



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

Date: 27/05/2017

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 **October, 2016 to March, 2017.**

**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.

(Capt. A. K. Singh)  
Chief Executive Officer

**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  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

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*Handwritten signature*  
01/06/17  
कार्यालय / Ministry of Environment & Forests (C)  
पर्यावरण एवं वन मंत्रालय (केन्द्रीय)  
कार्यालय (पश्चिम क्षेत्र)  
पश्चिमी क्षेत्र (Western Region)  
बोपाल (म.प्र.) - 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 is enclosed as <b>Annexure – 1</b> .
(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 jetty approach 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 Ministry.	Complied. All the commitments made during the public hearing have been complied with. An action taken report is enclosed as <b>Annexure 2</b> .

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Sr. no.	Conditions	Status/Action taken
(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 Chola mandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 3</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 28.02.2017. Last revision in the DMP was done on 15.12.2016</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 of height at least 2 m above the coal stock, made of steel, 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.</p>
(xi)	The dust from the roads shall be periodically cleaned and dust	<p>Complying with.</p> <p>Regular cleaning of roads is being</p>

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Sr. no.	Conditions	Status/Action taken
	suppression by water spray be carried out.	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.	Shall be complied. Area identification for 50 Ha mangrove afforestation is under progress.
(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 ensure that there is no interfere 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 been met 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 Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	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 wastewater from STP for the period from October 2016 – March 2017 are enclosed as <b>Annexure – 5F</b>.</li> <li>APDPPL regularly submits report to State Pollution Control Board.</li> </ul>



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Sr. no.	Conditions	Status/Action taken
(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 is provided for collection and storage of waste containing oil.
(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 monitor through M/s Pollucon Laboratories, a NABL accredited agency. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2016 to March 2017 are enclosed as <b>Annexure 5D and 5E.</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 monitor through M/s Pollucon Laboratories, a NABL accredited agency. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2016 to March 2017 are enclosed as <b>Annexure 5D and 5E.</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 monitor through M/s Pollucon Laboratories, a NABL accredited agency. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2016 to March 2017 are enclosed as <b>Annexure 5D and 5E.</b>
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo	<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</li> </ul>

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Sr. no.	Conditions	Status/Action taken
	handle.	the period of October 2016 to March 2017. <ul style="list-style-type: none"> <li>Periodic Mock drills are conducted. Recent mock drill was conducted on 28<sup>th</sup> February 2017.</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 3.</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 and Noise is being carried out through NABL accredited agency.</li> <li>Reports of DG sets are enclosed as <b>Annexure 5H.</b></li> </ul>
(xxv)	All the mechanized handling systems and other associated 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.	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>
(xxvi)	No product other than permitted	Complied.

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Sr. no.	Conditions	Status/Action taken
	under the CRZ Notification, 2011 shall be stored in the CRZ area.	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.	The quality of treated effluents, solid wastes, emissions and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited agency. Monitoring Reports for the period of October 2016 to March 2017 is enclosed as <b>Annexure 5</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 Choramandalam in the EIA are being complied.</li> <li>Copy of the status of EMP recommendations is enclosed as <b>Annexure 3</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 welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	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 October 2016–March 2017 is attached as <b>Annexure – 4</b>
(xxxi)	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

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Sr. no.	Conditions	Status/Action taken
		<b>Annexure – 6.</b>
(xxxii)	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 2016-17 was approx. Rs. 172.77 lacs. Details of the environmental budget and expenditure for the FY 2016-17 is enclosed as <b>Annexure – 7</b>
(xxxiii)	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 – 3.</b>
(xxxiv)	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. APDPPL has prepared operating manual for all activities and is certified for ISO 14001: 2015, ISO 9001: 2015 and OHSAS 18001: 2007.
(xxxv)	Corporate Social Responsibility: a. The Company shall have a well laid down Environment Policy approved by the Board of Directors. b. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/	Complied with. <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. APDPPL is certified for ISO 14001: 2015.</li> </ul>



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Sr. no.	Conditions	Status/Action taken
	<p>conditions.</p> <p>c. 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.</p> <p>d. 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.</p>	

**B. General Conditions.**

i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Complied with. Appropriate measures are being taken during project execution. Two Piezometers has been installed at different locations inside port. Regular monitoring of ground water level & quality is being monitored through accredited laboratory. Copies of reports are enclosed as <b>Annexure 5B</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.	Complied. Full support is always extended to the officers of Ministry/Regional Office, MoEF as well as officers of Central and State Pollution Control Board.
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.

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Sr. no.	Conditions	Status/Action taken
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 to the Ministry of Environment, Forest and Climate Change.	Complied. There is no change in the implementation of project 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> </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 is enclosed as <b>Annexure – 8A &amp; 8B.</b>
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.
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,	Noted & Agreed

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Sr. no.	Conditions	Status/Action taken
	the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	
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 be obtained, as applicable by project proponents from the respective competent authorities.	Being 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).</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> July 2008 from DOEF.</li> <li>Clarence from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16<sup>th</sup> June 2008.</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.	Complied. <ul style="list-style-type: none"> <li>Environment clearance letter is publish 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.</li> <li>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. Same is enclosed as <b>Annexure 9</b>.</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.	Complied. The status of environment clearance conditions is available on company website that i.e. <a href="http://www.adaniports.com/ports-">www.adaniports.com/ports-</a>

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Sr. no.	Conditions	Status/Action taken
		<a href="#">downloads</a>
16	Any appeal against this Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of The National Green Tribunal, Act, 2010.	Noted
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.	Complied with. <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 is enclosed as <b>Annexure 8A &amp; 8B</b>.</li> <li>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.	Complied. Compliance reports are also available on company website i.e. <a href="http://www.adaniports.com/ports-downloads">www.adaniports.com/ports-downloads</a>
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.	Complied With. Environment statement regularly being submitted to Gujarat Pollution Control Board. Last report was submitted dated 16 <sup>th</sup> August 2016. 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>



**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 28.02.2017. Last revision in the DMP was done on 15.12.2016.</li> </ul>
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	Shall be complied. All the permission shall be obtained with the project progress. <ul style="list-style-type: none"> <li>Consent to establish has been obtained vide GPCB/BRCH-B/CCA-06(6)/ID 31664/326835 dated 08/09/2015</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.	Complying with. There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.

**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
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.	Complying with. <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 3.</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.	Complying with. <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.</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.	Complying with. <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 labours.	Complying with. No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
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 28.02.2017. Last revision in the DMP was done on 15.12.2016</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
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 shall be submitted to Forest and Environment Department.
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 images and GPS readings with Latitudes and Longitudes.	Shall be complied. Area identification for 50 Hectare mangrove afforestation is under progress.
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	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-

**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
	and Environment Department and the District Collector / District Development Officer.	economic establishment activities and details of the same for the period of October 2016–March 2017 is attached as <b>Annexure – 4</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 2016-17 was approx. Rs. 172.77 lacs. Details of the environmental budget and expenditure for the FY 2016-17 is enclosed as <b>Annexure – 7</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 to the MoEF&CC, GOI.	Complying with. <ul style="list-style-type: none"> <li>The quality of Ambient air, treated effluents, sea water and sediment, grond water and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited agency. Monitoring Reports for the period of October 2016 to March 2017 is enclosed as <b>Annexure 5.</b></li> <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	Complying with. <ul style="list-style-type: none"> <li>APDPPL is regularly submit six monthly compliance reports which comprises Compliance to the</li> </ul>



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

<b>Sr. no.</b>	<b>Conditions</b>	<b>Status/Action taken</b>
	Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc.
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



GPCB

# Annexure 1: Consent to Establish

## GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D

### Consent to Establish (NOC)

(CTE Amendment - 71696)

NO: GPCB/BRCH-B/CCA-06(6)/ID-31664/

/Date /09/2015.

