



O/c

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

Date: 23/11/2018

To  
The Additional Principal Chief Conservator of Forests (C),  
Western Regional Office,  
Ministry of Environment, Forest & Climate Change  
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,

Sub:- Six Monthly Compliance Report of Environment and CRZ Clearance for the period from  
April 2018 to September 2018.

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 (Hard copy as well as in a CD) of conditions stipulated in the above referred letters.

Thank 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 - 110003
2. The Director, Forest and Environment Department, Block-14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar, Gujarat- 382010
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390023
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382010(Gujarat).
5. The Regional Officer, Gujarat Pollution Control Board, Bharuch, Gujarat.

Adani Petronet (Dahej) Port Pvt Ltd  
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Regional Office (Western Regional)  
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भोपाल / Bhopal - 462016

**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	Complied. 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>Annex – 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	Complied. All the conditions mention by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as <b>Annex – 1</b> .
P2(iii)	No reclamation will be carried out for the activity	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.
P2(iv)	All the conditions stipulated by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 under the Forest Conservation Act shall complied.	Complied. 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>Annex – 1</b> .
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	Complied. Sewage Treatment Plant of capacity 25 M <sup>3</sup> / 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	Complied. Mangrove afforestation has been carried out in an area of 400 ha. Details are given below. 1. 100 ha near village Dandi, Dist Surat– 2011 2. 50 ha near village Jakhau, Dist Kutch – 2011 3. 50 ha near Padri bit, Dist Bhavnagar – 2011 4. 200 ha near Malpur, Dist Jambusar – 2013-14 Reports of 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.

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

Sr. No.	Specific Conditions	Compliance
P2(vii)	Afforestation @1:3 shall be carried out in case of any trees to be cut.	Complied. <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	Complied. 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.	Complied. 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.	Complied. 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.	Complied. 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.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply. Two Piezometers has been installed at different locations inside port. Regular monitoring of ground water level & quality is being monitored 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 project are provided by the PWD/Electricity Department.	Complied. Project is commissioned after obtaining permission from PWD and Electricity Department.

**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
		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	Complied. The feasibility study for rain water harvesting was conducted. Based on the report it may be concluded that rain water harvesting is not advisable as the area is next to the coast. Report was submitted along with the half-yearly compliance report dated 22.05.2015.
P2(xv), P1(xv)	No land reclamation should be carried out for this project.	Complied. 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.	Complying with. Considering the expansion plan, Green belt is being developed on periphery of the project boundary. So far 8.0 ha of Green belt is developed which mainly includes casuarina, wasigtonia palm, cassia samiea, peltorum, delonix regia, ficus sps. Details of green belt area is enclosed as <b>Annex – 4</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.	Complied. 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.	Complied. 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	Complied. 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.	Complied. 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	Complied.



**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
	of the port there will be no impact on the livelihood of the fisherman. The fisherman should be provided free access to carry out the fishing activity.	There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. They are continuing with their activities without any impact from project.
P1(ix)	All necessary precaution while undertaking construction and operation of the port should be taken keeping in view the bathymetric changes caused due to cyclones.	Complied. Construction (Phase I & II) activities are completed in February, 2011. 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 29.09.2018. Last revision in the DMP was done on 01.12.2017.
<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.	Complied. <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.	Complied. Construction of the project (Phase I & II) was completed on February 2011. During construction all facilities such as water supply, fuel, sanitation etc. was provided.
P2(iii), P1(iii)	The project authorities must make necessary arrangements for disposal of solid waste and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities	Complied. <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> </ul>

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

Sr. No.	Specific Conditions	Compliance
	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.	<ul style="list-style-type: none"> <li>Quality of treated domestic effluent is also being monitored by NABL accredited &amp; MoEF&amp;CC recognized laboratory M/s Pollucon Laboratories, Surat. Please refer <b>Annexure – 3F</b>. Both reports for confirm compliance with applicable standards.</li> </ul>
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.	<p>Complied.</p> <p>APDPPL has obtained renewal of CC&amp;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 AWH 73359 dated: 28.10.2015 from GPCB which is valid up to 16.7.2020.</p>
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.	<p>Complied.</p> <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 2018 – September 2018 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.	<p>Complied.</p> <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 2018 – September 2018 are enclosed as <b>Annexure – 3A to 3H</b>.</li> </ul>
P2(vii), P1(vii)	The sand dunes and mangroves, if any on the site should not be disturbed in any way.	<p>Complied.</p> <ul style="list-style-type: none"> <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	<p>Complied.</p> <p>Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no.</p>

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

Sr. No.	Specific Conditions	Compliance
	suggestion/representation has been received while processing the proposal.	APPPL-EHS/MoEF RO/EC Comp (I&II) 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.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the FY 2018-19 is enclosed as <b>Annexure -5</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.	Complying with. <ul style="list-style-type: none"> <li>• APDPPL is regularly submit 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 such as MoEF&amp;CC, GPCB and GMB etc. visit the APDPPL full support is extended and APDPPL provides all additional information seek by them during the inspection</li> <li>• Recent visit of Gujarat Pollution Control Board was on 26.06.2018.</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.	Noted and complied with. 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	Noted & agreed.

**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
	stipulated are not complied with to the satisfaction of the Ministry.	
P2(xiv), P1(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted & Agreed
P2(xv), P1(xv)	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forest at <a href="http://www.envforin.in">http://www.envforin.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.	Complied. <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.	Complied. <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	Noted.



	<b>Adani Petronet (Dahej) Port Private Limited</b>	<b>From : Apr., 2018 To : Sep., 2018</b>
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**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.	Complied. All the activities are being 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.	Complied. <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 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 is obtained vide letter no AWH-73359 dated 28.10.2015 and valid up 16.07.2020.</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	Complied. <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.	Noted and agreed to comply.
P2(5), P1(10)	No dredging and/or reclamation activity shall be carried out in the CRZ area	Complied.

**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
	categorized as CRZ I (i) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas are not affected due to any of the project activities.	<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>
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.	<p>Complied.</p> <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 2018 to September 2018 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.	<p>Complying with.</p> <p>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 Cholamandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as <b>Annexure 7</b>.</p>
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.	<p>Complied.</p> <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.	<p>Complied.</p> <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.	<p>Noted and agreed to comply. APDPPL is committed for the environment protection.</p>

**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(11), P1(16)	The construction debris and/or any other type of waste shall not be disposed into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	Complied. Construction of the project was completed on February 2011. 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 sanitation, water supply and fuel and it shall be ensure that the environmental conditions are not deteriorated by the construction labours.	Complied. <ul style="list-style-type: none"> <li>Construction of the project was completed on February 2011.</li> <li>No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.</li> </ul>
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.	Complied <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. DMP is also reviewed at regular interval Last Mock drill was conducted on 29.09.2018. Last revision in the DMP was done on 01.12.2017.</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.	Noted and agreed to comply.
P2 (15)	The mangrove plantation in 50 ha. of area on Gujarat cost line shall be carried out by the applicant in a phased manner in five years	Complied. Mangrove afforestation has been carried out in an area of 400 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, Dist Jambusar – 2013-14</li> </ol>

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

Sr. no.	Conditions	Status/Action taken
		Reports of 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.
P2 (16)	The construction activities in the Forest land and the Gauchar land shall be carried out as per the permission accorded by the concerned Authority for the said purpose	Complied. Construction of the project was completed on 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.	Complied. Mangrove afforestation has been carried out in an area of 400 ha. Details are given below. <ol style="list-style-type: none"> <li>1. 100 ha near village Dandi, Dist Surat– 2011</li> <li>2. 50 ha near village Jakhu, Dist Kutch – 2011</li> <li>3. 50 ha near Padri bit, Dist Bhavnagar – 2011</li> <li>4. 200 ha near Malpur, Dist Jambusar – 2013-14</li> </ol> Reports of 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.
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.	Complied. <ul style="list-style-type: none"> <li>• All the activities on forest land have been started only after obtaining forest land clearance.</li> <li>• Clearance 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.	Complied. APDPPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.
P1(8)	The project proponents shall ensure that the local people shall be provided with an	Complied.



**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
	alternative access to the sea in case the existing access to Rock-Bund could not be made available to them.	Alternative access to the sea is available adjoining to the project site.
P1(9)	The project proponents shall ensure that the construction period shall be reduced by proper planning and executing the construction program in time-bound manner to avoid any time over-run.	Complied. 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.	Complied. 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.	Complied. 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.	Complying with. Green belt is being developed in an area of 8.0 ha including periphery of the project boundary. Details of the green development is enclosed is <b>Annexure – 4</b> .
P2(19), P1(23)	The APPL shall have to be contributing financially for taking up the socio-economic up-liftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	Complied. 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.	Complied. 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 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the April'18 to</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
		September'18 is enclosed as <b>Annexure – 5</b> . <ul style="list-style-type: none"> <li>Socio Economic activities funds are taken up in Education, Community Health and Sustainable livelihood development, Rural Infrastructure development etc. Details are enclosed as <b>Annexure – 8</b>.</li> </ul>
P2(21), P1(25)	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Complied. APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 6</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.	Complied. Seawater and sediment is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Monitoring Report for the period April'18 to September'18 is enclosed in <b>Annexure 3C and 3D</b> . No significant changes observed.
P2(23), P1(28)	A six monthly report on compliance of the condition mentioned in this letter shall have to be furnished by the APPL on regular basis to this Department.	Complying with <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.</li> <li>Last compliance report was submitted vide letter dated 25.05.2018.</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.	Noted and agreed to comply with the 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.	Complied. 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:** Compliance status of the conditions by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 and by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dated 16.6.2008

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

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

**Annexure – 2 Details of the Fixed and Mobile Fire Fighting System:**

<b>Fire Fighting Systems</b>	<b>Details</b>
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	407 Nos.
Smoke Detector	54 Nos.
Fire Bucket	68 Nos.
Emergency Siren	4 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



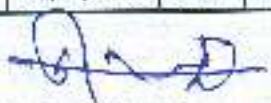


**Environment Monitoring Report for the period from April-18 to September-18**

**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	03/04/2018	67.59	38.92	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	31.15	22.82	29.36	28.65
2	06/04/2018	86.27	49.00	0.71	BDL*	2.49	10.47	0.94	BDL*	39.79	16.45	42.37	18.64
3	10/04/2018	92.40	52.55	0.82	BDL*	2.68	10.62	0.86	BDL*	28.38	19.16	30.75	29.33
4	13/04/2018	84.62	43.94	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	35.78	23.67	37.19	25.57
5	17/04/2018	72.27	33.63	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	50.27	15.77	44.33	26.78
6	20/04/2018	68.41	29.85	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	24.67	12.60	32.12	27.70
7	24/04/2018	94.38	47.99	0.58	BDL*	2.19	10.18	0.41	BDL*	19.43	24.63	22.45	24.48
8	27/04/2018	88.28	54.72	0.66	BDL*	2.23	BDL*	0.79	BDL*	43.49	14.74	40.30	30.44
9	01/05/2018	82.71	46.61	0.58	BDL*	2.42	10.88	0.60	BDL*	30.65	20.49	36.47	21.73
10	04/05/2018	73.41	30.52	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	18.12	12.91	20.96	28.27
11	08/05/2018	85.63	42.10	BDL*	BDL*	BDL*	10.52	0.61	BDL*	40.44	10.40	33.06	30.45
12	11/05/2018	94.65	52.72	0.84	BDL*	2.32	10.50	0.88	BDL*	50.50	8.94	41.41	23.63
13	15/05/2018	77.68	48.61	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	45.45	19.01	38.46	25.10
14	18/05/2018	84.30	38.50	0.64	BDL*	BDL*	10.21	0.55	BDL*	36.86	18.46	26.36	29.49
15	22/05/2018	90.52	50.37	0.80	BDL*	2.64	10.34	0.84	BDL*	62.46	21.89	31.40	27.27
16	25/05/2018	79.46	39.30	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	27.36	15.76	22.98	24.30
17	29/05/2018	83.28	44.52	0.69	BDL*	2.53	10.25	0.48	BDL*	33.74	17.68	29.51	19.66
18	01/06/2018	75.35	32.82	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	58.31	15.26	38.61	26.81
19	05/06/2018	80.22	43.72	0.62	BDL*	2.52	10.24	0.63	BDL*	23.66	19.30	26.90	24.51
20	08/06/2018	70.47	34.57	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	37.23	21.68	44.50	27.57
21	12/06/2018	90.32	53.58	0.80	BDL*	2.62	10.32	0.77	BDL*	42.60	9.71	29.28	22.82
22	15/06/2018	78.80	41.69	BDL*	BDL*	BDL*	BDL*	0.75	BDL*	38.37	24.41	36.87	20.41
23	19/06/2018	85.82	46.76	0.71	BDL*	2.26	10.45	0.65	BDL*	51.52	14.30	42.58	30.75
24	22/06/2018	77.60	33.53	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	43.29	18.65	34.54	23.83
25	26/06/2018	94.50	50.54	0.56	BDL*	2.31	10.57	0.61	BDL*	54.33	16.40	39.50	25.87
26	29/06/2018	69.33	26.46	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	26.38	13.63	31.59	28.41

  
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27	03/07/2018	72.42	29.62	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	24.80	19.46	39.54	23.86
28	07/07/2018	68.36	39.56	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	42.75	14.22	34.20	25.59
29	10/07/2018	64.26	45.64	0.76	BDL*	2.46	10.35	0.87	BDL*	31.62	22.29	29.31	19.28
30	14/07/2018	74.64	37.56	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	48.61	17.70	26.82	29.44
31	17/07/2018	89.30	42.36	0.68	BDL*	2.34	10.63	0.62	BDL*	52.73	20.62	37.26	27.52
32	21/07/2018	69.30	55.70	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	22.54	13.48	27.53	21.21
33	24/07/2018	79.41	30.83	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	29.39	15.25	32.83	30.46
34	28/07/2018	87.49	49.42	0.54	BDL*	2.36	10.28	0.49	BDL*	38.78	24.34	36.43	22.18
35	31/07/2018	76.68	41.35	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	16.34	16.96	40.21	24.53
36	03/08/2018	95.64	55.54	0.76	BDL*	2.34	10.24	0.61	BDL*	43.61	18.47	32.86	25.63
37	07/08/2018	86.33	46.88	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	54.24	21.67	28.37	30.42
38	10/08/2018	90.60	50.42	0.62	BDL*	2.48	10.88	0.45	BDL*	38.34	25.84	30.42	20.34
39	14/08/2018	83.97	48.26	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	46.86	22.83	35.57	19.35
40	17/08/2018	69.63	33.42	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	29.53	15.24	24.63	26.57
41	21/08/2018	78.62	30.37	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	25.62	17.59	29.23	23.44
42	24/08/2018	85.70	43.56	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	20.67	12.45	33.75	29.56
43	28/08/2018	72.64	39.27	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	32.69	14.66	27.38	27.87
44	31/08/2018	91.33	49.38	0.68	BDL*	2.26	10.09	0.78	BDL*	42.60	20.34	38.61	17.43
45	04/09/2018	81.56	45.88	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	50.23	25.54	34.37	15.39
46	07/09/2018	71.54	34.57	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	45.37	16.51	27.21	28.42
47	11/09/2018	87.51	48.55	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	42.60	24.30	39.83	17.25
48	14/09/2018	92.56	55.37	0.72	BDL*	2.46	10.57	0.44	BDL*	33.70	20.33	33.32	22.35
49	18/09/2018	65.31	24.27	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	53.64	13.55	30.38	30.26
50	21/09/2018	85.30	43.26	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	23.47	26.26	44.33	26.89
51	25/09/2018	94.25	40.31	0.84	BDL*	2.56	10.32	0.73	BDL*	48.34	22.48	38.21	18.92
52	28/09/2018	77.54	31.78	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	39.16	17.27	31.22	20.53

**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:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as  $O_3$ : 10  $\mu g/m^3$ , Lead as Pb: 0.5  $\mu g/m^3$ , Carbon Monoxide as CO: 0.01  $mg/m^3$ , Ammonia  $NH_3$ : 10  $\mu g/m^3$ , Benzene as  $C_6H_6$ : 2  $\mu g/m^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $ng/m^3$ , Arsenic as As: 2  $ng/m^3$ , Nickel as Ni: 10  $ng/m^3$

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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/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	03/04/2018	56.68	35.83	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	33.68	10.47	19.84	19.22
2	06/04/2018	79.33	45.68	BDL*	BDL*	BDL*	10.01	0.76	BDL*	45.51	14.48	24.51	20.96
3	10/04/2018	68.42	29.90	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	22.45	22.39	37.66	26.80
4	13/04/2018	72.41	32.40	BDL*	BDL*	BDL*	10.09	0.89	BDL*	43.08	17.76	28.45	28.69
5	17/04/2018	52.31	24.84	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	25.79	6.70	25.34	29.32
6	20/04/2018	76.41	34.91	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	38.53	19.16	23.44	18.44
7	24/04/2018	81.49	39.08	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	29.13	15.51	34.31	27.52
8	27/04/2018	58.43	31.52	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	26.39	12.39	26.28	16.43
9	01/05/2018	68.67	38.41	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	35.47	16.77	18.13	17.67
10	04/05/2018	54.69	27.39	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	26.79	21.49	27.56	21.20
11	08/05/2018	80.71	22.92	BDL*	BDL*	BDL*	10.30	0.24	BDL*	19.68	8.58	21.61	22.63
12	11/05/2018	65.70	30.94	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	23.17	12.09	29.32	19.59
13	15/05/2018	59.38	26.31	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	30.12	15.03	31.60	20.70
14	18/05/2018	77.62	41.67	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	20.44	7.44	22.35	30.26
15	22/05/2018	82.45	37.50	0.54	BDL*	2.36	BDL*	0.34	BDL*	41.85	19.07	25.70	16.12
16	25/05/2018	53.87	29.27	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	14.34	10.35	19.07	27.47
17	29/05/2018	66.74	34.41	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	17.80	6.44	17.53	26.51
18	01/06/2018	69.96	28.82	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	46.24	12.69	28.60	21.54
19	05/06/2018	76.18	41.61	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	35.65	16.57	22.50	19.51
20	08/06/2018	64.66	24.45	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	40.68	14.45	32.78	17.65
21	12/06/2018	75.82	45.69	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	26.55	5.54	18.50	24.56
22	15/06/2018	68.60	35.82	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	56.35	19.38	24.32	26.30
23	19/06/2018	59.35	52.53	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	31.26	9.89	35.76	15.64
24	22/06/2018	88.57	47.32	BDL*	BDL*	2.36	10.38	0.23	BDL*	50.44	10.58	27.50	20.63
25	26/06/2018	79.44	43.53	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	39.32	18.34	29.60	29.59
26	29/06/2018	50.64	22.45	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	19.28	7.62	21.22	22.62

