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**adani**<sup>TM</sup>

Letter No.: APPPL-EHS/MOEF RO/EC Comp (III)

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.**

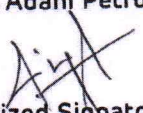
**Ref.:-** 1) Environmental and CRZ Clearances granted to M/s. Adani Petronet (Dahej) Port Pvt Ltd for **Phase-III** vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III.  
2) CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG for **Phase-III** vide letter dated 14/03/2016 bearing No.: ENV-10-2015-171-E.

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-110 003.
2. The Director, Forest and Environment Department, Block-14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar, Gujarat-382 010.
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010 (Gujarat).
5. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt Ltd  
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Ministry of Environment & forest  
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)  
Regional Office (Western Regional)  
परिवेश भवन  
Indira Paryavaran Bhawan  
Jor Bagh Road No.3  
New Delhi-110 003  
26-11-18  
भोपाल 462016

**Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
(i)	'Consent for Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Consent for establish was obtained from Gujarat Pollution Control Board vide no 71696 dated 08.09.2015. Copy of Consent to Establish was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
(ii)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Complied. <ul style="list-style-type: none"> <li>All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006.</li> <li>No construction work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.</li> </ul>
(iii)	The Project proponent shall ensure that there shall be no damage to the existing mangroves patches near site and also ensure the free flow of water to avoid damage to the mangroves.	Complying with. There is no damage to Mangrove due to project activity. Free flow to the mangroves near the project area is maintained.
(iv)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Complied. No creeks are blocked due to project activity.
(v)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.	Complying with. <ul style="list-style-type: none"> <li>Reclamation of the area is being done as per the approval received.</li> <li>There is no dumping of any material outside the project area towards the shore.</li> <li>Study on shore line change will be conducted once the construction of project will progress.</li> </ul>
(vi)	The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the	Complied. All the commitments made during the public hearing have been complied with. An action taken report is enclosed as <b>Annexure 1</b> .

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Sr. no.	Conditions	Status/Action taken
	Ministry.	
(vii)	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.	<p>Complying with.</p> <ul style="list-style-type: none"> <li>All conditions stipulated in the EC and CRZ clearances are being complied with. A separate six monthly compliance report is being submitted to MoEF&amp;CC and other authorities.</li> <li>All the recommendations and suggestions given by NIO, M/s Chalamandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 2</b>.</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>
(viii)	The material for reclamation shall be sourced only through Government approved quarry. The quarried material shall be free from all kinds of contamination and high organic carbon contents. The same should be tested prior to reclamation.	<p>Complying with.</p> <p>All the material for reclamation is procured through approved agency. It has been ensured that Material used for reclamation is free from high organic carbon contents.</p>
(ix)	The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 m above the coal stock, made of fabric/HDPE, water sprinkler arrangement, green belt of at least three layers of suitable trees and scrubs.	<p>Complying with.</p> <p>Coal being stored at designated stock yard with dust control measures viz. wind screen made of steel of height at least 2 m above the coal stock, water sprinkler arrangement, green belt of suitable trees and scrubs.</p>
(x)	The coal from the ships shall be conveyed through closed conveyor to the coal stock yard. The conveyor shall be seamless without joints/transfer points.	<p>Noted for Compliance.</p> <p>Mechanization of South Berth is yet to be implemented. After project completion coal will be transported through closed conveyor to the coal stock yard. The alignment of the conveyer will be based on the</p>

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Sr. no.	Conditions	Status/Action taken
		engineering requirement to meet the objectives.
(xi)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.	Complying with. Regular cleaning of roads is being carried out with the help of two high vacuum road sweeping machine. Regular water sprinkling is carried out by two mobile water tankers.
(xii)	The mangrove plantation of 50 ha shall be under taken in consultation with Gujarat Ecology Commission / State Forest Department.	In progress. The mangrove plantation of 50 ha is in progress at Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE).
(xiii)	Cargo shall be unloaded directly into hopper from the ship and transported to the stack yards through closed conveyor system only. Inbuilt dust suppression systems shall be provided at hoppers and all the transfer points / storage yards. Cargo shall not be unloaded directly onto the berth. Water meters shall be provided at different locations to record the consumption of water used for dust suppression and daily log shall be maintained.	Complying with <ul style="list-style-type: none"> <li>At APDPPL, on mechanize berth cargo is handled through conveyor system. Material handling system is equipped with Dry Fog Dust Suppression System. Coal storage yard is equipped with dust suppression system.</li> <li>After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.</li> </ul>
(xiv)	Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do not interfere with the natural drainage	Complying with All the construction activities are as per the approval received under CRZ notification 2011 and EIA notification 2006. During Project (Phase III) implementation, it will be ensured that there shall not interference with the natural drainage.
(xv)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being through GIDC water supply.
(xvi)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the	Complied. <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.</li> <li>The monitoring results of the treated</li> </ul>



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Sr. no.	Conditions	Status/Action taken
	Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	wastewater from STP for the period from April 2018 – September 2018 are enclosed as <b>Annexure –3F</b> . <ul style="list-style-type: none"> <li>APDPPL regularly submits report to State Pollution Control Board.</li> </ul>
(xvii)	All the operational areas will be connected with the network of liquid waste collection corridor comprising of storm water, oily waste and sewage collection pipelines.	Complied. There is no liquid effluent generation during construction and operation of project. Separate storm water drain network have been provided. Domestic effluent is being transported from generation point to STP in close type Gully Men vehicle. Dedicated Hazardous waste storage area has provided for collection and storage of Hazardous waste.
(xviii)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation , mangroves and other marine biodiversity components as part of the management plan.	Complied. Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of April 2018 to September 2018 are enclosed as <b>Annexure 3C and 3D</b> .
(xix)	The marine ecology management plan being drawn up with regards to the environmental impacts of natural disasters, oil spills and other wastes, dredging and dumping on marine ecology (all micro, macro and mega biotic components) shall be scrupulously implemented. It shall be ensured that the marine ecology in the area of influence is not adversely affected.	Complied with. <ul style="list-style-type: none"> <li>There is no dredging and dumping of waste on to the marine ecology envisage in this project.</li> <li>Marine ecology is being monitored through NABL accredited &amp; MoEF&amp;CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of April 2018 to September 2018 are enclosed as <b>Annexure 3C and 3D</b>.</li> </ul>
(xx)	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.	Complied. Marine ecology is being monitored through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Reports show

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Sr. no.	Conditions	Status/Action taken
		that there are no significant changes in the marine ecology indicators. Reports for the period of April 2018 to September 2018 are enclosed as <b>Annexure 3C and 3D.</b>
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Complied. <ul style="list-style-type: none"> <li>APDPPL is having well established Oil Spill Contingency Plan.</li> <li>There is no Oil spill reported during the period of April 2018 to September 2018.</li> <li>Periodic Mock drills are conducted. Recent mock drill was conducted on 29.09.2018.</li> </ul>
(xxii)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	Complying with. All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as <b>Annexure 2.</b>
(xxiii)	Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/ disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period.	Complying with. There is no discharge of oily bilge waste or ballast water in the sea within port limit. APDPPL is not accepting any kind of Hazardous Waste from ships/vessels.
(xxiv)	Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.	Complied. <ul style="list-style-type: none"> <li>DG sets are installed as per the approval. Periodic Monitoring of DG set Stack emission &amp; noise is being carried out M/s Pollucon Laboratories, a NABL accredited and MoEF&amp;CC recognised laboratory.</li> <li>Reports of DG sets are enclosed as <b>Annexure 3H.</b></li> </ul>
(xxv)	All the mechanized handling systems and other associated	Complying with. <ul style="list-style-type: none"> <li>At APDPPL, on mechanize berth</li> </ul>