✓ TO,

M/s ADANI PETRONET (DAHEJ) PORT PVT LTD

LAKHIGAM-392130,

TAL-VAGRA,

DIST-BHARUCH.

SUB:- **Consent to Establish (CTE)** under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF:- (1) Your earlier CTE issued vide letter no: **GPCB/BRCH/NOC-2528/80108 dated 31/03/2006.**

(2) Your application Inward ID No.90213, dated.27/03/2015.

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants Consent to Establish (CTE) for expansion of port for cargo handling from 11.7 MMTPA to 23 MMTPA along with reclamation of 23 Ha backup area and widening of existing rock bund area from 15m to 60m width to handle over dimension cargo, Mechanized transfer facility from the second berth of the jetty, Proposed silo of 4000 MT capacity at the existing railway siding at ADANI PETRONET (DAHEJ) PORT PVT LTD, LAKHIGAM-392130, TAL-VAGRA, DIST-BHARUCH.

The Validity period of the order will be Five years from date of issue. (i. e. up to dated 07/07/2020)

### 1. SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS.

- 1.1 The applicant shall comply with the Environment Protection Act -1986, Hazardous Waste (Management, Handling & Transboundary Movement) Rule-2008, Forest (Conservation) Act-1980 and Rule-1981. The petroleum and Minerals Pipeline (Acquisition of Right of User land) Act-1962.
- 1.2 The applicant shall have to obtain CRZ permission from Department of Forests & Environment under The Coastal Regulation Zone Notification 1991.
- 1.3 Necessary Clearance for the adequacy of safety measures shall be obtained from concerned authorities.
- 1.4 The applicant shall obtain necessary permissions for acquisition of land for infrastructure Corridors (Rail & Road) from the concerned authorities.
- 1.5 On site - off site emergency plan & disaster management plan shall be prepared.
- 1.6 Application shall provide all required/adequate measures for controlling water pollution, air pollution and noise pollution resulting during construction phase & operation phase.
- 1.7 The applicant shall have to comply with the Manufacture, Storage and Import of Hazardous Chemicals Rule, 1989 framed under the Environment (Protection) Act-1986.

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# Annexure 1: Consent to Establish



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- 1.8 Adequate provisions infrastructure facilities such as water supply, road, sanitations etc. should ensure so as to avoid environmental degradation in the surrounding areas. These facilities should be brought into existence during the construction phase/ and will remain in existence therefore as per of the infrastructure built up in the area for local development purpose.
- 1.9 The water quality parameters such as DO, Ammonical Nitrogen and other nutrients etc should be measures at regular intervals to ensure adherence to the prescribed standards of water qualities. Suitable ground water monitoring sold also be undertaken and report be submitted to GPCB.
- 1.10 Adequate culverts should be provided in civil structures in the inter tidal area to allow for free flow of water.
- 1.11 All details regarding the mangrove belt and other forestation work must be worked out in consultation with the state forest department and details sent to GPCB.
- 1.12 Ground water extraction will not be allowed at any stage.
- 1.13 Adequate noise control measures should be ensured in various projects activities and due to increase in traffic, which is take place during construction and operation phase.
- 1.14 An organization structure should with latest R & D facilities and suitable equipment for environmental and forestry management activities through creation of environment management cell. Adequate funds should be earmarked for this cell.
- 1.15 To prevent discharge of bilge wastes sewage and other liquid wastes from the oil tankers/ships into marine environment, adequate system for collection treatment and disposal of waste must be provided as per provisions of MARPOL convention.
- 1.16 Solid waste shall be disposed of at approved land fill site.
- 1.17 All measures for control of environmental pollution shall be provided before putting the port terminal & storage facilities into operation and the responsibility for adhering to all norms of environment & pollution control shall rest with the project developer.
- 1.18 All design, contraction & operation philosophy as specified in the comprehensive marine environmental impact assessment will be adhered to.
- 1.19 A specific oil spill response plan shall be prepared before commissioning of the project.

### **2. CONDITIONS UNDER WATER ACT:-**

- 2.1 The generation and disposal of the industrial effluent from the manufacturing process and other ancillary industrial operations shall be NIL.
- 2.2 The quantity of Sewage effluent from the factory shall not exceed 80 KL/Day.
- 2.3 The applicant shall provide adequate sewage treatment facilities in order to achieve the quality of the treated effluent.
- 2.4 Sewage shall be treated separately to conform to the following standards and utilized on land for irrigation / plantation purpose within premises only.

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

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

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

### 3. CONDITIONS UNDER THE AIR ACT:-

- 3.1 The following shall be used as fuel in D.G.sets.

Sr.No.	Fuel	Quantity
1.	Diesel	12500 Lit/Day.

- 3.2 The flue gas emission through stack attached to boiler/furnace/heater shall conform to the following standards.

Stack No.	Stack attached to	Stack height in meter	Parameter	Permissible limit
1.	DG set* 3000 KVA 4 nos. in phases.	11 ( for each DG set)	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm

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

- 3.3 There shall be no process emission from operation of / Jetty having facilities for Storage and Distribution of Cargo handling.
- 3.4 Ambient air quality within the premises of the industry shall conform to the following Standards:

PARAMETER	PERMISSIBLE LIMIT
Suspended Particulate Matter ( size less than 10µm) or PM10 µg/m <sup>3</sup> **	100 microgram per cubic meter
Suspended Particulate Matter ( size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup> **	60 microgram per cubic meter
Oxides Of Sulphur**	80 microgram per cubic meter
Oxides Of Nitrogen**	80 microgram per cubic meter
HCL	200 microgram per cubic meter
Cl <sub>2</sub>	100 microgram per cubic meter
H2S	500 microgram per cubic meter
HC	160 microgram per cubic meter
Ammonia	400 microgram per cubic meter
HF	60 microgram per cubic meter
CS <sub>2</sub>	2000 microgram per cubic meter
CO	5000 microgram per cubic meter

\*\* 24 Hourly or 08 hourly or 01 Hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time; they may exceed the limits but not on two consecutive days of monitoring.

**Note:-** Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

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- 3.5 The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.
- 3.6 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the conditions.
- 3.7 The applicant shall provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same shall be open for inspection to / and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted /displayed to facilitate identification.
- 3.8 All measures for the control of environmental pollution shall be provided before commencing production.
- 3.9 The applicant shall install continuous /online monitoring system on the stacks for the parameters such as SO<sub>2</sub>, NO<sub>2</sub>, PM etc.

#### **4. CONDITIONS UNDER HAZARDOUS WASTE:**

- 4.1 Applicant shall have to comply with provisions of Hazardous Waste (Management, Handling & Transboundary Movement) Rule-2008, for all the types/categories of the generating hazardous waste.