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27	03/07/2018	58.58	24.53	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	18.60	13.18	30.28	15.66
28	07/07/2018	63.26	35.66	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	28.94	12.80	26.35	16.77
29	10/07/2018	78.49	38.66	0.64	BDL*	BDL*	BDL*	0.78	BDL*	36.86	17.60	22.84	21.42
30	14/07/2018	69.23	31.62	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	42.45	15.72	19.40	16.57
31	17/07/2018	72.44	28.62	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	31.27	9.62	32.67	25.33
32	21/07/2018	51.71	27.24	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	16.18	11.29	21.50	23.13
33	24/07/2018	85.58	20.66	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	20.49	7.45	17.52	28.30
34	28/07/2018	70.64	46.78	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	25.31	22.51	27.35	26.26
35	31/07/2018	65.48	26.33	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	32.67	14.54	23.23	17.72
36	03/08/2018	76.50	46.32	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	22.57	14.31	29.55	23.62
37	07/08/2018	69.36	39.40	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	38.24	19.59	35.34	26.25
38	10/08/2018	58.67	36.53	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	29.43	16.47	24.22	24.63
39	14/08/2018	78.22	44.57	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	23.64	9.57	20.22	27.64
40	17/08/2018	63.53	26.28	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	16.34	11.25	27.56	18.46
41	21/08/2018	56.79	23.41	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	21.40	13.83	22.68	16.56
42	24/08/2018	67.53	40.36	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	26.87	18.20	28.63	25.47
43	28/08/2018	77.53	34.28	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	37.86	10.23	23.28	19.21
44	31/08/2018	82.31	45.69	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	49.27	15.71	25.68	20.92
45	04/09/2018	59.34	23.24	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	44.85	15.51	24.56	18.68
46	07/09/2018	66.59	29.24	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	30.56	8.70	30.55	20.33
47	11/09/2018	81.50	42.40	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	51.27	11.21	19.27	23.48
48	14/09/2018	61.35	37.53	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	26.58	18.45	26.74	26.43
49	18/09/2018	79.68	30.49	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	48.58	20.50	20.38	21.20
50	21/09/2018	70.93	35.61	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	34.26	10.51	31.52	25.46
51	25/09/2018	84.23	28.66	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	38.40	16.39	25.45	22.64
52	28/09/2018	64.26	24.37	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	45.54	9.75	37.43	29.01

**Observations:** Above given Result are within the norms Specified Limit as per CPCB Notification No8-29016/20/90/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:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as O<sub>3</sub>: 10 µg/m<sup>3</sup>, Lead as Pb: 0.5 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.01 mg/m<sup>3</sup>, Ammonia NH<sub>3</sub>: 10 µg/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: 10 ng/m<sup>3</sup>

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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	03/04/2018	79.58	48.54	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	29.44	20.58	24.65	23.51
2	06/04/2018	63.38	36.90	BDL*	BDL*	2.16	BDL*	0.63	BDL*	36.49	18.79	33.59	26.35
3	10/04/2018	51.18	30.93	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	26.07	10.51	20.26	19.53
4	13/04/2018	67.53	25.98	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	20.85	13.34	39.49	27.56
5	17/04/2018	84.27	39.53	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	35.27	8.37	37.55	25.49
6	20/04/2018	70.41	28.89	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	41.70	16.42	16.55	16.75
7	24/04/2018	65.27	31.89	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	33.12	12.51	18.54	24.19
8	27/04/2018	86.43	49.49	0.61	BDL*	2.12	BDL*	0.21	BDL*	30.36	9.31	38.55	22.36
9	01/05/2018	74.59	25.08	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	39.19	11.22	20.63	26.67
10	04/05/2018	62.49	21.81	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	45.16	5.25	17.88	22.72
11	08/05/2018	78.89	48.46	0.64	BDL*	BDL*	BDL*	0.33	BDL*	33.15	14.68	35.82	17.60
12	11/05/2018	60.46	26.73	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	27.87	17.96	36.79	21.63
13	15/05/2018	52.67	19.52	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	20.66	10.48	28.36	27.51
14	18/05/2018	49.31	29.44	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	29.65	6.51	32.47	24.59
15	22/05/2018	57.20	33.44	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	25.74	16.18	23.49	23.27
16	25/05/2018	63.46	36.52	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	21.32	8.72	15.72	19.37
17	29/05/2018	75.94	31.32	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	23.64	15.17	22.46	25.35
18	01/06/2018	50.64	23.97	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	50.56	8.48	31.50	27.58
19	05/06/2018	45.78	19.36	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	39.58	14.73	18.69	25.65
20	08/06/2018	69.55	29.62	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	36.75	13.61	26.56	23.34
21	12/06/2018	70.61	42.64	0.78	BDL*	BDL*	BDL*	0.36	BDL*	30.33	10.57	34.65	28.57
22	15/06/2018	56.35	26.92	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	43.51	11.59	29.52	21.29
23	19/06/2018	48.57	20.75	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	35.65	7.66	36.50	19.20
24	22/06/2018	82.56	37.54	BDL*	BDL*	2.18	10.10	0.29	BDL*	24.38	15.38	38.46	26.58
25	26/06/2018	74.35	32.71	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	19.54	12.62	20.69	20.39
26	29/06/2018	62.71	15.42	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	21.30	9.21	25.36	24.71

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27	03/07/2018	66.52	27.67	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	21.58	10.57	24.67	20.63
28	07/07/2018	46.59	16.83	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	31.50	7.60	19.36	28.62
29	10/07/2018	72.46	34.71	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	16.57	12.49	31.55	25.83
30	14/07/2018	52.68	28.30	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	28.75	19.23	15.62	30.27
31	17/07/2018	79.50	31.36	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	34.56	15.53	22.64	17.62
32	21/07/2018	56.68	24.23	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	19.29	9.32	18.29	15.59
33	24/07/2018	64.65	26.45	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	23.65	5.45	20.25	24.36
34	28/07/2018	82.45	43.45	0.62	BDL*	2.14	10.46	0.14	BDL*	20.31	11.82	25.64	18.47
35	31/07/2018	59.62	23.29	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	36.38	20.51	29.40	23.36
36	03/08/2018	83.55	49.58	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	28.35	16.26	35.63	16.35
37	07/08/2018	73.79	34.62	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	32.47	10.66	17.38	23.97
38	10/08/2018	61.63	30.45	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	24.29	14.23	21.55	18.51
39	14/08/2018	88.63	40.42	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	41.28	18.63	25.47	20.21
40	17/08/2018	54.23	23.23	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	19.26	9.83	15.63	22.53
41	21/08/2018	69.37	29.60	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	12.33	11.58	20.58	26.34
42	24/08/2018	59.34	35.45	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	34.20	8.35	22.43	19.59
43	28/08/2018	80.45	31.54	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	16.46	19.30	30.23	28.57
44	31/08/2018	77.58	38.45	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	30.58	5.62	33.28	25.12
45	04/09/2018	71.52	35.57	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	23.31	12.63	21.59	28.34
46	07/09/2018	53.65	22.66	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	41.56	18.57	34.53	24.26
47	11/09/2018	76.34	38.58	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	26.40	9.19	26.35	21.58
48	14/09/2018	69.29	32.62	BDL*	BDL*	BDL*	10.24	0.33	BDL*	30.61	13.24	20.27	19.32
49	18/09/2018	82.98	40.37	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	16.39	8.27	17.59	16.41
50	21/09/2018	60.29	31.53	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	39.64	15.60	25.31	18.50
51	25/09/2018	58.99	25.36	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	29.26	11.45	15.52	27.33
52	28/09/2018	73.58	36.54	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	35.33	7.67	18.22	25.88

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

**Note:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as O<sub>3</sub>: 10 µg/m<sup>3</sup>, Lead as Pb: 0.5 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.01 mg/m<sup>3</sup>, Ammonia NH<sub>3</sub>: 10 µg/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: 10 ng/m<sup>3</sup>

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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>5</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	03/04/2018	50.57	24.01	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	22.85	12.53	17.53	25.74
2	06/04/2018	72.53	39.48	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	32.60	9.76	39.37	28.72
3	10/04/2018	56.40	24.35	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	20.41	16.91	27.85	18.66
4	13/04/2018	49.31	29.93	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	40.21	8.43	31.57	21.66
5	17/04/2018	77.62	30.82	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	28.33	14.45	34.45	15.49
6	20/04/2018	60.42	26.46	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	30.46	21.61	37.42	20.72
7	24/04/2018	52.58	28.44	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	23.46	10.65	25.57	30.15
8	27/04/2018	73.47	41.89	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	33.51	6.67	28.93	29.52
9	01/05/2018	53.00	19.49	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	18.25	5.80	27.37	23.50
10	04/05/2018	76.58	37.70	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	20.84	16.43	16.17	26.37
11	08/05/2018	64.45	25.62	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	27.69	7.24	24.57	21.53
12	11/05/2018	56.57	22.49	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	37.51	15.45	21.28	17.95
13	15/05/2018	74.65	36.44	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	14.52	9.46	15.69	24.20
14	18/05/2018	61.35	33.52	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	34.00	16.57	18.53	19.73
15	22/05/2018	78.38	42.49	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	29.43	13.64	36.30	22.22
16	25/05/2018	59.41	26.46	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	23.90	11.48	31.35	28.42
17	29/05/2018	48.64	21.73	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	10.58	8.26	20.20	27.69
18	01/06/2018	55.61	25.17	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	36.31	16.59	22.61	24.66
19	05/06/2018	71.50	38.40	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	28.78	12.45	32.87	21.86
20	08/06/2018	48.41	20.54	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	16.80	8.42	23.51	25.40
21	12/06/2018	62.61	35.53	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	23.51	6.28	20.59	16.51
22	15/06/2018	50.60	23.67	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	30.45	13.57	21.54	23.48
23	19/06/2018	65.78	37.32	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	39.71	10.44	28.69	27.96
24	22/06/2018	72.74	30.52	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	48.86	11.51	19.55	18.59
25	26/06/2018	52.29	22.71	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	38.61	9.66	24.53	22.77
26	29/06/2018	44.36	18.62	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	12.64	5.72	15.20	29.27

  
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27	03/07/2018	43.70	16.74	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	13.59	7.73	18.65	22.41
28	07/07/2018	51.29	30.52	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	21.68	10.34	22.61	16.47
29	10/07/2018	63.46	27.30	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	33.45	15.58	19.58	23.78
30	14/07/2018	79.27	46.80	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	25.67	12.61	31.48	18.70
31	17/07/2018	82.70	37.74	0.58	BDL*	BDL*	BDL*	0.53	BDL*	29.30	17.29	25.47	29.29
32	21/07/2018	40.19	15.65	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	10.62	5.70	16.37	15.42
33	24/07/2018	50.60	23.43	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	14.49	8.90	23.61	30.63
34	28/07/2018	65.47	25.84	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	28.18	13.65	30.72	20.28
35	31/07/2018	70.58	32.52	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	19.54	6.39	33.51	19.49
36	03/08/2018	60.46	31.64	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	22.82	21.52	25.36	26.86
37	07/08/2018	54.25	28.55	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	27.68	18.52	20.43	28.43
38	10/08/2018	72.56	39.37	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	35.68	10.33	27.66	22.41
39	14/08/2018	66.69	36.32	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	29.28	7.61	33.13	24.52
40	17/08/2018	42.60	18.54	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	10.43	5.39	19.44	14.45
41	21/08/2018	50.21	21.62	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	15.67	9.65	15.28	20.42
42	24/08/2018	45.30	25.45	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	24.52	15.44	22.58	23.63
43	28/08/2018	58.62	19.54	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	32.94	11.41	35.87	17.23
44	31/08/2018	68.59	29.35	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	16.83	13.22	17.52	30.14
45	04/09/2018	52.65	29.35	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	36.75	10.75	29.64	16.52
46	07/09/2018	61.23	25.57	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	31.52	6.26	24.26	22.57
47	11/09/2018	70.66	45.67	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	48.23	8.57	36.60	26.34
48	14/09/2018	82.38	48.38	0.62	BDL*	2.26	BDL*	0.22	BDL*	24.30	11.38	30.73	21.36
49	18/09/2018	60.22	20.25	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	39.56	15.20	33.47	19.58
50	21/09/2018	42.67	22.38	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	27.58	17.69	23.61	28.79
51	25/09/2018	71.25	32.32	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	43.56	9.33	19.35	15.72
52	28/09/2018	57.28	16.53	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	26.73	12.38	22.60	18.71

**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:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as  $O_3$ : 10  $\mu g/m^3$ , Lead as Pb: 0.5  $\mu g/m^3$ , Carbon Monoxide as CO: 0.01  $mg/m^3$ , Ammonia  $NH_3$ : 10  $\mu g/m^3$ , Benzene as  $C_6H_6$ : 2  $\mu g/m^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5  $ng/m^3$ , Arsenic as As: 2  $ng/m^3$ , Nickel as Ni: 10  $ng/m^3$

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	03/04/2018	72.59	41.47	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	25.84	8.47	37.78	21.77
2	06/04/2018	59.28	33.14	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	29.53	6.19	26.41	19.47
3	10/04/2018	63.60	21.63	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	31.07	12.47	16.61	30.49
4	13/04/2018	58.29	26.45	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	24.61	5.39	25.72	18.61
5	17/04/2018	64.49	19.54	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	22.46	11.49	19.41	27.45
6	20/04/2018	51.22	23.48	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	35.38	9.17	27.45	22.89
7	24/04/2018	71.53	35.78	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	39.68	13.29	22.30	20.22
8	27/04/2018	62.41	28.58	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	18.77	16.40	34.18	26.38
9	01/05/2018	62.41	27.54	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	21.68	5.61	25.62	24.65
10	04/05/2018	58.63	24.06	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	30.86	13.77	34.20	23.49
11	06/05/2018	70.46	32.47	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	26.43	18.22	31.25	15.44
12	11/05/2018	51.19	19.33	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	17.47	7.64	19.68	22.41
13	15/05/2018	68.70	30.42	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	24.36	12.61	24.37	29.36
14	18/05/2018	54.68	22.76	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	18.43	14.55	33.27	25.59
15	22/05/2018	74.30	28.66	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	33.73	11.50	30.47	18.56
16	25/05/2018	69.40	31.51	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	10.20	6.67	17.69	20.55
17	29/05/2018	59.41	25.48	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	13.90	9.52	15.42	17.22
18	01/06/2018	42.43	19.81	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	38.62	10.94	35.66	29.52
19	05/06/2018	67.65	34.25	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	48.63	21.54	24.50	26.79
20	08/06/2018	57.78	18.59	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	32.45	17.38	36.28	20.20
21	12/06/2018	78.77	30.68	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	29.58	15.63	23.43	23.51
22	15/06/2018	62.53	38.32	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	35.36	9.47	15.67	30.52
23	19/06/2018	60.29	32.82	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	22.69	16.81	38.57	17.57
24	22/06/2018	48.58	22.33	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	30.21	6.89	21.75	25.39
25	26/06/2018	65.58	29.50	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	10.59	13.86	27.51	21.51
26	29/06/2018	55.63	20.35	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	15.39	11.44	18.74	19.61

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27	03/07/2018	51.45	21.24	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	27.82	16.61	33.68	17.57
28	07/07/2018	40.48	23.75	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	35.64	10.64	30.41	20.47
29	10/07/2018	67.54	24.59	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	20.71	8.59	16.52	22.62
30	14/07/2018	58.65	34.20	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	21.20	21.31	22.70	27.62
31	17/07/2018	66.18	29.42	BDL*	BDL*	BDL*	10.49	0.21	BDL*	38.65	13.85	35.67	15.51
32	21/07/2018	46.27	18.68	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	13.72	7.82	14.37	18.26
33	24/07/2018	55.70	20.56	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	17.67	12.84	26.28	21.51
34	28/07/2018	60.25	32.40	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	16.42	5.46	23.32	19.25
35	31/07/2018	53.52	27.53	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	23.56	18.51	19.65	25.16
36	03/08/2018	70.56	40.25	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	16.50	12.77	37.52	14.63
37	07/08/2018	59.37	31.85	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	33.27	8.68	23.64	17.60
38	10/08/2018	65.65	42.56	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	15.33	18.58	33.54	15.31
39	14/08/2018	52.47	28.33	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	38.71	16.37	18.66	22.64
40	17/08/2018	48.30	20.35	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	13.65	7.81	30.75	16.82
41	21/08/2018	62.43	26.82	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	18.33	5.41	26.87	23.57
42	24/08/2018	51.05	29.21	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	29.26	10.89	15.47	27.48
43	28/08/2018	64.23	23.54	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	19.53	20.44	20.34	25.85
44	31/08/2018	73.25	32.48	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	25.34	9.24	28.46	21.47
45	04/09/2018	64.58	33.58	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	39.28	6.58	16.52	26.16
46	07/09/2018	47.26	15.61	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	26.26	13.70	20.54	18.26
47	11/09/2018	58.34	35.76	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	29.42	19.27	29.26	25.32
48	14/09/2018	67.60	40.21	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	37.51	9.60	23.36	16.30
49	18/09/2018	53.55	17.25	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	21.58	17.53	25.65	28.11
50	21/09/2018	49.38	28.83	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	46.36	8.34	15.33	19.62
51	25/09/2018	62.34	22.50	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	55.33	14.38	32.48	17.56
52	28/09/2018	52.53	19.56	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	30.27	7.50	26.14	15.68

