	26/05/2020	51.51	19.69	ND*	ND*	ND*	ND*	0.34	ND*	15.23	9.59	29.21	10.81
4	29/05/2020	74.53	40.58	ND*	ND*	ND*	ND*	0.29	ND*	12.88	12.61	23.67	15.53
5	02/06/2020	76.54	40.59	ND*	ND*	ND*	ND*	0.36	ND*	18.68	8.60	15.69	17.54
6	05/06/2020	64.52	33.38	ND*	ND*	ND*	ND*	0.32	ND*	15.61	20.44	27.50	13.50
7	09/06/2020	59.26	41.30	ND*	ND*	ND*	ND*	0.50	ND*	24.36	18.46	20.68	11.64
8	12/06/2020	63.43	26.88	ND*	ND*	ND*	ND*	0.41	ND*	13.51	6.54	14.21	18.58
9	16/06/2020	70.28	39.61	ND*	ND*	ND*	ND*	0.61	ND*	35.63	14.19	17.55	21.63
10	19/06/2020	52.61	23.49	ND*	ND*	ND*	ND*	0.44	ND*	10.22	13.40	21.49	10.77
11	23/06/2020	65.63	38.43	ND*	ND*	ND*	ND*	0.30	ND*	17.55	11.65	35.19	12.61
12	26/06/2020	58.40	30.69	ND*	ND*	ND*	ND*	0.47	ND*	26.33	7.57	16.14	14.55
13	30/06/2020	62.93	21.59	ND*	ND*	ND*	ND*	0.66	ND*	20.54	10.31	22.24	16.60
14	03/07/2020	65.36	23.64	ND*	ND*	ND*	ND*	0.22	ND*	23.42	16.24	26.25	20.60
15	07/07/2020	46.52	15.65	ND*	ND*	ND*	ND*	0.25	ND*	10.31	12.40	20.29	18.47
16	10/07/2020	53.49	26.50	ND*	ND*	ND*	ND*	0.66	ND*	32.82	7.51	17.57	10.58
17	14/07/2020	62.64	31.55	ND*	ND*	ND*	ND*	0.39	ND*	27.84	15.19	24.61	21.23
18	17/07/2020	54.52	33.36	ND*	ND*	ND*	ND*	0.32	ND*	14.25	8.48	14.65	12.51
19	21/07/2020	70.27	37.23	ND*	ND*	ND*	ND*	0.64	ND*	33.57	11.71	25.49	19.67
20	24/07/2020	63.40	27.56	ND*	ND*	ND*	ND*	0.45	ND*	29.45	14.20	21.34	13.49
21	28/07/2020	71.55	39.27	ND*	ND*	ND*	ND*	0.18	ND*	38.21	10.61	27.65	16.56
22	31/07/2020	52.79	22.60	ND*	ND*	ND*	ND*	0.13	ND*	22.78	6.69	15.28	11.83
23	04/08/2020	50.68	20.40	ND*	ND*	ND*	ND*	0.14	ND*	28.66	6.27	14.27	19.37
24	07/08/2020	63.58	25.25	ND*	ND*	ND*	ND*	0.55	ND*	11.27	13.32	24.39	16.59
25	11/08/2020	40.31	22.31	ND*	ND*	ND*	ND*	0.42	ND*	21.26	11.12	18.52	13.45
26	14/08/2020	59.33	27.21	ND*	ND*	ND*	ND*	0.21	ND*	17.52	9.25	20.58	20.38
27	18/08/2020	44.20	15.25	ND*	ND*	ND*	ND*	0.17	ND*	20.56	17.64	33.64	14.16

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28	21/08/2020	61.32	26.24	ND*	ND*	ND*	ND*	0.34	ND*	26.25	15.33	28.37	12.40
29	25/08/2020	42.62	17.52	ND*	ND*	ND*	ND*	0.27	ND*	13.54	10.44	22.74	17.68
30	28/08/2020	57.34	35.67	ND*	ND*	ND*	ND*	0.77	ND*	10.51	12.23	30.23	21.66
31	01/09/2020	71.51	31.58	ND*	ND*	ND*	ND*	0.64	ND*	17.51	9.39	24.59	10.22
32	04/09/2020	66.15	36.35	ND*	ND*	ND*	ND*	0.41	ND*	13.12	7.37	18.33	15.49
33	08/09/2020	82.56	39.26	ND*	ND*	ND*	ND*	0.17	ND*	26.42	12.39	28.62	11.20
34	11/09/2020	56.24	30.45	ND*	ND*	ND*	ND*	0.52	ND*	23.41	8.56	15.29	14.80
35	15/09/2020	70.25	27.26	ND*	ND*	ND*	ND*	0.22	ND*	19.32	10.18	25.45	21.30
36	18/09/2020	62.47	33.77	ND*	ND*	ND*	ND*	0.47	ND*	14.66	16.44	19.68	16.25
37	22/09/2020	57.39	23.49	ND*	ND*	ND*	ND*	0.63	ND*	20.25	11.29	17.80	12.54
38	25/09/2020	65.45	26.40	ND*	ND*	ND*	ND*	0.36	ND*	24.25	13.34	23.20	20.42
39	29/09/2020	60.35	34.57	ND*	ND*	ND*	ND*	0.27	ND*	15.23	6.57	14.23	17.62

**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  $\text{ng}/\text{m}^3$

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

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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	19/05/2020	68.31	39.45	ND*	ND*	ND*	ND*	0.41	ND*	20.64	8.55	20.30	16.27
2	22/05/2020	57.60	22.60	ND*	ND*	ND*	ND*	0.32	ND*	29.32	14.24	16.45	22.34
3	26/05/2020	63.42	26.26	ND*	ND*	ND*	ND*	0.18	ND*	12.40	6.43	23.55	19.31
4	29/05/2020	52.62	29.44	ND*	ND*	ND*	ND*	0.36	ND*	18.46	9.50	15.85	13.21
5	02/06/2020	59.66	34.39	ND*	ND*	ND*	ND*	0.14	ND*	11.26	15.28	33.51	12.34
6	05/06/2020	68.66	26.81	ND*	ND*	ND*	ND*	0.37	ND*	25.32	12.19	39.26	15.50
7	09/06/2020	78.62	33.57	ND*	ND*	ND*	ND*	0.29	ND*	20.23	8.73	16.31	18.63
8	12/06/2020	44.30	16.37	ND*	ND*	ND*	ND*	0.22	ND*	10.34	10.44	19.40	10.23
9	16/06/2020	62.52	28.29	ND*	ND*	ND*	ND*	0.26	ND*	22.39	18.30	27.52	16.79
10	19/06/2020	48.38	20.56	ND*	ND*	ND*	ND*	0.25	ND*	19.32	11.15	32.47	21.73
11	23/06/2020	54.27	25.73	ND*	ND*	ND*	ND*	0.16	ND*	12.63	9.44	22.42	17.09
12	26/06/2020	64.66	23.58	ND*	ND*	ND*	ND*	0.21	ND*	16.16	13.24	25.65	20.36
13	30/06/2020	51.68	18.50	ND*	ND*	ND*	ND*	0.57	ND*	13.45	7.24	18.27	25.25
14	03/07/2020	75.37	17.65	ND*	ND*	ND*	ND*	0.44	ND*	15.67	11.52	14.58	22.49
15	07/07/2020	52.63	22.45	ND*	ND*	ND*	ND*	0.52	ND*	34.22	8.66	13.50	24.62
16	10/07/2020	48.34	19.35	ND*	ND*	ND*	ND*	0.63	ND*	29.30	14.32	24.33	19.29
17	14/07/2020	68.67	26.25	ND*	ND*	ND*	ND*	0.78	ND*	31.27	18.24	20.28	16.64
18	17/07/2020	46.23	16.19	ND*	ND*	ND*	ND*	0.17	ND*	19.34	6.33	28.25	17.97
19	21/07/2020	61.22	25.39	ND*	ND*	ND*	ND*	0.30	ND*	27.32	13.44	23.45	14.22
20	24/07/2020	45.26	18.40	ND*	ND*	ND*	ND*	0.24	ND*	21.39	10.31	19.65	11.41
21	28/07/2020	66.76	35.47	ND*	ND*	ND*	ND*	0.33	ND*	25.23	7.24	22.68	13.24
22	31/07/2020	42.65	15.87	ND*	ND*	ND*	ND*	0.27	ND*	33.25	12.71	25.81	10.32
23	04/08/2020	77.54	38.30	ND*	ND*	ND*	ND*	0.37	ND*	25.34	10.20	17.87	21.26
24	07/08/2020	53.69	32.42	ND*	ND*	ND*	ND*	0.40	ND*	13.52	7.49	15.27	11.20
25	11/08/2020	46.37	18.57	ND*	ND*	ND*	ND*	0.33	ND*	11.32	9.59	27.26	16.36
26	14/08/2020	40.22	15.10	ND*	ND*	ND*	ND*	0.15	ND*	23.65	14.24	16.26	19.04
27	18/08/2020	63.35	35.62	ND*	ND*	ND*	ND*	0.63	ND*	17.38	12.16	20.32	10.26

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28	21/08/2020	56.24	22.42	ND*	ND*	ND*	ND*	0.44	ND*	14.30	8.29	30.11	15.26
29	25/08/2020	48.62	19.85	ND*	ND*	ND*	ND*	0.61	ND*	35.36	18.33	25.65	20.13
30	28/08/2020	49.20	31.24	ND*	ND*	ND*	ND*	0.41	ND*	22.34	11.56	19.49	17.25
31	01/09/2020	64.53	28.43	ND*	ND*	ND*	ND*	0.19	ND*	20.71	7.67	16.24	18.21
32	04/09/2020	51.26	25.37	ND*	ND*	ND*	ND*	0.21	ND*	30.39	11.20	25.19	10.82
33	08/09/2020	47.57	21.58	ND*	ND*	ND*	ND*	0.13	ND*	13.45	6.26	20.22	13.49
34	11/09/2020	62.54	35.47	ND*	ND*	ND*	ND*	0.32	ND*	19.54	16.69	27.48	15.36
35	15/09/2020	54.25	22.46	ND*	ND*	ND*	ND*	0.48	ND*	16.40	19.25	30.38	23.27
36	18/09/2020	81.69	48.47	ND*	ND*	ND*	ND*	0.23	ND*	10.55	10.39	26.44	12.59
37	22/09/2020	49.60	20.34	ND*	ND*	ND*	ND*	0.54	ND*	22.57	14.58	28.32	17.42
38	25/09/2020	58.49	23.28	ND*	ND*	ND*	ND*	0.29	ND*	18.46	17.61	31.25	11.39
39	29/09/2020	52.40	27.51	ND*	ND*	ND*	ND*	0.61	ND*	11.60	8.23	19.58	14.30

**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  $\text{ng}/\text{m}^3$

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

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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	19/05/2020	74.86	33.90	ND*	ND*	ND*	ND*	0.17	ND*	18.22	12.30	23.48	14.27
2	22/05/2020	64.54	28.33	ND*	ND*	ND*	ND*	0.26	ND*	15.30	8.24	26.21	11.68
3	26/05/2020	56.31	23.44	ND*	ND*	ND*	ND*	0.22	ND*	26.35	15.51	18.46	16.41
4	29/05/2020	65.40	36.42	ND*	ND*	ND*	ND*	0.13	ND*	31.27	13.34	20.80	19.28
5	02/06/2020	67.84	37.72	ND*	ND*	ND*	ND*	0.27	ND*	14.30	10.26	20.31	14.24
6	05/06/2020	53.67	20.44	ND*	ND*	ND*	ND*	0.18	ND*	21.21	16.21	23.51	19.20
7	09/06/2020	65.67	28.63	ND*	ND*	ND*	ND*	0.38	ND*	27.67	12.58	19.56	16.19
8	12/06/2020	52.74	22.46	ND*	ND*	ND*	ND*	0.45	ND*	19.67	8.89	16.81	12.19
9	16/06/2020	79.34	35.39	ND*	ND*	ND*	ND*	0.17	ND*	25.48	11.27	21.28	22.14
10	19/06/2020	63.26	26.32	ND*	ND*	ND*	ND*	0.62	ND*	12.50	18.56	17.29	13.24
11	23/06/2020	59.21	33.26	ND*	ND*	ND*	ND*	0.40	ND*	20.35	6.39	28.42	20.47
12	26/06/2020	69.45	27.66	ND*	ND*	ND*	ND*	0.33	ND*	29.38	19.42	31.78	11.59
13	30/06/2020	46.54	15.30	ND*	ND*	ND*	ND*	0.49	ND*	33.21	17.48	25.33	18.16
14	03/07/2020	50.22	28.35	ND*	ND*	ND*	ND*	0.16	ND*	27.64	12.71	18.20	16.31
15	07/07/2020	40.22	27.63	ND*	ND*	ND*	ND*	0.21	ND*	23.55	6.33	26.84	11.57
16	10/07/2020	64.28	24.20	ND*	ND*	ND*	ND*	0.50	ND*	19.55	9.25	31.59	13.55
17	14/07/2020	55.40	21.66	ND*	ND*	ND*	ND*	0.62	ND*	16.82	13.68	17.24	10.61
18	17/07/2020	66.26	39.37	ND*	ND*	ND*	ND*	0.26	ND*	22.65	17.54	22.41	14.62
19	21/07/2020	54.22	23.29	ND*	ND*	ND*	ND*	0.53	ND*	17.51	10.71	21.21	12.63
20	24/07/2020	41.21	15.35	ND*	ND*	ND*	ND*	0.19	ND*	12.65	7.66	25.33	17.65
21	28/07/2020	60.35	32.43	ND*	ND*	ND*	ND*	0.14	ND*	31.66	11.33	30.39	15.21
22	31/07/2020	59.23	25.33	ND*	ND*	ND*	ND*	0.36	ND*	18.32	8.30	13.27	20.61
23	04/08/2020	61.64	27.16	ND*	ND*	ND*	ND*	0.58	ND*	12.69	8.65	21.40	11.34
24	07/08/2020	46.28	21.60	ND*	ND*	ND*	ND*	0.52	ND*	16.20	11.26	17.21	13.51
25	11/08/2020	56.35	29.23	ND*	ND*	ND*	ND*	0.19	ND*	17.20	13.14	14.20	22.45
26	14/08/2020	47.63	18.26	ND*	ND*	ND*	ND*	0.16	ND*	26.36	16.24	23.44	15.13
27	18/08/2020	54.34	24.31	ND*	ND*	ND*	ND*	0.48	ND*	14.20	10.31	28.43	20.43

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28	21/08/2020	49.52	19.30	ND*	ND*	ND*	ND*	0.29	ND*	23.46	12.62	15.30	19.47
29	25/08/2020	53.59	22.35	ND*	ND*	ND*	ND*	0.56	ND*	21.54	9.54	19.22	10.65
30	28/08/2020	44.28	25.68	ND*	ND*	ND*	ND*	0.49	ND*	27.58	6.33	26.10	18.27
31	01/09/2020	55.67	37.20	ND*	ND*	ND*	ND*	0.34	ND*	10.34	13.52	19.49	12.36
32	04/09/2020	60.39	33.62	ND*	ND*	ND*	ND*	0.14	ND*	15.65	16.22	22.31	20.25
33	08/09/2020	53.40	25.55	ND*	ND*	ND*	ND*	0.38	ND*	20.58	7.24	26.24	15.89
34	11/09/2020	48.64	15.88	ND*	ND*	ND*	ND*	0.44	ND*	28.27	14.24	21.32	18.61
35	15/09/2020	56.59	23.45	ND*	ND*	ND*	ND*	0.31	ND*	33.52	8.35	18.49	16.39
36	18/09/2020	76.20	39.14	ND*	ND*	ND*	ND*	0.15	ND*	19.40	15.24	23.41	25.25
37	22/09/2020	44.52	16.28	ND*	ND*	ND*	ND*	0.40	ND*	24.50	6.65	15.27	13.29
38	25/09/2020	52.45	29.31	ND*	ND*	ND*	ND*	0.25	ND*	13.78	12.12	20.31	19.21
39	29/09/2020	47.58	24.25	ND*	ND*	ND*	ND*	0.49	ND*	18.31	10.39	17.28	10.38