#### **5. GENERAL CONDTIONS:**

- 5.1 Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.
- 5.2. Unit shall keep accurate records of their water consumption and wastewater generation, discharge, quantity of each product manufactured, and consumption of electricity on day-to-day basis and shall be required to submit the compiled record for each month to GPCB on or before seventh day of the succeeding month. Separate logbooks shall be maintained for recording all the necessary data.
- 5.3 Magnetic flow meters shall be installed at the various stages of inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.
- 5.4 SEZ - GIDC shall constitute a monitoring committee for monitoring of the effluent discharged by its members in the pipeline.
- 5.5 In case of power failure, separate stand-by D.G. set having power generation capacity equivalent to the requirement of power to run the APCM system shall be installed, so that it shall always be operated round the clock even in case of power failure also. The unit shall not keep any bypass line or system for stack emission.
- 5.6 Unit shall have only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Convenient easy approach shall be provided at the outlet for ease of sampling. The unit shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even within the effluent treatment plant. The unit shall not keep dual disposal modes.
- 5.7 Unit shall submit, to the GPCB, the site plan of the unit indicating the location of the effluent treatment plants, and also a separate plan indicating the channels / pipelines through which water / effluent passes from different stages of effluent treatment process right up to the stage of its final outlet. Such plan shall also be displayed by the unit on a Board of adequate size within its compound and near its effluent treatment plant.

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**GPCB**

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- 5.8 The company shall have to undertake and implement following measures:
- Water conservations measures to minimize the fresh water consumption. Metering system for water consumption.
  - Cleaner production options.
  - Reuse / recycle of trade waste, ground (rain) water recharging, electricity conservation.
  - Use of solar or wind energy for lighting / heating purpose.
  - Control of odour nuisance from the plant premises.
- 5.9 The company shall have to keep baseline quality data of land, water and air and shall be required to submit to GPCB with CTE / CCA applications.
- 5.10 The company shall carry out regular monitoring of ground water quality (including for all pesticides) within the premises as well as around the impervious guard ponds. Separate logbook shall be maintained. The data shall be submitted for each month to GPCB on or before 7<sup>th</sup> day of succeeding month, and shall also comply with the instructions of GPCB in case of deterioration if applicable.
- 5.11 Handling, manufacturing, storage and transport of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
- 5.12 Transportation of effluent, solid waste or any other goods pertaining to treatment activities, shall be carried out as per central Motor Vehicle Rule-1989 & hazardous waste Management, Handling & Trans Boundary -Rule 2008..
- 5.13 The hazardous wastes shall be handled as per the Hazardous Waste (Management and Handling) Rules of the Environment (Protection) Act, 1986
- 5.14 On site and off site emergency plan as required under the Rules 13 & 14 of handling, manufacturing, storage and import of the Hazardous chemicals Rules, 1989 shall be prepared and approval from the Board shall be obtained.
- 5.15 Periodic medical checkup of the workers shall be done and records maintained as a measure to provide occupational health protection to the workers.
- 5.16 Unit shall provide state of the art composite samplers & set up testing laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel.
- 5.17 The Environmental Management Unit / Cell shall be setup to ensure implementation and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The Environmental Management Unit / Cell shall directly report to the Chief Executive of the organization and shall works as a focal point for internalizing environmental issues. These Cells /Units shall also coordinate the exercise of the environmental audit and preparation of the environmental statements.
- 5.18 The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitted to the GPCB latest by 30th September every year.
- 5.19 Storm water shall not be mixed with the industrial effluent. Disposal system for storm water shall be provided separately.
- 5.20 Good housekeeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Floor washing shall be admitted in to the effluent collection system for subsequent treatment and disposal.
- 5.21 The entire pipeline shall be protected from external corrosion/damage.

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# Annexure 1: Consent to Establish

## GUJARAT POLLUTION CONTROL BOARD



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- 5.22 Necessary clearances for the adequacy & safety measures shall be obtained from the concerned authority.
- 5.23 Unit shall comply with the provisions of all the laws of land including safety, disaster management and prevention of eco contamination.
- 5.24 The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
- 5.25 In case of change of ownership/management the name and address of the new owners/ partners/ directors/ proprietor shall immediately be intimated to the Board.
- 5.26 The applicant also comply with the General conditions as per Annexure - I attached herewith ( No.1 to 38 ) ( whichever applicable).
- 5.27 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.
- 5.28 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 30 meters width is developed.
- 5.29 The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
- 5.30 The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
- Between 6 A.M. and 10 P.M.: 75 dB(A)  
Between 10 P.M. and 6 A.M.: 70 dB(A)
- 5.31 All other conditions of CTE Order issued vide letter no: GPCB/BRCH/NOC-2528/80108 dated 31/03/2006 and subsequent amendments under the Provisions of the various Environmental Act/ Rules shall remain unchanged.
- 5.32 All other conditions of CCA order no. AWH-40224 issued vide letter no. GPCB/BRCH-B-CCA-06(2)/ID-31664/74826/dated 14/03/2011 under the Provisions of the various Environmental Act/ Rules shall remain unchanged till CCA-Amendment is obtained.

For and on behalf of  
Gujarat Pollution Control Board

*D. M. Thaker*  
8/9  
(D M Thaker)

Environmental Engineer

*Clean Gujarat Green Gujarat* 23 of 114

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## Annexure 2: Action taken on PH commitments

### Annexure 2: Status of the action item of public consultation points

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 29/03/2016
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>Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road.</li> <li>Transportation of coal through trucks should be stopped.</li> <li>Precautions should be taken to avoid fire in coal storage area.</li> <li>"Court Commission" should be appointed for evaluation of</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. Same is also enclosed for your ready reference.

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>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.	ShriPushkarsinh 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> <li>He told that Executive Summary is of only 25 pages and that are very</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> <li>Executive Summary is prepared as per the guidelines under EIA</li> </ul>	<p>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> <p>Dist. Collector has informed to Project</p>	<p>No further action required.</p> <p>No further action required.</p> <p>After obtaining</p>



## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>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?</p> <ul style="list-style-type: none"> <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>	<p>Notification. The more pages are due to various annexures.</p> <ul style="list-style-type: none"> <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 Forest and Environment, Government of India</li> </ul>	<p>Proponent to communicate the changes made in the draft EIA while finalizing the EIA to the concern representative.</p>	<p>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. Copy of letter submitted is enclosed. No further action is required.</p> <p>No further action required</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<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> <li>The proposed expansion is for the increase of capacity from 11.7</li> </ul>	<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> <li>The project proponent replied that proposed expansion is for</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>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> <p>No further action</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>MMTP against the current actual handling which is less than 11.7 MMTP. So how pollution will be controlled for this expansion of capacity?</p> <ul style="list-style-type: none"> <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 same is also informed to GIDC and GPCB but complaints have remained on papers only.</li> </ul>	<p>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.</p> <ul style="list-style-type: none"> <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>required.</p> <p>No further action required.</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<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 should also be required to remain present during Public Hearing.</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 issue.</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> <p>No further action required.</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<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>	<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 MT and in 2011-12 It was 12914 MT.</li> </ul>		<p>No further action required.</p> <p>No further action required.</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<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>	<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>
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. Our representations during public hearing of ONGC on the issues of storm water management of village</li> </ul>	<ul style="list-style-type: none"> <li>The project proponent has expressed thanks for appreciation.</li> </ul>		No further action required.