**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:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as  $O_3$ :  $10 \mu g/m^3$ , Lead as Pb:  $0.5 \mu g/m^3$ , Carbon Monoxide as CO:  $0.01 mg/m^3$ , Ammonia  $NH_3$ :  $10 \mu g/m^3$ , Benzene as  $C_6H_6$ :  $2 \mu g/m^3$ , Benzo (a) Pyrene (BaP) - Particulate Phase only:  $0.5 ng/m^3$ , Arsenic as As:  $2 ng/m^3$ , Nickel as Ni:  $10 ng/m^3$

**Authorized Signatory**





**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	03/04/2018	87.62	43.04	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	42.63	15.68	33.66	30.44
2	06/04/2018	94.18	52.50	0.64	BDL*	2.68	10.83	0.44	BDL*	54.60	23.55	46.71	25.45
3	10/04/2018	83.43	47.90	0.62	BDL*	2.76	10.38	0.71	BDL*	35.58	26.32	24.27	27.71
4	13/04/2018	78.43	36.93	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	27.84	20.47	41.45	29.42
5	17/04/2018	88.40	42.75	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	33.35	19.90	36.75	21.53
6	20/04/2018	91.40	37.85	0.76	BDL*	2.84	10.56	0.34	BDL*	50.30	17.29	34.58	28.58
7	24/04/2018	86.27	50.37	0.69	BDL*	2.33	10.16	0.26	BDL*	22.70	16.36	28.51	31.45
8	27/04/2018	79.60	33.45	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	39.26	18.43	22.60	17.60
9	01/05/2018	90.47	50.79	0.65	BDL*	2.64	11.27	0.77	BDL*	56.33	18.38	38.66	29.67
10	04/05/2018	83.61	42.45	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	42.34	25.46	29.63	24.48
11	08/05/2018	93.50	52.42	0.78	BDL*	2.52	10.80	0.94	BDL*	22.25	21.60	40.21	26.12
12	11/05/2018	86.33	48.36	0.53	BDL*	2.34	10.29	0.63	BDL*	46.34	10.67	44.57	28.81
13	15/05/2018	70.45	39.44	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	31.74	17.22	34.34	30.17
14	18/05/2018	95.77	47.81	0.82	BDL*	BDL*	10.39	0.76	BDL*	39.38	20.27	37.22	20.34
15	22/05/2018	88.67	45.59	0.75	BDL*	2.65	10.16	0.68	BDL*	35.35	11.74	42.47	25.41
16	25/05/2018	73.68	41.24	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	17.58	19.38	26.45	23.72
17	29/05/2018	91.21	27.59	0.56	BDL*	2.54	10.49	0.74	BDL*	28.67	22.52	32.51	16.67
18	01/06/2018	80.80	36.43	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	52.61	17.52	32.43	28.59
19	05/06/2018	90.50	47.65	0.72	BDL*	2.32	10.76	0.84	BDL*	31.56	24.51	36.75	22.57
20	08/06/2018	77.68	39.46	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	48.39	20.69	30.53	19.47
21	12/06/2018	84.26	50.43	0.86	BDL*	2.46	10.20	0.86	BDL*	37.56	18.68	42.65	30.51
22	15/06/2018	73.41	32.38	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	63.73	22.82	33.52	25.58
23	19/06/2018	92.40	48.65	0.65	BDL*	2.56	10.81	0.96	BDL*	45.59	12.96	45.63	23.66
24	22/06/2018	65.68	26.62	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	33.57	9.26	39.50	27.89
25	26/06/2018	95.79	55.31	0.77	BDL*	2.28	10.61	0.95	BDL*	29.29	21.85	35.81	24.59
26	29/06/2018	74.54	29.68	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	22.69	15.18	28.53	26.50

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27	03/07/2018	68.30	32.75	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	30.26	21.42	28.66	26.22
28	07/07/2018	72.72	43.68	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	46.31	18.71	38.66	23.52
29	10/07/2018	90.20	50.47	0.86	BDL*	2.62	10.72	0.44	BDL*	52.40	10.39	39.32	28.28
30	14/07/2018	81.92	44.34	0.66	BDL*	2.54	BDL*	0.95	BDL*	40.36	23.47	33.77	25.78
31	17/07/2018	94.48	37.51	0.78	BDL*	2.46	10.82	0.79	BDL*	56.32	25.66	42.63	20.34
32	21/07/2018	76.29	30.35	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	25.97	15.37	30.51	27.84
33	24/07/2018	69.57	35.73	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	26.71	19.57	34.54	16.35
34	28/07/2018	93.50	54.36	0.88	BDL*	2.24	10.61	0.77	BDL*	34.22	16.42	29.78	21.67
35	31/07/2018	86.51	38.71	BDL*	BDL*	2.84	BDL*	0.58	BDL*	45.63	9.65	37.53	29.35
36	03/08/2018	88.66	52.46	0.65	BDL*	2.52	10.59	0.73	BDL*	36.84	22.72	43.62	18.31
37	07/08/2018	79.32	41.53	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	48.33	14.55	31.27	20.88
38	10/08/2018	83.60	45.87	0.56	BDL*	2.78	10.59	0.66	BDL*	33.23	19.64	40.22	25.38
39	14/08/2018	93.44	54.28	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	52.67	25.66	30.65	28.28
40	17/08/2018	59.60	29.40	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	26.54	13.67	21.28	24.76
41	21/08/2018	73.61	33.49	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	30.27	16.14	36.22	30.24
42	24/08/2018	80.44	48.48	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	44.58	20.23	26.38	21.56
43	28/08/2018	92.46	44.30	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	24.82	23.45	42.62	29.24
44	31/08/2018	85.30	35.85	0.78	BDL*	2.42	10.32	0.86	BDL*	35.49	18.20	35.14	27.59
45	04/09/2018	76.37	42.35	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	57.26	17.34	36.67	28.55
46	07/09/2018	89.36	39.21	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	39.33	12.51	40.29	26.59
47	11/09/2018	92.50	52.75	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	35.77	27.37	33.53	30.32
48	14/09/2018	82.65	45.33	0.80	BDL*	2.64	10.42	0.64	BDL*	41.28	21.26	38.35	18.38
49	18/09/2018	73.67	34.69	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	33.24	24.66	43.62	23.53
50	21/09/2018	80.23	40.53	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	29.36	22.39	39.36	29.50
51	25/09/2018	78.25	36.31	BDL*	BDL*	BDL*	11.28	0.95	BDL*	61.26	18.23	29.44	25.26
52	28/09/2018	69.27	27.61	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	48.77	14.24	34.67	22.74

**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:** BDL\*: Below Detection Limit, Minimum Detection Limit, Ozone as O<sub>3</sub>: 10 µg/m<sup>3</sup>, Lead as Pb: 0.5 µg/m<sup>3</sup>, Carbon Monoxide as CO: 0.01 mg/m<sup>3</sup>, Ammonia NH<sub>3</sub>: 10 µg/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: 10 ng/m<sup>3</sup>

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table – 1: Ground Water Level & Quality Analysis (Piezometer) Results for the period: April-18 to September-18****3B.1 Near Sub Station-7B**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			April-18	May-18	June-18	July-18	Aug-18	Sep-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	18/09/2018
1	Temperature	°C	31.8	32	30	30	29	29.6
2	pH	—	8.3	7.9	7.56	7.76	7.58	8.19
3	Total Dissolved Solids	mg/L	1580	1920	1844	1592	2010	973
4	Salinity	ppt	0.47	0.56	0.69	0.7	1.8	2.27
5	Chloride as Cl	mg/L	264	310	384	389	999	126
6	Depth of Water Level from Ground Level	meter	2.4	2.5	2.4	2.3	2.1	2.2
7	Status of Tide**	—	High Tide	Hide Tide	Hide Tide	Hide Tide	Hide Tide	Low Tide

**3B.2 Near QHSE Office**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			April-18	May-18	June-18	July-18	Aug-18	Sep-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	18/09/2018
1	Temperature	°C	32	32.6	30.2	30.1	30.2	30
2	pH	—	8.36	7.95	7.84	7.53	7.48	8.13
3	Total Dissolved Solids	mg/L	902	1210	1138	983	1140	952
4	Salinity	ppt	0.26	0.32	0.31	0.23	0.22	1.81
5	Chloride as Cl	mg/L	144	180	175	128	124	116
6	Depth of Water Level from Ground Level	meter	2.7	2.8	2.7	2.6	2.5	2.5
7	Status of Tide**	—	High Tide	Hide Tide	Hide Tide	Hide Tide	Hide Tide	Low Tide

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

Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period: April 2018 to September 2018:-

Sr. N O.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			APRIL-18		MAY-18		JUNE-18		JULY-18		AUG-18		SEP-18	
			27/04/2018		29/05/2018		29/06/2018		23/07/2018		21/08/2018		18/09/2018	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.17	8.09	8.23	8.15	8.16	8.03	8.25	8.1	8.17	8.12	8.21	8.11
2	Temperature	°C	30.8	30.6	31.2	30.8	31.6	31.2	30.8	30.4	30.6	30.4	30.8	30.5
3	Total Suspended Solids	mg/L	210	165	222	196	198	172	257	211	272	208	318	246
4	BOD (5 Days @ 27°C)	mg/L	5.2	4.8	5	4	4	3	3.75	1	3	2	4	2
5	Dissolved Oxygen	mg/L	6.2	5.8	6.4	5.6	6.2	5.8	6.6	6	6.2	5.8	6.6	6.1
6	Salinity	psu	31.9	31.5	31.7	31.2	32	31.4	31.8	31.6	31.2	30.9	31	30.8
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO <sub>3</sub>	µmo/L	20.2	17.4	23.6	15.2	18.8	12.4	5.2	14.26	16.8	12.2	17.8	12.1
9	Nitrite as NO <sub>2</sub>	µmo/L	2.8	2.4	2.6	2	2.4	1.8	2.61	2.21	2.4	2	1.6	1.2
10	Ammonia/Nitrogen NH <sub>3</sub>	µmo/L	3.1	2.5	2	1.5	3.2	2.4	2.81	1.85	2.3	2.1	2.46	2.1
11	Phosphates as PO <sub>4</sub>	µmo/L	1.98	1.75	2.08	1.8	2.1	1.95	2.17	1.85	1.96	1.668	2.1	1.5
12	Total Nitrogen	µmo/L	7.8	7.4	3.1	2.5	4.8	3.6	10.62	4.47	21.5	16.3	11.89	15.4
13	Polycyclic Hydrocarbon	µg/L	30.4	10.2	18.6	14.2	23.2	12.2	28.4	10.8	20.4	12.2	18	6
14	Total Dissolved Solids	mg/L	34210	33940	34108	33720	34740	34210	34170	33850	33972	33704	34212	33972
15	COD	mg/L	22	18	20	18	18	15	13.6	8.9	10	8	12	6
<b>A. Bacteria and Fungi</b>														
16	Primary Productivity	mgC/L/day	1.7	1.5	2.8	1.3	3.06	1.53	3.74	1.66	2.48	2.25	2.7	2.1
<b>B. Phytoplankton</b>														
17.1	Chlorophyll	mg/m <sup>3</sup>	1.8	0.4	2.1	1.2	3.73	2.9	3.09	2.59	2.9	1.41	2.17	1.65
17.2	Phaeophytin	mg/m <sup>3</sup>	1.35	0.6	1.5	0.98	2.05	1.78	1.25	0.837	2.23	1.28	1.67	0.96
17.3	Cell Count	Unit x 10 <sup>6</sup> /L	290	80	230	96	248	84	272	90	204	80	216	76
17.4	Name of Group Number and name of group species of each group	--	Biddulphia sp. Fragilariopsis Nitzschia sp. Melosira sp. Coscinodiscus sp.	Fragilariopsis Synedra sp. Navicula sp.	Navicula sp. Nitzschia sp. Melosira sp. Synedra sp.	Navicula sp. Nitzschia sp. Synedra sp.	Navicula sp. Nitzschia sp. Coscinodiscus Closterium sp.	Navicula sp. Bacteriostroma	Rhodospira Navicula Coscinodiscus Biddulphia Chaetoceros	Navicula Nitzschia Coscinodiscus Thalassiosira	Melosira Navicula Thalassiosira	Navicula Nitzschia Coscinodiscus Asteroella Synedra	Melosira Navicula Synedra	Melosira Navicula

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS- SEA WATER SOUTH SIDE					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	10/09/2018
			South Side	South Side	South Side	South Side	South Side	South Side
C	Zooplanktons							
18.1	Abundance (Population)	no./m <sup>3</sup>	20	110	63	50	54	43
18.2	Name of Group Number and name of group species of each group		Biddulphia sp. Fragilaria sp. Nitzschia sp.	Cyclops Nauplius larvae Colpoda sp Daphnia sp	Nauplius Ostracods Cyclops Bivalves	Hydrazoa Gastropods Bivalves Ostracodes Copepods	Cyclops Nauplius Larvae Ostracodes Polychaetes	Cyclops Nauplius Larvae Ostracodes Polychaetes
18.3	Total Biomass	mg/100 m <sup>3</sup>	5.8	4.8	6.05	5.6	4.8	5.6
D	Microbiological Parameters							
19.1	Total Bacterial Count	CRU/ml	1560	1740	1650	1850	1860	1550
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL\* - Below Detection Limit

**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 2018 to September 2018:-**

SR. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			APRIL-18		MAY-18		JUNE-18		JULY-18		AUG-18		SEP-18	
			27/04/2018	29/05/2018	29/05/2018	29/06/2018	29/06/2018	29/07/2018	29/07/2018	29/07/2018	21/08/2018	21/08/2018	18/09/2018	18/09/2018
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH		8.07	8.01	8.12	8.08	8.15	8.02	8.17	8.08	8.22	8.15	8.24	8.17
2	Temperature	°C	30.1	28.7	31	30.6	31.4	31.2	31	30.5	30.8	30.5	30.9	30.7
3	Total Suspended Solids	mg/L	440	472	390	320	340	280	290	238	252	196	281	211
4	BOD (3 Days @ 27°C)	mg/L	5.4	5	4	3	5	4	3	2	3	2	3	BDL*
5	Dissolved Oxygen	mg/L	6.6	6.2	6.4	6	6	5.4	6.4	5.8	6.4	6.2	6.5	6
6	Salinity	ppt	30.1	30.7	30.8	30.4	31.4	31.2	31.7	31.4	31.1	30.8	30.9	30.6
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO <sub>3</sub>	µmol/L	20.4	23.2	17.8	18.2	13.8	10.2	17.04	4.47	19.2	13.4	18.4	14.1
9	Nitrite as NO <sub>2</sub>	µmol/L	1.8	2.2	2.8	2.1	1.6	1.1	2.53	1.8	1.8	1.2	1.4	1.1
10	Ammonical Nitrogen as NH <sub>4</sub>	µmol/L	3.1	2.9	3.4	2.6	2.9	2.4	3.21	2.61	2.1	1.95	1.9	1.6
11	Phosphates as PO <sub>4</sub>	µmol/L	2.1	1.8	1.96	1.74	2.08	1.96	1.96	1.63	2.04	2.01	2.26	2.05
12	Total Nitrogen	µmol/L	4.9	4.6	4.4	3.1	3.4	2.8	11.61	8.68	23.1	16.55	21.7	16.8
13	Petroleum Hydrocarbon	µg/L	18	12	16	14	22	18	22.4	8.2	16.2	13.8	15	8
14	Total Dissolved Solids	mg/L	32160	32090	33218	33102	34110	33780	34292	33742	33812	33618	33984	33519
15	COD	mg/L	25	20	15	12	20	12	11.7	4.9	8	6	10	BDL*
<b>A. Flora and Fauna</b>														
16	Primary Productivity	mgC/L/day	2.1	1.4	1.64	0.6	2.83	1.23	3.37	1.46	2.36	2.07	2.5	1.9
<b>B. Phytoplankton</b>														
17	Chlorophyll	mg/m <sup>3</sup>	2.7	1.3	2.1	1.1	3.25	1.52	3.54	2.76	2.54	2.18	1.9	1.64
17	Phaeophytin	mg/m <sup>3</sup>	1.6	0.58	2.4	0.96	2.4	1.15	3.38	1.44	2.24	1.6	1.68	1.2
17	Cell Count	Unit/L	290	70	250	75	232	112	310	120	210	92	220	80
17	Name of Group number and name of group species of each group		Navicula sp. Nitzschia sp. Cocconeis sp. Rhabdonella sp. Rhabdonella sp. Hantzschia sp.	Synedra sp. Nitzschia sp. Ragellaria sp. --	Navicula sp. Nitzschia sp. Asterionella sp. Scenedesmus sp.	Navicula sp. Nitzschia sp. --	Navicula sp. Nitzschia sp. Spirulina sp. Mastigella sp.	Nitzschia sp. Melosira sp. Navicula sp.	Navicula sp. Nitzschia sp. Lactaria sp. Melosira sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Asterionella sp. Synedra sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Hantzschia sp. --	Navicula sp. Nitzschia sp. Asterionella sp. Synedra sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Asterionella sp. Synedra sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Asterionella sp. Synedra sp. Thalassiosira sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	18/09/2018
			North Side	North Side	North Side	North Side	North Side	North Side
C. Zooplanktons								
18.1	Abundance (Population)	no. / 100 <sup>3</sup>	22	20	59	38	58	47
18.2	Name of Group Number and name of group species of each group	--	Copepods Chaetognathes Decapods Molluscs	Nauplius larvae Daphnia sp Copepoda sp. Ostracods	Copepoda sp. Nauplius Larvae Copepods Ostracods	Nauplius larval cyclops sp. Ostracods sp. Copepoda sp.	Gastropods Polychaetes Cyclops Oligochaetes	Gastropods Polychaetes Cyclops Oligochaetes
18.3	Total Biomass	mg/100 m <sup>3</sup>	5.5	4.5	5.75	4.84	5.05	5.5
D. Microbiological Parameters								
19.1	Total Bacteria Count	CFU/ml	1720	1940	1850	2050	1948	1940
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BOL\* - Below Detection Limit