**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  $\text{ng}/\text{m}^3$

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

  
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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	19/05/2020	79.34	42.39	ND*	ND*	ND*	ND*	0.46	ND*	23.44	14.55	25.39	18.25
2	22/05/2020	86.35	47.32	0.62	ND*	2.20	10.50	0.63	ND*	26.23	18.67	30.27	20.29
3	26/05/2020	73.27	30.85	ND*	ND*	ND*	ND*	0.74	ND*	35.59	20.56	33.61	24.21
4	29/05/2020	80.32	44.52	0.56	ND*	2.36	10.38	0.42	ND*	15.67	22.33	28.41	26.50
5	02/06/2020	88.34	48.64	ND*	ND*	ND*	ND*	0.31	ND*	28.62	20.09	38.65	25.53
6	05/06/2020	73.29	37.61	ND*	ND*	ND*	ND*	0.80	ND*	33.48	14.64	24.62	28.49
7	09/06/2020	86.20	45.24	0.58	ND*	2.34	10.55	0.60	ND*	38.47	23.63	35.45	23.49
8	12/06/2020	68.69	34.28	ND*	ND*	ND*	ND*	0.82	ND*	16.85	16.51	26.59	17.90
9	16/06/2020	84.28	45.61	0.72	ND*	2.62	10.21	0.72	ND*	39.24	21.59	34.63	14.68
10	19/06/2020	76.37	29.60	ND*	ND*	ND*	ND*	0.78	ND*	26.22	15.16	39.67	19.34
11	23/06/2020	85.66	41.50	ND*	ND*	ND*	ND*	0.53	ND*	35.77	17.87	36.28	24.83
12	26/06/2020	78.63	38.32	ND*	ND*	ND*	ND*	0.58	ND*	40.17	22.41	42.73	27.35
13	30/06/2020	58.63	27.34	ND*	ND*	ND*	ND*	0.84	ND*	36.54	19.68	33.48	21.35
14	03/07/2020	80.38	44.28	ND*	ND*	ND*	ND*	0.41	ND*	13.83	21.88	32.48	23.50
15	07/07/2020	57.55	30.39	ND*	ND*	ND*	ND*	0.42	ND*	26.73	10.36	28.66	26.56
16	10/07/2020	70.28	33.43	ND*	ND*	ND*	ND*	0.58	ND*	24.63	16.47	33.70	21.88
17	14/07/2020	81.61	49.31	0.64	ND*	2.20	10.63	0.94	ND*	34.65	23.59	39.26	25.33
18	17/07/2020	71.20	42.65	ND*	ND*	ND*	ND*	0.65	ND*	40.30	13.59	25.65	27.21
19	21/07/2020	82.40	35.62	ND*	ND*	ND*	10.29	0.37	ND*	30.31	18.56	30.74	17.21
20	24/07/2020	52.61	21.23	ND*	ND*	ND*	ND*	0.31	ND*	33.62	20.29	38.57	19.18
21	28/07/2020	85.39	47.53	0.76	ND*	2.54	ND*	0.46	ND*	22.87	15.21	34.27	28.26
22	31/07/2020	73.61	29.49	ND*	ND*	ND*	ND*	0.55	ND*	42.26	17.22	29.44	22.34
23	04/08/2020	82.60	42.48	0.66	ND*	2.16	10.34	0.86	ND*	35.67	14.36	31.57	14.20
24	07/08/2020	68.34	39.25	ND*	ND*	ND*	ND*	0.78	ND*	19.58	17.32	26.30	19.23
25	11/08/2020	51.22	31.55	ND*	ND*	ND*	ND*	0.72	ND*	25.79	15.43	34.29	24.53
26	14/08/2020	63.52	33.14	ND*	ND*	ND*	ND*	0.53	ND*	37.21	21.66	38.22	26.31
27	18/08/2020	59.22	27.60	ND*	ND*	ND*	ND*	0.45	ND*	28.23	19.21	30.35	23.41

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28	21/08/2020	78.62	40.30	0.52	ND*	2.28	10.23	0.80	ND*	33.37	22.41	25.18	21.57
29	25/08/2020	62.65	28.47	ND*	ND*	ND*	ND*	0.69	ND*	39.38	16.53	29.10	27.59
30	28/08/2020	80.36	37.62	ND*	ND*	ND*	ND*	0.88	ND*	20.60	20.08	33.47	25.62
31	01/09/2020	76.27	34.31	ND*	ND*	ND*	ND*	0.60	ND*	22.45	18.28	30.21	22.54
32	04/09/2020	83.60	42.55	0.79	ND*	2.35	ND*	0.39	ND*	17.39	20.07	38.41	21.43
33	08/09/2020	69.50	32.53	ND*	ND*	ND*	ND*	0.45	ND*	36.39	17.44	32.54	19.38
34	11/09/2020	52.44	29.28	ND*	ND*	ND*	ND*	0.62	ND*	30.56	11.00	35.26	17.75
35	15/09/2020	68.38	30.19	ND*	ND*	ND*	ND*	0.72	ND*	26.53	14.29	28.17	28.17
36	18/09/2020	86.34	43.85	0.65	ND*	2.46	ND*	0.26	ND*	23.53	12.32	33.46	25.67
37	22/09/2020	63.48	26.23	ND*	ND*	ND*	ND*	0.50	ND*	32.43	19.51	19.32	16.41
38	25/09/2020	75.67	35.33	ND*	ND*	ND*	ND*	0.78	ND*	37.55	21.19	37.80	27.65
39	29/09/2020	82.47	44.61	ND*	ND*	ND*	ND*	0.68	ND*	27.31	13.70	21.61	20.84

**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 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.1 mg/m<sup>3</sup>, Benzene as C<sub>6</sub>H<sub>6</sub>: 2 µg/m<sup>3</sup>, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m<sup>3</sup>, Arsenic as As: 2 ng/m<sup>3</sup>, Nickel as Ni: 5 ng/m<sup>3</sup>

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

  
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### 3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -

**Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: April-2020 to September-2020**

#### 3B.1 Near Sub Station-7B

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION				
			May-20	June-20	July-20	Aug-20	Sep-20
			26/05/20	15/06/20	22/07/20	22/08/20	25/09/20
1	Temperature	°C	31.9	31.8	31.1	30.4	30.6
2	pH	--	8.03	8.20	8.40	8.25	8.48
3	Total Dissolved Solids	mg/L	1212	1316	1564	1612	1570
4	Salinity	ppt	0.39	0.40	0.44	0.47	0.44
5	Chloride as Cl	mg/L	219	224	249	264	246
6	Depth of Water Level from Ground Level	meter	1.4	1.0	1.0	1.5	1.5
7	Status of Tide	--	High Tide	High Tide	High Tide	Low Tide	High Tide

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

#### 3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION				
			May-20	June-20	July-20	Aug-20	Sep-20
			26/05/20	15/06/20	22/07/20	22/08/20	25/09/20
1	Temperature	°C	32.0	31.8	31.3	30.7	30.5
2	pH	--	8.15	8.09	8.31	8.19	8.66
3	Total Dissolved Solids	mg/L	1188	1074	1260	1349	1134
4	Salinity	ppt	0.36	0.35	0.39	0.27	0.41
5	Chloride as Cl	mg/L	184	196	219	249	230
6	Depth of Water Level from Ground Level	meter	2.4	1.5	1.5	1.0	1.0
7	Status of Tide	--	High Tide	High Tide	High Tide	Low Tide	High Tide

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**



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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: April 2020 to September 2020:-**

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE									
			MAY-20		JUNE-20		JULY-20		AUG-20		SEP-20	
			26/05/2020		15/06/2020		22/07/2020		22/08/2020		25/09/2020	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.18	8.05	8.30	8.15	8.24	8.19	8.27	8.21	8.21	8.17
2	Temperature	°C	30.5	30.2	30.7	30.5	31.4	31.1	31.5	31.3	30.7	30.5
3	Total Suspended Solids	mg/L	298	347	308	323	329	350	374	326	316	301
4	BOD (3 Days @ 27 °C)	mg/L	3.0	Not Detected	3.9	Not Detected	4.2	Not Detected	3.1	Not Detected	2.5	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.5	5.9	5.7	5.8	5.7	5.9	5.7	5.9	5.6
6	Salinity	ppt	30.8	31.0	31.7	31.3	31.9	32.1	32.1	31.8	30.6	30.2
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
8	Nitrate as NO <sub>3</sub>	μmol/L	2.4	1.95	3.44	3.20	4.53	4.28	4.28	3.92	2.87	2.61
9	Nitrite as NO <sub>2</sub>	μmol/L	0.98	0.80	0.58	0.83	0.89	0.62	0.72	0.56	0.43	0.36
10	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	2.56	2.44	2.41	2.36	2.23	2.11	2.51	2.32	2.60	2.47
11	Phosphates as PO <sub>4</sub>	μmol/L	2.72	2.30	1.28	1.16	1.74	1.63	1.35	1.17	1.39	1.18
12	Total Nitrogen	μmol/L	5.94	5.19	6.43	6.39	7.65	7.01	7.51	6.80	5.90	5.44
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
14	Total Dissolved Solids	mg/L	33011	33412	33560	32978	33712	33928	34160	33746	32014	31635
15	COD	mg/L	10	6	25	Not Detected	26.7	Not Detected	24.2	Not Detected	21.3	Not Detected
<b>A Phytoplankton</b>												
16.1	Chlorophyll	mg/m <sup>3</sup>	3.41	2.95	3.31	2.83	3.57	2.67	3.20	2.72	2.88	2.56
16.2	Phaeophytin	mg/m <sup>3</sup>	1.30	1.84	2.74	2.10	2.70	2.38	1.62	2.32	1.60	2.22
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	184	78	160	110	152	92	178	106	148	90
16.4	Name of Group Number and name of group species of each group	--	Navicula sp. Asterionella sp. Coscinodiscus sp. Nitzschia sp.	Nitzschia sp. Synedra sp. Cosmarium sp. --	Nitzschia sp. Thalassiosira sp. Biddulphia sp. Coscinodiscus sp.	Navicula sp. Synedra sp. Pleurosigma sp.	Nitzschia sp. Coscinodiscus sp. Biddulphia sp. Pleurosigma sp.	Navicula sp. Synedra sp. Thalassiosira sp. --	Scenedesmus Thalassiosira sp. Thalassiosira sp. Asterionella	Navicula sp. Nitzschia sp. Synedra sp. --	Nitzschia sp. Biddulphia sp. Coscinodiscus sp. Cymbella sp.	Navicula sp. Synedra sp. Fragillaria sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE				
			MAY-20	JUNE-20	JULY-20	AUG-20	SEP-20
			26/05/2020	15/06/2020	22/07/2020	22/08/2020	25/09/2020
			South Side	South Side	South Side	South Side	South Side
B	Zooplanktons						
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	42	24	21	25	23
17.2	Name of Group Number and name of group species of each group	--	Polychaetes Nauplius larvae Ostracods	Nauplius larvae Bivalves Gastropods	Nauplius larvae Polychaetes Gastropods	Polychaetes Ostracods Bivalves	Polychaetes Gastropods Decapods Mysids
17.3	Total Biomass	ml/100 m <sup>3</sup>	1.6	3.5	3.1	3.0	2.1
C	Microbiological Parameters						
18.1	Total Bacterial Count	CFU/ml	1920	1980	2140	2140	1980
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

**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: April 2020 to September 2020:-**

SR. NO..	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE									
			MAY-20		JUNE-20		JULY-20		AUG-20		SEP-20	
			26/05/2020		15/06/2020		22/07/2020		22/08/2020		25/09/2020	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.20	8.07	8.24	8.09	8.21	8.17	8.26	8.20	8.17	8.13
2	Temperature	°C	30.6	30.3	30.8	30.3	31.2	31.0	31.6	31.4	30.6	30.4
3	Total Suspended Solids	mg/L	356	390	319	361	348	376	369	337	302	290
4	BOD (3 Days @ 27 °C)	mg/L	4.0	Not Detected	3.5	Not Detected	4.1	Not Detected	3.5	Not Detected	2.4	Not Detected
5	Dissolved Oxygen	mg/L	6.0	5.5	6.0	5.8	5.8	5.6	5.9	5.6	6.0	5.8
6	Salinity	ppt	30.7	30.9	31.3	30.9	31.7	32.0	32.3	31.9	30.5	30.1
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
8	Nitrate as NO <sub>3</sub>	µmol/L	3.10	2.90	3.68	3.46	4.6	4.31	4.11	3.92	2.94	2.58
9	Nitrite as NO <sub>2</sub>	µmol/L	1.60	1.40	0.35	1.20	0.76	0.52	0.38	0.41	0.20	0.15
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.66	2.50	2.39	2.12	3.11	3.00	2.70	2.53	1.69	1.43
11	Phosphates as PO <sub>4</sub>	µmol/L	2.65	2.50	1.6	1.75	1.93	1.78	1.52	1.40	0.92	0.89
12	Total Nitrogen	µmol/L	7.36	6.80	6.42	6.78	8.47	7.83	7.49	6.86	4.83	4.16
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
14	Total Dissolved Solids	mg/L	32912	33117	33484	33219	33616	33876	34290	33806	31918	31540
15	COD	mg/L	15.0	14.0	19.0	Not Detected	25.4	Not Detected	22.8	Not Detected	19.6	Not Detected
<b>A Phytoplankton</b>												
16.1	Chlorophyll	mg/m <sup>3</sup>	3.36	2.83	3.58	2.78	2.88	2.62	3.15	2.83	2.78	2.67
16.2	Phaeophytin	mg/m <sup>3</sup>	2.05	2.41	1.47	2.23	2.16	2.5	2.16	2.03	1.56	2.26
16.3	Cell Count	Unit x 10 <sup>3</sup> /L	180	86	150	106	144	98	174	112	152	96
16.4	Name of Group Number and name of group species of each group	--	Nitzschia sp. Asterionella sp. Coscinodiscus sp. cosmarium sp.	Navicula sp. Spirulina sp. Nitzschia sp. --	Coscinodiscus sp. Scenedesmus sp. Rhizosolenia sp. Pleurosigma sp.	Nitzschia sp. Navicula sp. Synedra sp.	Nitzschia sp. Coscinodiscus sp. Rhizosolenia sp. Cyclotella sp.	Navicula sp. Synedra sp. Fragillaria sp. --	Navicula sp. Coscinodiscus sp. Asterionella sp. Thalassionema sp.	Nitzschia sp. Synedra sp. Melosira sp. --	Nitzschia sp. Biddulphia sp. Coscinodiscus sp. Pleurosigma sp.	Navicula sp. Synedra sp. Thalassiosira sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE				
			MAY-20	JUNE-20	JULY-20	AUG-20	SEP-20
			26/05/2020	15/06/2020	22/07/2020	22/08/2020	25/09/2020
			North Side	North Side	North Side	North Side	North Side
B	Zooplanktons						
17.1	Abundance (Population)	noX10 <sup>3</sup> /100m <sup>3</sup>	47	22	26	21	24
17.2	Name of Group Number and name of group species of each group	--	Decapods Copepods Polychaetes	Nauplius larvae Ostracods Polychaetes	Polychaetes Gastropods	Polychaetes Nauplius larvae Mysids Cyclops	Polychaetes Crustaceans Bivalves Copepods
17.3	Total Biomass	ml/100 m <sup>3</sup>	3.60	3.25	3.40	2.90	2.90
C	Microbiological Parameters						
18.1	Total Bacterial Count	CFU/ml	1890	2120	1950	2180	2240
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