## Annexure 2: Action taken on PH commitments

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 29/03/2016
		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.			
4.	DahyabhaiGhanabhai 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 Dahyabhai 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>			
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</li> </ul>	<ul style="list-style-type: none"> <li>Project proponent replied that with respect to ambient air</li> </ul>		

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>village.</p> <ul style="list-style-type: none"> <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 employment to us on their own.</li> <li>• Company should think about high pollution levels.</li> </ul>	<p>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.</p> <ul style="list-style-type: none"> <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 received from their side.</li> <li>• The project proponent replied that they have already replied earlier to similar question.</li> </ul>		<p>No further action required.</p> <p>At present no action is pendign</p> <p>No further action required.</p>
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</li> </ul>	<ul style="list-style-type: none"> <li>• The project proponent has expressed thanks for appreciation.</li> </ul>		No further action required.

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>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.</p> <ul style="list-style-type: none"> <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 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.</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> </ul>		<p>No further action required.</p> <p>No further action required.</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
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 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.</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>1. District collector office, Bharuch</li> <li>2. District Development office, Bharuch</li> <li>3. District Industries Centre, Bharuch</li> <li>4. Taluka Development office, Tal. VagraDist.Bharuch</li> <li>5. Chief Conservator of Forest, Bhopal</li> <li>6. 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>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<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 regarding visit of GPCB.</li> </ul>	<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>
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</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.

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		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.			
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 actions will be taken from Dist. Collectrate Office.	No action required from company.
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</li> </ul>			No action required from company.



## Annexure 2: Action taken on PH commitments

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 29/03/2016
		two deaths on account of brain haemorrhage. Who will be responsible for ill health of children of villages			
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 activities. What will be the impact on fish due to proposed project.</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>
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</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>		No further action required

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>tries are planted where foot prints of coal dust is being observed while going to temple.</p> <ul style="list-style-type: none"> <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>			No action required from company.
16	Shri Pradeepbhai Thaker Member of Noise Pollution Environment Committee	<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 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</li> <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</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

## Annexure 2: Action taken on PH commitments

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 29/03/2016
		<p>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.</p> <ul style="list-style-type: none"> <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 incident of major fire occurred before two years.</li> <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</li> </ul>			

## Annexure 2: Action taken on PH committments

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 29/03/2016
		<p>regions. No officers from Dahej Industries Association is present in today's public hearing</p> <ul style="list-style-type: none"> <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> <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>	<p>Regional Officer of GPCB informed that Mr. Pradip Thaker is from Ankleshwar area but without clarifying his location in beginning he started representation.</p>	<p>No actions required from company.</p>
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>		<p>Adani foundation is continuing CSR activities in the region. Details are being regularly submitted to</p>

## Annexure 2: Action taken on PH commitments

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 29/03/2016
					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> <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</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 are studied, reviewed and accordingly report is prepared</li> <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</li> </ul>	Collector replied that for the issue of 200	No further action required

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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 29/03/2016
		land loser the company representative Mr. Trivedi always replies that we are making communication with GIDC but do not provide clarity.	similar question.	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 3: Compliance status of EMP

### **Annexure-8: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., March, 2015:**

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 a 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</li> </ul>

## Annexure 3: Compliance status of EMP

		Laboratories, A NABL accredited and MoEF&CC recognized laboratory. <ul style="list-style-type: none"><li>Monitoring reports are presented in the <b>Annexure 5G</b>.</li></ul>
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none"><li>There is no occasion till date for exceeding the noise level at the port boundary.</li><li>Persons working in the fabrication yard are provided with PPEs.</li></ul>
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipments are provided with acoustic enclosures.
1.3	<b>Sewage Management Plan</b>	
	Sewage generated from the construction site will be treated in existing STP of 27 m <sup>3</sup> capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October 2016 – March 2017 are enclosed as <b>Annexure – 5F</b>
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
1.4	<b>Solid and Hazardous Waste Management Plan</b>	
	Solid waste generated will be segregated at source for biodegradable and non-biodegradable with an option of reuse or recycle before disposal	Complying with. <ul style="list-style-type: none"><li>All solid waste is being segregated for biodegradable and non-biodegradable.</li><li>Biodegradable waste is being decomposed in Bioneer and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.</li></ul>
	All hazardous waste generated will be categorized as per Hazardous Waste Management Rules, 2008.	Complying with. Hazardous waste is being managed in compliance to the Hazardous Waste Management Rules 2016.
	Recycle/Reuse waste will be sold to authorized recyclers	Complying with. Recyclable waste such as used oil etc. is being sold to authorize recyclers only.
1.5	<b>Construction Phase Storm Water Runoff</b>	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.

## Annexure 3: Compliance status of EMP

<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.	Shall be complied. Storage area for the additional storage of coal is yet to be developed.
	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>	

## Annexure 3: Compliance status of EMP

	High speed rotating equipments such as gantry cranes motors, hydraulic systems will be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	Shall be complied. Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	Complying with. DG sets installed in open area 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	Shall be complied.
	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 yet to be 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 such as oil spill.

## Annexure 3: Compliance status of EMP

	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 – 9</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>	

## Annexure 3: Compliance status of EMP

	<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>																															
2.7	<b>Village Specific Infrastructure Development Programs:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S. No.</th><th style="width: 20%;">Village</th><th style="width: 75%;">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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### Annexure 3: Compliance status of EMP

	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</b>	<b>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 – 10</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</b>	<b>Cost Estimates for Environmental Management Plan:</b>			
	The estimated total cost of the proposed project is Rs.464.32 Crores. Under the project, about Rs.173.35 Crores is allocated towards pollution control equipment, implementation of environmental pollution control measures and environmental management programs.			Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. <ul style="list-style-type: none"> <li>Key components of environment budget are environmental Monitoring, STP's (O&amp;M), Closed Conveyor System Maintenance and etc. The allocation of revenue budget for Environment Cell for the FY 2016-17 was approx. Rs. 172.77 lacs. Details of the environmental budget and expenditure for the Oct, 16 to Mar, 17 is enclosed as <b>Annexure – 7</b></li> </ul>





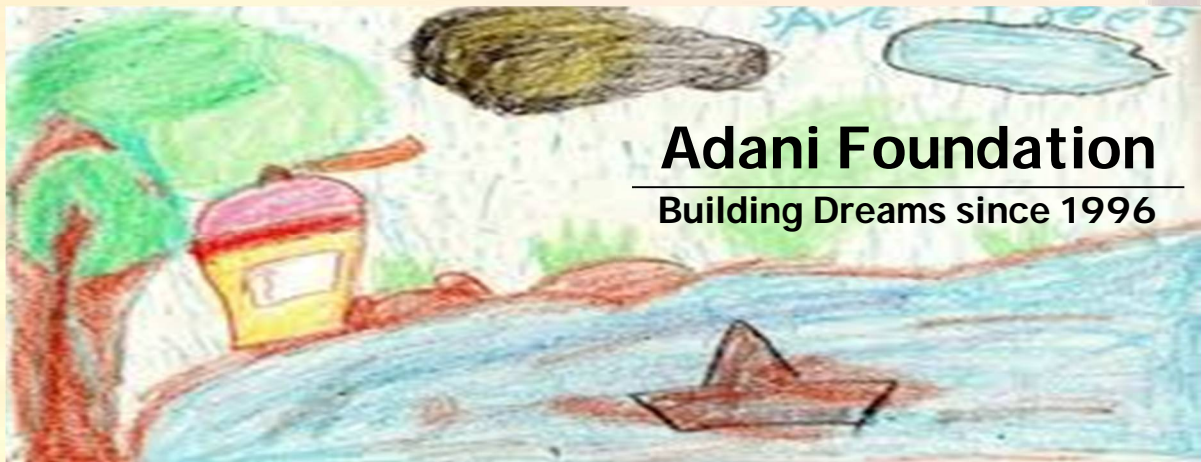
Impossible is nothing.  
impossible is nothing.