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

Authorized Signatory





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

**Table -Sea Sediment Quality Analysis (South Side) Results for the period: April 2018 to September 2018**

Sr. No	PARAMETERS	UNIT	APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	18/09/2018
1	Organic Matter	%	0.45	0.58	0.52	0.65	0.41	0.58
2	Phosphorus as P	µg/g	680	590	540	740	650	580
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	6.1	5.9	5.2	5.5	5.3	5.2
5.2	Total Chromium as Cr <sup>+3</sup>	µg/g	175	152	110	140	120	172
5.3	Manganese as Mn	µg/g	1580	1380	1670	1820	1740	1610
5.4	Iron as Fe	%	5.15	5.1	4.9	5.1	5.4	5.15
5.5	Nickel as Ni	µg/g	68.4	42.4	32.7	37.2	29.6	41.6
5.6	Copper as Cu	µg/g	42.42	48.6	43.2	44.4	41.6	30.2
5.7	Zinc as Zn	µg/g	125	180	130	210	150	240
5.8	Lead as Pb	µg/g	7.4	5.8	8.4	7.5	6.2	2.4
5.9	Mercury as Hg	µg/g	0.12	BDL*	BDL*	BDL*	BDL*	BDL*
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Polychaetes Chaetognaths	Polychaete worms Bivalves	Polychaetes Echinoderms	Polychaete worms Oligochaetes Echinoderms	Polychaete worms Echinoderms	Polychaete worms Isopods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Copepods Hydroids	Nematodes Foraminiferans Gastropods	Nematodes	Nematodes Copepods	Nematodes Foraminiferans	Nematodes
6.3	Population	no/m <sup>2</sup>	390	360	353	412	529	500

BDL\* - Below Detection Limit

**Observation:** From the above results it is concluded that there is no significant change in the quality of sea sediment.

**Authorized Signatory**





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

**Table -Sea Sediment Quality Analysis Results (North Side) for the period: April 2018 to September 2018:-**

Sr. No.	PARAMETERS	UNIT	APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018	18/09/2018
1	Organic Matter	%	0.39	0.52	0.6	0.78	0.52	0.62
2	Phosphorus as P	mg/kg	430	510	480	690	710	628
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	5.45	5.2	5.35	5.4	5.1	5
5.2	Total Chromium as Cr <sup>++</sup>	mg/kg	172	228	198	125	138	196
5.3	Manganese as Mn	mg/kg	1340	1590	1720	1770	1820	1720
5.4	Iron as Fe	%	4.9	4.8	4.98	4.9	4.9	5.2
5.5	Nickel as Ni	mg/kg	32.6	58.6	42.6	42.8	33.8	47.8
5.6	Copper as Cu	mg/kg	52.8	32.4	38.7	54.6	56.6	36.4
5.7	Zinc as Zn	mg/kg	178	212	240	170	218	278
5.8	Lead as Pb	mg/kg	10.4	7.8	5.5	6.2	3.4	2.1
5.9	Mercury as Hg	mg/kg	0.14	BDL*	BDL*	BDL*	BDL*	BDL*
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Bivalves	Echinoderms Corals Bivalves	Polychaetes Echinoderms Bivalves	Echinoderms Bivalves Coelenterates	Polychaetes Oligochaetes	Polychaetes Decapods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Copepods Hydras	Nemertodes Gastropods Copepods	Foraminifera Nemertodes	Nemertodes Foraminifera	Copepods Foraminifera	Nemertodes Foraminifera
6.3	Population	no/m <sup>2</sup>	450	480	324	382	471	441

BDL\* - Below Detection Limit

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

**Authorized Signatory**



**3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -****Table -Dump Pond Water Quality Analysis Results for the period: April - 2018 to Sep - 2018**

			Results		
Date			April -18	May-18	August-18
			27/04/2018	29/05/2018	21/08/2018
Sr. No.	Test Parameters	Unit	Dump Pond (Near Rajiv Gandhi Statue)		
1.	pH	--	7.65	7.35	7.85
2.	Total Dissolved Solids	mg/L	1240	1040	1310
3.	Total Suspended Solids	mg/L	90	70	56
4.	Turbidity	NTU	7.4	3.4	5.4
5.	BOD (3 Days @ 27 °C)	mg/L	48	30	24
6.	Dissolved Oxygen	mg/L	4.8	5.2	5.6
7.	COD	mg/L	240	156	138
8.	Salinity	ppt	0.034	0.027	0.21
9.	Oil & Grease	mg/L	BDL*	BDL*	BDL*
10.	Total Hardness as CaCO <sub>3</sub>	mg/L	712	610	680
11.	Fluoride as F	mg/L	0.44	0.52	0.6
12.	Chloride as Cl	mg/L	19	15	118
13.	Zinc as Zn	mg/L	0.022	0.018	0.024
14.	Cadmium as Cd	mg/L	BDL*	BDL*	BDL*
15.	Lead as Pb	mg/L	BDL*	BDL*	BDL*
16.	Mercury as Hg	mg/L	BDL*	BDL*	BDL*

BDL\*: Below Detection Limit

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

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

**TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: APRIL-2018 TO SEP-2018**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			April-18	May-18	June-18	July-18	Aug-18	Sep-18
			27/04/2018	31/05/2018	29/06/2018	23/07/2018	16/08/2018	18/09/2018
1.	pH	--	8.12	7.22	7.3	7.45	6.96	7.55
2.	Total Suspended Solids	mg/L	16	24	28	24	15	21
3.	BOD (3 Days @ 27 °C)	mg/L	14	18	20	18	10	16
4.	Residual Free Chlorine	mg/L	0.8	0.6	0.7	0.6	0.6	0.8

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

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**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 2018 to September 2018**

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A) Leq*					
Date of Monitoring	02/04/2018	01/05/2018	01/06/2018	07/07/2018	01/08/2018	03/09/2018
6:00-7:00	43.3	50.1	41.0	48.3	52.7	62.5
7:00-8:00	44.6	52.7	62.7	63.1	66.1	60.7
8:00-9:00	49.5	58.6	47.0	59.4	52.6	57.5
9:00-10:00	47.9	66.0	55.1	57.7	56.5	64.6
10:00-11:00	46.8	68.6	63.4	62.0	71.2	66.9
11:00-12:00	60.2	46.0	54.6	49.8	53.5	55.7
12:00-13:00	54.0	43.0	45.7	41.0	46.5	53.9
13:00-14:00	48.9	57.3	46.5	56.6	43.6	52.4
14:00-15:00	56.7	69.4	42.4	55.6	50.7	40.5
15:00-16:00	58.3	47.6	51.6	54.3	48.8	56.3
16:00-17:00	42.7	49.0	53.1	44.2	51.8	45.0
17:00-18:00	40.2	63.1	48.0	64.3	58.0	65.7
18:00-19:00	64.3	59.3	58.3	50.6	61.2	49.9
19:00-20:00	53.8	51.9	57.2	69.0	47.5	61.8
20:00-21:00	62.0	60.7	70.1	53.7	64.1	59.7
21:00-22:00	55.8	48.8	50.4	51.9	54.6	63.5

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A) Leq*					
Date of Monitoring	02/04/2018 & 03/04/2018	01/05/2018 & 02/05/2018	01/06/2018 & 02/06/2018	02/07/2018 & 03/07/2018	01/08/2018 & 02/08/2018	03/09/2018 & 04/09/2018
22:00-23:00	54.6	41.4	42.9	47.3	46.2	45.6
23:00-00:00	38.2	45.7	39.8	48.2	49.3	46.4
00:00-01:00	45.9	48.6	41.0	37.9	43.6	49.9
01:00-02:00	51.8	44.9	38.7	36.1	41.4	40.1
02:00-03:00	47.3	34.0	43.3	38.4	44.0	44.4
03:00-04:00	49.2	40.2	44.3	46.3	42.6	54.5
04:00-05:00	50.1	47.3	40.2	44.6	51.3	58.9
05:00-06:00	41.8	46.0	47.7	42.8	44.8	51.5

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

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

Observations: 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 2018 to September 2018**

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A) Leq*					
Date of Monitoring	03/04/2018	02/05/2018	02/06/2018	03/07/2018	02/08/2018	04/09/2018
6:00-7:00	53.6	44.2	43.9	48.9	44.9	51.1
7:00-8:00	60.8	59.7	52.0	62.3	55.9	63.6
8:00-9:00	44.3	57.0	54.6	59.2	53.3	52.3
9:00-10:00	61.1	62.5	56.4	60.0	50.2	55.3
10:00-11:00	57.0	46.5	58.5	50.6	48.3	61.3
11:00-12:00	54.5	64.2	61.5	58.5	49.5	66.2
12:00-13:00	45.5	65.1	55.0	66.6	61.7	64.5
13:00-14:00	58.3	43.6	46.1	56.5	54.6	50.6
14:00-15:00	42.4	54.6	59.8	57.9	51.5	62.1
15:00-16:00	43.9	63.8	65.0	49.5	54.5	48.3
16:00-17:00	52.6	58.3	49.4	55.3	62.5	59.3
17:00-18:00	56.6	47.8	42.9	61.5	52.4	46.5
18:00-19:00	55.6	50.0	45.3	51.1	46.1	60.9
19:00-20:00	50.5	61.0	47.7	53.3	57.6	56.8
20:00-21:00	51.9	52.3	53.3	47.1	60.3	54.6
21:00-22:00	59.9	55.0	51.4	54.3	56.9	53.7

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A) Leq*					
Date of Monitoring	03/04/2018 & 04/04/2018	02/05/2018 & 03/05/2018	02/06/2018 & 03/06/2018	03/07/2018 & 04/07/2018	02/08/2018 & 03/08/2018	04/09/2018 & 05/09/2018
22:00-23:00	42.7	55.4	43.5	46.5	42.3	48.3
23:00-00:00	50.0	48.0	46.7	45.6	44.5	40.8
00:00-01:00	40.8	49.3	54.7	60.5	52.3	50.3
01:00-02:00	45.1	44.6	49.3	57.3	50.9	56.4
02:00-03:00	44.9	45.1	52.5	53.3	51.1	58.3
03:00-04:00	48.0	53.2	50.2	52.1	56.3	55.2
04:00-05:00	41.4	51.5	45.0	44.5	48.2	52.1
05:00-06:00	43.6	41.4	48.8	39.7	40.7	54.2

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

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

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

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**Tables - 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 2018 to September 2018**

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A) Leq*					
Date of Monitoring	04/04/2018	03/05/2018	04/06/2018	04/07/2018	03/08/2018	05/09/2018
6:00-7:00	53.5	51.3	38.0	45.3	52.3	48.9
7:00-8:00	48.7	49.5	47.0	50.3	45.8	52.3
8:00-9:00	55.8	59.1	58.3	47.7	61.3	53.0
9:00-10:00	50.7	56.3	61.3	44.5	55.2	58.4
10:00-11:00	52.4	45.4	44.5	41.6	53.3	42.3
11:00-12:00	59.8	57.7	52.8	55.8	60.9	49.6
12:00-13:00	44.3	61.3	48.9	46.3	64.5	40.6
13:00-14:00	51.9	50.3	40.3	51.5	48.1	47.9
14:00-15:00	56.9	52.3	41.3	42.1	63.3	51.7
15:00-16:00	58.4	46.6	54.0	61.0	49.1	59.3
16:00-17:00	57.1	54.2	50.9	53.8	58.7	56.4
17:00-18:00	43.6	48.9	53.6	56.2	51.8	63.5
18:00-19:00	47.2	53.3	51.2	57.7	54.7	46.9
19:00-20:00	46.9	60.1	56.9	58.1	59.3	57.5
20:00-21:00	60.7	55.2	57.5	52.3	50.4	54.2
21:00-22:00	51.6	47.6	49.9	36.6	52.3	43.0

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A) Leq*					
Date of Monitoring	04/04/2018 & 05/04/2018	03/05/2018 & 04/05/2018	04/06/2018 & 05/06/2018	04/07/2018 & 05/07/2018	03/08/2018 & 04/08/2018	05/09/2018 & 06/09/2018
22:00-23:00	40.0	48.9	45.7	42.5	43.5	51.2
23:00-00:00	46.9	51.2	53.4	45.5	48.9	47.2
00:00-01:00	36.9	46.9	55.4	52.9	54.1	49.8
01:00-02:00	47.0	58.3	49.3	54.7	56.3	50.7
02:00-03:00	37.1	56.0	42.3	43.2	55.1	39.8
03:00-04:00	43.9	42.6	50.1	48.6	47.8	55.1
04:00-05:00	45.2	47.9	48.6	46.2	49.8	57.3
05:00-06:00	41.7	49.6	51.2	47.9	50.0	54.7

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

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

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

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**Tables - 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 2018 to September 2018**

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A) Leq*					
Date of Monitoring	05/04/2018	04/05/2018	05/06/2018	05/07/2018	04/08/2018	06/09/2018
6:00-7:00	47.8	46.3	43.0	40.3	54.3	48.2
7:00-8:00	54.4	65.3	62.3	53.3	59.0	61.2
8:00-9:00	59.4	49.3	52.6	56.8	50.0	41.9
9:00-10:00	60.9	48.3	59.9	45.5	48.3	49.3
10:00-11:00	65.4	69.0	65.3	68.3	72.7	71.7
11:00-12:00	57.1	54.2	50.3	58.3	51.1	70.5
12:00-13:00	46.9	58.2	61.4	64.5	62.4	63.5
13:00-14:00	52.0	55.3	58.3	59.5	57.5	56.5
14:00-15:00	61.7	56.0	53.7	60.3	63.3	68.5
15:00-16:00	58.5	57.5	46.0	54.5	53.3	52.0
16:00-17:00	53.7	45.8	41.9	43.5	62.5	55.4
17:00-18:00	63.4	53.6	44.1	55.3	56.1	59.7
18:00-19:00	41.3	44.4	64.7	39.7	54.6	57.7
19:00-20:00	64.6	50.3	48.0	52.8	50.6	53.1
20:00-21:00	55.7	51.2	63.3	62.5	53.3	69.3
21:00-22:00	62.7	61.3	42.0	41.4	55.3	47.0

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A) Leq*					
Date of Monitoring	05/04/2018 & 06/04/2018	04/05/2018 & 05/05/2018	05/06/2018 & 06/06/2018	05/07/2018 & 06/07/2018	04/08/2018 & 05/08/2018	06/09/2018 & 07/09/2018
22:00-23:00	35.6	41.3	40.9	46.7	48.1	37.9
23:00-00:00	40.9	44.4	48.5	43.9	47.3	45.4
00:00-01:00	45.7	46.4	55.2	49.8	50.1	41.7
01:00-02:00	41.7	47.5	42.3	38.2	44.2	39.2
02:00-03:00	42.2	51.8	44.3	50.2	49.0	48.2
03:00-04:00	49.5	48.3	43.3	42.4	45.1	47.2
04:00-05:00	50.4	53.7	49.6	48.6	55.3	58.7
05:00-06:00	52.0	36.6	41.3	39.1	44.9	43.7

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

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

Observations: 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 2018 to September 2018**

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	06/04/2018	05/05/2018	06/06/2018	06/07/2018	05/08/2018	07/09/2018
6:00-7:00	44.2	62.8	53.7	49.2	55.2	59.0
7:00-8:00	50.9	64.3	54.5	55.4	56.2	60.1
8:00-9:00	60.9	50.3	47.5	45.2	52.2	58.5
9:00-10:00	51.0	57.8	55.2	40.8	54.6	66.1
10:00-11:00	66.3	43.3	48.5	39.9	47.9	61.2
11:00-12:00	55.9	68.1	61.9	54.3	53.0	64.5
12:00-13:00	67.6	65.3	51.3	52.8	62.3	57.5
13:00-14:00	58.3	61.8	56.0	62.5	49.8	65.5
14:00-15:00	45.0	54.0	62.7	59.4	52.7	56.3
15:00-16:00	47.5	44.3	46.7	43.9	48.6	42.2
16:00-17:00	48.5	67.7	52.5	57.5	50.9	51.1
17:00-18:00	53.8	66.8	57.8	41.5	48.1	52.9
18:00-19:00	57.2	60.8	63.5	61.1	65.5	69.1
19:00-20:00	54.4	71.2	50.9	60.2	54.0	68.1
20:00-21:00	56.3	47.7	60.8	46.4	57.5	71.6
21:00-22:00	52.7	70.0	49.6	50.6	56.5	62.6

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	06/04/2018 & 07/04/2018	05/05/2018 & 06/05/2018	06/06/2018 & 06/07/2018	06/07/2018 & 07/07/2018	05/08/2018 & 06/08/2018	07/09/2018 & 09/09/2018
22:00-23:00	44.8	46.5	39.5	43.1	42.3	57.5
23:00-00:00	49.3	38.4	56.7	45.8	55.4	41.0
00:00-01:00	45.9	51.1	49.6	52.0	48.6	53.2
01:00-02:00	50.1	54.0	42.9	49.6	59.5	51.8
02:00-03:00	52.5	42.7	54.1	44.1	56.3	49.3
03:00-04:00	40.2	43.1	48.4	38.7	44.2	55.9
04:00-05:00	42.9	40.0	41.3	37.2	48.2	45.8
05:00-06:00	39.2	48.6	44.5	46.0	47.1	38.6

<sup>2</sup>dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing.