**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: April 2020 to September 2020**

Sr. No	PARAMETERS	UNIT	MAY-20	JUNE-20	JULY-20	AUG-20	SEP-20
			26/05/2020	15/06/2020	22/07/2020	22/08/2020	25/09/2020
1	Organic Matter	%	0.75	0.58	0.46	0.63	0.38
2	Phosphorus as P	µg/g	698	610	693	719	570
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>						
5.1	Aluminum as Al	%	4.84	4.56	4.86	4.78	4.58
5.2	Total Chromium as Cr <sup>+3</sup>	µg/g	180	133	210	210	170
5.3	Manganese as Mn	µg/g	997	890	928	894	736
5.4	Iron as Fe	%	5.05	5.18	4.90	4.73	4.61
5.5	Nickel as Ni	µg/g	44.7	30.2	43.6	58.0	43.0
5.6	Copper as Cu	µg/g	41.2	53.4	65.0	42.0	38.0
5.7	Zinc as Zn	µg/g	198	216	196	176	159
5.8	Lead as Pb	µg/g	1.35	2.98	2.34	2.34	1.70
5.9	Mercury as Hg	µg/g	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)	-	Copepods Mysids Polychate worms Bivalves	Polychaetes Molluscs Crustaceans --	Polychaetes Bivalves Copepods	Polychaetes Echinoderms Bivalves	Amphipods Echinoderms Oligochaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	--	--	Nematodes	Nematodes
6.3	Population	no/m <sup>2</sup>	750	441	294	353	324

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

**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: April-2020 to September-2020:-**

Sr. No..	PARAMETERS	UNIT	MAY-20	JUNE-20	JULY-20	AUG-20	SEP-20
			26/05/2020	15/06/2020	22/07/2020	22/08/2020	25/09/2020
1	Organic Matter	%	0.82	0.56	0.50	0.65	0.35
2	Phosphorus as P	mg/kg	702	592	643	734	580
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>						
5.1	Aluminum as Al	%	4.95	4.80	4.92	4.70	4.63
5.2	Total Chromium as Cr <sup>+3</sup>	mg/kg	175	149	230	209	189
5.3	Manganese as Mn	mg/kg	1024	850	940	872	754
5.4	Iron as Fe	%	5.15	5.20	41.83	4.60	4.52
5.5	Nickel as Ni	mg/kg	36.4	49.8	41.9	49.0	37.0
5.6	Copper as Cu	mg/kg	40.1	56.3	63.0	38.0	31.0
5.7	Zinc as Zn	mg/kg	204	230	206	183	168
5.8	Lead as Pb	mg/kg	1.25	2.56	2.19	2.26	1.53
5.9	Mercury as Hg	mg/kg	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 --	Polychaetes Decapods Crustaceans	Polychaetes Crustaceans Bivalves	Polychaetes Echinoderms Crustaceans	Polychaetes Oligochaetes Crustaceans
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	--	--	--	--
6.3	Population	no/m <sup>2</sup>	805	412	324	382	353

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

**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: April-2020 to September-2020**

Date			May-20	Aug-20
			26/05/2020	22/08/2020
Sr. No.	Test Parameters	Unit	Dump Pond Discharge - J3	Dump Pond Discharge - J3
1.	pH	--	8.07	8.15
2.	Total Dissolved Solids	mg/L	1578	1627
3.	Total Suspended Solids	mg/L	31.4	24.0
4.	Turbidity	NTU	3.14	2.90
5.	BOD (3 Days @ 27 °C)	mg/L	20.0	18.4
6.	Dissolved Oxygen	mg/L	6.4	6.1
7.	COD	mg/L	72	86
8.	Salinity	ppt	0.27	0.249
9.	Oil & Grease	mg/L	Not Detected	Not Detected
10.	Total Hardness as CaCO <sub>3</sub>	mg/L	614	640
11.	Fluoride as F	mg/L	0.35	0.32
12.	Chloride as Cl	mg/L	149	138
13.	Zinc as Zn	mg/L	0.12	0.16
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	Not Detected	Not Detected

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



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

**TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: APRIL-2020 TO SEPTEMBER-2020**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					STP Treated Water Limits
			May-20	June-20	July-20	Aug-20	Sep-20	
			26/05/20	15/06/20	22/07/20	22/08/20	25/09/20	
1.	pH	--	7.25	7.17	7.44	7.35	7.82	6.5-8.5
2.	Total Suspended Solids	mg/L	17	21	28	24	4.0	30
3.	BOD (3 Days @ 27 °C)	mg/L	12	15	18	15	12	20
4.	Residual Free Chlorine	mg/L	0.6	0.8	0.6	0.8	0.5	0.5 Min.
5.	Oil & Grease	mg/L	2.8	3.0	5.2	7.4	5.8	Not Specified

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

**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 April 2020 to September 2020**

Sampling Location	1 - Behind QHSE Office				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	19/05/2020	02/06/2020	03/07/2020	04/08/2020	01/09/2020
6:00-7:00	47.2	57.6	48.3	40.9	45.8
7:00-8:00	61.1	60.2	44.9	47.8	58.1
8:00-9:00	50.7	46.5	53.9	50.0	47.5
9:00-10:00	48.1	58.5	46.8	68.1	51.2
10:00-11:00	51.5	48.4	50.2	44.2	55.0
11:00-12:00	50.2	40.6	57.6	47.9	45.8
12:00-13:00	47.3	50.2	48.5	50.7	50.1
13:00-14:00	58.2	44.8	51.0	59.9	44.9
14:00-15:00	55.6	60.1	45.5	44.8	52.2
15:00-16:00	45.8	40.3	56.3	51.1	62.1
16:00-17:00	44.7	52.1	58.6	55.8	69.1
17:00-18:00	59.1	55.7	60.2	52.9	42.9
18:00-19:00	44.8	49.5	54.2	53.9	54.1
19:00-20:00	48.5	53.3	58.5	45.9	45.9
20:00-21:00	50.4	47.8	47.3	55.6	49.8
21:00-22:00	45.6	51.1	60.8	46.6	50.3

Sampling Location	1 - Behind QHSE Office				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	19/05/2020 & 20/05/2020	02/06/2020 & 03/06/2020	03/07/2020 & 04/07/2020	04/08/2020 & 05/08/2020	01/09/2020 & 02/09/2020
22:00-23:00	51.3	61.1	47.5	47.8	45.9
23:00-00:00	60.3	55.8	55.7	45.9	50.0
00:00-01:00	47.1	60.3	48.3	61.1	47.8
01:00-02:00	50.1	45.5	58.3	51.8	51.1
02:00-03:00	47.5	50.3	50.3	50.6	45.4
03:00-04:00	49.8	58.0	54.8	52.4	42.8
04:00-05:00	42.5	56.7	45.8	49.1	53.2
05:00-06:00	57.8	54.5	40.9	51.5	51.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	2 - PMC Office Back Side				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	20/05/2020	03/06/2020	04/07/2020	05/08/2020	02/09/2020
6:00-7:00	53.2	48.3	48.6	58.1	55.6
7:00-8:00	42.5	58.1	45.7	41.9	45.8
8:00-9:00	55.3	55.4	58.4	44.8	50.6
9:00-10:00	57.3	52.6	50.8	51.3	47.8
10:00-11:00	61.5	42.9	60.3	60.1	55.3
11:00-12:00	48.4	47.5	47.6	50.6	44.8
12:00-13:00	49.5	60.4	51.4	55.6	51.1
13:00-14:00	50.6	46.6	58.7	50.1	46.9
14:00-15:00	53.1	61.0	42.6	58.9	57.4
15:00-16:00	44.3	50.3	56.4	50.0	47.8
16:00-17:00	51.7	44.7	47.2	42.9	50.1
17:00-18:00	53.6	60.5	56.1	48.1	49.8
18:00-19:00	56.1	60.9	55.4	56.4	54.2
19:00-20:00	57.4	40.8	45.4	59.4	42.8
20:00-21:00	52.9	52.5	61.0	59.8	46.9
21:00-22:00	42.6	55.6	55.2	54.8	50.4

Sampling Location	2 - PMC Office Back Side				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	20/05/2020 & 21/05/2020	03/06/2020 & 04/06/2020	04/07/2020 & 05/07/2020	05/08/2020 & 06/08/2020	02/09/2020 & 03/09/2020
22:00-23:00	52.2	42.7	52.1	55.4	53.2
23:00-00:00	61.1	50.8	50.3	54.2	46.4
00:00-01:00	41.9	47.8	47.4	57.8	42.8
01:00-02:00	58.7	58.2	55.8	51.8	49.4
02:00-03:00	48.9	45.3	51.8	55.1	55.8
03:00-04:00	45.4	45.7	40.5	43.6	50.0
04:00-05:00	50.3	52.3	54.9	52.9	44.9
05:00-06:00	58.0	56.9	60.5	47.4	56.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	3 - Sub Station - 6 Back Side				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	21/05/2020	04/06/2020	06/07/2020	06/08/2020	03/09/2020
6:00-7:00	68.1	49.4	65.4	42.8	69.1
7:00-8:00	44.4	53.2	58.3	65.1	51.5
8:00-9:00	47.5	44.6	50.4	55.8	47.8
9:00-10:00	57.2	42.7	49.9	48.6	55.3
10:00-11:00	49.8	47.9	56.5	42.9	45.8
11:00-12:00	50.3	53.1	57.1	48.1	51.6
12:00-13:00	47.8	42.6	58.0	46.4	55.1
13:00-14:00	57.6	47.7	47.8	56.4	59.2
14:00-15:00	50.8	61.2	43.2	43.9	53.4
15:00-16:00	54.3	50.4	53.1	44.9	58.1
16:00-17:00	46.9	44.9	68.5	52.1	48.4
17:00-18:00	47.7	40.7	48.2	57.8	54.1
18:00-19:00	53.4	51.3	58.9	52.2	47.2
19:00-20:00	54.2	48.8	60.4	50.0	54.0
20:00-21:00	60.2	49.9	43.9	52.3	40.8
21:00-22:00	48.9	47.4	56.7	45.6	53.2

Sampling Location	3 - Sub Station - 6 Back Side				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	21/05/2020 & 22/05/2020	04/06/2020 & 05/06/2020	06/07/2020 & 07/07/2020	06/08/2020 & 07/08/2020	03/09/2020 & 04/09/2020
22:00-23:00	50.6	55.9	47.1	42.9	45.2
23:00-00:00	49.5	50.5	68.2	45.4	50.1
00:00-01:00	58.4	45.0	58.2	48.9	58.8
01:00-02:00	46.4	49.3	56.2	51.1	49.4
02:00-03:00	44.2	42.5	55.2	59.9	57.8
03:00-04:00	50.4	45.4	42.6	48.1	51.1
04:00-05:00	52.4	54.3	55.0	48.9	53.9
05:00-06:00	56.8	57.2	49.8	58.7	43.4

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	4 -Sub Station - 8 (Marine Building)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	22/05/2020	05/06/2020	07/07/2020	07/08/2020	04/09/2020
6:00-7:00	48.2	59.1	51.8	50.9	56.1
7:00-8:00	50.0	42.1	58.2	44.2	45.9
8:00-9:00	51.3	52.9	60.7	61.1	50.6
9:00-10:00	58.6	48.9	47.4	50.5	45.8
10:00-11:00	42.4	50.5	45.3	51.8	50.1
11:00-12:00	52.3	67.7	55.6	47.9	54.2
12:00-13:00	42.8	51.4	50.3	61.1	51.4
13:00-14:00	47.1	61.1	56.0	50.0	55.2
14:00-15:00	54.8	45.9	57.2	45.8	53.1
15:00-16:00	60.6	60.0	42.9	54.0	43.9
16:00-17:00	47.6	42.2	49.5	57.1	46.7
17:00-18:00	51.8	40.9	54.8	55.1	56.2
18:00-19:00	55.5	52.3	56.9	52.2	47.8
19:00-20:00	52.4	53.4	45.8	56.4	51.2
20:00-21:00	55.4	56.2	41.3	49.2	59.1
21:00-22:00	50.5	47.3	65.3	46.4	58.1

Sampling Location	4 -Sub Station - 8 (Marine Building)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	22/05/2020 & 23/05/2020	05/06/2020 & 06/06/2020	07/07/2020 & 08/07/2020	07/08/2020 & 08/08/2020	04/09/2020 & 05/09/2020
22:00-23:00	47.8	44.7	61.2	50.6	57.8
23:00-00:00	58.5	57.3	56.4	44.4	45.8
00:00-01:00	50.8	55.6	57.6	59.3	55.1
01:00-02:00	44.1	59.2	60.2	55.1	44.8
02:00-03:00	48.7	44.4	47.6	46.4	55.8
03:00-04:00	42.2	46.7	50.5	50.3	43.8
04:00-05:00	44.5	51.2	47.3	54.6	48.9
05:00-06:00	54.2	42.6	40.3	60.1	44.6

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	5 - Near Sub Station-7B				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	23/05/2020	06/06/2020	08/07/2020	08/08/2020	05/09/2020
6:00-7:00	58.1	68.1	48.9	42.6	42.8
7:00-8:00	51.4	48.2	45.6	53.4	47.6
8:00-9:00	55.1	50.0	57.5	50.9	51.1
9:00-10:00	47.9	51.2	56.2	58.4	54.2
10:00-11:00	44.6	58.6	68.1	47.9	47.8
11:00-12:00	55.8	42.5	50.0	60.2	50.9
12:00-13:00	52.6	52.2	57.9	50.0	43.2
13:00-14:00	48.7	42.8	44.5	45.4	59.1
14:00-15:00	42.9	47.2	47.9	51.8	53.1
15:00-16:00	45.9	54.8	51.2	52.9	50.2
16:00-17:00	47.4	60.6	55.7	49.4	52.0
17:00-18:00	60.0	47.6	58.1	51.5	49.3
18:00-19:00	50.1	51.8	42.7	47.8	44.9
19:00-20:00	48.8	55.1	49.8	48.1	51.0
20:00-21:00	44.2	52.4	52.8	55.1	53.2
21:00-22:00	51.2	50.1	54.1	50.0	58.1

Sampling Location	5 - Near Sub Station-7B				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	23/05/2020 & 24/05/2020	06/06/2020 & 07/06/2020	08/07/2020 & 09/07/2020	08/08/2020 & 09/08/2020	05/09/2020 & 06/09/2020
22:00-23:00	56.4	59.0	55.9	69.1	59.3
23:00-00:00	48.3	47.4	57.1	50.6	47.8
00:00-01:00	46.6	50.9	61.6	55.1	55.8
01:00-02:00	51.8	46.5	47.2	50.2	50.1
02:00-03:00	50.2	54.6	42.3	59.4	52.4
03:00-04:00	57.3	49.8	56.9	53.3	47.9
04:00-05:00	46.5	42.8	42.8	50.2	49.2
05:00-06:00	42.6	56.1	50.1	41.5	50.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	6 - JS - 1 (Nr. Lakhigam)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	23/05/2020	08/06/2020	09/07/2020	10/08/2020	07/09/2020
6:00-7:00	54.1	47.1	58.9	69.1	51.1
7:00-8:00	61.2	61.1	47.6	45.8	47.2
8:00-9:00	42.7	50.7	44.8	44.6	51.2
9:00-10:00	68.2	48.1	58.5	47.6	49.8
10:00-11:00	46.7	51.6	47.5	60.1	45.9
11:00-12:00	52.3	50.2	55.9	55.1	57.8
12:00-13:00	56.4	58.1	58.4	44.4	52.8
13:00-14:00	67.2	55.5	65.6	45.9	44.9
14:00-15:00	43.4	45.8	44.3	50.6	45.8
15:00-16:00	47.6	44.8	49.9	52.9	50.1
16:00-17:00	44.2	59.1	50.3	49.4	51.0
17:00-18:00	53.8	42.1	53.4	51.5	53.9
18:00-19:00	46.6	48.7	57.3	59.9	42.6
19:00-20:00	40.5	50.3	46.3	47.2	59.1
20:00-21:00	61.4	45.7	51.1	51.2	46.9
21:00-22:00	50.0	46.6	57.6	59.9	42.8