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Sr. no.	Conditions	Status/Action taken
	equipments such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.	cargo is handled through conveyor system. Material handling system is equipped with Dry Fog Dust Suppression System. Coal storage yard is equipped with dust suppression system. <ul style="list-style-type: none"> <li>After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.</li> </ul>
(xxvi)	No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.	Complied. APDPPL is handling dry cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.
(xxvii)	The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	Complied. The quality of treated effluents, solid wastes, emissions and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited and MoEF recognised laboratory. Monitoring Reports for the period of April 2018 to September 2018 is enclosed as <b>Annexure 3</b> .
(xxviii)	All the mitigation measures suggested in the EIA report and the marine environment study of CWPRS, Pune shall be implemented. The compliance for each of these measures shall be submitted to concerned SPCB and R.O. of this Ministry along with six monthly compliance reports.	Complying with. <ul style="list-style-type: none"> <li>All the recommendations and suggestions given by NIO, M/s Chola mandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 2</b>.</li> </ul>
(xxix)	It shall be ensured by the Project Proponent that the activities does not cause disturbance to the fishing activity, movements of fishing boats and destruction to mangroves during the construction and operation phase.	Complied. There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.
(xxx)	The Project Proponent shall take up and earmark adequate fund for socio- economic development and	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking

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Sr. no.	Conditions	Status/Action taken
	welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	care of Social-economic establishment activities and details of the same for the period of April 2018 to September 2018 is attached as <b>Annexure – 7.</b>
(xxxix)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 6.</b>
(xxxix)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), 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 FY 2018-19 is enclosed as <b>Annexure – 5.</b>
(xxxix)	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Complying with. All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as <b>Annexure – 2.</b>
(xxxix)	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system, measures to be taken for protection. One set of environmental manual shall be made available at the project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	Complied. <ul style="list-style-type: none"> <li>APDPPL has prepared operating manual for all activities and is certified for ISO 14001: 2015, ISO 9001: 2015 and OHSAS 18001: 2007.</li> <li>Complete set of operating manual is available at site.</li> <li>Regular awareness sessions is organized for each level of management as per the training need identification (TNI) done by HR department.</li> </ul>



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Sr. no.	Conditions	Status/Action taken
		<ul style="list-style-type: none"> <li>All the schedules and results of environmental monitoring is available at EHS department of project site.</li> </ul>
(xxxv)	<p>Corporate Social Responsibility:</p> <ol style="list-style-type: none"> <li>The Company shall have a well laid down Environment Policy approved by the Board of Directors.</li> <li>The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.</li> <li>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</li> <li>To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</li> </ol>	<p>Complied with.</p> <ul style="list-style-type: none"> <li>Company has an Environment Policy.</li> <li>All the requirements mention in the condition is being met through Environment Management System (ISO 14001:2015).</li> <li>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions (Environment Cell Organogram) is enclosed as <b>Annexure – 6.</b></li> <li>APDPPL has form a management review committee-comprising head of departments and chaired by site head. This review committee meets once in six month to review and monitor EHS performance of the site. All action items being recorded and implemented.</li> </ul>
<b>B. General Conditions.</b>		
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	<p>Complied with.</p> <p>There is no digging activities except piling and foundation works of structures. Appropriate measures are being taken during such activities. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level &amp; quality is being done through M/s Pollucon Laboratories, a NABL accredited and MoEF&amp;CC recognised</p>

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Sr. no.	Conditions	Status/Action taken
		laboratory. Copies of reports are enclosed as <b>Annexure 3B</b> .
ii	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation 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 ADPPL full support is extended and ADPPL 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>
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Noted and Complied. APDPPL is regularly submit six monthly compliance reports which comprises Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports and EMP Status etc. and Last submission was on 25.05.2018.
iv	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with	Noted and Agreed.
v	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted & Agreed.
vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made	Complied. There is no change in the implementation of project

	<b>Adani Petronet (Dahej) Port Private Limited</b>	<b>From : Apr., 2018 To : Sep., 2018</b>
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Sr. no.	Conditions	Status/Action taken
	to the Ministry of Environment, Forest and Climate Change.	profile/agency.
vii	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> <li>Financial closure date for the project is 29/10/2014.</li> <li>Consent to Establish from Gujarat Pollution control Board is obtained on 08/09/2015.</li> <li>Start of land development (23 Ha. reclamation) work 17.10.2017.</li> </ul>
viii	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	Complied with. Copy of the clearance letter is submitted to concern Panchayat/ local NGO by hand and by register speed post. Copy of the acknowledgement and receipt of speed post were submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
ix	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days	Complied with. This condition does not belong the project proponent, however, APDPPL has submitted request letter along with a copy of environment clearance letter for display to Gujarat Pollution Control Board, District Industries Centre and Collector's Office vide letter dated 27.10.2016.
11	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted & Agreed
12	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall	Complied. <ul style="list-style-type: none"> <li>For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2019.</li> </ul>

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Sr. no.	Conditions	Status/Action taken
	be obtained, as applicable by project proponents from the respective competent authorities.	<ul style="list-style-type: none"> <li>• Forest clearance has been taken for 38 ha of land (Phase II) vide letter no A-1006(10-9)SF-76-K dated 1<sup>st</sup> July 2008 from DOEF.</li> <li>• Clearance from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16<sup>th</sup> June 2008.</li> <li>• Fire NOC: Not Applicable.</li> <li>• Civil Aviation: Not Applicable.</li> <li>• Permission under Wildlife (Protection) Act, 1972 : Not Applicable.</li> </ul>
13	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.	<p>Complied.</p> <ul style="list-style-type: none"> <li>• Environment clearance letter is published in "Indian Express" and "Gujarat Guardian" newspapers on dated 25<sup>th</sup> October 2016 which is within 7 days of from the date of the receipt of clearance letter. Copy of advertisement has been submitted to Regional Office MOEF on 28<sup>th</sup> October 2016 vide letter no APDPPL/MOEF-RO/01/2016. Copy of the same was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.</li> </ul>
14	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<p>Complied.</p> <p>The status of environment clearance conditions is available on company website that i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></p>
16	Any appeal against this Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as	Noted.