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

Observations: 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 2018 to September 2018**

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A) Leq <sup>o</sup>					
Date of Monitoring	07/04/2018	07/05/2018	07/06/2018	07/07/2018	06/08/2018	09/09/2018
6:00-7:00	47.5	61.4	43.5	60.5	58.9	66.4
7:00-8:00	52.6	53.6	60.5	65.7	50.0	40.5
8:00-9:00	43.8	67.1	59.5	66.3	63.5	61.1
9:00-10:00	55.0	49.9	57.8	58.0	59.3	51.2
10:00-11:00	53.3	56.3	67.3	51.3	66.8	60.9
11:00-12:00	64.3	58.2	50.1	52.5	54.3	44.7
12:00-13:00	67.0	60.4	58.2	62.3	64.4	71.8
13:00-14:00	54.6	63.5	62.5	56.1	53.1	58.7
14:00-15:00	61.8	64.7	63.2	68.1	62.2	46.3
15:00-16:00	48.2	57.1	52.3	54.3	61.2	55.5
16:00-17:00	58.6	43.5	49.1	61.1	48.4	42.3
17:00-18:00	57.9	46.9	56.2	53.2	53.4	45.6
18:00-19:00	46.7	50.2	51.7	59.1	56.5	48.0
19:00-20:00	60.8	55.1	42.4	63.3	51.3	52.7
20:00-21:00	50.5	54.7	48.3	49.6	45.2	62.2
21:00-22:00	49.9	51.2	47.2	50.5	52.6	61.0

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A) Leq <sup>o</sup>					
Date of Monitoring	07/04/2018 & 08/04/2018	07/05/2018 & 08/05/2018	07/06/2018 & 08/06/2018	07/07/2018 & 08/07/2018	06/08/2018 & 07/08/2018	09/09/2018 & 09/09/2018
22:00-23:00	53.8	40.5	36.3	43.3	43.9	37.6
23:00-00:00	57.7	52.2	49.3	45.4	43.1	42.8
00:00-01:00	43.2	48.8	40.9	51.3	49.5	41.0
01:00-02:00	40.8	47.5	51.1	56.8	50.2	52.2
02:00-03:00	44.1	65.9	62.9	61.3	58.5	63.3
03:00-04:00	37.2	49.9	46.7	48.8	47.8	55.9
04:00-05:00	48.3	41.2	47.2	42.8	45.6	50.6
05:00-06:00	52.5	50.9	57.4	58.9	53.5	59.7

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

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

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

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**Tables -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 2018 to September 2018**

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A) Leq*					
Date of Monitoring	09/04/2018	08/05/2018	08/06/2018	09/07/2018	08/08/2018	10/09/2018
6:00-7:00	54.2	46.5	49.6	48.5	60.7	45.5
7:00-8:00	50.4	64.0	48.3	60.1	63.7	71.3
8:00-9:00	47.3	42.0	58.5	57.5	48.2	50.7
9:00-10:00	57.2	56.8	46.5	51.7	43.1	55.1
10:00-11:00	65.6	53.3	55.5	47.1	50.3	51.5
11:00-12:00	60.6	49.8	47.2	71.3	59.0	57.7
12:00-13:00	63.7	57.8	59.9	66.1	62.2	68.6
13:00-14:00	66.4	45.5	53.5	56.6	47.5	57.3
14:00-15:00	64.7	60.5	67.1	62.0	49.0	66.6
15:00-16:00	61.9	70.5	68.9	74.9	71.3	69.2
16:00-17:00	62.5	59.1	64.7	52.2	61.5	70.1
17:00-18:00	74.0	61.3	50.3	49.0	64.5	60.1
18:00-19:00	68.7	52.5	71.2	55.8	66.0	54.3
19:00-20:00	48.4	55.3	54.3	58.6	68.5	46.5
20:00-21:00	44.3	62.0	70.5	59.2	51.3	63.7
21:00-22:00	58.8	51.0	56.2	53.2	65.7	42.6

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A) Leq*					
Date of Monitoring	09/04/2018 & 10/04/2018	08/05/2018 & 09/05/2018	08/06/2018 & 09/06/2018	09/07/2018 & 10/07/2018	08/08/2018 & 09/08/2018	10/09/2018 & 11/09/2018
22:00-23:00	39.5	45.5	51.5	42.5	48.0	50.3
23:00-00:00	43.5	59.5	52.9	48.5	41.6	49.9
00:00-01:00	41.0	50.5	46.8	51.8	49.3	43.3
01:00-02:00	47.5	49.1	45.2	40.1	50.5	42.2
02:00-03:00	50.9	52.2	43.6	47.7	46.8	44.7
03:00-04:00	40.2	36.9	44.5	41.3	43.3	48.3
04:00-05:00	44.6	40.8	50.8	38.5	42.0	57.5
05:00-06:00	53.1	47.7	41.0	44.0	40.7	55.5

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

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

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

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**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 2018 to September 2018**

Sampling Location	8 – Nr. S&S Entry Gate (Dahej Road)			8 – Silo Loading Point		
	During Day Time - dB(A) Leq <sup>*</sup>			During Day Time - dB(A) Leq <sup>*</sup>		
Date of Monitoring	10/04/2018	09/05/2018	09/06/2018	25/07/2018	09/08/2018	11/09/2018
6:00-7:00	51.4	54.2	61.3	48.5	46.6	56.7
7:00-8:00	55.6	51.1	49.9	56.6	48.5	44.0
8:00-9:00	57.3	52.2	58.1	49.3	50.8	55.0
9:00-10:00	50.7	48.5	52.1	53.3	49.8	43.9
10:00-11:00	48.1	58.4	53.7	57.3	56.5	61.3
11:00-12:00	59.2	38.3	46.5	41.2	52.7	50.3
12:00-13:00	53.9	43.3	44.5	45.6	57.8	41.8
13:00-14:00	58.3	55.5	54.6	59.6	53.5	57.6
14:00-15:00	63.1	47.7	56.6	51.5	58.5	52.5
15:00-16:00	61.9	46.5	45.6	47.5	53.5	48.7
16:00-17:00	62.7	45.3	48.3	50.5	51.2	46.2
17:00-18:00	46.7	57.2	64.1	52.7	59.3	54.8
18:00-19:00	47.6	56.2	62.2	60.3	61.2	59.3
19:00-20:00	67.8	53.0	59.7	54.3	54.7	45.4
20:00-21:00	56.6	50.5	51.4	46.0	52.2	47.4
21:00-22:00	54.1	59.9	47.7	55.8	46.7	53.8

Sampling Location	8 – Nr. S&S Entry Gate (Dahej Road)			8 – Silo Loading Point		
	During Night Time - dB(A) Leq <sup>*</sup>			During Night Time - dB(A) Leq <sup>*</sup>		
Date of Monitoring	10/04/2018 & 11/04/2018	09/05/2018 & 10/05/2018	09/06/2018 & 10/06/2018	25/07/2018 & 26/07/2018	09/08/2018 & 10/08/2018	11/09/2018 & 12/09/2018
22:00-23:00	54.3	55.1	47.4	41.8	48.4	45.3
23:00-00:00	51.2	46.6	44.8	40.2	45.8	42.8
00:00-01:00	41.5	50.7	42.2	51.5	44.5	58.9
01:00-02:00	52.6	41.3	46.5	38.5	42.8	40.3
02:00-03:00	45.4	51.3	41.7	49.2	43.9	48.5
03:00-04:00	53.2	49.6	48.3	43.8	52.3	47.3
04:00-05:00	44.0	42.1	51.0	37.2	49.8	57.1
05:00-06:00	43.1	48.5	39.7	44.1	42.4	49.4

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

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

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

  
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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 2018 to September 2018**

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	11/04/2018	10/05/2018	11/06/2018	11/07/2018	10/08/2018	12/09/2018
6:00-7:00	46.7	40.0	48.0	42.0	50.5	45.9
7:00-8:00	43.8	63.8	62.7	48.3	49.8	46.3
8:00-9:00	44.9	65.5	61.6	63.3	68.2	64.0
9:00-10:00	42.3	60.0	53.5	58.3	59.3	44.6
10:00-11:00	57.6	53.6	58.5	47.3	45.3	48.3
11:00-12:00	50.9	57.6	52.5	60.9	61.2	58.2
12:00-13:00	40.4	43.8	45.4	39.6	44.6	50.9
13:00-14:00	55.7	47.7	41.5	40.6	46.8	49.0
14:00-15:00	73.7	54.3	63.9	56.3	64.2	55.5
15:00-16:00	56.7	50.8	54.9	53.6	58.0	57.5
16:00-17:00	48.5	51.3	43.7	46.8	56.3	52.8
17:00-18:00	45.7	52.3	47.4	55.2	53.0	56.2
18:00-19:00	59.9	66.6	65.8	68.3	62.3	69.6
19:00-20:00	51.6	45.7	42.9	49.6	47.6	43.5
20:00-21:00	54.7	62.8	57.4	50.3	55.5	51.6
21:00-22:00	58.7	59.3	49.3	52.8	51.4	54.6

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	11/04/2018 & 12/04/2018	10/05/2018 & 11/05/2018	11/06/2018 & 12/06/2018	11/07/2018 & 12/07/2018	10/08/2018 & 11/08/2018	12/09/2018 & 13/09/2018
22:00-23:00	39.5	50.5	45.6	43.4	48.5	54.0
23:00-00:00	42.1	42.2	41.9	39.5	47.9	47.1
00:00-01:00	40.8	47.3	50.2	48.8	42.8	56.6
01:00-02:00	48.7	57.2	55.5	54.2	58.2	48.7
02:00-03:00	38.7	40.6	47.3	49.4	53.3	44.5
03:00-04:00	50.7	43.9	53.3	45.5	49.9	42.9
04:00-05:00	44.2	45.8	48.3	46.1	47.1	57.0
05:00-06:00	46.3	52.3	49.5	51.2	45.5	50.5

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

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

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

  
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**Tables - 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 2018 to September 2018**

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	12/04/2018	11/05/2018	12/06/2018	12/07/2018	11/08/2018	13/09/2018
6:00-7:00	47.2	50.0	45.0	59.3	58.8	69.6
7:00-8:00	51.7	52.6	47.2	46.3	66.9	62.6
8:00-9:00	69.8	51.5	57.9	56.2	60.1	63.3
9:00-10:00	60.2	54.5	52.2	55.0	46.1	61.5
10:00-11:00	59.6	57.0	58.5	54.2	61.3	53.9
11:00-12:00	56.5	49.2	55.3	48.0	47.0	57.2
12:00-13:00	53.3	55.6	60.2	64.9	52.8	51.2
13:00-14:00	63.3	58.2	64.4	65.1	51.3	67.3
14:00-15:00	54.2	61.2	59.5	60.8	55.0	58.0
15:00-16:00	50.1	47.2	43.3	52.3	52.6	49.6
16:00-17:00	52.9	48.3	46.2	50.7	49.7	45.7
17:00-18:00	62.0	59.0	44.5	47.0	56.5	55.2
18:00-19:00	57.1	60.5	56.6	51.4	53.7	54.9
19:00-20:00	61.9	63.5	62.2	58.9	50.9	68.0
20:00-21:00	66.0	53.8	50.2	45.4	46.1	56.9
21:00-22:00	55.3	64.2	51.0	49.1	48.5	66.8

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	12/04/2018 & 13/04/2018	11/05/2018 & 12/05/2018	12/06/2018 & 13/06/2018	12/07/2018 & 13/07/2018	11/08/2018 & 12/08/2018	13/09/2018 & 14/09/2018
22:00-23:00	40.8	47.0	63.0	45.0	61.3	57.8
23:00-00:00	46.9	48.3	50.0	56.0	51.0	53.4
00:00-01:00	51.8	38.0	36.3	43.4	47.0	49.6
01:00-02:00	56.4	62.0	52.0	63.7	45.0	65.2
02:00-03:00	43.1	40.8	53.9	39.2	54.5	42.0
03:00-04:00	39.3	46.0	43.6	48.5	44.6	58.9
04:00-05:00	45.5	55.1	62.4	44.8	49.8	64.6
05:00-06:00	54.9	45.5	51.1	55.4	50.8	41.2

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

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

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

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**Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A) Leq for the period of April 2018 to September 2018**

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	13/04/2018	12/05/2018	13/06/2018	13/07/2018	13/08/2018	14/09/2018
6:00-7:00	45.4	51.0	43.7	53.9	50.0	48.8
7:00-8:00	54.9	44.0	58.0	55.1	45.7	50.2
8:00-9:00	41.7	53.0	62.0	50.3	49.3	54.2
9:00-10:00	55.8	60.6	66.9	52.7	56.6	53.2
10:00-11:00	47.9	61.0	48.3	58.2	55.0	56.0
11:00-12:00	52.5	55.0	50.6	51.7	57.2	60.2
12:00-13:00	46.6	58.0	53.4	60.0	61.6	55.2
13:00-14:00	49.5	65.2	40.3	47.2	51.2	58.2
14:00-15:00	50.1	52.3	57.4	48.0	58.3	61.2
15:00-16:00	53.2	43.3	46.0	45.8	48.0	47.2
16:00-17:00	51.3	63.7	52.3	57.9	65.1	62.2
17:00-18:00	42.1	57.8	49.0	56.0	47.7	59.8
18:00-19:00	48.7	47.2	44.6	59.0	54.2	46.0
19:00-20:00	56.6	46.7	55.0	44.4	59.5	51.2
20:00-21:00	61.7	54.6	70.3	62.0	53.0	52.0
21:00-22:00	57.0	50.8	45.2	43.7	48.1	49.7

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	13/04/2018 & 14/04/2018	12/05/2018 & 13/05/2018	13/06/2018 & 14/06/2018	13/07/2018 & 14/07/2018	13/08/2018 & 14/08/2018	14/09/2018 & 15/09/2018
22:00-23:00	43.4	38.0	37.2	45.5	46.0	36.7
23:00-00:00	54.2	39.0	48.1	46.6	45.5	50.1
00:00-01:00	47.0	42.2	46.2	49.5	44.4	48.5
01:00-02:00	46.9	37.8	40.6	41.4	48.5	39.3
02:00-03:00	53.5	43.3	50.3	51.2	41.8	46.0
03:00-04:00	42.3	47.7	41.2	44.5	53.6	45.1
04:00-05:00	44.8	46.0	39.0	42.4	43.5	38.5
05:00-06:00	48.7	44.5	43.4	50.9	46.9	49.0

<sup>2</sup>dB(A) Leq, denotes the time weighted average of the level of sound in decibels on scale A which is relative to human hearing.