Sampling Location	6 - JS - 1 (Nr. Lakhigam)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	23/05/2020 & 24/05/2020	08/06/2020 & 09/06/2020	09/07/2020 & 10/07/2020	10/08/2020 & 11/08/2020	07/09/2020 & 08/09/2020
22:00-23:00	46.9	55.2	57.2	51.1	54.2
23:00-00:00	44.8	48.1	61.1	45.8	57.8
00:00-01:00	57.1	50.7	49.1	44.6	59.1
01:00-02:00	55.6	57.5	42.9	53.1	46.8
02:00-03:00	67.5	45.9	54.3	57.8	47.8
03:00-04:00	44.3	51.4	50.2	59.3	52.1
04:00-05:00	45.3	58.1	60.3	46.3	49.8
05:00-06:00	40.2	56.3	45.5	45.4	51.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	7 - Behind S.S. - 11 (Silo)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	25/05/2020	09/06/2020	10/07/2020	11/08/2020	08/09/2020
6:00-7:00	56.8	48.3	50.8	55.6	59.1
7:00-8:00	41.5	50.0	58.7	56.4	52.2
8:00-9:00	51.5	51.2	61.3	58.9	56.4
9:00-10:00	47.3	58.6	62.1	44.4	44.9
10:00-11:00	61.5	42.7	68.2	50.9	45.8
11:00-12:00	48.9	52.5	55.2	46.2	48.9
12:00-13:00	51.8	42.8	47.7	45.9	50.7
13:00-14:00	66.1	47.6	48.9	51.2	52.1
14:00-15:00	47.2	54.8	57.4	56.4	53.4
15:00-16:00	45.8	60.6	55.6	55.2	58.1
16:00-17:00	50.2	47.7	46.6	50.6	50.1
17:00-18:00	44.1	51.8	48.8	48.2	56.3
18:00-19:00	45.7	55.1	68.1	52.4	55.0
19:00-20:00	58.1	52.1	51.6	50.9	52.1
20:00-21:00	60.0	55.4	54.1	50.1	59.8
21:00-22:00	44.3	50.4	57.2	55.2	51.6

Sampling Location	7 - Behind S.S. - 11 (Silo)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	25/05/2020 & 26/05/2020	09/06/2020 & 10/06/2020	10/07/2020 & 11/07/2020	11/08/2020 & 12/08/2020	08/09/2020 & 09/09/2020
22:00-23:00	59.9	61.4	61.8	57.8	51.1
23:00-00:00	47.4	59.7	55.5	48.2	49.4
00:00-01:00	50.9	42.9	56.1	47.2	47.1
01:00-02:00	46.8	44.9	55.3	59.8	55.8
02:00-03:00	57.2	45.8	50.0	68.1	47.9
03:00-04:00	54.6	50.1	48.5	51.8	51.3
04:00-05:00	49.6	51.6	51.0	47.5	44.9
05:00-06:00	41.3	49.2	43.7	46.8	42.8

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	8 - Silo Loading Point				
	During Day Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	25/05/2020	10/06/2020	11/07/2020	12/08/2020	09/09/2020
6:00-7:00	48.6	56.8	61.9	52.9	57.1
7:00-8:00	55.8	40.8	47.2	50.0	45.8
8:00-9:00	51.3	51.5	45.5	48.9	50.8
9:00-10:00	45.5	47.3	55.8	52.1	44.9
10:00-11:00	64.3	61.0	48.7	50.2	59.1
11:00-12:00	54.2	48.9	56.9	59.4	57.1
12:00-13:00	47.5	51.3	49.8	50.7	47.9
13:00-14:00	57.1	66.1	53.1	44.8	46.8
14:00-15:00	46.9	47.2	58.8	51.8	50.1
15:00-16:00	45.6	46.0	46.8	46.4	51.2
16:00-17:00	48.0	50.5	47.0	54.6	58.1
17:00-18:00	50.4	44.1	50.9	51.1	59.9
18:00-19:00	51.1	45.2	53.8	48.9	42.8
19:00-20:00	49.2	60.0	47.4	45.4	47.4
20:00-21:00	47.9	44.6	51.7	42.1	51.2
21:00-22:00	48.5	40.6	55.0	40.6	50.8

Sampling Location	8 - Silo Loading Point				
	During Night Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	25/05/2020 & 26/05/2020	10/06/2020 & 11/06/2020	11/07/2020 & 12/07/2020	12/08/2020 & 13/08/2020	09/09/2020 & 10/09/2020
22:00-23:00	55.1	56.2	60.7	49.8	50.0
23:00-00:00	48.1	48.3	52.3	44.6	51.1
00:00-01:00	50.7	46.6	50.8	48.4	48.4
01:00-02:00	63.2	51.8	48.2	59.1	42.9
02:00-03:00	44.7	50.2	51.9	50.7	49.1
03:00-04:00	51.4	57.4	42.4	67.8	52.2
04:00-05:00	57.5	46.2	58.4	53.1	59.2
05:00-06:00	56.2	47.9	60.1	41.1	47.8

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	9 - GCPTL Gate				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	26/05/2020	11/06/2020	13/07/2020	13/08/2020	10/09/2020
6:00-7:00	52.2	52.2	51.5	40.6	60.0
7:00-8:00	55.3	55.3	58.6	45.2	50.1
8:00-9:00	47.8	47.8	45.7	61.1	54.8
9:00-10:00	48.4	48.4	48.5	66.2	51.2
10:00-11:00	50.7	50.6	60.8	67.8	44.9
11:00-12:00	51.4	51.1	50.4	50.6	59.1
12:00-13:00	48.2	48.5	44.9	47.8	46.2
13:00-14:00	49.8	49.8	54.8	50.1	56.1
14:00-15:00	68.1	68.0	47.8	57.9	54.2
15:00-16:00	58.3	58.4	58.3	45.8	51.1
16:00-17:00	45.4	46.1	53.2	46.9	47.9
17:00-18:00	44.9	44.9	69.3	43.1	57.2
18:00-19:00	47.1	48.0	61.0	44.9	48.9
19:00-20:00	46.5	46.8	42.8	42.4	45.9
20:00-21:00	47.0	55.7	52.4	69.8	56.4
21:00-22:00	46.8	52.3	57.1	67.1	57.8

Sampling Location	9 - GCPTL Gate				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	26/05/2020 & 27/05/2020	11/06/2020 & 12/06/2020	13/07/2020 & 14/07/2020	13/08/2020 & 14/08/2020	10/09/2020 & 11/09/2020
22:00-23:00	61.4	46.9	59.5	45.8	50.6
23:00-00:00	65.3	44.8	67.2	50.8	47.9
00:00-01:00	42.9	57.1	51.2	68.9	49.8
01:00-02:00	44.6	55.7	48.9	54.8	51.4
02:00-03:00	45.8	59.1	64.1	42.9	48.1
03:00-04:00	58.1	44.3	68.1	51.2	55.2
04:00-05:00	50.0	46.8	55.4	52.3	50.4
05:00-06:00	51.6	51.1	40.8	44.9	54.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	10 - Lakhi Village (Primary School)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	26/05/2020	12/06/2020	14/07/2020	14/08/2020	11/09/2020
6:00-7:00	45.9	45.9	56.1	60.1	46.8
7:00-8:00	51.2	61.3	57.9	47.2	54.2
8:00-9:00	54.3	50.1	55.5	55.8	59.1
9:00-10:00	50.1	46.3	60.2	56.4	50.1
10:00-11:00	44.5	53.4	57.5	62.2	48.9
11:00-12:00	44.6	59.6	54.3	47.8	46.8
12:00-13:00	54.8	56.2	47.9	48.1	50.0
13:00-14:00	69.2	53.5	44.2	56.4	57.9
14:00-15:00	46.3	49.4	51.9	50.2	57.8
15:00-16:00	46.4	48.8	45.8	49.1	58.2
16:00-17:00	59.6	53.2	61.2	55.8	52.4
17:00-18:00	53.1	48.2	65.9	58.4	44.9
18:00-19:00	56.2	68.1	43.7	55.6	49.2
19:00-20:00	48.7	58.3	48.3	46.9	56.9
20:00-21:00	49.4	55.6	50.1	47.2	53.1
21:00-22:00	53.4	40.9	58.2	60.9	54.6

Sampling Location	10 - Lakhi Village (Primary School)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	26/05/2020 & 27/05/2020	12/06/2020 & 13/06/2020	14/07/2020 & 15/07/2020	14/08/2020 & 15/08/2020	11/09/2020 & 12/09/2020
22:00-23:00	49.2	50.6	41.9	45.9	58.1
23:00-00:00	49.1	49.4	58.1	60.0	56.2
00:00-01:00	43.4	55.1	55.1	48.4	47.5
01:00-02:00	47.9	49.9	49.5	42.9	41.9
02:00-03:00	52.3	45.6	59.2	50.8	46.8
03:00-04:00	54.4	50.0	54.2	45.8	57.2
04:00-05:00	59.2	52.4	43.8	54.3	55.1
05:00-06:00	48.8	56.8	65.1	48.3	50.6

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	11 - ERMS Workshop				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	27/05/2020	13/06/2020	15/07/2020	15/08/2020	12/09/2020
6:00-7:00	58.1	40.9	67.1	58.1	59.1
7:00-8:00	40.7	47.7	49.8	40.9	48.9
8:00-9:00	55.5	50.8	54.5	44.8	50.0
9:00-10:00	47.4	68.1	51.5	51.3	58.1
10:00-11:00	50.2	44.2	47.8	60.1	44.9
11:00-12:00	61.4	47.9	61.1	50.6	54.2
12:00-13:00	50.9	50.2	55.8	55.6	60.1
13:00-14:00	41.9	59.9	50.7	56.1	65.2
14:00-15:00	50.0	44.7	44.2	58.9	42.9
15:00-16:00	47.6	51.3	50.1	42.9	68.1
16:00-17:00	68.2	55.9	47.5	48.1	54.2
17:00-18:00	49.4	52.8	60.8	56.4	57.1
18:00-19:00	44.7	53.9	44.5	59.8	47.9
19:00-20:00	47.9	45.9	51.4	54.8	65.1
20:00-21:00	50.7	55.4	54.6	56.4	49.2
21:00-22:00	51.7	46.6	59.4	42.9	53.2

Sampling Location	11 - ERMS Workshop				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	27/05/2020 & 28/05/2020	13/06/2020 & 14/06/2020	15/07/2020 & 16/07/2020	15/08/2020 & 16/08/2020	12/09/2020 & 13/09/2020
22:00-23:00	40.6	45.3	49.5	50.6	56.2
23:00-00:00	44.3	52.3	52.8	49.6	47.9
00:00-01:00	60.2	54.1	53.4	58.1	48.8
01:00-02:00	55.2	48.5	45.2	46.8	50.3
02:00-03:00	54.7	50.5	59.6	45.6	51.2
03:00-04:00	42.6	42.8	58.4	50.0	61.1
04:00-05:00	45.3	50.8	42.9	52.4	49.4
05:00-06:00	46.5	45.7	45.7	56.8	56.0

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	12 - Behind Pump House				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	27/05/2020	15/06/2020	16/07/2020	17/08/2020	14/09/2020
6:00-7:00	51.4	60.2	46.5	45.9	48.9
7:00-8:00	67.1	47.3	48.9	51.3	50.4
8:00-9:00	55.7	55.5	51.9	50.1	57.2
9:00-10:00	52.9	58.7	60.5	40.3	49.4
10:00-11:00	44.8	62.2	56.4	50.2	60.1
11:00-12:00	51.3	47.8	60.2	51.1	67.2
12:00-13:00	60.4	50.4	48.6	48.2	44.9
13:00-14:00	48.5	56.6	52.8	49.8	50.3
14:00-15:00	55.3	49.2	48.3	68.1	58.2
15:00-16:00	60.5	55.8	56.5	58.3	59.1
16:00-17:00	53.4	58.4	50.9	45.9	49.4
17:00-18:00	47.5	55.7	48.7	44.9	65.1
18:00-19:00	49.5	46.7	65.9	47.9	42.9
19:00-20:00	53.2	47.2	55.2	46.8	61.3
20:00-21:00	44.5	60.1	51.8	55.6	47.8
21:00-22:00	59.4	50.3	46.7	52.3	42.9

Sampling Location	12 - Behind Pump House				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	27/05/2020 & 28/05/2020	15/06/2020 & 16/06/2020	16/07/2020 & 17/07/2020	17/08/2020 & 18/08/2020	14/09/2020 & 15/09/2020
22:00-23:00	45.7	45.6	48.5	46.9	68.1
23:00-00:00	60.0	60.6	55.6	44.8	50.3
00:00-01:00	54.2	69.2	44.2	57.1	49.4
01:00-02:00	48.7	54.8	52.6	55.6	42.9
02:00-03:00	65.1	42.7	51.5	59.1	58.1
03:00-04:00	42.9	51.2	60.3	44.3	56.0
04:00-05:00	47.3	51.3	46.2	46.8	54.2
05:00-06:00	51.0	44.9	48.4	51.1	44.8

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	13 - Rock Bond Approach (Jetty)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	28/05/2020	16/06/2020	17/07/2020	18/08/2020	15/09/2020
6:00-7:00	61.2	40.5	58.4	56.8	60.2
7:00-8:00	51.6	45.6	52.2	40.8	48.9
8:00-9:00	42.8	61.1	51.6	51.5	50.3
9:00-10:00	47.3	66.2	46.9	47.3	55.4
10:00-11:00	53.8	67.8	60.9	61.1	59.2
11:00-12:00	44.3	50.6	48.5	48.9	49.4
12:00-13:00	65.1	57.8	51.7	51.1	51.0
13:00-14:00	55.8	50.1	50.3	66.1	57.3
14:00-15:00	48.6	57.4	46.2	47.2	65.1
15:00-16:00	42.9	45.7	47.6	45.9	44.9
16:00-17:00	61.3	46.5	57.6	50.1	48.8
17:00-18:00	66.2	43.9	65.4	44.1	53.9
18:00-19:00	50.5	44.5	56.2	45.9	58.1
19:00-20:00	46.8	42.4	49.5	60.6	64.2
20:00-21:00	55.6	69.1	52.5	40.9	59.1
21:00-22:00	45.4	69.6	50.0	44.8	54.9

Sampling Location	13 - Rock Bond Approach (Jetty)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	28/05/2020 & 29/05/2020	16/06/2020 & 17/06/2020	17/07/2020 & 18/07/2020	18/08/2020 & 19/08/2020	15/09/2020 & 16/09/2020
22:00-23:00	52.3	46.9	52.7	56.2	51.2
23:00-00:00	64.5	44.7	48.8	48.3	55.3
00:00-01:00	54.8	48.4	47.5	51.8	61.1
01:00-02:00	47.2	44.5	54.2	50.2	49.2
02:00-03:00	50.8	67.7	60.5	57.1	42.9
03:00-04:00	42.5	50.2	48.7	46.8	56.2
04:00-05:00	51.2	55.3	44.3	47.9	50.1
05:00-06:00	59.9	53.2	50.6	48.3	68.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	14 - New Gate				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	28/05/2020	17/06/2020	18/07/2020	19/08/2020	16/09/2020
6:00-7:00	54.1	52.9	49.9	48.2	57.1
7:00-8:00	44.2	51.0	51.3	50.0	60.2
8:00-9:00	48.2	48.8	55.4	51.2	55.3
9:00-10:00	61.1	52.1	68.9	58.6	59.2
10:00-11:00	55.4	50.0	49.7	42.8	48.9
11:00-12:00	47.8	59.4	50.8	52.3	50.4
12:00-13:00	53.1	50.7	52.6	42.3	48.5
13:00-14:00	50.6	44.8	48.4	47.6	68.1
14:00-15:00	51.8	51.8	51.2	56.8	49.4
15:00-16:00	45.9	46.4	60.3	60.6	57.2
16:00-17:00	42.5	54.6	44.7	47.6	53.1
17:00-18:00	67.8	51.5	53.1	51.8	59.1
18:00-19:00	49.1	48.9	47.2	55.1	70.1
19:00-20:00	51.2	45.4	46.4	52.4	44.9
20:00-21:00	46.6	42.1	56.1	55.4	54.0
21:00-22:00	52.2	40.6	42.8	50.1	42.8