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Sr. no.	Conditions	Status/Action taken
	prescribed under Section 16 of The National Green Tribunal, Act, 2010.	
17	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<p>Complied with.</p> <ul style="list-style-type: none"> <li>Copy of the clearance letter is submitted to concerned Panchayat, Zila Parisad, local body and the local NGO by hand and registers speed post. Copy of the acknowledgement and receipt of speed post was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017. Copy of environment clearance is also available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> </ul>
18	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, the respective Zonal Office of CPCB and the SPCB.	<p>Complied.</p> <ul style="list-style-type: none"> <li>Compliance reports along with monitored data are available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> <li>Same is being regularly submitted to concerned authorities. Last submission was on 25.05.2018.</li> </ul>
19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEFCC by email.	<p>Complied.</p> <ul style="list-style-type: none"> <li>Environment statement regularly being submitted to Gujarat Pollution Control Board. Last report was submitted dated 25<sup>th</sup> May 2018. Copy of report is also available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a></li> <li>Same has been sent by email to RO, MoEF on 01.06.2018.</li> </ul>



**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
1	The provisions of the CRZ Notification of 2011 shall be strictly adhered to by M/s APDPPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by M/s APDPPL	Complied. <ul style="list-style-type: none"> <li>All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006.</li> <li>No activity work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.</li> </ul>
2	The APDPPL shall ensure that there shall not be any blockage of creek and free flow of water is maintained	Complied. No creeks are blocked due to project activity.
3	The APDPPL shall have to comply with the agreement made by then with GACL regarding re-routing of the pipeline of GACL and M/s APDPPL shall have to borne the cost as per agreement.	Complied. Re-routing of the pipeline of GACL has been done and all expenditure has been borne by APDPPL.
4	The APDPPL shall not construct any storage facilities for material/chemicals in the CRZ area except for those permissible as per Annexure – II of the CRZ Notification - 2011. Also for other Hazardous chemical, outside CRZ areas, the APDPPL shall have to consult SDMA for Disaster Management Plan.	Complying with. <ul style="list-style-type: none"> <li>APDPPL is handling dry cargo mainly coal and other bulk cargos at designated storage areas as per approval &amp; CRZ notification 2011</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>
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	Complied <ul style="list-style-type: none"> <li>Consent to establish has already been obtained vide GPCB/BRCH-B/CCA-06(6)/ID 31664/326835 dated 08/09/2015.</li> <li>For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2019.</li> <li>Forest clearance has been taken for 38 ha of land (Phase II) vide letter no A-1006(10-9)SF-76-K dated 1<sup>st</sup></li> </ul>

**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
		<p>July 2008 from DOEF.</p> <ul style="list-style-type: none"> <li>Clarence from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16<sup>th</sup> June 2008.</li> </ul>
6	The APDPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	<p>Complying with.</p> <p>There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.</p>
7	All the recommendation and suggestions given by Cholamanadalam MS Risk Services Limited, Chennai in their Environment Impact Assessment reports for conservation / protection and betterment of environment shall be implemented strictly by M/s APDPPL.	<p>Complying with.</p> <ul style="list-style-type: none"> <li>All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 2.</b></li> </ul>
8	The construction and operational shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal/ marine habitats. The construction activities shall be carried out only under the guidance / supervision of the reputed institute/ organization.	<p>Complying with.</p> <ul style="list-style-type: none"> <li>Construction and operation activities are being done in such a way that there is no impact on the mangroves. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.</li> <li>Gujarat Marine Board is regularly monitoring the project progress.</li> </ul>
9	The construction debris and/or any other type of waste shall not be disposed of into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	<p>Complying with.</p> <ul style="list-style-type: none"> <li>No debris or other construction waste is being disposed into the sea, creek or in CRZ areas.</li> <li>Reclamation of the area is being done as per the approval received.</li> </ul>
10	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction	<p>Complying with.</p> <p>No labour camps are 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.</p>

**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
	labours.	
11	M/s APDPPL shall prepare and regularly update the 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 Indian 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>
12	M/s APDPPL shall bear the cost of the external agency that may be appointed by this Department for supervision /monitoring of proposed activities and the impact of the proposed activities.	Noted and shall be complied.
13	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction	Complied. Jetty approach is already operational. No new jetty is proposed under the phase III development except the widening of rubble bund.
14	The ground water shall not be tapped within the CRZ areas by the APDPPL to meet the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is been met through GIDC water supply.
15	M/s APDPPL shall take up massive greenbelt development activities in consultation with Forest Department / GEER Foundation / Gujarat Ecology commission. 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. Detailed plan of the green belt development plan is enclosed as <b>Annexure 4</b> .
16	Mangrove plantation in 50 Ha. Shall be carried out in consultation with the Gujarat Ecology Commission/ Forest Department by M/s APDPPL within a period of two years from the date of issuance of the CRZ clearance by the MoEF&CC, GOI and an action plan in this regard shall be submitted to this Department along with satellite	In progress. The mangrove plantation of 50 ha is in progress at Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE).

**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
	images and GPS readings with Latitudes and Longitudes.	
17	The APDPPL shall have to take up bio-shielding development programme in consultation with the Forests Department/ PCCF and an action plan in this regard shall have to be submitted to the MoEF&CC – GOI and this department.	Shall be complied. Area identification for Bio shield project is under progress.
18	M/s APDPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector / District Development Officer.	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 for the period of April 2018 to September 2018 is attached as <b>Annexure – 7</b> .
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove plantation and details thereof shall be furnished to this department as well as the MoEF&CC, GOI. The details with respect to the expenditure from this budget head shall also be furnished alongwith the compliance report.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), 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 FY 2018-19 is enclosed as <b>Annexure – 5</b> .
20	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction andn operational phases of the project	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as <b>Annexure – 6</b> .
21	Environmental Audit report indicating the changes, if any, with respect to the baseline environment quality in the coastal and marine environment shall be submitted every year by M/s APDPPL to this Department as well as	Complying with. <ul style="list-style-type: none"> <li>The quality of Ambient air, treated effluents, sea water and sediment, ground water and noise levels is being monitored through M/s Pollucon</li> </ul>

**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken
	to the MoEF&CC, GOI.	<p>Laboratories, a NABL accredited agency. Monitoring Reports for the period of April 2018 to September 2018 is enclosed as <b>Annexure 3</b>.</p> <ul style="list-style-type: none"> <li>Report confirms that there is no significant change in the quality in comparison to base line (wherever available)</li> </ul>
22	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s APDPPL on a regular basis to this Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	<p>Complying with.</p> <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, status of EMP etc.</li> <li>Last submission was done on vide letter dated 25.05.2018.</li> </ul>
23	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 / management purpose shall also have to be complied with by M/s APDPPL.	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.