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

Observations: 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 2018 to September 2018**

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A) Leq <sup>a</sup>					
Date of Monitoring	14/04/2018	14/05/2018	14/06/2018	15/07/2018	14/08/2018	15/09/2018
6:00-7:00	41.5	64.5	66.5	70.1	58.8	50.2
7:00-8:00	49.4	48.5	46.3	52.2	47.5	61.2
8:00-9:00	46.4	59.2	47.2	61.4	57.9	55.8
9:00-10:00	57.1	54.2	56.7	55.2	48.7	58.2
10:00-11:00	47.8	60.5	63.1	59.2	61.0	57.2
11:00-12:00	53.3	65.2	61.6	57.3	55.2	56.8
12:00-13:00	65.8	52.8	60.7	67.2	56.2	48.8
13:00-14:00	56.8	41.4	45.9	47.2	49.5	51.0
14:00-15:00	54.9	45.8	62.5	50.2	46.3	53.2
15:00-16:00	58.2	55.3	52.4	51.2	54.7	60.8
16:00-17:00	63.1	51.1	53.2	66.8	50.8	62.9
17:00-18:00	55.8	66.2	64.4	53.9	52.1	59.2
18:00-19:00	52.1	50.8	58.6	49.3	51.8	67.5
19:00-20:00	48.8	46.3	41.8	58.4	54.7	52.1
20:00-21:00	62.6	61.4	57.2	65.2	69.6	64.2
21:00-22:00	59.3	47.8	48.0	60.8	51.1	54.2

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A) Leq <sup>a</sup>					
Date of Monitoring	14/04/2018 & 15/04/2018	14/05/2018 & 15/05/2018	14/06/2018 & 15/06/2018	15/07/2018 & 16/07/2018	14/08/2018 & 15/08/2018	15/09/2018 & 16/09/2018
22:00-23:00	43.3	41.0	47.2	42.9	52.2	55.3
23:00-00:00	45.2	42.2	48.0	44.5	49.5	43.5
00:00-01:00	48.0	50.3	41.5	48.8	45.1	53.4
01:00-02:00	42.6	46.2	52.2	39.4	51.3	56.8
02:00-03:00	50.1	45.9	44.5	55.5	42.2	52.2
03:00-04:00	41.3	48.7	49.2	47.0	50.7	59.9
04:00-05:00	39.3	56.2	50.9	49.0	53.2	54.4
05:00-06:00	51.2	54.2	55.9	56.6	47.6	65.0

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

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

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

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**Tables - 13 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A) Leq for the period of April 2018 to September 2018**

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	16/04/2018	15/05/2018	15/06/2018	16/07/2018	15/08/2018	18/09/2018
6:00-7:00	55.1	53.0	50.8	56.1	58.2	51.5
7:00-8:00	54.3	48.3	49.0	47.0	51.1	56.3
8:00-9:00	52.9	46.8	51.0	48.6	63.6	50.2
9:00-10:00	45.7	49.0	47.0	50.2	56.0	46.0
10:00-11:00	60.5	63.0	62.4	54.8	57.0	48.0
11:00-12:00	51.0	52.0	53.0	59.5	62.1	43.4
12:00-13:00	63.3	45.4	55.0	57.7	49.8	47.2
13:00-14:00	61.7	56.9	59.1	60.0	64.7	54.5
14:00-15:00	49.7	64.5	52.1	58.0	47.8	55.4
15:00-16:00	53.9	69.0	66.1	68.9	48.6	59.6
16:00-17:00	59.7	50.0	43.2	69.0	65.0	63.7
17:00-18:00	62.9	66.4	67.0	63.0	61.0	65.3
18:00-19:00	58.1	55.2	57.1	53.1	60.0	38.7
19:00-20:00	56.1	37.6	45.0	46.0	54.3	42.7
20:00-21:00	64.6	44.9	46.7	43.7	50.0	49.8
21:00-22:00	57.0	47.2	54.0	52.1	55.9	53.5

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	16/04/2018 & 17/04/2018	15/05/2018 & 16/05/2018	15/06/2018 & 16/06/2018	16/07/2018 & 17/07/2018	15/08/2018 & 16/08/2018	18/09/2018 & 19/09/2018
22:00-23:00	43.3	41.9	40.4	48.0	44.0	49.5
23:00-00:00	48.9	58.9	52.5	50.0	54.6	60.6
00:00-01:00	63.0	49.0	50.9	47.4	48.9	55.8
01:00-02:00	33.1	51.9	45.0	55.6	50.0	53.8
02:00-03:00	41.8	48.4	46.0	43.8	49.4	42.0
03:00-04:00	44.3	35.6	42.2	40.2	43.6	37.8
04:00-05:00	46.1	44.5	48.0	41.3	47.4	45.6
05:00-06:00	53.8	40.1	38.2	42.4	43.4	41.6

<sup>2</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 2018 to September 2018**

Sampling Location	14 - New Gate					
	During Day Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	17/04/2018	16/05/2018	16/06/2018	17/07/2018	16/08/2018	19/09/2018
6:00-7:00	41.4	51.0	65.0	66.2	59.5	60.7
7:00-8:00	53.3	55.0	62.0	54.0	61.0	66.8
8:00-9:00	42.6	56.1	55.0	59.0	50.9	51.2
9:00-10:00	47.1	60.4	63.0	58.3	62.0	57.6
10:00-11:00	64.4	44.2	58.0	46.7	49.7	53.0
11:00-12:00	54.4	59.0	52.2	55.0	58.6	47.2
12:00-13:00	57.3	52.7	61.0	60.8	54.2	42.2
13:00-14:00	49.8	62.0	68.1	61.8	70.6	63.5
14:00-15:00	52.8	58.3	49.8	50.8	55.8	48.2
15:00-16:00	61.8	38.8	46.0	43.1	56.7	45.9
16:00-17:00	59.6	64.7	60.0	57.0	53.1	52.5
17:00-18:00	62.6	63.7	71.1	65.5	67.4	61.0
18:00-19:00	60.7	40.6	51.4	45.4	53.9	46.9
19:00-20:00	58.7	43.3	44.0	41.8	55.8	50.7
20:00-21:00	58.0	49.7	53.2	51.2	60.9	44.6
21:00-22:00	48.6	53.8	54.0	52.1	63.2	56.0

Sampling Location	14 - New Gate					
	During Night Time - dB(A) Leq <sup>2</sup>					
Date of Monitoring	17/04/2018 & 18/04/2018	16/05/2018 & 17/05/2018	16/06/2018 & 17/06/2018	17/07/2018 & 18/07/2018	16/08/2018 & 17/08/2018	19/09/2018 & 20/09/2018
22:00-23:00	47.9	51.7	45.0	49.1	46.1	43.0
23:00-00:00	36.5	48.5	55.0	50.2	53.1	49.1
00:00-01:00	45.6	40.2	39.2	43.8	47.5	44.2
01:00-02:00	40.5	49.3	34.2	39.0	48.9	41.8
02:00-03:00	51.2	43.6	56.0	42.2	47.2	46.9
03:00-04:00	48.6	57.6	53.0	52.2	51.9	55.2
04:00-05:00	41.2	54.7	42.2	44.9	48.5	50.0
05:00-06:00	43.4	46.4	54.2	53.2	49.0	52.3

<sup>2</sup>dB(A) Leq, denotes the time weighted average of the level of sound in decibels on scale A which is reliable to human hearing.

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

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

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**Tables - 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 2018 to September 2018**

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A) Leq*					
Date of Monitoring	18/04/2018	17/05/2018	18/06/2018	18/07/2018	17/08/2018	20/09/2018
6:00-7:00	52.8	54.0	53.7	59.4	56.3	57.5
7:00-8:00	51.7	41.1	46.5	48.7	50.0	49.3
8:00-9:00	60.4	44.0	43.5	49.5	51.6	51.8
9:00-10:00	57.0	51.0	54.0	52.0	55.2	56.0
10:00-11:00	55.9	68.8	60.0	63.6	70.2	59.6
11:00-12:00	47.7	52.9	50.6	67.8	62.0	68.0
12:00-13:00	53.9	63.0	64.0	62.5	60.5	69.0
13:00-14:00	74.5	73.8	72.1	73.6	71.0	67.8
14:00-15:00	56.1	67.6	57.4	66.7	54.3	58.6
15:00-16:00	59.3	62.0	68.0	58.0	64.1	60.8
16:00-17:00	62.6	49.1	47.2	41.2	59.3	39.8
17:00-18:00	67.8	59.0	63.0	64.5	61.3	65.6
18:00-19:00	54.8	64.0	55.0	61.3	57.2	62.0
19:00-20:00	50.9	55.0	58.2	57.1	52.4	54.1
20:00-21:00	48.2	58.6	62.0	55.8	65.1	66.3
21:00-22:00	49.7	50.0	48.0	42.3	47.9	45.1

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A) Leq*					
Date of Monitoring	18/04/2018 & 19/04/2018	17/05/2018 & 18/05/2018	18/06/2018 & 19/06/2018	18/07/2018 & 19/07/2018	17/08/2018 & 18/08/2018	20/09/2018 & 21/09/2018
22:00-23:00	46.5	35.8	39.0	42.0	44.0	57.1
23:00-00:00	44.7	56.0	55.0	49.9	50.1	54.6
00:00-01:00	42.6	45.0	50.0	53.0	41.9	46.0
01:00-02:00	47.9	38.3	37.1	44.0	43.4	38.9
02:00-03:00	48.9	49.0	53.0	43.5	42.3	45.7
03:00-04:00	38.2	40.9	43.0	41.1	48.8	44.9
04:00-05:00	41.8	48.5	45.1	54.7	53.4	56.4
05:00-06:00	45.4	51.3	38.9	50.0	46.0	49.3

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

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

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

  
Authorized Signatory





**Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A) Leq for the period of April 2018 to September 2018**

Sampling Location	16 - JS-2					
	During Day Time - dB(A) Leq <sup>a</sup>					
Date of Monitoring	19/04/2018	18/05/2018	19/06/2018	19/07/2018	18/08/2018	20/09/2018
6:00-7:00	48.5	46.0	42.8	54.2	63.2	62.2
7:00-8:00	53.9	57.0	62.2	58.1	52.5	61.0
8:00-9:00	60.2	53.3	52.4	51.7	62.2	54.0
9:00-10:00	52.5	45.0	48.0	49.2	46.1	55.3
10:00-11:00	57.0	62.0	61.4	63.2	55.0	71.3
11:00-12:00	54.7	60.4	58.4	55.0	49.9	65.4
12:00-13:00	46.9	65.2	63.2	59.5	48.4	64.3
13:00-14:00	44.4	58.9	51.0	61.0	59.2	62.3
14:00-15:00	55.5	68.0	49.9	65.5	61.4	67.2
15:00-16:00	56.4	55.7	65.4	67.6	47.3	60.7
16:00-17:00	62.0	51.2	41.0	40.8	50.0	57.4
17:00-18:00	45.8	64.0	68.0	66.3	65.5	63.9
18:00-19:00	47.7	54.3	60.9	57.0	62.4	59.1
19:00-20:00	49.8	50.2	55.0	47.5	45.8	53.2
20:00-21:00	50.8	61.2	59.2	62.2	60.8	66.4
21:00-22:00	51.6	56.0	54.4	53.0	58.6	52.0

Sampling Location	16 - JS-2					
	During Night Time - dB(A) Leq <sup>a</sup>					
Date of Monitoring	19/04/2018 & 20/04/2018	18/05/2018 & 19/05/2018	19/06/2018 & 20/06/2018	19/07/2018 & 20/07/2018	18/08/2018 & 19/08/2018	20/09/2018 & 21/09/2018
22:00-23:00	46.5	49.0	42.5	40.5	43.8	53.2
23:00-00:00	51.5	56.3	50.0	57.0	49.1	58.0
00:00-01:00	50.5	43.0	44.5	51.0	41.8	65.8
01:00-02:00	44.3	42.8	48.5	43.0	55.3	52.6
02:00-03:00	45.8	44.2	46.0	48.0	40.5	47.2
03:00-04:00	47.7	45.4	41.3	50.0	49.0	46.9
04:00-05:00	43.5	47.7	49.8	41.2	53.5	55.0
05:00-06:00	49.8	41.2	45.4	52.3	47.8	40.4

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

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

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

  
Authorized Signatory



**Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A) Leq for the period of April 2018 to September 2018**

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	20/04/2018	19/05/2018	20/06/2018	20/07/2018	20/08/2018	21/09/2018
6:00-7:00	58.8	52.0	47.9	54.2	56.0	53.1
7:00-8:00	50.8	54.0	62.2	57.2	52.0	60.2
8:00-9:00	53.6	52.9	46.4	49.7	58.0	52.7
9:00-10:00	57.3	51.0	53.2	48.6	55.0	45.6
10:00-11:00	43.8	50.7	60.1	52.2	54.2	51.9
11:00-12:00	52.5	49.0	51.5	53.8	62.3	50.2
12:00-13:00	47.5	45.2	48.5	56.6	49.6	42.2
13:00-14:00	48.5	55.5	61.0	59.4	51.0	56.7
14:00-15:00	54.5	61.9	49.2	50.2	47.2	59.2
15:00-16:00	64.7	73.2	65.6	67.2	57.8	68.0
16:00-17:00	55.5	44.8	56.0	60.7	61.2	62.0
17:00-18:00	62.3	59.2	69.2	63.4	60.8	71.4
18:00-19:00	67.0	62.7	58.9	55.9	59.2	57.6
19:00-20:00	59.0	42.3	40.2	41.1	48.8	43.9
20:00-21:00	45.2	39.5	41.2	42.2	46.1	48.9
21:00-22:00	56.9	47.9	57.5	51.2	53.7	55.0

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A) Leq <sup>*</sup>					
Date of Monitoring	20/04/2018 & 21/04/2018	19/05/2018 & 20/05/2018	20/06/2018 & 21/06/2018	20/07/2018 & 21/07/2018	20/08/2018 & 21/08/2018	21/09/2018 & 22/09/2018
22:00-23:00	46.8	45.4	47.0	56.2	43.8	51.9
23:00-00:00	57.2	39.7	48.2	40.0	54.6	58.0
00:00-01:00	37.6	55.3	59.5	57.3	42.7	67.9
01:00-02:00	45.0	53.2	49.0	46.1	49.1	48.1
02:00-03:00	48.4	44.4	51.2	45.7	47.2	46.0
03:00-04:00	39.1	47.2	46.9	44.1	49.3	42.2
04:00-05:00	44.0	52.2	50.5	54.1	45.2	57.9
05:00-06:00	50.5	37.7	39.0	34.2	53.5	40.1

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

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

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

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**Tables -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 2018 to September 2018**

Sampling Location	18 - S and S Yard (South)			18 – Open Storage Yard – 1		
	During Day Time - dB(A) Leq <sup>o</sup>			During Day Time - dB(A) Leq <sup>o</sup>		
Date of Monitoring	21/04/2018	21/05/2018	21/06/2018	26/07/2018	21/08/2018	22/09/2018
6:00-7:00	49.8	40.0	43.0	35.2	53.2	42.3
7:00-8:00	62.2	41.0	45.0	36.2	46.2	43.2
8:00-9:00	47.8	43.2	51.0	41.2	45.2	63.2
9:00-10:00	55.0	50.1	52.3	43.2	52.3	49.2
10:00-11:00	54.4	46.3	53.2	55.6	50.2	41.2
11:00-12:00	48.1	51.2	54.5	45.2	55.2	47.2
12:00-13:00	64.0	56.2	55.5	53.3	56.3	60.0
13:00-14:00	51.5	38.0	36.5	40.2	62.2	50.2
14:00-15:00	46.8	45.4	47.0	56.2	42.4	51.9
15:00-16:00	57.2	39.7	48.2	52.2	54.6	53.2
16:00-17:00	43.6	55.3	59.5	57.3	47.2	67.9
17:00-18:00	45.0	53.2	49.0	46.1	44.1	48.1
18:00-19:00	42.4	44.4	50.9	49.2	48.4	45.0
19:00-20:00	40.1	42.5	46.9	48.5	49.3	44.6
20:00-21:00	44.0	52.5	56.2	54.1	43.5	57.9
21:00-22:00	50.5	37.7	41.2	34.2	53.5	39.2

Sampling Location	18 - S and S Yard (South)			18 – Open Storage Yard – 1		
	During Day Time - dB(A) Leq <sup>o</sup>			During Night Time - dB(A) Leq <sup>o</sup>		
Date of Monitoring	21/04/2018 & 22/04/2018	21/05/2018 & 22/05/2018	21/06/2018 & 22/06/2018	26/07/2018 & 27/07/2018	21/08/2018 & 22/08/2018	22/09/2018 & 23/09/2018
22:00-23:00	49.7	61.6	51.1	56.3	59.2	57.8
23:00-00:00	53.6	51.2	50.8	46.7	49.2	43.2
00:00-01:00	52.6	48.2	38.2	39.2	41.7	45.7
01:00-02:00	37.7	42.2	45.7	41.8	47.2	48.3
02:00-03:00	62.7	50.8	53.4	54.9	48.6	47.5
03:00-04:00	44.2	46.2	49.2	48.6	43.6	38.3
04:00-05:00	46.9	39.8	43.3	36.2	44.7	49.2
05:00-06:00	51.5	52.2	57.1	49.2	58.4	53.6

<sup>o</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.

**Observations:** 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 2018 to September 2018**

Sampling Location	19 - S & S Yard (North) Boundary Wall			19 - Loco Shed		
	During Day Time - dB(A) Leq <sup>6</sup>			During Day Time - dB(A) Leq <sup>6</sup>		
Date of Monitoring	23/04/2018	22/05/2018	22/06/2018	27/07/2018	22/08/2018	24/09/2018
6:00-7:00	43.9	45.1	46.0	48.4	49.3	47.2
7:00-8:00	51.1	57.7	52.5	50.2	47.7	45.7
8:00-9:00	57.3	55.5	49.9	61.3	54.3	60.9
9:00-10:00	56.7	66.6	70.6	59.9	52.8	62.2
10:00-11:00	58.0	48.8	55.0	51.2	49.8	53.3
11:00-12:00	49.4	65.6	58.3	54.5	59.2	63.2
12:00-13:00	55.4	68.5	50.9	47.6	57.3	51.2
13:00-14:00	68.7	50.5	57.1	52.2	53.5	56.0
14:00-15:00	63.8	64.2	60.5	56.6	62.5	65.2
15:00-16:00	60.2	51.7	53.4	60.4	55.3	66.4
16:00-17:00	52.3	56.3	59.7	53.2	58.2	61.6
17:00-18:00	45.4	62.6	54.3	44.7	56.2	64.3
18:00-19:00	54.2	54.1	47.5	49.5	50.5	48.6
19:00-20:00	50.6	43.9	51.8	42.0	46.8	50.9
20:00-21:00	53.2	61.1	45.3	46.3	51.3	57.2
21:00-22:00	48.9	67.2	56.0	45.3	44.2	55.3

Sampling Location	19 - S & S Yard (North) Boundary Wall			19 - Loco Shed		
	During Day Time - dB(A) Leq <sup>6</sup>			During Night Time - dB(A) Leq <sup>6</sup>		
Date of Monitoring	23/04/2018 & 24/04/2018	22/05/2018 & 23/05/2018	22/06/2018 & 23/06/2018	27/07/2018 & 28/07/2018	22/08/2018 & 23/08/2018	24/09/2018 & 25/09/2018
22:00-23:00	51.2	41.9	44.9	43.9	50.8	49.9
23:00-00:00	42.9	49.5	43.2	50.3	47.2	51.8
00:00-01:00	46.0	50.2	49.6	48.5	41.3	52.3
01:00-02:00	45.2	48.8	46.0	58.2	53.6	56.8
02:00-03:00	50.5	40.2	52.3	44.3	51.3	36.8
03:00-04:00	49.9	38.9	39.3	47.0	52.7	46.3
04:00-05:00	44.2	47.3	42.3	40.9	46.7	55.6
05:00-06:00	41.8	52.9	51.2	53.3	43.2	58.0

<sup>6</sup>dB(A) Leq. denotes the time weighted average of the level of sound in decibels on scale A which is reliable to human hearing.