Sampling Location	14 - New Gate				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	28/05/2020 & 29/05/2020	17/06/2020 & 18/06/2020	18/07/2020 & 19/07/2020	19/08/2020 & 20/08/2020	16/09/2020 & 17/09/2020
22:00-23:00	46.7	69.0	51.4	61.4	67.1
23:00-00:00	51.4	58.7	45.4	69.2	55.2
00:00-01:00	64.6	53.5	62.8	42.9	47.9
01:00-02:00	57.2	57.2	45.8	44.9	45.8
02:00-03:00	54.3	59.8	55.9	45.5	61.1
03:00-04:00	41.9	69.3	44.8	50.0	58.1
04:00-05:00	45.6	51.4	45.3	51.6	53.1
05:00-06:00	48.5	47.6	48.3	49.2	50.4

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	15 - Security Barrier Gate				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	29/05/2020	18/06/2020	20/07/2020	20/08/2020	17/09/2020
6:00-7:00	60.1	55.1	65.1	47.2	61.1
7:00-8:00	47.2	56.4	44.3	61.3	58.2
8:00-9:00	48.4	58.9	55.3	50.7	54.3
9:00-10:00	57.2	44.9	60.1	48.1	59.2
10:00-11:00	68.1	50.5	49.2	51.5	60.1
11:00-12:00	48.7	46.9	50.2	50.1	48.8
12:00-13:00	50.1	45.8	52.3	58.1	55.3
13:00-14:00	51.5	51.1	44.4	55.6	47.4
14:00-15:00	57.4	55.6	48.2	45.6	50.3
15:00-16:00	46.5	55.2	55.1	44.9	57.4
16:00-17:00	50.8	51.2	42.6	59.1	44.9
17:00-18:00	44.9	48.4	46.8	42.1	58.3
18:00-19:00	58.9	52.4	57.2	48.8	48.9
19:00-20:00	45.7	50.9	61.3	50.0	62.3
20:00-21:00	56.4	51.6	45.6	45.9	56.2
21:00-22:00	49.2	55.3	53.2	46.6	47.9

Sampling Location	15 - Security Barrier Gate				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	29/05/2020 & 30/05/2020	18/06/2020 & 19/06/2020	20/07/2020 & 21/07/2020	20/08/2020 & 21/08/2020	17/09/2020 & 18/09/2020
22:00-23:00	45.8	51.6	47.4	55.1	48.2
23:00-00:00	44.6	45.8	53.8	48.1	51.2
00:00-01:00	61.9	44.6	64.5	50.7	60.2
01:00-02:00	59.8	53.3	52.1	67.1	58.8
02:00-03:00	44.2	57.9	50.8	45.9	46.9
03:00-04:00	46.9	59.2	56.8	51.4	48.9
04:00-05:00	59.4	46.4	41.9	58.1	60.1
05:00-06:00	58.1	45.2	49.1	56.2	54.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	16 - JS-2				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	29/05/2020	19/06/2020	21/07/2020	21/08/2020	18/09/2020
6:00-7:00	51.2	69.1	48.4	68.1	55.1
7:00-8:00	55.8	45.4	51.8	48.2	61.2
8:00-9:00	41.3	44.6	62.6	50.0	47.9
9:00-10:00	60.8	47.6	44.5	51.2	58.4
10:00-11:00	67.5	60.3	53.6	58.6	60.1
11:00-12:00	50.2	55.9	49.8	42.8	44.9
12:00-13:00	57.4	44.4	45.2	52.2	57.1
13:00-14:00	46.5	45.9	48.7	42.8	68.0
14:00-15:00	43.4	50.7	51.5	47.6	54.2
15:00-16:00	50.8	52.8	48.6	54.8	47.8
16:00-17:00	53.2	49.9	54.2	60.6	59.1
17:00-18:00	48.5	51.9	46.5	47.6	50.3
18:00-19:00	50.3	59.9	54.0	51.8	51.4
19:00-20:00	42.9	47.2	44.6	55.1	46.9
20:00-21:00	46.4	51.2	49.7	52.4	42.8
21:00-22:00	48.7	59.6	53.4	50.1	54.1

Sampling Location	16 - JS-2				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	29/05/2020 & 30/05/2020	19/06/2020 & 20/06/2020	21/07/2020 & 22/07/2020	21/08/2020 & 22/08/2020	18/09/2020 & 19/09/2020
22:00-23:00	50.5	69.1	60.9	59.6	53.1
23:00-00:00	48.4	50.4	59.1	47.4	49.2
00:00-01:00	67.1	55.4	44.1	50.9	48.3
01:00-02:00	49.8	50.7	50.3	46.8	55.1
02:00-03:00	40.9	59.4	58.2	54.6	58.9
03:00-04:00	52.1	53.1	48.9	49.8	60.1
04:00-05:00	53.1	50.3	50.1	42.8	44.9
05:00-06:00	58.9	47.3	53.2	56.2	49.4

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	17 - Railway Dead End				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	30/05/2020	20/06/2020	22/07/2020	22/08/2020	19/09/2020
6:00-7:00	59.2	42.6	51.9	59.1	52.1
7:00-8:00	58.3	53.4	55.3	42.1	47.9
8:00-9:00	51.9	50.1	47.5	52.9	61.1
9:00-10:00	62.2	58.4	50.4	48.9	59.2
10:00-11:00	60.5	47.9	48.1	50.1	58.1
11:00-12:00	48.3	60.2	61.2	67.7	44.9
12:00-13:00	59.3	50.5	52.4	51.2	50.1
13:00-14:00	51.1	48.4	58.3	61.1	53.4
14:00-15:00	58.4	51.7	60.2	45.9	47.9
15:00-16:00	44.3	52.9	54.1	60.0	60.0
16:00-17:00	45.3	49.4	45.6	42.8	42.9
17:00-18:00	50.4	51.5	49.2	40.9	48.9
18:00-19:00	68.4	47.8	43.8	52.3	51.2
19:00-20:00	48.1	48.2	45.3	53.4	50.1
20:00-21:00	43.9	55.3	56.3	56.2	49.9
21:00-22:00	56.4	50.6	68.6	47.9	50.0

Sampling Location	17 - Railway Dead End				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	30/05/2020 & 31/05/2020	20/06/2020 & 21/06/2020	22/07/2020 & 23/07/2020	22/08/2020 & 23/08/2020	19/09/2020 & 20/09/2020
22:00-23:00	67.5	50.9	50.2	44.8	56.1
23:00-00:00	43.2	44.4	40.9	57.1	47.4
00:00-01:00	55.4	59.3	65.4	55.6	58.1
01:00-02:00	50.7	55.2	42.8	69.1	56.2
02:00-03:00	44.8	46.4	60.8	44.3	49.2
03:00-04:00	64.2	50.4	45.9	46.8	45.0
04:00-05:00	57.8	54.6	54.8	51.1	54.0
05:00-06:00	42.8	60.1	44.0	42.8	69.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	18 – Open Storage Yard – 1				
	During Day Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	30/05/2020	22/06/2020	23/07/2020	24/08/2020	21/09/2020
6:00-7:00	46.2	50.9	51.4	49.4	51.5
7:00-8:00	56.1	44.2	48.2	53.4	58.1
8:00-9:00	51.3	61.3	50.1	44.9	46.9
9:00-10:00	46.9	58.5	45.1	42.8	58.5
10:00-11:00	50.5	51.8	52.3	41.9	48.8
11:00-12:00	51.4	44.5	42.6	52.4	51.0
12:00-13:00	55.5	61.1	47.3	42.8	47.9
13:00-14:00	58.8	50.2	53.2	47.9	65.1
14:00-15:00	45.5	45.8	52.8	61.1	61.2
15:00-16:00	47.4	54.4	56.8	50.0	50.0
16:00-17:00	44.8	57.2	51.6	44.9	55.1
17:00-18:00	69.9	55.1	47.2	40.9	50.0
18:00-19:00	46.8	52.2	46.9	51.3	44.9
19:00-20:00	48.6	56.6	44.3	48.9	59.1
20:00-21:00	44.9	49.2	42.8	49.9	48.9
21:00-22:00	54.8	46.7	45.7	47.6	42.8

Sampling Location	18 – Open Storage Yard – 1				
	During Night Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	30/05/2020 & 31/05/2020	22/06/2020 & 23/06/2020	23/07/2020 & 24/07/2020	24/08/2020 & 25/08/2020	21/09/2020 & 22/09/2020
22:00-23:00	51.1	42.9	52.9	61.8	61.1
23:00-00:00	47.6	45.4	48.1	50.7	58.2
00:00-01:00	60.4	48.9	51.8	44.8	47.4
01:00-02:00	59.3	51.1	47.6	49.2	50.1
02:00-03:00	51.6	59.9	50.4	42.9	45.9
03:00-04:00	42.1	48.1	52.2	45.4	54.4
04:00-05:00	50.3	58.1	54.3	54.6	65.2
05:00-06:00	54.6	58.9	42.4	57.1	57.1

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	19 – Loco Shed				
	During Day Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	31/05/2020	23/06/2020	24/07/2020	25/08/2020	22/09/2020
6:00-7:00	56.2	40.8	50.6	48.2	59.2
7:00-8:00	47.6	65.1	50.8	58.1	54.1
8:00-9:00	60.4	55.8	60.9	55.4	69.1
9:00-10:00	48.2	48.6	68.1	52.6	46.9
10:00-11:00	55.4	42.8	45.9	42.9	52.8
11:00-12:00	50.7	48.3	56.5	47.9	44.9
12:00-13:00	54.3	46.4	40.6	60.0	58.1
13:00-14:00	53.9	56.5	55.2	46.6	62.1
14:00-15:00	57.3	43.9	46.8	62.1	50.1
15:00-16:00	60.2	44.9	50.0	50.0	50.0
16:00-17:00	54.9	57.4	54.6	44.9	55.6
17:00-18:00	47.5	57.1	58.4	60.0	48.8
18:00-19:00	68.1	52.1	47.8	40.9	54.2
19:00-20:00	45.4	50.3	52.6	40.9	60.0
20:00-21:00	57.5	52.3	44.4	52.3	52.8
21:00-22:00	52.9	45.6	56.9	55.6	45.9

Sampling Location	19 – Loco Shed				
	During Night Time - dB(A) Leq <sup>#</sup>				
Date of Monitoring	31/05/2020 & 01/06/2020	23/06/2020 & 24/06/2020	24/07/2020 & 25/07/2020	25/08/2020 & 26/08/2020	22/09/2020 & 23/09/2020
22:00-23:00	47.8	55.9	56.1	45.4	52.1
23:00-00:00	48.1	54.2	48.6	42.9	47.9
00:00-01:00	61.1	57.8	44.6	50.7	58.2
01:00-02:00	55.1	51.7	60.1	47.8	42.9
02:00-03:00	43.6	55.1	62.3	58.1	68.1
03:00-04:00	50.6	43.6	45.6	45.6	57.1
04:00-05:00	47.4	52.9	40.2	45.7	44.9
05:00-06:00	60.1	47.4	63.1	52.4	52.8

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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 April 2020 to September 2020**

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)				
	During Day Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	31/05/2020	24/06/2020	25/07/2020	26/08/2020	23/09/2020
6:00-7:00	50.1	58.1	50.2	52.6	46.5
7:00-8:00	47.9	40.9	45.5	60.0	54.8
8:00-9:00	50.9	44.8	58.2	46.6	58.1
9:00-10:00	52.8	51.3	47.6	58.5	42.9
10:00-11:00	59.4	60.1	60.1	48.4	55.2
11:00-12:00	52.3	50.8	55.1	40.6	49.3
12:00-13:00	53.4	55.6	45.8	50.0	59.1
13:00-14:00	45.6	50.4	47.4	44.9	53.9
14:00-15:00	47.8	58.9	66.1	60.0	60.1
15:00-16:00	50.0	50.0	65.1	40.9	40.9
16:00-17:00	55.6	42.9	42.9	52.3	49.1
17:00-18:00	57.2	48.1	56.7	55.6	56.1
18:00-19:00	44.2	56.8	44.8	49.4	47.9
19:00-20:00	47.2	59.8	58.1	53.4	57.1
20:00-21:00	48.4	54.8	50.3	47.9	48.9
21:00-22:00	57.1	56.4	41.8	51.1	50.4

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)				
	During Night Time - dB(A)Leq <sup>#</sup>				
Date of Monitoring	31/05/2020 & 01/06/2020	24/06/2020 & 25/06/2020	25/07/2020 & 26/07/2020	26/08/2020 & 27/08/2020	23/09/2020 & 24/09/2020
22:00-23:00	45.9	47.8	47.8	51.3	49.2
23:00-00:00	48.3	45.9	51.2	61.1	58.3
00:00-01:00	51.8	58.2	40.8	45.0	45.4
01:00-02:00	55.3	51.8	52.3	62.1	55.3
02:00-03:00	42.4	50.6	60.2	45.6	42.9
03:00-04:00	52.9	52.4	49.2	50.3	53.9
04:00-05:00	49.4	49.3	51.3	58.3	45.9
05:00-06:00	51.5	51.5	56.2	56.8	50.4

**Note: Monitoring was not done due to COVID-19 from 28<sup>th</sup> March 2020 to 18<sup>th</sup> May 2020**

<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**

● FSSAI Approved Lab ● Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986 ● GPCB approved schedule II auditor ● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008

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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: April-2020 to September-2020**

Sr. No.	Parameters	Unit	DG Set # 1 MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3 Marine (SS8)		DG Set # 4 Silo (SS11)	
			26/05/2020	22/08/2020	26/05/2020	22/08/2020	26/05/2020	22/08/2020	26/05/2020	22/08/2020
1	Particulate Matter	mg/Nm <sup>3</sup>	24.37	20.44	16.84	12.51	26.74	23.42	19.42	16.64
2	Sulphur Dioxide	ppm	4.53	5.49	6.96	4.81	8.70	6.21	5.28	4.37
3	Oxide of Nitrogen	ppm	26.42	31.23	29.36	26.60	33.73	30.45	35.81	28.37
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>	5.82	8.59	8.29	6.25	6.13	8.44	9.32	6.36

**Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: April-2020 to September-2020**

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location		At 1 m from the enclose outside
	Sampling Date		
1.	DG Set # 1MRSS (SS5)		26/05/2020 73.6 22/08/2020 72.9
2.	DG Set # 2 SS7B		26/05/2020 72.5 22/08/2020 73.5
3.	DG Set # 3Marine (SS8)		26/05/2020 71.8 22/08/2020 72.6
4.	DG Set # 4Silo (SS11)		26/05/2020 72.6 22/08/2020 71.8



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**Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., September' 2020**

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> Vehicle tyre washing system has been provided.
	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> <li>Monitoring reports are presented in the <b>Annexure 3G.</b></li> </ul>



S. No.	EMP Conditions	Compliance Status
	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 April' 2020 to September' 2020 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 Bioneer 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 point at coal stack yard area. Various types of water spray nozzles have been installed and the	<b>Complying with.</b> All dust control systems are maintained and operating well.