# 2017 Corporate Social Responsibility Report

Adani Foundation - Dahej

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.

## 1.0 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. 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 2015-16, 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 Annual Report throws light on Adani Foundation's activities performed and initiatives taken for the year 2016-2017 at Dahej site.

## 2.0 Domains of CSR Framework



The Adani Foundation team - Dahej carried activities during the FY: 2016-17 which can be classified under the head of Education, Community health, Sustainable Livelihood Development and Rural Infrastructure Development.

The details of these initiatives are as follows: -



## 2.01 EDUCATION



Adani Foundation- Dahej core focus in this domain is based on below parameters: -

- ❖ Efforts to improve the quality of education
- ❖ Encourage education of girl child
- ❖ Encourage community participation through meetings and seminars
- ❖ Maximum (100%) enrollment of children in school and their retention

In rural India today, 4% of our children never start school, 58% don't complete primary schools, and 90% don't complete school according to a survey. AF- Dahej deduces lack of education to several challenges rooted in the local economy. Most families in the villages around port are economically backward. This sets up a whole series of challenges which prevent their children from receiving an education.

Children Aren't Accountable to their Education - Parents may spend off-season time searching for miscellaneous jobs, leaving their children home to their own devices. So, some days they may go to school and other days they don't.

Available Education Proves Inadequate - The schools in these villages begins late in the morning and ends early in the day. Besides, major concerns in these schools are fewer committed teachers, lack of learning materials and infrastructure in school.

Children Aren't Motivated to Learn - When students arrive home from school, they do not study, so what they learned that day is not reinforced. Parents don't encourage studying because they are not educated themselves and do not fully understand the value of education, reducing their motivation to instil this valuable opportunity in their children.

Families Lack Resources for a Proper Education - Many families in these rural villages work hard to just put a meal on the table every day. They do not have the resources for school supplies and school fees. They need their children to help with chores around the house after school.

AF- Dahej, after due discussions with school authorities and local leaders from these villages took several initiatives for improving education scene in these villages.

### [a] Pragna Material Support:

Under this initiative, AF engages with the schools positioned in these villages by providing amenities/supplies for betterment of students.

This project directly **benefited 3600** students spread across **eight schools** that received supplies from AF under this project.

AF distributed all the basic stationaries in schools which are serving as an amenity for the students in the classroom during study hours also by providing this amenity it proved to be really helpful to teachers as well, as they have proper resource for each students. Enhancing the school facilities hugely benefitted these students.

### [b] Exposure Visit: Science City and Akshardham.

Adani Foundation Dahej facilities exposure visit tours, for students in these schools to various educational institutions, historical places etc, this year we conducted our exposure with top three male and female students from all the eight schools. We took this student to Science city and Akshardham. This visit not only help them to understand the practical aspects of their studies but also gave them an exposure to a Cultural place. This program serves as an efficient tool to facilitate experiential and practical learning. It has directly **benefitted 92 students** from **eight different schools**.

### [c] Bala Project (Fun based Learning):

AF-Dahej took upon itself to paint murals and educational paintings on the walls of the village schools. This makes for fun and interactive learning environment for the students.

This program has directly **benefitted 4000 students** spread across **thirteen different Aanganwadis** (Nursery Education) and two Schools.

### [d] Praveshotsav (New Academic Year) Programme:

Under this programme, this time we have provided school kit to all the children. This not only helps student to motivate children to come to school but also curtails financial burden on parents to some extent. This project has benefited 290 children from eight school of Dahej Cluster.

### [e] Sports Material Support programme:

Under this program, we have offered sports pertinent supplies to schools for improving sport and physical education in these schools.

This project has directly **supported 3600 students** from **eight different schools** who are now indulging in sports and physical education.

## 2.02 Community Health



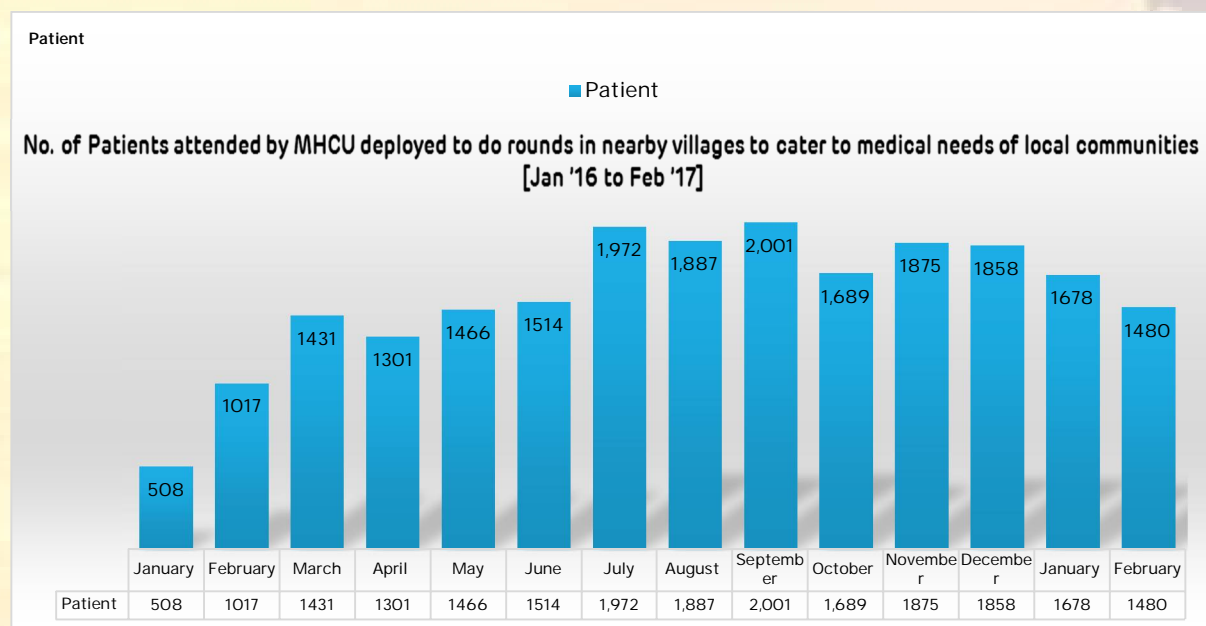
In the villages nearby, the health care delivery is constrained by lack of health care infrastructure, lack of doctors, lack of supply chain and lack of appropriate monitoring of existing health care infrastructure.

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

#### [a] Mobile Health Care Unit (MHCU):

AF- Dahej has deployed MHCU which is scheduled to visit villages in close vicinity of the port, for provision of basic health care & medical services to the patients. This facility has directly been **benefitting 21,677 people** residing in these **12 villages**.