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

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

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**Tables - 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 2018 to September 2018**

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A) Leq <sup>o</sup>					
Date of Monitoring	24/04/2018	23/05/2018	23/06/2018	24/07/2018	23/08/2018	25/09/2018
6:00-7:00	52.1	46.3	44.2	45.2	61.7	62.9
7:00-8:00	51.8	52.3	45.3	58.5	65.0	61.1
8:00-9:00	54.3	51.8	53.3	48.0	49.4	60.8
9:00-10:00	49.6	48.9	55.8	52.2	56.2	64.2
10:00-11:00	65.9	61.3	57.2	53.2	55.6	59.0
11:00-12:00	62.6	55.9	58.8	60.0	66.3	71.2
12:00-13:00	55.3	58.2	49.2	57.2	53.2	50.2
13:00-14:00	57.5	47.2	60.2	50.2	59.7	66.3
14:00-15:00	61.7	60.3	43.6	42.3	47.4	57.0
15:00-16:00	53.3	44.2	51.2	56.9	45.1	63.1
16:00-17:00	68.0	59.1	39.3	51.7	46.9	58.7
17:00-18:00	60.1	50.9	54.2	55.1	49.0	51.1
18:00-19:00	56.4	45.2	48.1	47.5	60.6	55.2
19:00-20:00	59.4	49.3	52.2	43.2	51.2	53.3
20:00-21:00	50.3	57.2	59.9	49.3	58.9	69.4
21:00-22:00	48.9	62.8	56.7	44.9	55.7	54.5

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A) Leq <sup>o</sup>					
Date of Monitoring	24/04/2018 & 25/04/2018	23/05/2018 & 24/05/2018	23/06/2018 & 24/06/2018	24/07/2018 & 25/07/2018	23/08/2018 & 24/08/2018	25/09/2018 & 26/09/2018
22:00-23:00	49.2	42.6	35.5	47.5	46.1	53.2
23:00-00:00	44.4	45.2	40.2	54.2	44.1	55.1
00:00-01:00	42.3	40.2	38.7	34.7	51.8	48.2
01:00-02:00	52.4	55.0	53.3	51.4	54.3	58.1
02:00-03:00	50.1	41.2	47.4	35.2	46.9	45.3
03:00-04:00	38.1	56.4	45.6	53.0	48.4	54.7
04:00-05:00	48.4	39.2	50.5	42.5	47.0	59.5
05:00-06:00	45.9	38.5	52.8	57.7	49.3	44.8

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

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

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

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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 2018 to Sep- 2018**

Sr. No.	Parameters	Unit	DG Set # 1MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3Marine (SS8)		DG Set # 4Silo (SS11)	
			MAY-18	AUG-18	MAY-18	AUG-18	MAY-18	AUG-18	MAY-18	AUG-18
1	Particulate Matter	mg/Nm <sup>3</sup>	18.64	12.38	13.37	19.61	20.75	17.83	15.41	10.23
2	Sulphur Dioxide	ppm	5.48	8.49	7.95	6.15	4.38	5.63	5.62	3.97
3	Oxide of Nitrogen	ppm	32.76	38.88	39.39	32.68	35.34	38.75	37.81	29.07
4	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Carbon Monoxide (CO)	mg/m <sup>3</sup>	5.53	7.16	3.66	6.54	2.63	2.99	4.22	5.03

**Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: April 2018 to Sep- 2018**

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
	Sampling Date	MAY-18	AUG-18
1.	DG Set # 1MRSS (SS5)	68.4	70.2
2.	DG Set # 2 SS7B	67.6	66.8
3.	DG Set # 3Marine (SS8)	67.2	71.5
4.	DG Set # 4Silo (SS11)	66.8	68.3

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## Annexure – 4

### Green Zone Details

Adani petronet (Dahej) port pvt.ltd. Green Zone Details						
Sr. No.	Location	Area in (Hect.)	Tree (No.)	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm
1	PMC office area Landscape	0.264	500	400	1000	60
2	Gcptcl boudry wall site plantation	1.455	4500	800	3750	250
3	APPPL office area (SS 7 B )	0.16	260	200	800	20
5	LNG Site Boundry wall site plantation	0.885	5000	2500	0	450
6	Stack yard	0.56	5000	0	0	150
7	Road site Avenue tree plantation	1.1	4000	0	2000	500
8	Main gate Area	0.572	450	2000	2500	80
9	Railway yard area Phase 1	1.091	5000	310	0	150
10	Railway yard area Phase 2	1.12	5000	600	0	150
11	EHS Office building	0.46	250	1500	2000	150
13	SS 7 A Office	0.099	80	250	500	20
14	Workshop building	0.21	500	0	500	150
15	WB -6 area	0.024	120	0	0	0
<b>Total Green Zone Area</b>		<b>8</b>	<b>30660</b>	<b>8560</b>	<b>13050</b>	<b>2130</b>



**Annexure-5: Environment Budget and Expenditure for the FY: 2018-19**

<b>S. NO.</b>	<b>ACTIVITY/ CATEGORY</b>	<b>BUDGET (IN LAC)</b>	<b>EXPENDITURE (IN LAC)</b>
1.	EHS Manpower	5.54	3.27
2.	Legal & Statutory Expenses	1.50	0.34
3.	Environmental Monitoring Services	20.90	9.15
4.	Water Consumption	56.38	19.92
5.	Hazardous Waste Management & Disposal	1.05	0.00
6.	Greenbelt Development and Plantation	47.02	25.0
7.	O&M of Pollution control measures	6.40	3.02
8.	Environment Day Celebration	0.50	0.50
9.	Treatment and Disposal of Bio-Medical Waste	1.92	0.96
10.	Operation and Maintenance of Road Cleaning equipment and manpower	10.93	3.07
11.	Operation and Maintenance of Fire staff	73.74	36.87
12.	Shoreline Monitoring	15.0	0.0
13.	Ergonomics and Health-hygiene Survey	2.0	1.47
<b>TOTAL AMOUNT (IN LACS)</b>		<b>242.88</b>	<b>103.57</b>

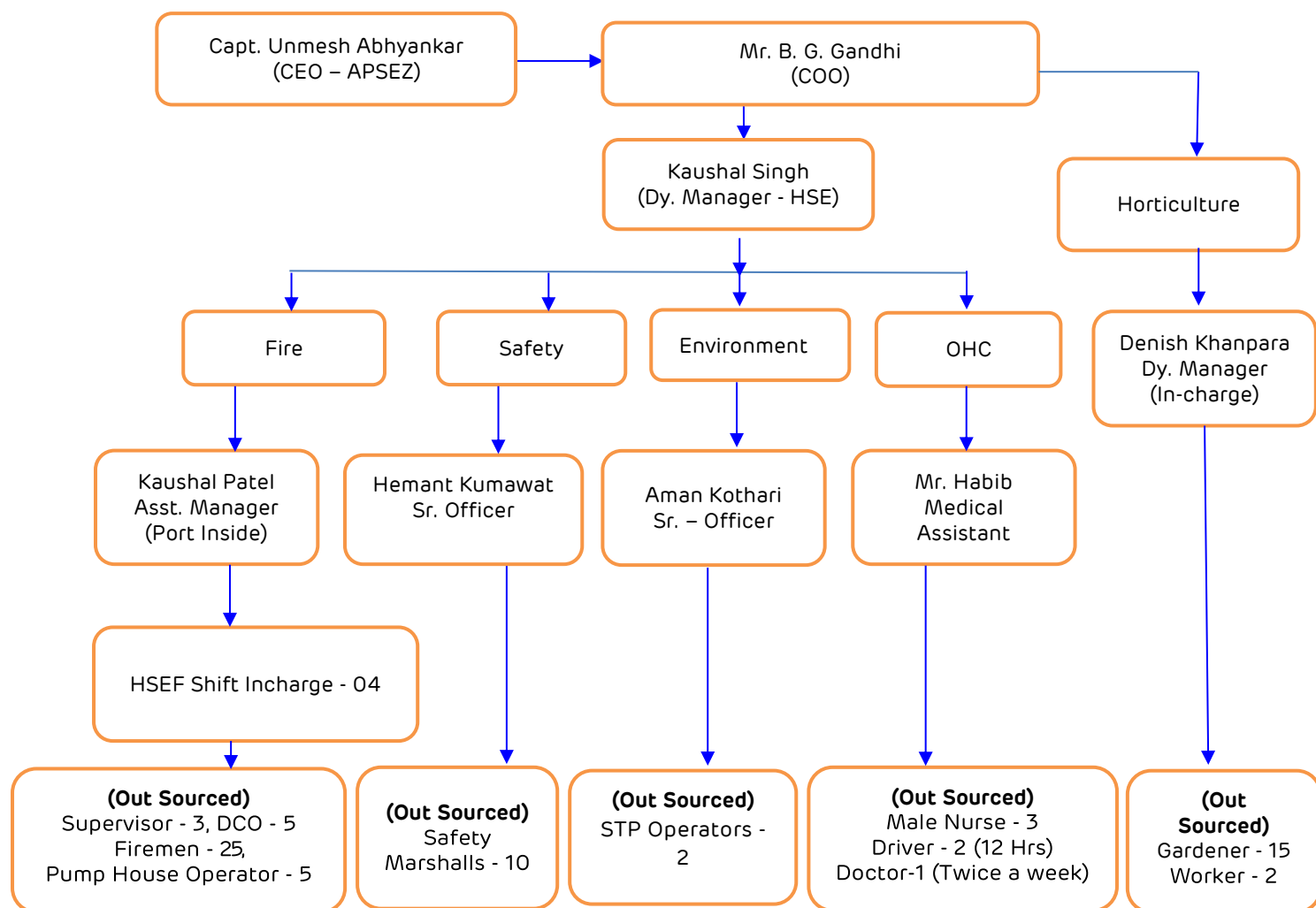
<b>CAPITAL EXPENDITURE</b>			
<b>S. NO.</b>	<b>ACTIVITY/ CATEGORY</b>	<b>BUDGET (IN LAC)</b>	<b>EXPENDITURE (IN LAC)</b>
1.	Horticulture Development	35.0	14.0
2.	EHS Display Board	5.0	2.5
3.	Bio Diversity	7.0	7.0
<b>TOTAL AMOUNT (IN LACS)</b>		<b>47.0</b>	<b>23.5</b>



## Annexure - 6: Organogram of APPPL - Environment Management Cell

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

Dept.: QHSE Management Cell



Details of Environment Cell

S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	11 Years
2.	Denish Khanpara	Dy. Manager	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	11 Years
3.	Kaushal Patel	Asst. Manager	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT) pursuing	13 Years
4.	Hemant Kumawat	Sr. - Officer	Dip – Mech, Dip. In Fire & Safety, NEBOSH	9 Year
5.	Aman Kothari	Sr. - Officer	M.Sc. Environment Science & Technology, PDIS	7 Years



**Annexure-7: Compliance Status of EMP as mentioned in the EIA study For Phase-III  
Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., September 2018:**

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.	Complying with. Water sprinkler and mist canon is being used to suppress the fugitive dust during construction activity.
	Regular wetting of roads will be undertaken on the paved and unpaved artillery roads.	Complying with. Regular wetting of roads is undertaken on the paved and unpaved artillery roads.
	Vehicle tyre washing facilities will be provided at the entrance to prevent spillover of dust sticking on tyre outside the facility.	Complied with. 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.	Complying with. Construction material is being kept in a secure area.
	Construction materials transportation in and outside the port will be appropriately covered to prevent fugitive dust emissions.	Complying with. Material transportation is being done through trucks covered with tarpaulin.
	Civil and Mechanical fabrication works will be carried out within the port facility at an appropriate location to avoid impact on the local air quality at project construction site.	Complying with. Civil and Mechanical fabrication is being done within the port premises.
	All construction equipments at site will be subjected to regular maintenance to minimize the vehicle exhaust.	Complying with. All vehicles are being checked for PUC.
	All trucks deployed at site will be provided with fitness and pollution under control certificate.	Complying with. 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.	Complying with. 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.	Complying with. All DG sets (standby source) are provided with acoustic enclosures.
	All high decibel noise generating equipments should be repaired to meet the compliance noise level.	Complying with. Noise generating equipments are provided with acoustic enclosures.
	No activity involving with high intensity and magnitude of operation should be deployed. Silencers will be provided in Vehicle exhaust.	Complying with. <ul style="list-style-type: none"> <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, A NABL accredited</li> </ul>



		and MoEF&CC recognized laboratory. <ul style="list-style-type: none"><li>Monitoring reports are presented in the <b>Annexure 3G</b>.</li></ul>
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none"><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.	Complying with. All noise generating equipments are provided with acoustic enclosures.
1.3	<b>Sewage Management Plan</b>	
	Sewage generated from the construction site will be treated in existing STP of 27 m <sup>3</sup> capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from April 2018 – September 2018 are enclosed as <b>Annexure –3F</b> .
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
1.4	<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	Complying with. <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.	Complying with. Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	Complying with. Recyclable waste such as used oil etc. is being sold to authorize recyclers only.
1.5	<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.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.
B.	<b>ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)</b>	
2.1	<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.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty, conveyor belt, transfer tower, and discharge point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	Complying with. All dust control systems are maintained and operating well.
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	Complying with. <ul style="list-style-type: none"> <li>• At coal stack yard, 100 sprinklers and 4 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.	Shall be complied. 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	Complying with. Two dust sweeping machines (mobile van) 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.	Complying with. Sprinkling of water is being done on the roads to control the dust.
<b>2.2</b>	<b>Noise Control Management Plan</b>	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will	Shall be complied.



	be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	Complying with. DG sets installed in open area will be provided with acoustic enclosure
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	Complying with. Compressor and DG sets are installed in separate building and provided with acoustic enclosures.
	Movement of vehicles within the port will be restricted with speed control measures	Complying with. <ul style="list-style-type: none"> <li>• Speed is limited within the port premises.</li> <li>• Proper signage also provided with the premises.</li> </ul>
	Using silent exhaust pipes for major diesel engine vehicles and heavy trucks operated inside the port	Complying with. All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.
	Planting trees which acts as barrier to arrest dispersion of noise levels along the internal roads and port boundary	Complying with. Green belt is being developed in an area of 8.0 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	Complying with. Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	Complying with. APDPPL is certified with the ISO 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>	
	Following areas will be provided with storm water drainage systems to prevent any surface run-off in to the sea. <ul style="list-style-type: none"> <li>• Reclamation of 23 Ha back up area</li> <li>• Coal stock pile development of 7.7 Ha area</li> <li>• Railway siding area</li> </ul>	Complying with. Coal stock pile and Railway siding area are provided with storm water drainage. Reclamation of 23 Ha area is being done.
	• The drainage water will be channeled through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains.	Complied with. Runoff from the coal storage is being routed through dump pond where all the particles settled down.
<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	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.



	anchored for collection of waste due to windblown in to the sea.	
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	Complying with. All the wastes are being managed in compliance to the respective waste management rules as amended 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>	
	It is proposed to develop nearly 6 ha. of green cover all along the boundary of the port. Green Buffer Zone is being implemented at Eastern project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	Complying with. Three tier Green belt is being developed in an area of 8.0 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>	Complied. 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>	
	<b>Economic Development Programs</b>	



	<ul style="list-style-type: none"> <li>✓ Knowledge centre regarding various government schemes and latest technology</li> <li>✓ Skill Development Training Programs</li> </ul>																															
	<b>Women Empowerment</b> <ul style="list-style-type: none"> <li>✓ Sanitation Promotion Programs</li> <li>✓ Construction and Maintenance of Sanitation complex</li> <li>✓ Awareness Programs</li> </ul>																															
	<b>Infrastructure development Programs</b> <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> <table border="1"> <thead> <tr> <th>S. No.</th><th>Village</th><th>Programs</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Luvara</td><td>Developing proper drainage system in the village.</td></tr> <tr> <td>2.</td><td>Dahej</td><td>Providing Safe Drinking water Facilities in the schools</td></tr> <tr> <td>3.</td><td>Dahej</td><td>Developing medical facilities in the PHC such as facilities for storage of perishable medicines,</td></tr> <tr> <td>4.</td><td>Jageshwar</td><td>Developing Drainage System</td></tr> <tr> <td>5.</td><td>Lakhigam</td><td>Developing Drainage System</td></tr> <tr> <td>6.</td><td>Lakhigam Luvara Jageshwar</td><td>Developing Solar Street Light and Internal Village Roads</td></tr> <tr> <td>7.</td><td>Ambetha</td><td>Developing Drainage System</td></tr> <tr> <td>8.</td><td>Study Area Villages</td><td>Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.</td></tr> <tr> <td>9.</td><td>Study Area Villages</td><td>Developing Safe Drinking facilities at Schools in the study area.</td></tr> </tbody> </table>	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.	
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	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.	
<b>2.8 Environmental Management Cell</b>				
	APPPL has already established and maintained an Environmental Management Cell (EMC) with Head of Department (EHS), supported by field level executives and horticulturist for implementation of the compliance conditions as per Environmental Clearance obtained and GPCB Consent Conditions. Periodical monitoring activities are being undertaken by MoEF recognized and NABL accredited environmental laboratories. Environmental compliance reports are regularly submitted to MoEF regional office, Vadodara and New Delhi.			Complied. APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure - 6.</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 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 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.			Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. • Key components of environment budget are environmental Monitoring, STP's (O&M), Closed Conveyor System Maintenance and etc. The allocation of revenue budget for Environment Cell for the FY 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the April'18 to September'18 is enclosed as <b>Annexure - 5.</b>



## **Annexure – 8**

### **Corporate Social Responsibility Report**

#### **Half Yearly Report- Adani Port- Dahej (Apr - 2018 to Sep - 2018)**

At Adani Foundation-Dahej, our CSR approach is guided by the four pillars of our CSR & Sustainability framework – Education, Community Health, Sustainable Livelihood Development and Rural Infrastructure Development. These pillars establish a clear vision of our critical area of focus and are aligned with the work we're doing to address the issues of highest importance to our internal and external stakeholders. In this report, we've dedicated individual chapters to sharing our progress under each pillar.