S. No.	EMP Conditions	Compliance Status
	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	
	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> Wind breaker of the same specification shall be provided in the additional storage area once completed.
	Road sweeping of dust is being undertaken using mobile van thereby preventing settled dust gets airborne due to movement of vehicles and high wind velocity and the same is recommended	<b>Complying with.</b> Two dust sweeping machines (mobile van) & one tractor sweeping machine are working at site.
	High capacity vacuum cleaning machine installed at mobile truck is deployed for removal of dust settled on roads and the same practices will be implemented in the proposed project.	
	Regular wetting of the roads is undertaken through dedicated truck mounted spray arrangement with least water consumption. The same will be implemented in the proposed activities.	<b>Complying with.</b> Sprinkling of water is being done on the roads to control the dust.
2.2	<b>Noise Control Management Plan</b>	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	<b>Shall be complied.</b> Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	<b>Complying with.</b> DG sets installed in open area are provided with acoustic enclosure
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	<b>Complying with.</b> Compressor and DG sets & Pump house are installed in separate building and provided with acoustic enclosures.
	Movement of vehicles within the port will be restricted with speed control measures	<b>Complying with.</b> <ul style="list-style-type: none"> <li>Speed is limited within the port premises.</li> </ul>



S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none"> <li>Proper signage also provided within the premises.</li> </ul>
	Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port	<b>Complying with.</b> All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.
	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.
	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 14001:2015. 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>	
	<p>Following areas will be provided with storm water drainage systems to prevent any surface run-off in to the sea.</p> <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.
	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	Environmental Management Cell			
	APPPL has already established and maintained an Environmental Management Cell (EMC) with Head of Department (EHS), supported by field level executives and horticulturist for implementation of the compliance conditions as per Environmental Clearance obtained and GPCB Consent Conditions. Periodical monitoring activities are being undertaken by MoEF recognized and NABL accredited environmental laboratories. Environmental compliance reports are regularly submitted to MoEF regional office, Vadodara and New Delhi.			<b>Complied.</b> APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 7</b> .
	EMC will be further strengthened in view of the proposed expansion by augmenting resources such as manpower and field equipments, for effective compliance of environmental clearance conditions. Environmental monitoring program			



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.	
<b>2.9</b>	<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 and Socio Economic activities.</p> <ul style="list-style-type: none"> <li>• Key components of environment budget are environmental Monitoring, STP's (O&amp;M), Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24lacs. Details of the environmental budget and expenditure for the period April, 2020 to September, 2020 is enclosed as <b>Annexure – 6.</b></li> </ul>



**Annexure-II Adani Petronet (Dahej) Port Pvt. Ltd.  
Green Zone**

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)				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)	3450	2500		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	



	Total	2.18	7241.00		2700.00	2100.00	2000.00		
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)					
	Workshop area		50	azadirachta indica (1.5 x 1.5m)					
	Workshop area		30	peltophorum pterocarpum (1.5 x 1.5m)					
	Total	1.23	3660						
Trees Total Green Zone Area (Ha)		15.714450	45631.00		10950.00	14300.00	2925.00		
hrub/carpet /palm Total Green Zone Area (Ha)		3.695			1.095	1.43	1.17		
	Total Green Zone Area (Ha)	19.40945							



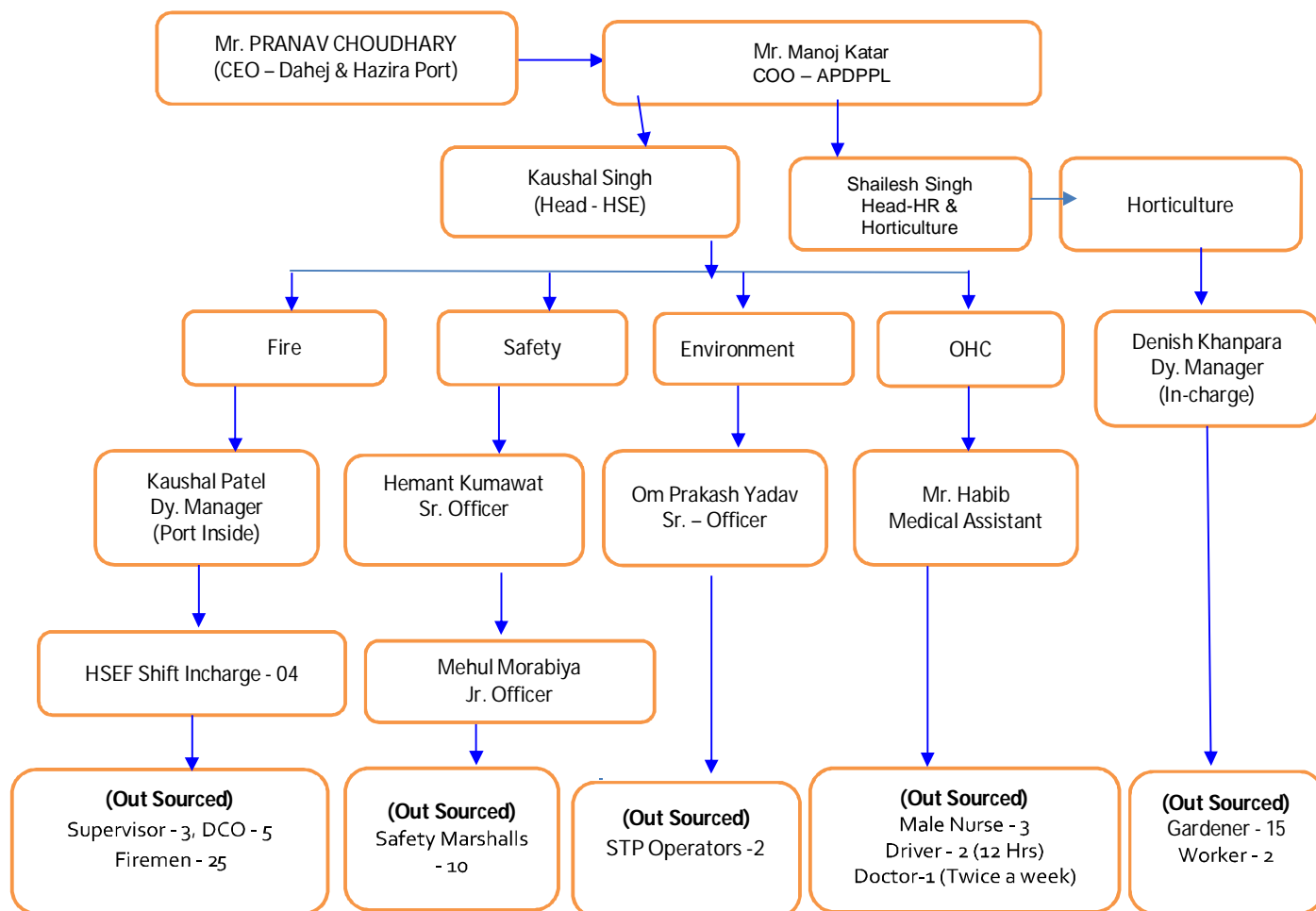
**Annexure – 6: Environment Budget and Expenditure for the FY: 2020-21**

S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	EHS Manpower	7.0	3.43
2.	Legal & Statutory Expenses	5.0	4.0
3.	Environmental Monitoring Services	21.0	7.94
4.	Cost for Water Consumption and use dust suppression	104.7	31.56
5.	Hazardous Waste Management & Disposal	2.0	2.15
6.	Greenbelt Development and Plantation	43.64	17.0
7.	O&M of Sewage Treatment Plant	6.70	2.97
8.	Environment Day Celebration	0.10	0.10
9.	Treatment and Disposal of Bio-Medical Waste	2.0	0.96
10.	Operation and Maintenance of Road Cleaning equipment and manpower	56.72	27.31
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	79.38	20.30
14.	Environmental Study / Audit and Consultancy	5.0	3.07
15.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	7.0	6.78
16.	EHS Display Board	5.0	0.0
<b>TOTAL AMOUNT (IN LACS)</b>		<b>345.24</b>	<b>127.39</b>

CAPITAL EXPENDITURE			
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	Roof top rain water harvesting project	20.0	0.0
<b>TOTAL AMOUNT (IN LACS)</b>		<b>20.0</b>	<b>0.0</b>

<b>TOTAL AMOUNT (IN LACS)</b>	<b>365.24</b>	<b>127.39</b>
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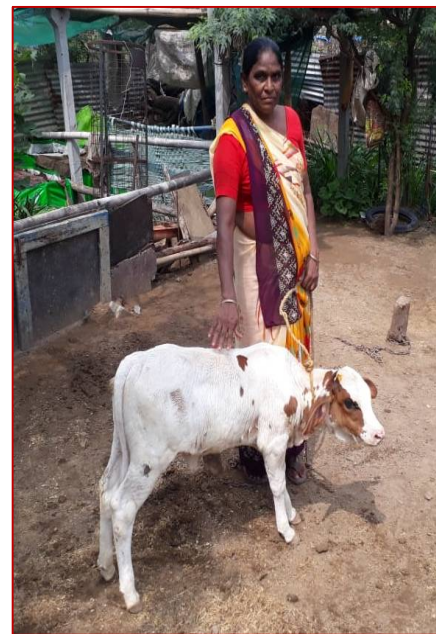
**Annexure - 7: Organogram of APDPPL - Environment Management Cell****ADANI PETRONET (DAHEJ) PORT PVT. LTD.****Department: QHSE Management Cell**

Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	13.5 Years
2.	Denish Khanpara	Dy. Manager (Horticulture)	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	13.5 Years
3.	Kaushal Patel	Dy. Manager (Fire)	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	15.5 Years
4.	Hemant Kumawat	Sr. Officer (Safety)	Dip – Mech, Dip. In Fire & Safety, NEBOSH	11 Years
5.	Om Prakash Yadav	Sr. Officer (Environment)	M.Sc. Environment Science	6.5 Years
6.	Mehul Morabiya	Jr. Officer	B.Sc. Fire & Safety, Advance Diploma in Industrial Safety, NEBOSH	10.5Years



## Corporate Social Responsibility Report

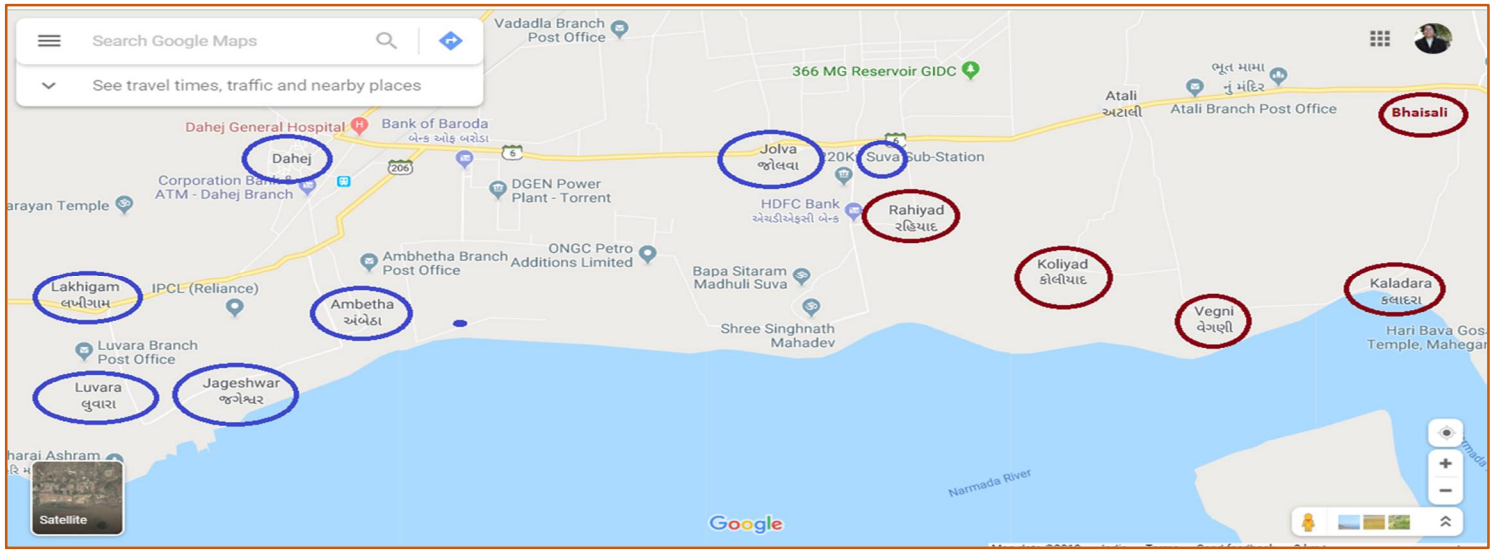
(FOR THE PERIOD: APRIL, 2020 TO SEPTEMBER, 2020)



ADANI FOUNDATION, DAHEJ



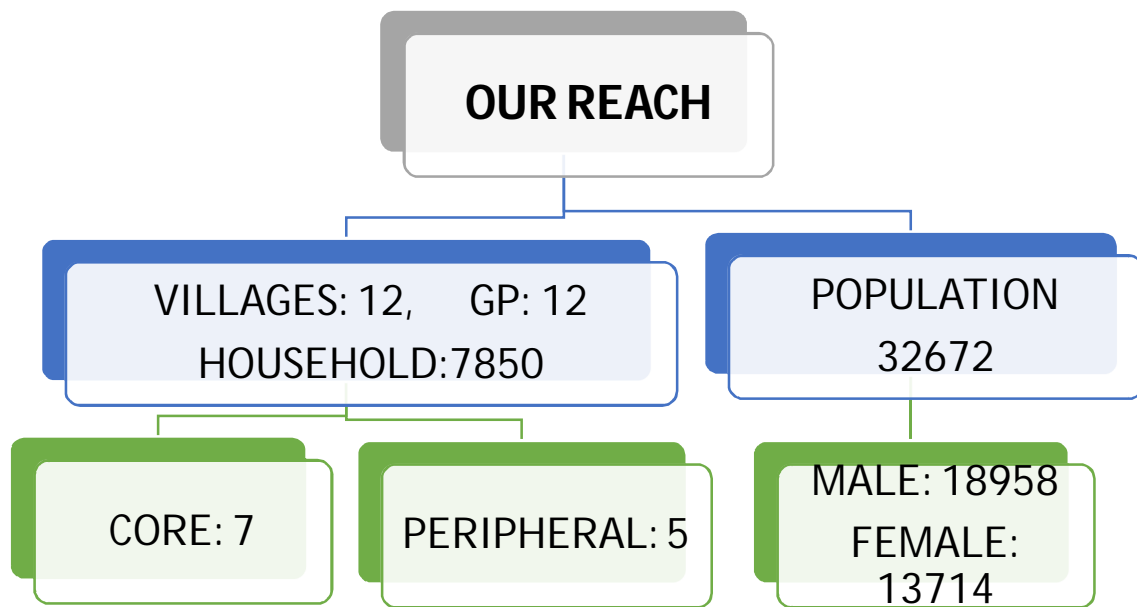
## OUR REACH



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	Ambheta	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

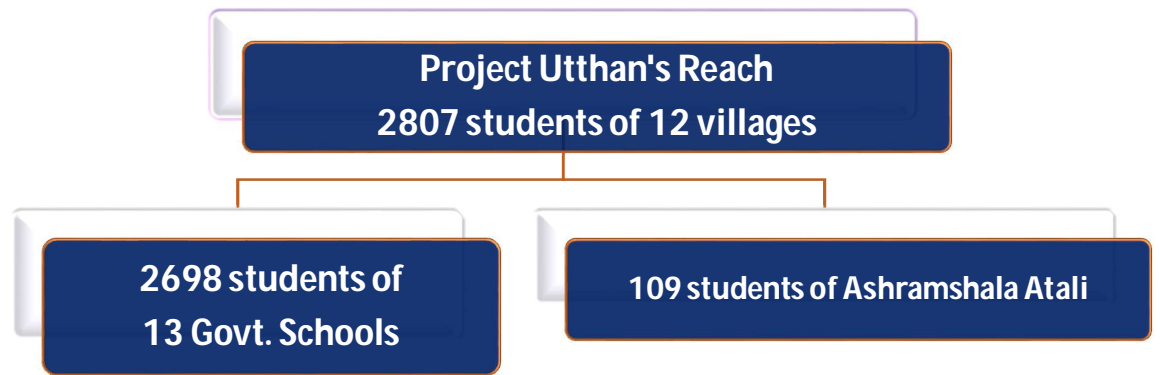
### 4. Community Infrastructure Development





# EDUCATION

## PROJECT UTTHAN



An MOU signed with District Education, Bharuch for implementation of Project Utthan in 13 Govt. Schools of project villages and the other MOU signed with Ashramshala Atali. Total 2807 students of 12 villages would get benefitted with this education initiative.