#### [b] Multi- Disciplinary Health care camps: Mega Health Camp

AF-Dahej, also conducted multi-disciplinary standalone special health care camps to meet the immediate health care needs of local communities. The uniqueness of model lies in its comprehensive approach where health promotion and prevention are given equal importance while curative care is administered. These camps have directly benefitted **533 patients**

#### [c] Health and Sanitation Awareness Campaign



AF-Dahej frequently conducts Health and Sanitation awareness campaigns with Adolescent girls and other children, in schools and Aanganwadis with an aim to teach the local communities of the benefits associated with and lead an exemplary life in the village. This has directly **benefitted 4000 students** spread across all **11 schools and 13 Aanganwadis**.

#### [d] Project SuPoshan (Project Nourishment)

Malnutrition and Anaemia are two major concerns for developing local communities residing in vicinity of APDPPL. AF- Dahej took it as an objective to reduce malnutrition amongst children by 95% and anaemia amongst adolescent girls & women by 70% in nearby villages during the next three years. The project has three pronged strategies i.e. promoting awareness, building institutional capacity and knowledge-base in form of Sangini (representatives) and networking with existing government schemes. Post commencing in May 2016, Suposhan has incorporated 8 Sanginis and trained them on the subject. The project is now focusing on treatment of SAM (Severe Acute Malnourished) children to convert them to MAM (Moderately Acute Malnourished) to healthy child.

Project had identified a total of 28 malnourished children in nearby 12 villages/locations. By this project, APDPPL was **successful in converting 12 children from SAM to MAM and 6 children from MAM to perfectly healthy children**. We are currently in the process of treating the remainder 22 malnourished children to render them perfectly healthy.



### 2.03 Sustainable Livelihood and Community Engagement Programme



One major issue that these rural local communities residing near APDPPL face is securing sustainable livelihoods. With increasing population and decreasing land holdings, the dependency on primary livelihoods is at risk. In the absence of adequate employment opportunities, the rural people are unable to generate enough wages to sustain their livelihood. Therefore, it is altogether imperative to find suitable sustainable livelihood models and strategies for achieving inclusive growth.

Strengthening livelihood and increasing income opportunities for local communities, is one of the core responsibility now of AF- Dahej.

We invest in building social capital, promoting collective strength through self-help groups, supporting initiatives towards preservation of traditional art and organizing skill development training for the youth and women artisans thus impacting local communities directly.

#### [a] Skill Development Training - SHG Group

Under skill development initiative Adani Foundation, Dahej used to conduct training programme on beauty parlour, tailoring etc for rural women. Since it was conducted with training model now we proposed to convert this model into sustainable model for various livelihood activities. Based on communities' requirement and women skills, it is proposed to develop SHG group of women for making school bags. This project is designed in the phase manner, in the first phase we are targeting one SHG group consist of 10 women, and this women are going to prepare 400 bags for Praveshotsav which will be purchased by Adani foundation, Dahej from next year onwards. Under sustainability model SHG group will use income generated from the bags as revolving fund for their next.

#### [b] Fisher Man Support Programme:

AF- Dahej also captured the plight of these fishermen devoid of any lighting resources and required to go fishing during the dark hours of the day. In order to offer them a safe and secured passage and movement to their worksite, we distributed solar lanterns which can work for 800 hours after only 8 hours of charging them, amongst these fisher folk communities. Beyond their workplaces, these local communities are also making use of these solar lanterns for their household chores during the night. Moreover, they can also charge their mobiles with the solar panel, which will help them communicate effectively even during their emergencies. In all from all the villages we have identified a total of 198 licenced fisher man who are given benefits of this lantern.

#### [c] Community Engagement Programme:

##### {c.1} Traffic Safety Awareness:

On the occasion of National Traffic Safety Week celebrated each year in APDPPL; AF- Dahej, bearing in the mind the positioning of these nearby villages in highly concentrated industrial zone where the main roads stay infested with heavy motored vehicles, facilitated an awareness session for the youth of these villages to educate them about road traffic safety while commuting on these roads.

On this occasion, we gave traffic safety training to two wheeler bike riders and we also distributed crash helmets amongst these youths to safeguard themselves on the roads when riding their two wheeler vehicles; and Hi-Vis reflective jackets to safeguard themselves when



walking/riding during the dark hours of the day. This initiative directly **benefitted 200 personnel** from the nearby villages.

#### {c.2} Adani Rural Cricket Club:

Adani Foundation is actively involved with the youth group of all the cluster villages, every year we use to organize Cricket tournament with only one or two villages, but time we had organized Adani Cricket Club under which we registered 24 different teams from all the cluster villages. In total we had 288 participants for the Adani Cricket Tournament. And this event proved to be really fruitful as it has engaged almost all the youth group from cluster villages.

#### {c.3} Green Belt Development:

APDPPL has assumed the responsibility to make their surrounding villages greener and keep continuing this environmental friendly action in unison with the local communities.

## 2.04 Rural Infrastructure Development

Major livelihood groups based in villages in the vicinity of APDPPL comprises of Fishermen and daily wage labours, so situations are such that providing some good infrastructures will support them in their daily life. We at AF- Dahej tried to provided best infrastructure to the community since its inception. This year also provided infrastructure support to schools, panchayat, women group, etc. which helped them to minimise their daily problems.

These villages are suffering from water logging during monsoons every year. Rainwater infrastructure in these villages is insufficient to guarantee drainage of water and so the low lying areas always stay inundated. Roads stay blocked; pedestrians have to wade through flooded streets and especially the inhabitants have their homes damaged by water gushing into their homes, which would take several days to recede. These become harrowing times for the residents who are forced out on the roads.

APDPPL took significant steps to build and/or improve the rural infrastructure, thereby alleviating critical issues faced by the local communities, for the purpose of rural development.

#### [a] Construction and Repairs of Houses in these villages:

AF-Dahej took the initiative of building/repairing housing facilities to economic backward communities that would withstand heavy rains and other similar harsh climatic conditions thus enabling them to focus on their routine livelihood. This year we have constructed 11 New Houses and Repaired 68 Houses.in all benefiting This has benefitted **112 residents** residing in these habitats.

#### [b] Paving work at School:

AF-Dahej took this initiative to reduce dusting during dry weather and preventing sludge during monsoons, thus helping to maintain the sanctity and ambience within the school. This project **benefitted 425 students** studying in Dahej Boys Primary School.

### [c] Rising the Height of existing compound walls in School:

We took this initiative to reduce thefts and pilferages from schools and reduced disturbances in learning environment which otherwise were caused during school hours. This project has **benefitted** total of **969 students** studying in Lakhigam & Dahej Primary schools.

### [d] Provision of Solar Street Light:

This initiative involves utilizing renewable source of energy for providing lighting facilities in these villages which otherwise stayed immersed in total dark during the night. This initiative by AF- Dahej in offering basic lighting facilities to the villages has directly **benefited 3376 residents** of **Luvara village**.

### [e] Miscellaneous civil work:

AF- Dahej has built bus stand as an amenity to the passengers commuting; toilet block facilities; Underground water tank equipped with Washing Area (Manual Launderette), thus, **benefitting 9900 inhabitants** of **Lakhigam village**.