**Annexure – 1**  
**Action taken on PH commitments**

**Status of the action item of public consultation points**

<b>Sr. No.</b>	<b>Name of representative and address</b>	<b>Points Represented during Public Hearing</b>	<b>Answer given by representative of project proponent</b>	<b>Remark</b>	<b>Status of action Item as on 30/09/2018</b>
1.	Shri ManaharbhaiGohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> <li>• Participating the public hearing he said that, he has studied the EIA report which is misleading.</li> <li>• Five notices have been issued to the unit by GPCB but the data presented in the presentation are really shocking. There is increase in noise pollution due to company.</li> <li>• All the improvements made by the unit are only during last three months.</li> <li>• Tyre washing of Vehicle is not carried out. Equipments purchased for maintaining cleanliness is not used regularly and there is no proper implementation of instructions given by GPCB through the notices. Further he made following observations /suggestions:               <ol style="list-style-type: none"> <li>1. Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road.</li> <li>2. Transportation of coal through trucks should be stopped.</li> <li>3. Precautions should be taken to</li> </ol> </li> </ul>		After completing his representation, he immediately left the venue.	Reply sent on 18 <sup>th</sup> March 2015 as he immediately left the venue. No further action is required. Copy already submitted to MoEF as a part of EIA Annexure -16.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<p>avoid fire in coal storage area.</p> <p>4. "Court Commission" should be appointed for evaluation of current environmental condition of the company.</p> <ul style="list-style-type: none"> <li>Finally, he told that he does not agree with the report of the company and raised strong objection against the expansion project of the company. He also pointed out that in the past three people already died due cargo vehicles of the company.</li> </ul>			
2.	Shri Pushkarsinh Rana, Village Dahej	<ul style="list-style-type: none"> <li>He raised objection for selection of location for conducting Public Hearing and asked GPCB why Public Hearing is organized in Luvara village instead of Project site or Lakhigamitself and requested to appraise the site criteria for Public Hearing</li> <li>He asked that how many pages are used in EIA report and in comparison how many pages are used in Executive summary.</li> </ul>	<ul style="list-style-type: none"> <li>Project Proponent informed that the decision rights for selection of location for the Public Hearing is with GPCB and normally PH location is decided based on the Notification of EC of MoEF.</li> <li>Representative of Project Proponent replied that EIA report is in three parts. EIA report included 268 pages, Annexures include 378 pages and appendix includes 264 pages making total report of 858 pages. Executive summary includes 25 pages.</li> </ul>	Regional Officer, GPCB clarified that w.r.t. selection of location for public hearing, the words used in the EIA notification are "at the project site or in close proximity" with this consideration as well as the availability of large ground area suitable for parking and accommodating as many people as possible, the Luvara village is selected as preferred location for public hearing as the same is 2 km away from the project site.	<p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>• He told that Executive Summary is of only 25 pages and that are very less as compared to pages of EIA report and it shows that company has hidden many information which is not acceptable to us. He also informed that this is a draft report only but the proponent never informing us whether clarifications are included in final EIA report or not?</li> <li>• He asked the clarification whether project location is on land or in sea. Whether the land is allotted or not and who is owner of land?</li> <li>• What is meaning of MOEF?</li> </ul>	<ul style="list-style-type: none"> <li>• Executive Summary is prepared as per the guidelines under EIA Notification. The more pages are due to various annexures.</li> <li>• Project proponent informed that our port is functional and we have shown different components of the project in map. Two jetties in sea a trestle, rubble bund and back up area are already developed. Also, there is a railway yard for transportation of cargo.</li> <li>• The expansion proposed for carrying out reclamation is falling in intertidal area and therefore that land do not have any survey number. We have asked for permission and reclamation will be carried out after permission from MOEF.</li> <li>• The Project Proponent replied that MOEF stands for Ministry of</li> </ul>	<p>Dist. Collector has informed to Project Proponent to communicate the changes made in the draft EIA while finalizing the EIA to the concern representative.</p>	<p>After obtaining CRZ recommendations from GCZMA vide their letter 14th March 2016, we have informed the concerned person about final EIA report for the proposed project and the source of availability on the MoEF website vide letter dated 17.03.2016 . No further action is required.</p> <p>No further action</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>As per Sr. No.6 table no.1.1 of Executive habitation in the villages or big town in expansion area. What is the location of Summary there is no expansion project</li> <li>As per Sr. No.14 of table no.1.2 of Executive Summary, it is shown that Birla Copper is located at a distance of two km in North direction and Hindalco is located at a distance of 5.1 km in the North East direction. So two different locations are shown which is one location only</li> <li>He pointed out that in your report Sabarmati pond is shown and asked where it is located and from where this information you have gathered? He further aggressively clarified that people are living in these villages since many years and there is no Sabarmati Pond in existence in this area.</li> <li>Executive Summary includes widening of the Road and he asked which roads are to be widened.</li> </ul>	<p>Forest and Environment, Government of India</p> <ul style="list-style-type: none"> <li>The project proponent replied that there is no habitation in the inter tidal land, proposed for reclamation</li> <li>The project proponent replied that verification will be done for Hindalco and Birla Copper and necessary changes will be made if, any.</li> <li>The Project Proponent has shown Map prepared and published by Survey of India in 2007 which shows Sabarmati pond. As per the instruction of Dist. Collector same is shown to Shri Pushkarsinh Rana</li> <li>The project proponent replied that proposal includes widening of the existing rubble bund which is inside the port.</li> </ul>	<p>Dist. Collector informed the villagers to make to the point representation and also drew their attention that if, they make proper representation then and then only their concern will reach to the appropriate authorities and we are here for the same purpose.</p>	<p>required</p> <p>No further action required.</p> <p>It is verified. No changes done.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>The proposed expansion is for the increase of capacity from 11.7 MMTP against the current actual handling which is less than 11.7 MMTP. So how pollution will be controlled for this expansion of capacity?</li> <li>The road starting from port up to Reliance is full of coal dust. Cleaning is going on since last 5 days only. High level of pollution is created in this area. This matter should come in writing. Equipment for cleaning of dust on the road is not used regularly. It is requested to show the details of equipment used in cleaning. The</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that proposed expansion is for increasing the handling capacity from 11.7 MMTPA to 23 MMTPA and by doing this there will be reduction in pollution. We are having two jetties one in North direction and another in South direction. North Jetty is mechanized whereas In South jetty transportation of coal up to storage yard is being carried out through trucks. The proposed expansion includes mechanization of south jetty and transportation of coal through conveyor. Therefore, minimal transportation will be done through tucks. Therefore, there will be overall reduction in pollution due to 75% reduction of truck movement.</li> <li>The Project Proponent informed that equipment for cleaning of road is used since last 1.5 years. In addition the company has purchased second equipment and same is also functional.</li> </ul>	<p>Regarding the role of GIDC and GPCB, Dist. Collector clarified that Govt. is working for the people only.</p>	<p>No further action required.</p> <p>No further action required.</p>



Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<p>same is also informed to GIDC and GPCB but complaints have remained on papers only.</p> <ul style="list-style-type: none"> <li>Is there any role of GIDC in this matter? To whom we should approach when GIDC is allotting land to industries. This is the only platform where we can make the representation.</li> <li>Will there be any increase of capacity of railway loading silo and related infrastructure?</li> <li>No employment is given to land looser of railway yard. Company should give</li> <li>Assurance for employment to land losers.</li> <li>The responsible officers of GIDC</li> </ul>	<ul style="list-style-type: none"> <li>The Project Proponent replied that Belt conveyor capacity is adequate and silo will be developed at the same place where one silo already exists. There is no requirement of new land for this purpose.</li> <li>Shri. Amish Trivedi, Representative of the project proponent replied that GIDC has allotted land on ROU basis and land for S&amp;S yard given on lease basis. The Land acquisition is done as per agreement between land owner and GIDC.</li> <li>Company representative Mr. P. N. Roychowdhury replied that there is no employment policy for land looser of ROU land.</li> <li>Only GIDC can answer on this</li> </ul>		<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<p>should also be required to remain present during Public Hearing.</p> <ul style="list-style-type: none"> <li>I am unable to understand data shown in 3.1 w.r.t. ambient air quality therefore, I request to explain</li> <li>He pointed out that as per Executive Summary 3.7.1 there is no fisheries and requested to inform the reason behind it. Fisherman have no option left and they have become unemployed for which companies are only responsible and therefore companies should provide employment to fishermen also.</li> </ul>	<p>issue.</p> <ul style="list-style-type: none"> <li>The project proponent replied that in India, norms of ambient air quality are already decided and parameters like PM10, PM2.5, SO<sub>2</sub>NO<sub>x</sub> etc are measured to decide the quality of ambient air. These parameters are decided by CPCB. If, these parameters are below the standards then they are acceptable. The results found during the study are within the acceptable limit, during study.</li> <li>The project proponent replied that as per the data of Gujarat, fisheries contribution of Bharuch is only 1% which is very less. Kutch is contributing 17%. Fisheries are of two types (i) Fisheries in sea and (ii) Fisheries of Jinga and other types in inland water. Adani company is not responsible for reduction in fisheries which is also evident from the following data (Gujarat State) Presence of Adani Company is since 2011. In 2004 when Adani was not presence the fisheries production was 7489 MT, in 2005-06 it was 8743 MT, in 2009-10 it was 14810</li> </ul>		<p>action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>As per Executive summary it is mentioned that tyre washing of vehicles is done but same is not being carried out.</li> <li>Company is doing transportation of coal through rail and truck. Dahej – IPCL road used for transportation of coal is passing through Vadia village which is residential area and hotels are also located on that road. Instead of this, it is requested to use bypass road passing near GACL for the same.</li> <li>I wish good luck to company with hope to do better work for environment.</li> </ul>	<p>MT and in 2011-12 It was 12914 MT.</p> <ul style="list-style-type: none"> <li>Project proponent replied that in proposed expansion project, for air pollution control, dust suppression system will be installed during construction activities, regular water sprinkling will be carried out on roads, tyre washing facilities to be provided to avoid carry forward of dust through tyres. The tyre washing facility will become functional from 1<sup>st</sup> June, 2015.</li> <li>Project proponent replied that we welcome your suggestions. Necessary survey will be done and appropriate steps will be taken.</li> <li>Project proponent conveyed thanks for his encouraging words.</li> </ul>		<p>Tyre washing facility is in place and other measures will be taken during construction and operation phase.</p> <p>No change in the route is required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
3.	ShriJayatibhaiA hir Village - Luvara	<ul style="list-style-type: none"> <li>I am Sarpanch of Luvara village. All companies are conducting public hearing and concerns of villages are considered.</li> <li>Our representations during public hearing of ONGC on the issues of storm water management of village are also to be considered. ONGC has helped villages in providing disposal system of rain water from village. Adani company has also helped for renovation of houses of Adivasis. Fishing nets are provided to fishermen. Adani company has sanctioned to build 55 houses out of which 11 houses are already constructed. There is reduction in air pollution after installation of belt conveyor belt by Adani company. It is also true that regular cleaning of roads are carried out by company.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		No further action required.
4.	DahyabhaiGhan abhai Patel Village – Jageshwar	<ul style="list-style-type: none"> <li>I do agree representation made by Manhabhai and Pushkarsinh. Conveyor belt should not be allowed through Jageshwar village. I hereby submit by representation in writing.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	Written representation made by Shri Dahya bhai is accepted.	No further action required.
5.	Mayurdhvajsinh Village - Dahej	<ul style="list-style-type: none"> <li>Officers of Adani Company are fooling villagers.</li> </ul>			

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
6.	ShriNareshbhai Village - Lakhigam	<ul style="list-style-type: none"> <li>This is expansion proposal for phase III. I request all to stay in Lakhigam and decide about pollution control. There is high level of pollution exists. What is the reason for 46 deaths in last 4-6 months?</li> <li>As shown in the report, monitoring is done at which locations in the village.</li> <li>Pollution reaches to our houses and dust can be seen on the utensils for drinking water. Adani has manipulated with official record.</li> <li>There are issues for land losers and they do not get employment. We have to protest. All these expenses are also on the head on farmers. It is requested that company should provide</li> </ul>	<ul style="list-style-type: none"> <li>Project proponent replied that with respect to ambient air parameters same are as shown in the table no. 3.1 of Executive summary. Monitoring equipment were placed at the (1) residence of Shri Dilipbhai in Luvara village, (2) residence of Shri Chhotubhai in Jageshwar village, (3) Residence of Shri Ganpatgiri in Ambetha village, (4) P J Chheda High School in Dahej and (5) Primary School in Lakhigam.</li> <li>This is false allegation and not acceptable to us.</li> <li>In existing project, out of 20 land losers 10 have been already given employment and for remaining 10 we have requested the families to give their nomination which we have not</li> </ul>		<p>No further action required.</p> <p>At present no action is pending</p>



Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<p>employment to us on their own.</p> <ul style="list-style-type: none"> <li>Company should think about high pollution levels.</li> </ul>	<p>received from their side.</p> <ul style="list-style-type: none"> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>		No further action required.
7	Shri Kalidas Rayjibhai Patel Sarpanch, Village - Jageshwar	<ul style="list-style-type: none"> <li>In this region people are speaking wrong things. I would like to inform Dist. collector that poor people are exploited. Since 35 years people of Navinagari were not able to sleep peacefully and there was no repairing work was done for their houses but Adani foundation helped in renovation of 120 houses and also supported for food arrangement to masons while constructing houses.</li> <li>Nobody came for help from Taluka and District level. The plaster was falling in primary school classes, which was repaired by Adani Company. Camera system is also installed in High School</li> <li>Training programs for beauty parlor were organized by Adani. So in general we are getting good support from the company. Pollution is of many types and local people are aware about that. It is requested to Dist. Collector to pay attention for pressured being</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> <li>The project proponent has expressed thanks for appreciation.</li> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		created on local people by sarpanch for the work which is not done by them. Adani has provided fishing nets to fishermen. Adivasi's are cutting trees for their survival needs so they should be given some work.			
8	Shri Bhagwanbhai Gohil, Village Paniyadara	<ul style="list-style-type: none"> <li>At which locations EIA reports should be made available</li> <li>EIA report is published on GPCB website is in English. Why it is not published in Gujarati. It should be also given in villages.</li> <li>What will happen If, concentration of PM10 in ambient air will increase from its limit of 100 mg/cum? Who will be responsible if, health of people will deteriorate.</li> <li>How much pollution will increase if, handling capacity increase from 11.7 MMTPA to 23 MMTPA.</li> <li>It is shown in the presentation that employment will be given to 1000-1300 people. We request that 85% of employment should be given to locals.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that as per guidelines EIA report is prepared in English and executive summary is prepared in English as well as in Gujarati.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> <li>The project proponent replied that any project includes various phases like construction, transportation of goods etc. during construction phase employment will be given to 1000-1300 people. As per data of</li> </ul>	<p>Regional officer of GPCB replied that EIA report is made available at following offices</p> <ol style="list-style-type: none"> <li>District collector office, Bharuch</li> <li>District Development office, Bharuch</li> <li>District Industries Centre, Bharuch</li> <li>Taluka Development office, Tal. VagraDist.Bharuch</li> <li>Chief Conservator of Forest, Bhopal</li> <li>Regional officer, GPCB, Bharuch</li> </ol>	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>APDPPL is committed to give priority to locals.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>As per page No.53 of EIA report it is mentioned that there is no tourism place in this area. Whereas, Lakhabava temple is already exist than why it is not shown in report?</li> <li>It is requested to announce that problem of coal dust in Lakhabava temple should be controlled</li> <li>As per Sr.10 page No.53 of EIA report, it is mentioned that there are 50 fishermen are in Jageshwar village but fishermen are exist in all villages. Govt. records are false and it is their negligence which is misused. Companies are getting information five days in advance</li> </ul>	<p>earlier two phase of development as of date 2/3 people are employed for transportation of goods are from Gujarat. Suitable action will be initiated on receipt of order for 85% employment of locals.</p> <ul style="list-style-type: none"> <li>The project proponent replied that EIA report included tourism places as per records of Gujarat Govt. Lakhabava temple is not a declared tourism place as per published list of places hence not included. However, we respect the religious importance of the place.</li> <li>The project proponent replied that we are having sympathy with your feelings. We have already taken maximum measures for Lakhabava temple as well as carried plantations of trees and cleaning activities in that area. We accept your suggestion.</li> <li>The project proponent replied that we have collected these data from fisheries department.</li> </ul>		<p>No further action required.</p> <p>All the suggested measures are already taken and frequent cleaning will be done as and when needed. No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		regarding visit of GPCB.			
9	Shri Ramanbhai Patel, Village: Luvara	<ul style="list-style-type: none"> <li>Whose development is this? Only companies are growing. It is told to youth that they are locals. Even educated people are not getting employment. 50 students of Luvara village has completed course of ITI under GOLS in 2010-11 organized by GIDC but this certificate is not accepted to companies in Dahej region. It is requested to close this GOLS ITI program because it is not recognized.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
10	Shri Dipakbhai Patel Village: Jageshwar	<ul style="list-style-type: none"> <li>I am working in a company where candidates with ITI course completed thru GIDC are not eligible for Apprenticeship. Youth of village is not having employment.</li> </ul>		Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
11	Shri Niteshbhai Patel Village: Luvara	<ul style="list-style-type: none"> <li>There are issues related to employment to land losers in this area and representation was made to previous collector madam but till date we have not received proper response.</li> </ul>		Dist. Collector has informed that he has come across this issue but as this is not related to this public hearing and It will be taken separately. Even instructions have also come from CMO in this regard. Regarding bogus ITI necessary	No action required from company.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
				actions will be taken from Dist. Collectrate Office.	
12	Shri Sanjaybhai Gohil Village: Lakhigam	<ul style="list-style-type: none"> <li>Officers of various companies provides medical van if, they have expansion project (i.e. when such public hearing to be faced) but if, anybody died near their gate they do not provide any ambulance. Companies are working like Britishers. There are incidences of two deaths on account of brain haemorrhage. Who will be responsible for ill health of children of villages</li> </ul>			No action required from company.
13	Shri Yogeshbhai Patel Village: Lakhigam	<ul style="list-style-type: none"> <li>Can an arrangement for measurement of noise pollution in presence of village people be made? Conveyor belt is located near school which may impact due to high level of noise.</li> </ul>	<ul style="list-style-type: none"> <li>Standards are defined for Noise pollution and measurements are also within the limits, GPCB may also do necessary inquiry.</li> </ul>	Collector has informed that GPCB will arrange for measurement of noise in presence of village people	No action required from company.
14	Shri Shankarbhai Rathod Village: Lakhigam NaviNagri	<ul style="list-style-type: none"> <li>Adani foundation has provided support for raising the level of our houses and also constructed anganwadi</li> <li>Due to construction of jetty approach rock bund waters by Adani Company and Birla there is difference observed in currents of Sea which is impacting fishing</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> <li>There will not be any impact on fish due to this proposed expansion</li> </ul>		<p>No further action required</p> <p>No further action required</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		activities. What will be the impact on fish due to proposed project.			
15	Shri Kishorbhai Rana Village: Dahej	<ul style="list-style-type: none"> <li>Fishermen of this area are uneducated. It does not make any difference to them that who is running central government. They are in need of the survival of livelihood. I have uploaded the video on you tube for pollution created by Adani Company which you can see. Within the premises of Birla Copper around 100000 Neem trees are planted where foot prints of coal dust is being observed while going to temple.</li> <li>GIDC maps are getting revised as per the needs of the companies and village people are getting answer that again maps cannot be revised. It is requested to GPCB to provide contact numbers of the concern officer who can remain present at Dahej and may inspect the site on request through phone call while accident occur.</li> </ul>	<ul style="list-style-type: none"> <li>Project proponent replied that your representation is right but Ports are necessary for the development of country. We have not created any hindrances or restricted access for fishing. They can continue the fishing activities.</li> </ul>		<p>There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.</p> <p>No action required from company.</p>
16	Shri Pradeepbhai Thaker Member of	<ul style="list-style-type: none"> <li>I do agree the points raised by Shri Manhar Gohil and Shri Pushkar Rana. Company is not able to control the</li> </ul>			

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
	Noise Pollution Environment Committee	<p>pollution in the present handling capacity than how permission can be given for increase in capacity, Company should be instructed for the improvement in six month and thereafter public hearing should be organized</p> <ul style="list-style-type: none"> <li>• Company is carrying out the transportation of coal by over loading of the rail rack. There are no established rules and regulations for this.</li> <li>• Dusting problem in Bharuch district is due to transportation of railway rack. If GPCB and MoEF ask than company says that this is the problem of railway. Medical check-up should be conducted in this area to know how many children are malnourished as well as how much impact is occurring to their health.</li> <li>• Previously during the time of flood even after the request from Collector to provide support for "Chuno" no company has given any help so how their CSR activities can be considered.</li> <li>• How much plantation is done? Source of Water and Power is not shown. Nobody had taken care for sprinkling of water during the</li> </ul>	<ul style="list-style-type: none"> <li>• The project proponent replied that issue is pertaining to Railway authority and the importer client.</li> <li>• You may make representation before railway authority.</li> </ul>		No further action required



Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<p>incident of major fire occurred before two years.</p> <ul style="list-style-type: none"> <li>• As per our suggestions, problems of ambient air quality have been reduced in one of the company in Ankleshwar.</li> <li>• We are with the project but being Gujarati businessman you should take care of Gujarat</li> <li>• The path for Narmada Parikrama is one km away from here and many people are coming from different regions. No officers from Dahej Industries Association is present in today's public hearing</li> <li>• File of project for producing pure water from sea water is lying on table of officer of GIDC since last two years for which even grant is approved by Government</li> <li>• Since, the time of IPCL request for the development of Hospital is made but till date it is on the paper</li> <li>• No additional quantity of drinking water is given to village people by GIDC but at the same time industries are provided more water</li> </ul>		Regional Officer of GPCB informed that	

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>There is opposing of administration done by GIDC. The file has been put up to carry out plantation at local level but till date there is no clearance in this regard</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent requested the representative to mention the village to which he belongs.</li> </ul>	Mr. Pradip Thaker is from Ankleshwar area but without clarifying his location in beginning he started representation.	No actions required from company.
17	Shri Dimpalben Varmora Moverix Culture and Codes foundation Village: Luvara, Dahej, Lakhigam	<ul style="list-style-type: none"> <li>We are running sports projects with support of Adani foundation. Using this sports platform we have done many good activities and some of the children have been taken to national level for sports competition. People have also expected same level of support from Adani Group.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent expressed thanks for her appreciation</li> </ul>		Adani foundation is continuing CSR activities in the region. Details are being regularly submitted to MoEF with compliance report and also are part of the presentation given to EAC during the meeting.
18	Shri Rakesh Gohil Village: Lahigam	<ul style="list-style-type: none"> <li>Who has prepared the EIA report and who has certified it</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent replied that EIA report is prepared by M S Cholamandalam, Chennai which is QCI and NABET accredited agency. They have valid certificates. Base line survey, marine quality, government records and permissions as well as environment management plan</li> </ul>		No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 30/09/2018
		<ul style="list-style-type: none"> <li>No physical survey is carried out and during visit permission from Sarpanch should be taken</li> <li>How the mistake like mentioning the name of companies Hindalco and Birla Copper? I am not aware about their visit for physical survey</li> <li>With the issue of passing of Conveyor belt and w.r.t. the issue of land loser the company representative Mr. Trivedi always replies that we are making communication with GIDC but do not provide clarity.</li> </ul>	<p>are studied, reviewed and accordingly report is prepared</p> <ul style="list-style-type: none"> <li>There is adequate information covered in the report and survey is done as per the required procedure.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> <li>The project proponent replied that they have already replied earlier to similar question.</li> </ul>	Collector replied that for the issue of 200 land losers we will meet separately to resolve the issue.	
19	Shri Rekhaben Village: Jageshwar	<ul style="list-style-type: none"> <li>We are thankful to Adani Company for providing us the training on beauty parlour.</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent expressed thanks for appreciation</li> </ul>		No further action required

**Annexure-2: 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.
<b>1.3</b>	<b>Sewage Management Plan</b>	
	Sewage generated from the construction site will be treated in existing STP of 27 m <sup>3</sup> capacity.	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.	
<b>1.4</b>	<b>Solid and Hazardous Waste Management Plan</b>	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	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.
<b>1.5</b>	<b>Construction Phase Storm Water Runoff</b>	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.
<b>B.</b>	<b>ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)</b>	
<b>2.1</b>	<b>Air Quality Management Plan - Coal Handling and Stock Yard Area:</b>	

	Appropriate stack height will be provided to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	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 – 7</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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9.	Study Area Villages	Developing Safe Drinking facilities at Schools in the study area.																														