MOU with District Education Department



MOU with Ashramshala Atali



## Project Utthan's School Details

S. No	Village	Name of the School	Standard	No. of Students
1	Lakhigam	Primary School	Std: 1 to 8	476
2	Luvara	Primary School	Std: 1 to 8	232
3	Jageshwar	Primary School	Std: 1 to 8	115
4	Dahej	Primary School Nava Vadia	Std: 1 to 5	37
5		Primary School Kanyashala	Std: 1 to 8	364
6		Primary School Kumarshala	Std: 1 to 8	390
7	Ambheta	Primary School	Std: 1 to 8	155
8	Jolva	Primary School	Std: 1 to 8	134
9	Suva	Primary School	Std: 1 to 8	217
10	Vengni	Primary School	Std: 1 to 8	112
11	Rahiyad	Primary School	Std: 1 to 8	222
12	Koliyad	Primary School	Std: 1 to 7	71
13	Kaladra	Primary School	Std: 1 to 8	173
14	Ashramshala Atali	Primary School	Std: 1 to 8	109
<b>Total Strength:</b>				2807





## COMMUNITY HEALTH

Activities	Highlights	Up to September 2020
Awareness Drive	On 16 <sup>th</sup> July, 2020 AF team, Multi-Purpose Health Worker Abhesang Bhal and ASHA Vandanaben conducted door to door COVID – 19 awareness program at Rathod Faliya of Ambheta village. People were asked to wear masks, handwashing for 20 seconds and keep social distancing. IEC materials were also distributed among the people.	13 beneficiaries
Meeting with Govt. officials	A meeting with Taluka Health Officer, Vagra; Medical Officer, Dahej Primary Health Centre was held for AF's new initiative support in screening of hypertension & diabetic patients turn at Dahej PHC.	Equipment installation in progress





# Project SuPoshan

S.N	Month	Village	Event	Participation
1	May	Dahej	Menstrual hygiene	Adolescent girls & RPA women Total: 27
2	May	Jolva	Health & hygiene	RPA Women Total-15
3	May	Jolva	No Tobacco Day celebration	RPA women Total-12
8	August	Lakhigam	Breast feeding week	RPA women Total-4
9	August	Lakhigam & Luvara	Breast feeding week	Pregnant women & Lactating Mothers Total-25
10	August	Lakhigam, Suva & Jolva	National De-worming Day	Children -143, Adolescent Girls- 40 Total-183
11	September	Lakhigam, Luvara & Jolva	National Nutrition Month	Adolescent girls - 49, RPA-women & Pregnant women & Lactating Mothers – 43 TOTAL: 92
12	September		Webinar with support of Krishi Vigyan Kendra, Chasvad	Total: 17



Sanginis: 6  
Children  
(0 -5 yrs):  
1001  
Adolescents  
: 996  
Women:  
2676







## SUSTAINABLE LIVELIHOOD DEVELOPMENT

**PASHUDHAN PROGRAM:** This program is implemented in 12 villages with support of BAIF since 2017. 1<sup>st</sup> phase is completed on 31<sup>st</sup> March 2020. For 2<sup>nd</sup> phase an MOU is signed with BAIF for a period of 3 years.

### Cattle Survey

Cattle survey is going on in project villages. Status of the survey is given table

		Year 2017				Year 2020			
S.N	Village name	Animal Holding Family	Cow	Buffalo	Total	Animal Holding Family	Cow	Buffalo	Total
1	Lakhigam	37	25	53	78	36	28	80	108
2	Luvara	41	40	81	121	54	75	319	394
3	Jageshwar	27	34	38	72	32	6	79	85
4	Dahej	31	41	258	299	25	82	199	281
5	Koliyad	29	5	113	118	23	40	102	142
	<b>Total</b>	<b>165</b>	145	543	<b>688</b>	<b>170</b>	231	779	<b>1010</b>

### Animal vaccination

Animal vaccination is going on with support of Govt.'s animal husbandry department. Till July 2020, 600 animals covered so far.

S.N	Village Name	Beneficiaries	Vaccination Status Cow	Vaccination Status 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>



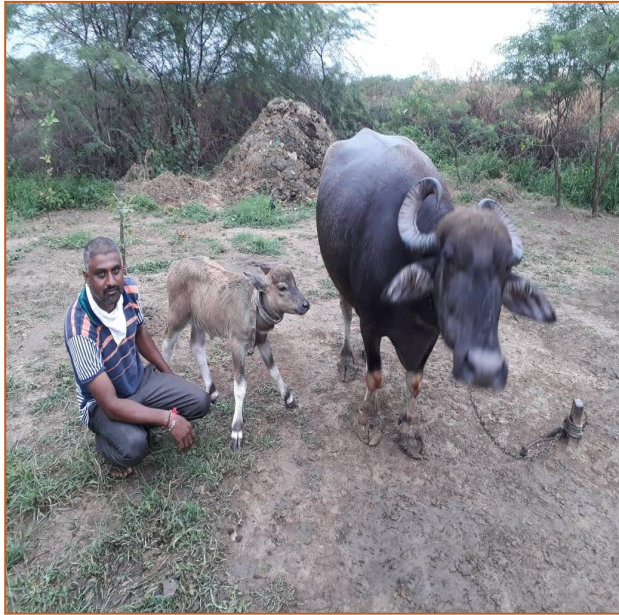
### AI & PD Details April - August 2020

S.N		AI			Pregnancy Examination			Pregnant			Calving		
1	Village	Cow	Buffalo	Total	Cow	Buffalo	Total	Cow	Buffalo	Total	Cow	Buffalo	Total
2	Lakhigam	2	4	6	8	25	33	7	16	23	1	5	6
3	Luvara	13	8	21	5	16	21	2	5	7	7	4	11
4	Jageshwar	2	4	6	0	10	10	0	6	6	0	0	0
5	Ambheta	0	0	0	0	1	1	0	1	1	0	0	0
6	Dahej	13	8	21	19	34	53	16	22	38	8	9	17
7	Jolva	0	0	0	0	0	0	0	0	0	0	0	0
8	Suva	0	0	0	0	0	0	0	0	0	0	1	1
9	Rahiyad	0	0	0	0	4	4	0	4	4	0	0	0
10	Koliyad	5	1	6	5	17	22	4	13	17	4	8	12
11	Atali	4	0	4	0	1	1	0	1	1	5	0	5
12	Vengni	34	0	34	45	5	50	16	4	20	20	1	21
13	Kaladra	3	7	10	2	6	8	2	5	7	17	8	25
	<b>Total</b>	<b>76</b>	<b>32</b>	<b>108</b>	<b>84</b>	<b>119</b>	<b>203</b>	<b>47</b>	<b>77</b>	<b>124</b>	<b>62</b>	<b>36</b>	<b>98</b>

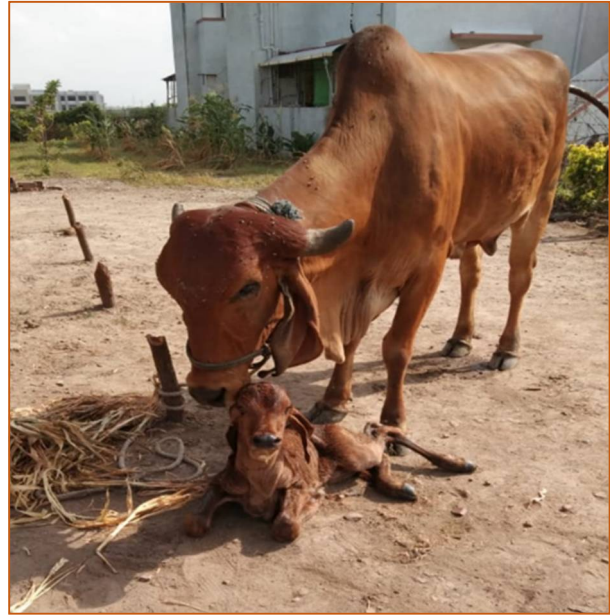
### SEX SORTED SEMEN DETAILS APRIL – AUGUST 2020

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	April	0	0	0	0	0	0	0	0	0	0	0
2	May	04	2	2	4	1	4	5	2	0	2	4
3	June	04	5	0	5	2	6	8	0	1	1	5
4	July	04	2	0	2	2	3	5	4	1	5	2
5	August	04	1	0	1	2	2	4	2	0	2	1
<b>Total</b>		<b>16</b>	<b>10</b>	<b>02</b>	<b>12</b>	<b>07</b>	<b>15</b>	<b>22</b>	<b>08</b>	<b>02</b>	<b>10</b>	<b>12</b>





Ahir Dineshbhai Bhavanbhai  
Village: Dahej  
Female calf: Murrah



Yogendrasinh Anopsinh Chauhan  
Village: Atali  
Female calf: Gir

## INFERTILITY CAMP & GENERAL HEALTH CAMP REPORT

Infertility Camp and General Health Camp on 7<sup>th</sup> September 2020 in Luvara village. In this camp 36 animals of 24 beneficiaries were treated. Camps were held at 2 locations of village: Ahir Phalia and near Mahadev Mandir. Animals were treated by Dr. Amol Vagh of BAIF Institute Sustainable Livelihood Developments.

### TREATMENT SUMMARY

S.N	Animal	Anoestrus	Repeat Breeding syndrome	Lameness	Mastitis	Diarrhoea	Total
1	Cow	1	2	2	1	2	8
2	Buffalo	3	5	8	4	6	26
3	Goat	0	0	02	0	0	2
	<b>Total</b>	<b>4</b>	<b>7</b>	<b>12</b>	<b>5</b>	<b>8</b>	<b>36</b>

An interactive session was 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 diarrhoea.
- 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 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.



**Early Pregnancy Diagnostic (EPD) kit** was introduced in the session by Mr. Shambhu Bhai Desai, District Coordinator – BAIF. He explained about EPD kit in simple way. Beneficiaries' said 'it is good in taking care of pregnant animals.'

Mr. Raisunghai Rathod, Sarpanch, Luvara Gram Panchayat was also present in the camp. He highly appreciated Adani Foundation's Pashudhan Program.





## GREEN FODDER CULTIVATION GETTING MOMENTUM

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. 3 beneficiaries – Jitubhai, Hamirsinh and Vinod Madhavsinh 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.

Green fodder is an alternate source of income for beneficiaries. 2 beneficiaries Jitubhai and Rakshaben is earning continuously through green fodder. They cultivated green fodder in available land with them. Their efforts motivate others for plantation of fodder stump. Hamirsinh of Luvara village also get inspired and he earned an income of Rs.12000/- first time from green fodder.

Savings on green fodder is given in below table. **Total savings: Rs.85800/**

S.N	Name	Village	Land in sq, m	Quantity (ton)	Amount (in Rs.)
1	Jitubhai Rajibhai Gohil	Lakhigam	101.2	2	22800
2	Rakshaben V.Patel	Jageshwar	505.9	2	40200
3	Hamirsinh K.Parmar	Luvara	303.5	0.8	16800
4	Gema Badharbhai	Lakhigam	101.2	1	6000
		<b>Total</b>		<b>5.8</b>	<b>85800</b>



## CASE STUDY

### 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.





# SELF HELP GROUPS

## SHIV SHAKTI SAKHI MANDAL, JAGESHWAR

### Activities:

- **Mask stitching:** Shiv Sakti Sakhi Mandal earned Rs. **1,39,580/-** from masks stitching. Sakhi Mandal got an order of 20000 masks from LNG Petronet Ltd, Dahej. SHG members completed this assignment by following the guidelines given by LNG Petronet Ltd – from clothe cutting to packaging. These masks were distributed among the villagers. Mask stitching is now in their regular practice. They sell masks at local level.

S.N	Particular	Unit	Required Qty.	Rate (in Rs.)	Price (in Rs.)	Total (in Rs.)
1	Cloth	Meter	667	25	16675	
2	Thread	Reel	85	3	255	
3	Elastic	Meter	1250	1.5	1875	
4	Logo print	No's	5000	2.5	12500	
5	Wash	No's	5000	0.1	500	
6	Packaging	No's	5000	0.1	500	
7	Freight charge	No's	5000	1	5000	
8	Electricity Charge	No	5000	1	5000	
9	Machine maintenance				50	
10	Labour Charges	No	5000	4	20000	80,000
11	Other(Sample)				250	
A	Mask Cost Price	No	5000		62605	250,420
B	Selling price	No	5000		77500	310,000
A-B	Net Profit				14895	59,580
	SHG earning					139,580

## Skill Development Training

Adani Foundation has organized a skill development training program for Shiv Shakti Shakti Mandal (SHG), Jageshwar. This skill upgradation training is of 1 month. Objective of this training is to prepare SHG as per the market needs in terms of quality, products delivery on time and record keeping.

Shiv Shakti Sakhi Mandal is formed in 2018 with support of Adani Foundation. They have chosen bag making as their income generation activity. Before this training SHG members were engaged mainly in bag making particularly school bags from synthetic materials and daily utility bags from clothes and jute. Enthusiastic members of the SHG searched different designs of bags on internet and tried to copy the products themselves but they were not satisfied with the finished products. They self-realized a different set of skill is required for quality products. Then SHG members requested Adani Foundation to organize an advanced level training for them. On their request, Adani Foundation chosen Deepak Bhai of Bharuch as the resource person. He himself runs a bag making unit named URVI BAG in Bharuch.

Deepak Bhai started training from the basics: identification of bag's different parts e.g. buckles, locks, runners, hooks & identification of materials - denim, cord, matte, water proof synthetic materials. Till date SHG women have stitched school bags, office bags, laptop bags, travel bags, ladies' purses, pouches and different types of masks also. They are also learning machine maintenance and repair. Simultaneously, women have started selling bags in their village.





**Mahadev Mahila Sakhi Mandal, Luvara:** This SHG formed in February 2020. Since their inception all 11 members unanimously chosen Vermi Compost production as their income generation activity. Before production all members underwent capacity building training by BAIF professionals at field level. They also visited BAIF's Lachhakadi centre of Netrang District for SHGs basic training. District Livelihood Mission (DLM), Bharuch also organized a training on Accounting & book keeping for this SHG at Luvara. Mission provided them all essential stationaries for maintaining the records. DLM highly appreciated the efforts of Sakhi Mandal and announced that this SHG is the only SHG of Bharuch District who has chosen vermi compost production as their income generation activity. Till September 2020, members sold 4.052 ton vermi compost and earned Rs.24314.

Adani Foundation is providing all kinds of support to Sakhi Mandal – capacity building training, vermi beds and hand holding support in selling of vermi compost. At present they are selling vermi compost to ONGC Petro Additions Limited, Dahej.