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### Annexure – 5 Environment Monitoring Report for the period from Oct,16 to Mar,17

#### 5A. AMBIENT AIR QUALITY MONITORING: -

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

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>
04-10-2016	70.21	36.14	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	34.00	9.50	30.61	25.57
07-10-2016	82.51	41.19	BDL*	BDL*	BDL*	BDL*	1.26	BDL*	23.77	17.50	21.36	27.23
11-10-2016	63.22	31.52	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	45.43	19.58	18.28	16.61
14-10-2016	57.81	29.00	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	36.10	15.42	32.15	19.15
18-10-2016	87.24	43.74	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	16.25	9.17	28.62	26.31
21-10-2016	91.42	45.82	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	39.41	18.33	23.34	28.38
25-10-2016	52.36	26.24	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	27.08	12.50	16.51	20.54
28-10-2016	76.32	38.33	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	21.06	5.42	25.32	30.46
01-11-2016	67.19	33.62	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	41.07	28.42	44.38	21.55
04-11-2016	71.25	35.72	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	35.16	22.44	35.28	25.27
08-11-2016	84.18	42.03	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	24.23	27.01	42.08	31.19
11-11-2016	77.85	39.09	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	28.96	9.97	26.19	19.81
15-11-2016	89.25	44.57	BDL*	BDL*	BDL*	BDL*	1.05	BDL*	36.35	29.08	40.54	16.85
18-11-2016	94.11	51.24	BDL*	BDL*	BDL*	BDL*	1.07	BDL*	31.32	15.37	48.98	24.59
22-11-2016	80.11	42.49	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	43.14	9.56	32.65	28.91
25-11-2016	59.36	29.99	BDL*	BDL*	BDL*	BDL*	0.83	BDL*	44.62	11.22	30.57	24.13
29-11-2016	63.11	35.30	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	33.69	28.42	50.19	18.80
02-12-2016	75.23	34.04	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	43.14	18.95	35.28	20.18
03-12-2016	81.47	40.77	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	41.07	24.10	41.20	23.68
04-12-2016	63.25	27.32	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	28.66	20.36	28.93	26.18
05-12-2016	96.32	48.33	0.50	BDL*	2.20	12.21	1.11	BDL*	55.26	32.41	52.16	32.56
06-12-2016	58.14	24.16	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	25.41	13.30	24.66	30.51
07-12-2016	70.11	34.99	BDL*	BDL*	BDL*	BDL*	1.17	BDL*	33.39	14.96	31.12	17.30
08-12-2016	86.41	43.32	BDL*	BDL*	BDL*	BDL*	1.07	BDL*	45.21	17.45	33.20	24.13
09-12-2016	51.24	25.83	BDL*	BDL*	BDL*	BDL*	1.25	BDL*	26.30	6.23	24.55	21.40
30-12-2016	90.42	45.39	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	45.51	28.42	48.11	16.51
03-01-2017	91.53	48.49	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	33.25	14.56	29.38	22.37
06-01-2017	78.50	34.70	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	20.44	21.53	42.46	19.47
10-01-2017	94.32	56.44	0.61	BDL*	2.32	10.68	0.72	BDL*	47.28	11.77	33.77	24.88
13-01-2017	89.28	45.57	BDL*	BDL*	BDL*	BDL*	0.93	BDL*	56.43	18.48	28.27	28.69
17-01-2017	72.62	32.75	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	62.23	16.44	36.69	26.11
20-01-2017	95.32	49.75	0.64	BDL*	2.42	10.31	0.80	BDL*	30.50	23.49	30.25	20.53
24-01-2017	79.62	44.73	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	49.72	13.35	38.32	23.28
27-01-2017	82.67	37.62	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	54.30	19.61	41.22	27.40
31-01-2017	93.41	54.35	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	45.76	22.66	27.52	30.42
03-02-2017	73.42	35.12	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	41.31	11.44	29.65	19.58
07-02-2017	96.41	49.75	0.56	BDL*	2.20	11.58	0.56	BDL*	25.60	23.29	45.25	20.04
10-02-2017	78.26	40.13	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	36.65	13.13	33.28	21.20

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

14-02-2017	82.16	37.62	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	52.07	20.33	26.36	30.18
17-02-2017	90.25	53.32	0.60	BDL*	2.30	13.25	0.80	BDL*	63.12	15.25	32.18	27.88
21-02-2017	66.11	31.24	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	32.58	21.18	27.13	18.43
24-02-2017	71.24	44.57	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	51.20	11.01	40.20	18.20
28-02-2017	85.21	47.07	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	44.21	14.40	44.48	23.50
02-03-2017	90.52	42.23	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	48.91	28.86	44.30	19.71
06-03-2017	74.15	37.21	BDL*	BDL*	2.50	13.17	1.72	BDL*	32.32	18.99	36.19	23.50
09-03-2017	95.66	52.68	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	52.05	28.69	50.18	31.49
13-03-2017	51.42	26.76	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	27.46	8.02	24.54	17.11
16-03-2017	85.36	45.41	0.60	BDL*	BDL*	BDL*	1.05	BDL*	35.18	22.78	39.86	18.94
20-03-2017	69.22	34.99	BDL*	BDL*	BDL*	BDL*	1.32	BDL*	33.46	14.77	25.42	27.61
23-03-2017	58.21	31.24	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	44.33	6.33	23.43	22.36
27-03-2017	80.41	42.07	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	36.90	19.41	28.98	18.48
30-03-2017	63.41	28.85	BDL*	BDL*	BDL*	BDL*	1.07	BDL*	24.60	9.62	36.86	21.55

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10  
 BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5  
 BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01  
 BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10  
 BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2  
 BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5  
 BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2  
 BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