#### **INTRODUCTION**

The Adani Foundation is the Corporate Social Responsibility arm of Adani Group with a vision to *"Accomplish passionate commitment to the social obligations towards communities, fostering sustainable and integrated development, thus improving quality of life"*. It's an integrated infrastructure conglomerate that is committed to inclusive growth and sustainable development in not only the communities it operates in, but also in contributing towards nation building.

The Adani Foundation - Dahej has been running several activities and catering to the needs of the local people residing in about 11 villages. Our target population is 31522 beneficiaries comprising of 7611 families of these 11 project villages. The main castes are *Koli Patel, Rajput, Ahir and other castes are SC/ST & minorities*.

The activities performed under the CSR initiatives of the Adani Foundation fall under four major domains. These include Education, Community Health, Sustainable Livelihood Development and Rural Infrastructure Development. In the Year 2018-19, Adani Foundation contributed largely towards the surrounding communities of Adani Dahej site in respect to its varied domains. Each domain has its set of objectives. All the objectives are fulfilled keeping in mind the vision of contributing towards framing a better society all around its catchment area. Till date several activities have been initiated and performed in lieu of these objectives. This half-year Report throws light on Adani Foundation's activities performed and initiatives taken in last six months at Dahej site are as under:



## **Domains of CSR Framework**

### **EDUCATION**

#### **School Enrolment Drive:**



As every year, we have distributed 290 nos. educational kits comprising of school bag with necessary educational materials to 1<sup>st</sup> std. students of 9 schools of 7 project villages. The aim of this project is to support the govt. educational drive as well as to encourage our project area of their tiny tots especially of

population for promotion of education of disadvantaged mass.

#### **Pragnya Material Support:**



Pragnya book is basically towards providing quality education material up to 4<sup>th</sup> std. school children to ease their initial stage of linguistic learning. By use of this book, students can be a quick learner for reading, writing, tracing words and construction of sentences. It is also experienced as helping hand for primary school teachers as per their opinions in the past. We covered all school children up to 4<sup>th</sup> std. of our

project villages. This year, we have provided more than 1100 books in 9 primary schools of 7 villages.



### **Learning Enrichment Programme:**

The Learning Enrichment Program is specially designed to cater to the academic deficit and impart quality education to the students of Government Primary Schools.

- This unique, alternative and innovative program is efficient in building the capacity of weak students in academic and helped to pace with higher scores.
- The program is easy to implement in the School Premises and within the school hours.
- Fortnightly Evaluation and Tracking system of each and every student.
- The program is designed to teach the students according to their learning level.
- The targeted student is to attend the special class for two hours a day as per the learning level.
- The program is conducted in a 'play way method' so students are very interested to play the game.



The project is serving 308 weak students of 8 Govt. Primary Schools of 7 Project Villages. The project is implemented by dedicated teachers under Vidya Bharti Foundation, Ahmedbad based NGOs wokring towards education upliftment of children in need of special attention.



### **Community Health**

In the villages nearby, the health care delivery is constrained by lack of health care infrastructure, lack of doctors, lack of supply chain and lack of appropriate monitoring of existing health care infrastructure.

Hence, the local communities residing in these villages are not able to access formal health care and many of them after having to travel long distances to consult untrained local private practitioners in case of any illness.

Recognising this need to strengthen the health care delivery system, AF- Dahej is engaged in promoting healthy communities by improving access to basic health care and by helping the local communities to fight against infectious diseases.

#### **Mobile Health Care Unit:**

We are providing mobile health car van unit in 11 villages nearby to our Dahej port. We are providing no cost medical services for the people in the area. From April 2018 to September 2018, total **10379 patients treated in which 1912 patients added** as a new patient to total beneficiaries.





### **Health Awareness Programs:**

With MHCU Services, we are also educating and promoting preventive health behaviour and practices in surrounding community. It is very important to prevent the disease rather than cure. For that, general health awareness events has been carried out regularly on different health topics like H&H behaviour practices, prevention of water-borne, seasonal & communicable diseases and hereditary health risks at schools and community level.



### **General Medical Camp:**

We are arranging general medical diagnosis and treatment camp by MHCU staff in small pockets of populations where needs or requests have been raised out of regular MHCU services.





## **SuPoshan Project:**

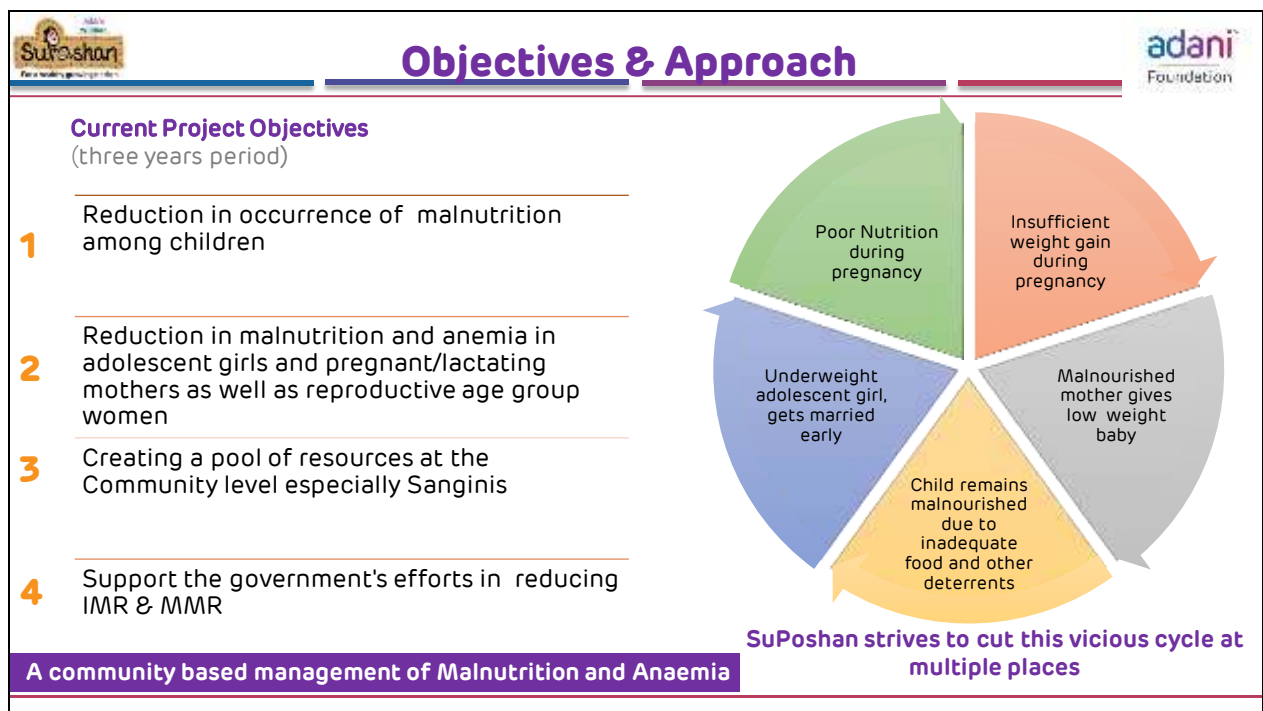
SuPoshan is taking life cycle approach for curbing malnutrition. One of the prime reason for malnutrition is poor health of mother during pregnancy and during lactation period.

SuPoshan works with all three important target groups Children though their mothers, adolescent girls and reproductive age women.

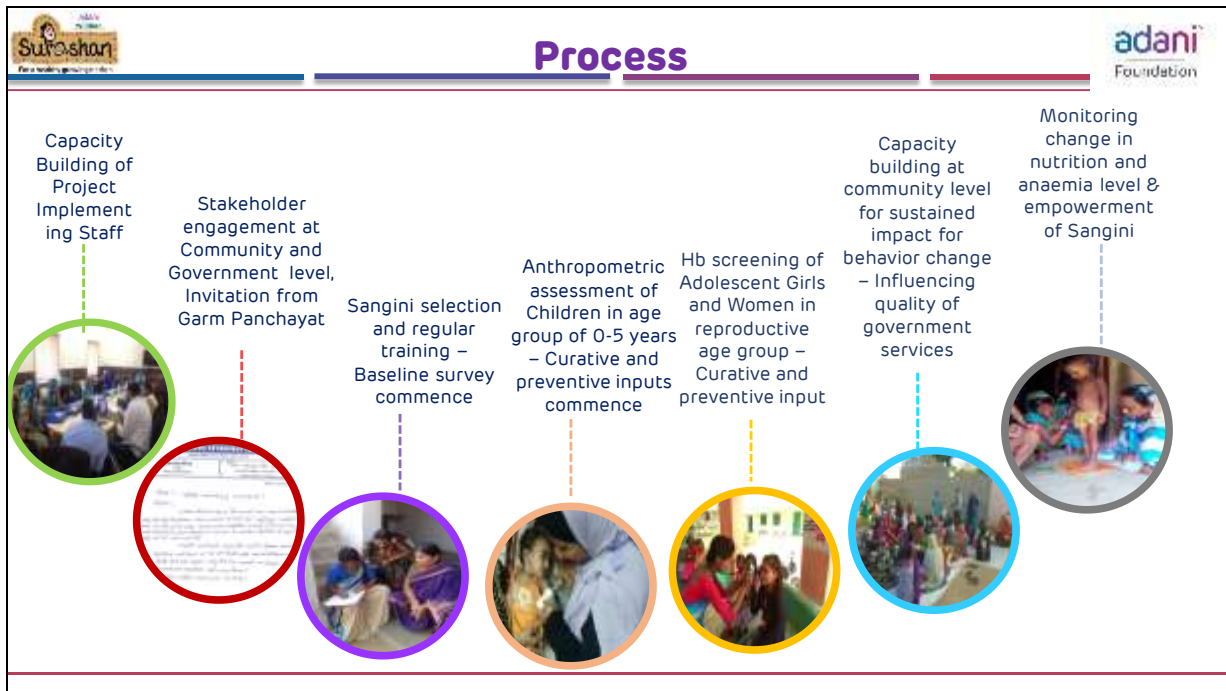
SuPoshan is working with Adolescent girls for making them healthy mothers in future and subsequently their children will be also healthy.

For doing effective and sustainable changes, the project is augmenting available IEC materials from various sources i.e. UNICEF, Government etc. The project is also creating location specific IEC materials.

The positive impact of SuPoshan will be on reduction of IMR and MMR.







Dahej Cluster is implementing SuPoshan Project in 7 Villages. In these seven villages, 8 Sanginis are combating malnourishment in their respective villages. They are empowered with knowledge, skills and different aids by Adani Foundation. We are conducting awareness, segregation of important health information and news to mothers, children, adolescent girls and women at large.





## **Sustainable Livelihood Development Programme**

Adani Foundation partnering with BAIF institute for Sustainable Development (BISLD) is implementing CBC (Cattle Breeding Centre) i.e. Animal Husbandry Project and Moringa (Drumstick) Livelihood Project in 12 villages surrounding Adani Port, Dahej.

### **CBC Project:**

The project is emphasized on livestock development with cattle holding families of surrounding villages nearby plant. As Dahej is an industrial area, people are engaged with contract employment and do not take scientific or systematic approach to their farming and animal caring. Keeping view of the account of this fact, it is need of the hour to train the families to create livestock as a profitable investment/business from traditional way. BAIF is a renowned national level NGO working towards animal husbandry and agriculture development. So this smart partnership will demonstrate long-term desirable results into better milking animals and happy livestock families through this unique project.

The salient activities undertaken of the project from April to September 2018 is as under:

#### **1. Artificial Insemination:**



Animal holding families are now ready to accept artificial breeding method towards production and reproduction of good animals through Artificial Insemination. It leads to better animals with milking and healthy condition. More than 200 animals covered so far in the first six months of financial year 2018-19.

#### **2. Foot & Mouth Disease Vaccination:**



Protection of animals against hazardous bacterial and viral diseases like Hemorrhagic Septicemia (HS), Black Quarter (BQ) and Foot & Mouth Disease (FMD) is far more important by the means of vaccination. These diseases creates heavy economic losses in terms of reduced production level and farmer has to bear huge treatment cost as well as threat of animal loss in severely affected cases. After vaccination, not a single case of morbidity for FMD disease was reported.



**3. Deworming:**



Deworming is not practiced by local livestock families which is continued from last year. At present, 502 animals were taken benefits of this activity. Deworming leads to improved health condition of milking animals for increasing productivity. It also reduces calf mortality occurred due to heavy endoparasitic infestation.

**4. Vermi compost Demo:**



Vermi compost is a quality compost to be used as an organic amendment that contribute to improve soil fertility, promotion of natural farming with leaving dependency on chemical fertilizers ultimately reducing costing and better health benefits to end users. Selected prospective

beneficiaries provided material support for demonstration and projection to propagate these units to be envisaged at large scale as this manure is widely accepted by household as well industrial purpose for greenbelt in surrounding industries.

**5. Kitchen Garden:**



Kitchen garden concept is materialized not only to meet out nutritional requirement of beneficiaries' family members but also to support substantial income to marginalized families of the villages who had eagerly participated to nurture and develop kitchen gardens in the backyards of their houses. Total 250 beneficiaries covered in different villages of the area. This is a safe practice, which

does not cause toxic residues of pesticides in the vegetables produced as outside market vegetables. It also reduced traveling cost to purchase vegetables even for beneficiaries and their neighboring customers who can intake the vegetables with non-use of chemicals and pesticides.

## 6. Calf Rearing:

### Sustainable Livelihood Development



#### Calf rearing Training & Awareness Program

To safeguard a calf from many diseases and for better immunity, Calf rearing Training & Awareness Program is conducted in the presence of Shri B. G. Gandhi, COO, APDPPL, HoDs of Dry Cargo & Security at Luvara Village.

In this program, we have adopted 3-4 months' aged 20 calves and buff's of 4 villages for 1 year to provide them cattle feed, vaccinations, deworming tablets throughout the year as per their daily requirement. It educates other animal holding families of project villages about noticeable growth of the livestock because of nutritious food intake and scientific approach towards animal care.



#### Calving of cows and buffaloes of AI

Artificial Insemination (AI) activities has been carried out since November 2017. Now, it has been commencing birth of crossbreed and precious cattle population in project villages. Total 12 births of calves of cows and buffaloes has been happened in last 2 months. Nearly 100+ more births of calves will be taken up gradually in this year. The above picture is one of our AI Cow of 'Gir', the most valuable breed of cow in the world.

## Moringa Project:



Moringa (Drumstick) plant has high nutritional values and beneficial in curing many diseases. Moringa Leaves and Drumstick Powder is processing to prepare many Ayurveda Medicine. Keeping view of this livelihood opportunity, the Moringa Project is implemented in surrounding villages of the plant. First of all, BAIF has developed a model nursery to grow Moringa

plants organically so that those can be distributed to the potential beneficiaries later on. Presently, more than 2000 plants are grown in backyards of poor and entrepreneurial families who are well explained and trained about the Project. Later on they will be economically beneficial by market linkages of the Moringa leaves, once the plants will be grown enough for cultivation. Presently, they are encouraged to use of Moringa leaves in their daily preparation of their home made food ingredients to enhance nutritional level of their families by this miracle tree.





**Shiv Shakti Sakhi Mandal – Bag Making Group:**



On the occasion of Gujarat Foundation Day, Shri Vijay Rupani, Hon'ble Chief Minister of Gujarat State visited our SHG Trade Exhibition Stall and recognized the initiatives undertaken by Adani Foundation for women self-help groups. He talked with SHG members and encouraged them for their splendid work. Shiv Shakti Sakhi Mandal, Jageshwar is bag making group specialized in school bags, laptop bags and jute bags. It was the great achievement!



Shiv Shakti Sakhi Mandal (SSSM) had prepared 290 nos. School Bags for Shala Pravetsosav – 2018. We supported this educational govt. initiative in our 7 project villages where the school bags prepared by our SHG every year. It is smart partnership between Education and livelihood project.



**Ban the Bag campaign**

**Considering this year World Environment Day Theme i.e. #Beat Plastic Pollution:** Cotton Bags were distributed at two local vegetable markets at Bharuch City in association with Gujarat Pollution Control Board, Bharuch on dated 17<sup>th</sup> June, 2018. The 500 nos. bags were prepared by SSSM funded by APDPPL. The campaign offered every citizen the opportunity to engage and act against the use and distribution of plastic bags

### **Rural Infrastructure Development**

**Rural infrastructure** is vital to economic **growth** and poverty alleviation in the villages. ... It helped in improving the quality of lives for people living in respective villages covering the thrust areas of community mobilization, education intervention, vocational training, women empowerment, healthcare and sanitation.

With this pace, Adani Foundation is envisaged to link up missing development initiatives with our important stakeholders i.e. Village Panchayat, School, Community etc. In the first half of fiscal year, we have constructed 4 houses to BPL families of Lakhigam Village and 2 smart room activity class rooms at Primary School, Jageshwar. Sometimes, due to lack of govt. funding or lengthy process, beneficiaries remain to attend very badly. Corporate initiative like us supports this gaps to fulfil and canvass the village infrastructure in decent manner.



The project cost of already constructed Rural Infrastructure Development activities of first half year as mentioned above is crossed Rs. 25 Lakhs plus.

In next half year, we will invest significantly in improvement of Rural Habitant Development of surrounding villages as per consideration of their felt needs as per annual plan.