**Sadhdada Mahila Sakhi Mandal, Lakhigam:** This SHG is also formed in February 2020. Till date they are doing monthly meetings and monthly savings. 4 members of this SHG underwent training of District Livelihood Mission, Bharuch.





## WORLD ENVIRONMENT DAY

World Environment Day is celebrated on 5th June 2020 to raise global awareness and to take positive environmental action to protect nature and the planet Earth. 110 saplings planted in Adani Dahej Port. Details of saplings: Guava: 30, Been: 50 and Yellow Gulmohar: 30

Horticulture Department has taken plantation as a mission in barren areas of the port. This year one part is chosen. At community level Sanginis at Dahej, Suva and Jolva planted 15 saplings of aloe vera, tulsi and mango



## World Yoga Day

celebrated on 21<sup>st</sup> June 2020 at community level in 2 project villages Lakhigam and Jageshwar whereas Sanginis of Suva and Jolva participated through virtual platform. At Lakhigam 25 women, adolescents and children did YOGASAN. Members of Shiv Shakti Sakhi Mandal, Jageshwar observed Yoga Day in their workshop.







## COMMUNITY INFRASTRUCTURE DEVELOPMENT

Under Community Infrastructure Development some works assigned in FY 2019-20 were completed in FY 2020-21



Shed construction at Navinagri, Lakhigam



Pond front development, Dahej



Community Hall, Ambheta

Direct Benefit	Direct Beneficiaries	Indirect Beneficiaries	Access Beneficiaries
Ambheta Community Hall: People of all religions of the village & Narmada Parikramavasi would use this hall	1330	12000	
Navinagri Shed Construction: people of Navinagri would utilize this shed for socio-religious purpose and during flood like situation.	1000		
Increase in storage capacity of pond	1000	13495	

## Support in Fight Against COVID – 19

S.N	Activities	Distribution	
1.	No. of ration kits distributed	1575 kits	Lakhigam: 350 District Administration: 400 Fisherman Community, Bharuch: 100 MLA, Vagra: 500 Dahej: 100, Suva: 50, Ambheta: 50, Taluka Panchayat: 25
2.	Grocery support	In Jolva village	Rice: 375 kg, Pulse: 95 kg and Oil: 30 litres
3.	No. of masks distributed	3200	Suva: 2000, Lakhigam: 400, Jageshwar: 100, District Administration: 400, Marine Police, Dahej: 300
4.	No. of soaps distributed	1500	Distributed in Suva village
5.	Door to door Awareness campaigns with Health Department	43	Jolva: 15, Suva: 15, Ambheta: 13,
6.	Immunity booster distribution with Health Department	440	Jolva: 405, Suva: 35





# MEDIA COVERAGE

## અદાણી ફાઉન્ડેશન-દહેજ દ્વારા કોરોના વાયરસ સંક્રમણ સમયમાં રાશનની કીટનું વિતરણ



કોરોના વાયરસ સંક્રમણનાં એપ.એલ.એ. શ્રીને પણ રાશન કીટો મુખ્યત્વે લખીગામ, દહેજ, અંબેડા, મુદેલ સમયમાં અદાણી ફાઉન્ડેશન પાસેથી કીટો મળ્યાં. સુધા, જોલવા તેમજ બનકા ડાહ્યા દહેજ દ્વારા પોર્ટની આજુબાજુનાં અદાણી ફાઉન્ડેશન - દહેજના માછીમાર સમાજના લોકો સુધી ગામના જરૂરિયાતમંદ લોકોને જીવન અભ્યુદયીયા ૧૫૫૦ જેટલી રાશન પહોંચી છે. જિલ્લા વ્યવસ્થાનના જરૂરીયાતની વસ્તુઓ માટે કીટો જરૂરિયાતમંદ લોકો સુધી કોવાઈ બિલીમોરા, વલસાડ તેમજ મહાદેવ મહિલા સમી મંડળ, લુવારા પાસેથી કીટો પહોંચાવવામાં આવી છે. જેના બિલીમોરા કોવાઈ બિલીમોરા જિલ્લા કલ્યાણ કરવામાં આવેલ મુખ્યત્વે લોકો, ચોખા, દાળ, તેલ, મંદો, અંબેડા હતા તેમજ બનકા ડાહ્યા તેમજ જરૂરિયાતમંદ લોકો મસાલા, કાંદા-બટેટા, વિગેરે અને સુધી લાવવાની વ્યવસ્થા કરી સુધી મદદ પહોંચાડવા પોલીસી સામગ્રીમાંથી આવાસમાં આવેલ છે. અદાણી ફાઉન્ડેશન તેમજ માછીમારને મદદ તંત્ર તેમજ વાગરા તાલુકાનાં અદાણી ફાઉન્ડેશનની આ મદદ કરવામાં આવી હતી.

સંસ્થાનાં લક્ષ્યો: ૧. કોરોના વાયરસ, ૨. કોરોના વાયરસ, ૩. કોરોના વાયરસ

સંસ્થાનાં લક્ષ્યો: ૧. કોરોના વાયરસ, ૨. કોરોના વાયરસ, ૩. કોરોના વાયરસ

### કોરોના વાયરસનાં સંક્રમણનાં સમયમાં ગામ લોકોની મદદે અદાણી ફાઉન્ડેશન

અદાણી ફાઉન્ડેશન દહેજ દ્વારા નવીનસર (લખીગામ)નાં જરૂરિયાતમંદોને ૧૫૫૦ જેટલી રાશન કીટો વિતરણ કરવામાં આવેલ છે. જેના બિલીમોરા કોવાઈ બિલીમોરા જિલ્લા કલ્યાણ કરવામાં આવેલ મુખ્યત્વે લોકો, ચોખા, દાળ, તેલ, મંદો, અંબેડા હતા તેમજ બનકા ડાહ્યા તેમજ જરૂરિયાતમંદ લોકો મસાલા, કાંદા-બટેટા, વિગેરે અને સુધી લાવવાની વ્યવસ્થા કરી સુધી મદદ પહોંચાડવા પોલીસી સામગ્રીમાંથી આવાસમાં આવેલ છે. અદાણી ફાઉન્ડેશન તેમજ માછીમારને મદદ તંત્ર તેમજ વાગરા તાલુકાનાં અદાણી ફાઉન્ડેશનની આ મદદ કરવામાં આવી હતી.

સમયસર  
22.09.20

લસ્ટ 22.09.20

## અદાણી ફાઉન્ડેશન દ્વારા લુવારા ગામમા દુધાળા પ્રાણીઓ માટે જનરલ હેલ્થ અને વંધ્યત્વ નિવારણ કેમ્પનુ આયોજન



સમયસર  
18.08.2020

## અદાણી ફાઉન્ડેશન દ્વારા લુવારા ગામમા દુધાળા પ્રાણીઓ માટે જનરલ હેલ્થ અને વંધ્યત્વ નિવારણ કેમ્પનુ આયોજન



લસ્ટ 18.08.2020

## અદાણી ફાઉન્ડેશન-દહેજ દ્વારા જરૂરિયાતમંદ લોકોને ૧૫૫૦ રાશન કીટ વિતરિત કરાઈ વધુ જરૂરિયાતમંદ લોકો સુધી પહોંચવા જિલ્લા વહિવટી તંત્ર તેમજ ધારાસભ્યને પણ વિતરણ માટે કીટો અપાઈ



## દહેજ: અદાણી ફાઉન્ડેશન દ્વારા જરૂરિયાતમંદ લોકોને ૧૫૫૦ રાશન કીટનું વિતરણ

વાગરા કોરોના વાયરસ સંક્રમણનાં મુકેલ સમયમાં અદાણી ફાઉન્ડેશન દહેજ દ્વારા પોર્ટની આજુબાજુનાં ગામોનાં જરૂરિયાતમંદ લોકોને જીવન જરૂરીયાતની વસ્તુઓની ટકલીક ના પડે તે માટે રાશનની કીટનું વિતરણ કર્યું હતું. તેમજ વધુ જરૂરિયાતમંદ લોકો સુધી મદદ પહોંચાડવા જિલ્લા વહિવટી તંત્ર તેમજ વાગરા તાલુકાનાં એમ.એલ.એ. ને પણ રાશન કીટો આપવામાં આવી હતી. અદાણી ફાઉન્ડેશન-દહેજ દ્વારા અલ્વાર સુધીમા ૧૫૫૦ જેટલી રાશન કીટો જરૂરિયાતમંદ લોકોને આપી સારી કામગીરી નિભાવી હતી. રાશન કીટમાં મુખ્યત્વે લોટ, ચોખા, દાળ, તેલ, મસાલા, કાંદા-બટેટા વિગેરે સાદાનસામગ્રીનો સમાવેશ કરવામાં આવ્યો હતો. અદાણી ફાઉન્ડેશન દ્વારા લખીગામ, દહેજ, અંબેડા, સુધા, જોલવા તેમજ બનકા ડાહ્યા માછીમાર સમાજના લોકો સુધી રાહત કામગીરી કરવામાં આવી હતી. વિલ્લા વ્યવસ્થા તંત્રનાં કહેવાથી બિલીમોરા, વલસાડ તેમજ દાંતીમાં ફસાએલા જે માછીમારો દહેજ બંદરે આવેલ હતા તેમને બસ દ્વારા ભરુચ સુધી લાવવાની વ્યવસ્થા પણ કરી હતી.

## અદાણી ફાઉન્ડેશન દ્વારા ૩૫૦ લોકોને રાશનની કીટનું વિતરણ કરાયું

## દહેજ અદાણી ફાઉન્ડેશન દ્વારા જરૂરિયાતમંદોને ૧૫૫૦ રાશન કીટો

ભરુચ : દહેજ અદાણી ફાઉન્ડેશન દ્વારા પોર્ટની આસપાસનાં ગામોનાં જરૂરિયાતમંદોને જીવન જરૂરિયાતની વસ્તુઓ માટે તકલીક ન પડે તે માટે રાશનની કીટનું વિતરણ કરાઈ રહ્યું છે. સાથે જ જિલ્લા વહિવટી તંત્ર અને વાગરાનાં ધારાસભ્ય મારફતે પણ રાશન કીટો પહોંચાડવામાં આવી રહી છે. અદાણી ફાઉન્ડેશન દ્વારા ૧૫૫૦ જેટલી રાશન કીટોનું જરૂરિયાતમંદોને વિતરણ કરાયું છે. જેમાં લોટ, ચોખા, દાળ, તેલ, મસાલા, ડુંગળી, બટેટા, સાલિતની સાધન સામગ્રીનો સમાવેશ થાય છે. લખીગામ, દહેજ, અંબેડા, સુધા, જોલવા તેમજ ભરુચ જિલ્લા માછીમાર સમાજનાં લોકો સુધી પહોંચાડવામાં આવી છે. બિલીમોરા, વલસાડ તેમજ દાંતીમાં ફસાએલા માછીમારોને દહેજ બંદરેથી બસ દ્વારા ભરુચ સુધી લાવવાની વ્યવસ્થા પણ કરવામાં આવી હતી.

Sandesh  
09.05.20

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



મહાદેવ મહિલા સમી મંડળ, લુવારા દ્વારા તાજેતરમાં વર્મીકંપોશ્ટ ખાતર વેચી આવકનો એક નવો સ્રોત ઉભો કરેલ છે. આ ઉપરાંત આસપાસની કંપનીઓમાં ખાતરનાં વેચાણ માટે જોડાઈ 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 ફેબ્રુઆરી ૨૦૨૦માં કરવામાં આવી હતી. તેમણે એકવાર નવસારીના લડવાખાડી આદિવાસી તાલીમ કેન્દ્રની મુલાકાત પણ કરાવવામાં આવી હતી અને મુલાકાત બાદ તેઓએ તેમના ઈન્ડમ ક્યુ હતું. આના પહેલા તેઓ ગોબર ફેક્ટી દેતા હતા અને હવે તેઓ કંપનીઓમાં વર્મીખાતર વેચી રહ્યા છે અને ગામની અન્ય મહિલાઓ માટે પ્રેરણારૂપ બન્યા છે.

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

મહાદેવ મહિલા સમી મંડળ, તેમજ આ માટે જરૂરી સાધનો પણ લુવારા દ્વારા તાજેતરમાં વર્મીકંપોશ્ટ પુરા પાડવામાં આવેલ હતા. ખાતર વેચી આવકનો એક નવો સ્રોત આ ઉપરાંત આસપાસની કંપનીઓમાં ખાતરનાં વેચાણ માટે જોડાઈ 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 લુવારામાં આદિવાસી તાલીમ કેન્દ્રે તેઓ ગોબર ફેક્ટી દેતા હતા કરી તેમાંથી આવક મેળવવાની ૩.૩ ટન વર્મી ખાતર વેચવામાં સહયોગ અને પ્રોત્સાહનથી આ સેલ્ફ હેલ્પ ગ્રુપની રચના ફેબ્રુઆરી ૨૦૨૦માં કરવામાં આવી હતી. તેમણે એકવાર નવસારીના લડવાખાડી આદિવાસી તાલીમ કેન્દ્રની મુલાકાત પણ કરાવવામાં આવી હતી અને મુલાકાત બાદ તેઓએ તેમના ઈન્ડમ ક્યુ હતું. આના પહેલા તેઓ ગોબર ફેક્ટી દેતા હતા અને હવે તેઓ કંપનીઓમાં વર્મીખાતર વેચી રહ્યા છે અને ગામની અન્ય મહિલાઓ માટે પ્રેરણારૂપ બન્યા છે.



GPCB

# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

## CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)

CCA NO: AWH- 109820

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

DT: \_

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

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

### CONSENTS AND AUTHORISATION

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

To,

M/s ADANI PETRONET (DAHEJ) PORT PVT LTD

AT &amp; PO LAKHIGAM-392130

TAL- VAGRA,

DIST- BHARUCH.

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

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

**4. CONDITIONS UNDER THE WATER ACT: -**

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



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

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

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

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

## 5 CONDITIONS UNDER THE AIR ACT: -

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

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

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

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

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

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

Sr. No.	Parameters	Permissible Limit (microgram /m <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

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

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

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

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

### **6.1 Number of authorization: - AWH-109820.**

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

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

Outward No: 571845, 01/11/2020



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

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

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

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

## 7 TERMS AND CONDITIONS OF AUTHORISATION:

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

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

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

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

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

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

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


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

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



**(P.B. Patel)**

**Dy. ENVIRONMENT ENGINEER**

Outward No:571845, 01/11/2020

**Om Prakash Yadav**

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**From:** Om Prakash Yadav  
**Sent:** Thursday, April 23, 2020 5:00 PM  
**To:** rowz.bpl-mef@nic.in  
**Cc:** Kaushal Singh; Harsh Yadav; bharuchgpcb@yahoo.com; brnaidu.cpcb@nic.in; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; mefcc.ia3@gmail.com; monitoring-ec@nic.in; Manoj Katar; Shalin Shah  
**Subject:** Letter regarding intimation of disruption of environment monitoring by NABL and MoEFCC approved agency due to COVID-19 Pandemic  
**Attachments:** RO\_MoEFCC Letter- COVID-19.pdf

Dear Sir,

With reference to the above subject matter, we hereby inform that the monitoring of various environment attributes such as Ambient Air Quality, Ambient Noise level, Groundwater, DG stack emission, sea sediment and marine water etc. Through a NABL accredited monitoring agency got disrupted due to the pandemic situation of COVID 19 from 27rd March, 2020. The engaged agency is not able to continue the service of environment monitoring due to declaration of lock down by Government Authorities.

The environment monitoring will be resumed once the situation improves and in line to Government directives. Please find attached herewith a letter for the same

Thanks with regards

**Om Prakash Yadav**  
Executive – EHS| Adani Petronet (Dahej) Port Pvt Ltd  
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