	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.	
<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>



**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  $O_3$ :  $10 \mu g/m^3$ , 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.: 1.3 - 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  $O_3$ : 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.: 1.4 - 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:  $10 ng/m^3$

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

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
1	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  $O_3$ :  $10 \mu g/m^3$ , 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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**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

**Authorized Signatory**

● PSSAI Approved Lab

● Recognised by MoEF, New Delhi Under  
Sec. 12 of Environmental (Protection) Act-1986● GPCB approved  
schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

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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. 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		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 sp. Nitzschia sp. Melosira sp. Coscinodiscus sp.	Fragilariopsis sp. Synedra sp. Navicula sp.	Navicula sp. Nitzschia sp. Melosira sp. Synedra sp.	Navicula sp. Nitzschia sp. Synedra sp.	Navicula sp. Nitzschia sp. Coscinodiscus sp. Cladophora sp.	Navicula sp. Bacteriostroma sp.	Rhodospira sp. Navicula sp. Coscinodiscus sp. Biddulphia sp. Chaetoceros sp.	Navicula sp. Nitzschia sp. Coscinodiscus sp. Thalassiosira sp.	Melosira sp. Navicula sp. Thalassiosira sp.	Navicula sp. Nitzschia sp. Coscinodiscus sp. Asteropectenella sp. Synedra sp.	Melosira sp. Navicula sp.	Melosira sp. Navicula sp. Synedra sp.

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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	Hydrae Gastropods Bivalves Ostracods Copepods	Cyclops Nauplius Larvae Ostracods Polychaetes	Cyclops Nauplius Larvae Ostracods 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	CFU/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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● FSSAI Approved Lab

● Recognised by MoEF, New Delhi Under  
Sec. 12 of Environmental (Protection) Act-1986

● GPCB approved  
schedule II auditor

● ISO 14001

● OHSAS 18001

● ISO 9001

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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	23/07/2018	21/08/2018	18/09/2018	27/04/2018	29/05/2018	29/06/2018	23/07/2018	21/08/2018
			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*
A. Flora and Fauna														
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. Phytoplankton														
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. Heterocapsa sp. Heterocapsa sp.	Synedra sp. Nitzschia sp. Ragellaria sp. --	Navicula sp. Nitzschia sp. Asterionella sp. Scenedesmus sp.	Navicula sp. Nitzschia sp. --	Navicula Nitzschia Spirulina Mastigella	Nitzschia Melosira Navicula --	Navicula Nitzschia Synedra Spirulina --	Navicula Nitzschia Asterionella Synedra Thalassiosira	Navicula Nitzschia Melosira --	Navicula Nitzschia Asterionella Synedra Thalassiosira	Navicula Nitzschia Asterionella Synedra Thalassiosira	

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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 Chaetognaths Decapods Molluscans	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.

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### 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 Hydrzoa	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.

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**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 Hydroids	Nemertodes Gastropods Copepods	Foraminifera Nemertodes	Nemertodes Foraminiferans	Copepods Foraminiferans	Nemertodes Foraminiferans
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.

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**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.

**Authorized Signatory**



**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.

**Authorized Signatory**





**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.

Authorized Signatory





**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 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 - 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.

**Authorized Signatory**



**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.

**Authorized Signatory**





**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.

**Authorized Signatory**





**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*					
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*					
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

\*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>a</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>a</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>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.

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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.

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

\*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.

Authorized Signatory





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

**Authorized Signatory**





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

\*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.

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
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**

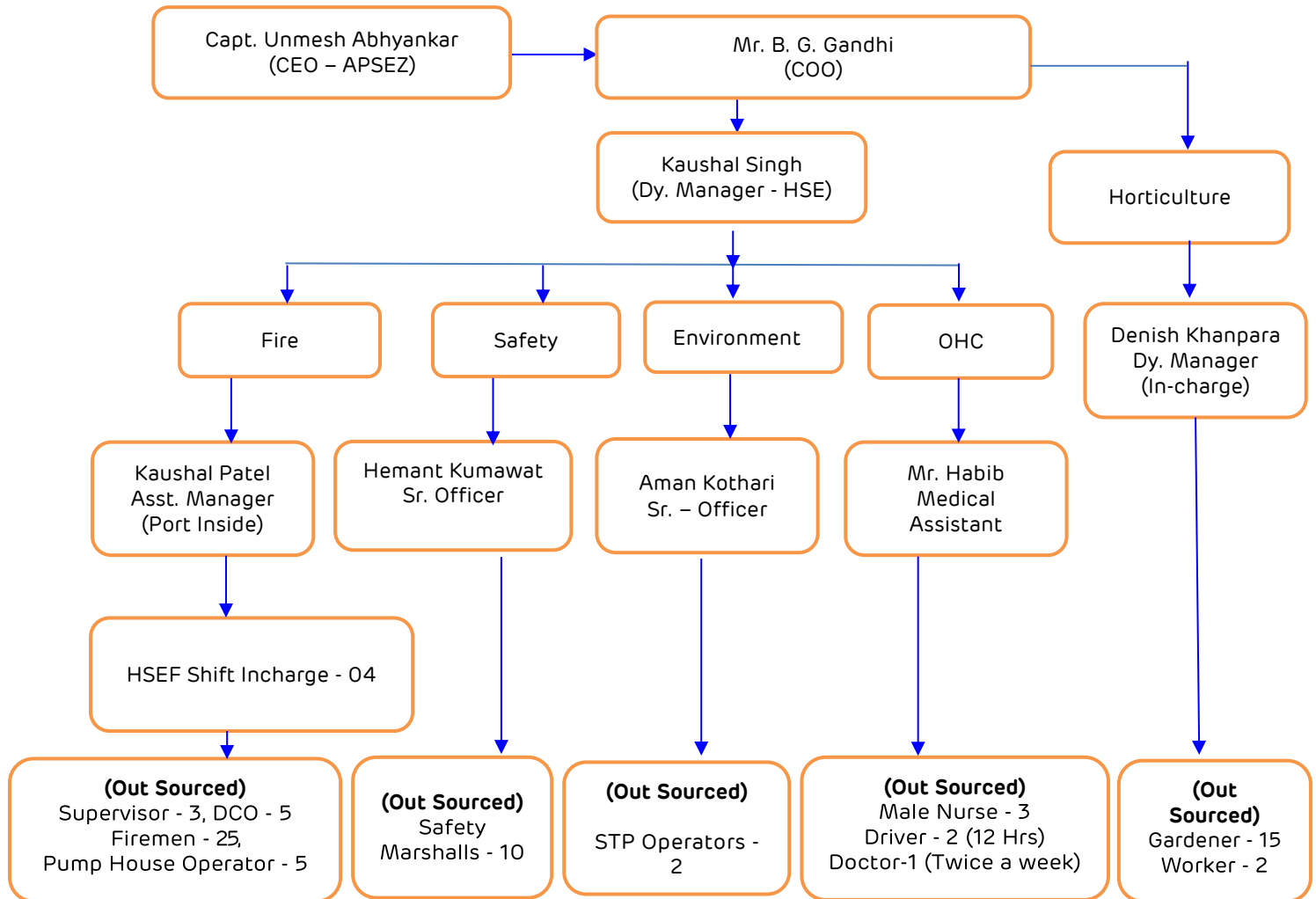
<b>S. NO.</b>	<b>ACTIVITY/ CATEGORY</b>	<b>BUDGET (IN LAC)</b>	<b>EXPENDITURE (IN LAC)</b>
1.	EHS Manpower	5.54	3.27
2.	Legal & Statutory Expenses	1.50	0.34
3.	Environmental Monitoring Services	20.90	9.15
4.	Water Consumption	56.38	19.92
5.	Hazardous Waste Management & Disposal	1.05	0.00
6.	Greenbelt 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**

### **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:**



population for promotion of education of disadvantaged mass.

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



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

#### **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



### **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:**

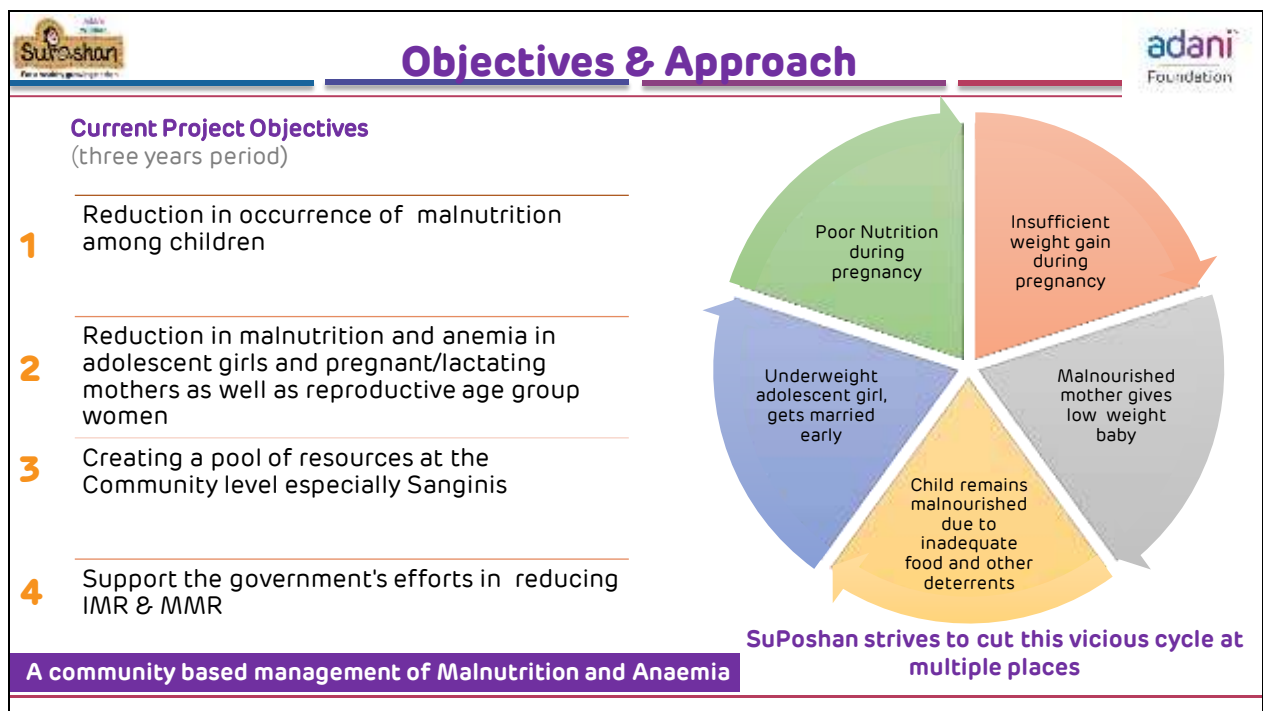
SuPoshan is taking life cycle approach for curbing malnutrition. One of the prime reason for malnutrition is poor health of mother during pregnancy and during lactation period.

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

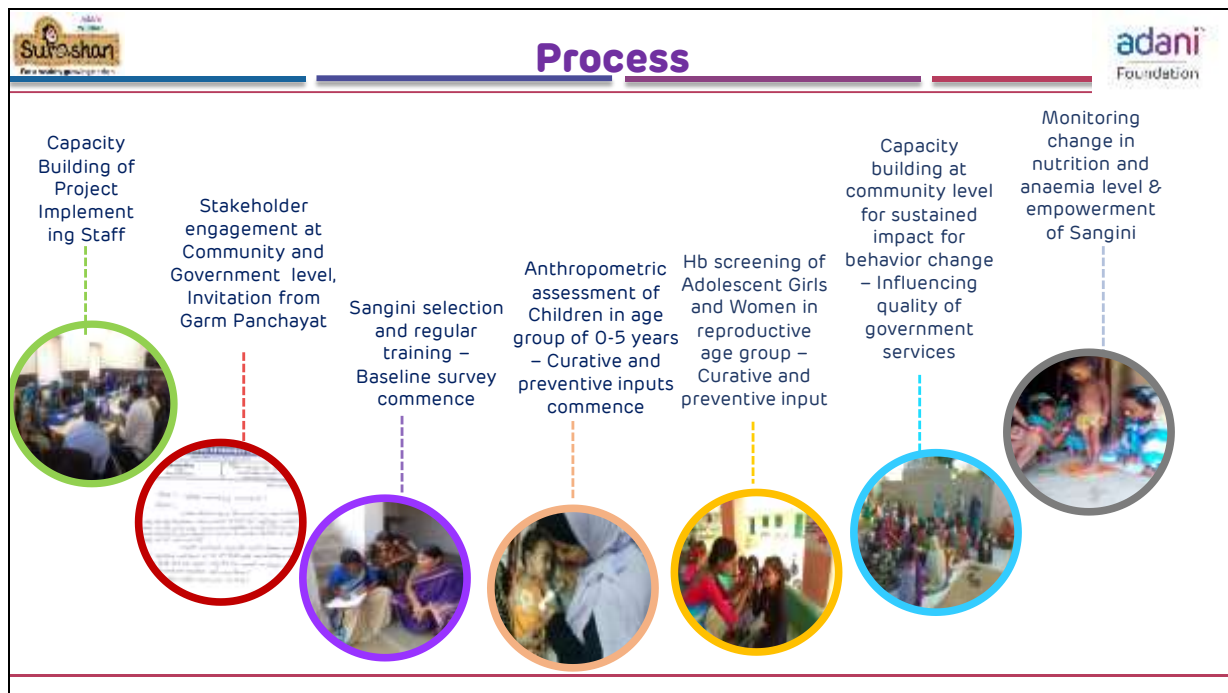
SuPoshan is working with Adolescent girls for making them healthy mothers in future and subsequently their children will be also healthy.

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 buffs 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.