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

Date of Sampling	Location-2: Near PMC Building											
	PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
04-10-2016	78.52	40.42	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	28.83	14.46	17.47	18.31
07-10-2016	60.41	30.01	BDL*	BDL*	BDL*	BDL*	1.37	BDL*	33.64	8.26	30.44	20.37
11-10-2016	92.11	23.34	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	26.13	10.33	25.50	28.37
14-10-2016	82.44	41.26	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	25.53	13.63	18.57	22.65
18-10-2016	71.42	35.83	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	21.32	15.29	32.42	21.05
21-10-2016	55.64	27.91	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	29.43	12.39	28.68	26.32
25-10-2016	87.36	43.74	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	15.62	7.44	19.23	24.71
28-10-2016	96.41	25.00	BDL*	BDL*	BDL*	10.39	0.72	BDL*	36.34	19.83	31.43	25.86
01-11-2016	72.16	36.26	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	35.40	22.13	31.50	16.47
04-11-2016	82.11	41.26	BDL*	BDL*	BDL*	BDL*	1.72	BDL*	28.32	18.37	26.80	14.64
08-11-2016	96.34	50.84	BDL*	BDL*	BDL*	10.28	0.96	BDL*	34.22	29.22	35.77	21.05
11-11-2016	61.11	30.42	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	31.56	13.36	35.66	23.56
15-11-2016	78.11	39.16	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	41.00	10.44	25.60	19.22
18-11-2016	87.41	43.74	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	25.66	20.04	34.46	22.42
22-11-2016	91.11	45.41	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	37.76	30.48	38.94	15.33
25-11-2016	65.15	32.49	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	29.20	9.60	34.57	26.99
29-11-2016	55.18	27.51	BDL*	BDL*	BDL*	BDL*	1.43	BDL*	32.15	15.03	44.30	20.13
02-12-2016	85.41	42.51	BDL*	BDL*	BDL*	BDL*	1.49	BDL*	38.05	29.22	37.19	17.39
03-12-2016	95.77	50.01	BDL*	BDL*	BDL*	10.17	1.13	BDL*	47.78	34.23	52.07	24.25
04-12-2016	79.67	38.34	BDL*	BDL*	BDL*	BDL*	1.32	BDL*	35.10	26.30	34.13	19.90
05-12-2016	53.16	26.26	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	28.61	15.45	26.14	17.39
06-12-2016	73.51	36.66	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	32.15	22.54	45.83	21.96
07-12-2016	87.66	43.74	BDL*	BDL*	BDL*	BDL*	1.60	BDL*	50.14	25.47	51.41	27.91
08-12-2016	90.12	46.24	BDL*	BDL*	BDL*	BDL*	1.21	BDL*	53.39	31.31	40.69	19.44
09-12-2016	60.24	29.16	BDL*	BDL*	BDL*	BDL*	1.20	BDL*	32.45	14.19	29.42	30.65
30-12-2016	67.14	33.76	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	26.25	16.70	35.11	24.48
03-01-2017	63.72	39.71	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	25.41	9.38	23.08	18.55
06-01-2017	70.41	31.35	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	18.37	13.48	30.42	20.84
10-01-2017	64.31	36.37	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	20.82	5.48	25.84	30.72
13-01-2017	58.60	21.74	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	39.19	7.57	21.56	24.25
17-01-2017	46.30	15.47	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	10.41	11.59	28.44	17.79
20-01-2017	67.62	30.52	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	27.86	19.71	36.25	26.09
24-01-2017	87.32	35.53	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	36.44	16.58	20.76	21.30
27-01-2017	62.37	26.34	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	22.66	12.58	15.50	29.57
31-01-2017	80.31	46.40	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	31.84	18.75	33.68	27.45
03-02-2017	68.41	33.62	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	24.39	9.61	25.21	20.31
07-02-2017	74.11	36.14	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	22.06	14.75	33.76	21.54
10-02-2017	83.26	43.71	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	23.51	23.17	26.42	24.06
14-02-2017	50.23	24.38	BDL*	BDL*	BDL*	BDL*	1.04	BDL*	27.29	7.16	24.11	26.35
17-02-2017	65.23	29.16	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	19.45	12.22	30.47	16.96
21-02-2017	78.16	42.07	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	27.00	16.43	32.23	25.67
24-02-2017	55.24	26.24	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	34.26	19.80	27.29	24.06
28-02-2017	60.38	29.99	BDL*	BDL*	BDL*	BDL*	0.93	BDL*	27.00	10.53	29.59	30.25
02-03-2017	75.29	30.57	BDL*	BDL*	BDL*	BDL*	1.28	BDL*	39.61	20.05	32.41	16.04
06-03-2017	53.41	28.45	BDL*	BDL*	BDL*	BDL*	1.83	BDL*	29.64	13.36	26.99	26.42
09-03-2017	69.36	32.27	BDL*	BDL*	BDL*	BDL*	0.98	BDL*	29.07	21.30	38.72	20.10
13-03-2017	92.41	47.56	BDL*	BDL*	BDL*	BDL*	1.13	BDL*	49.59	24.22	40.27	23.04
16-03-2017	63.47	31.24	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	40.18	17.12	25.22	21.68

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

20-03-2017	87.44	44.57	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	24.22	26.31	37.94	29.36
23-03-2017	79.28	42.49	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	28.50	22.55	42.15	17.62
27-03-2017	59.42	28.74	BDL*	BDL*	BDL*	BDL*	1.02	BDL*	20.23	9.61	26.33	26.42
30-03-2017	82.16	45.16	BDL*	BDL*	BDL*	BDL*	1.39	BDL*	31.18	21.52	45.63	24.19

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01

BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

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

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>
04-10-2016	86.11	43.06	BDL*	BDL*	2.20	10.38	0.74	BDL*	38.89	18.43	39.49	30.62
07-10-2016	77.25	38.46	BDL*	BDL*	BDL*	BDL*	1.02	BDL*	44.31	21.36	35.30	18.79
11-10-2016	97.85	47.66	0.56	BDL*	2.15	10.86	1.26	BDL*	35.27	25.55	32.54	20.41
14-10-2016	90.24	44.31	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	31.35	17.59	36.62	27.37
18-10-2016	62.11	31.24	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	42.20	20.52	41.37	23.43
21-10-2016	72.14	36.24	0.72	BDL*	BDL*	BDL*	1.26	BDL*	52.45	23.46	25.59	18.56
25-10-2016	80.41	40.41	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	22.91	19.27	33.09	28.30
28-10-2016	68.50	34.16	BDL*	2.39	2.39	BDL*	2.06	BDL*	49.14	14.66	42.58	24.13
01-11-2016	86.35	43.06	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	29.02	16.29	34.92	14.19
04-11-2016	91.10	49.75	BDL*	BDL*	2.30	11.10	1.49	BDL*	44.12	25.48	39.64	19.91
08-11-2016	64.21	32.19	BDL*	BDL*	BDL*	BDL*	1.15	BDL*	29.31	15.04	31.29	21.06
11-11-2016	82.36	41.39	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	40.27	22.97	48.97	27.92
15-11-2016	70.21	34.99	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	32.27	20.47	37.88	18.08
18-11-2016	74.52	37.08	BDL*	BDL*	BDL*	BDL*	1.83	BDL*	46.48	31.33	40.19	26.32
22-11-2016	60.24	29.58	BDL*	BDL*	BDL*	BDL*	1.13	BDL*	35.53	18.80	31.18	20.14
25-11-2016	78.88	39.58	BDL*	BDL*	BDL*	BDL*	1.60	BDL*	25.76	21.30	32.17	19.68
29-11-2016	94.52	47.24	BDL*	BDL*	2.00	10.41	0.79	BDL*	39.38	24.64	35.25	22.43
02-12-2016	60.38	30.10	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	30.50	13.37	25.36	37.31
03-12-2016	51.48	25.92	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	38.49	8.35	22.62	17.85
04-12-2016	87.19	43.48	BDL*	BDL*	BDL*	BDL*	1.41	BDL*	48.85	24.23	31.18	25.18
05-12-2016	73.28	36.79	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	36.42	26.31	45.68	22.66
06-12-2016	92.18	46.24	BDL*	BDL*	BDL*	10.26	0.90	BDL*	53.29	29.66	50.07	31.58
07-12-2016	66.15	32.91	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	29.61	10.44	34.15	25.40
08-12-2016	56.99	28.33	BDL*	BDL*	BDL*	BDL*	1.39	BDL*	33.16	12.11	28.66	19.00
09-12-2016	96.39	52.49	BDL*	BDL*	BDL*	BDL*	1.05	BDL*	42.04	32.16	49.74	23.57
30-12-2016	88.11	44.31	BDL*	BDL*	BDL*	10.41	1.23	BDL*	34.35	27.57	43.15	26.55
03-01-2017	69.29	41.68	BDL*	BDL*	BDL*	BDL*	1.04	BDL*	15.88	11.62	19.29	20.25
06-01-2017	58.61	23.49	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	27.48	17.73	26.27	24.14
10-01-2017	91.49	50.46	0.55	BDL*	2.18	10.40	0.68	BDL*	10.08	13.76	21.73	28.24
13-01-2017	64.28	34.38	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	45.19	20.49	32.43	19.70
17-01-2017	52.40	19.71	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	14.35	9.64	18.61	21.70
20-01-2017	83.41	36.52	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	12.52	16.58	23.83	23.68
24-01-2017	72.42	31.76	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	41.53	10.52	15.31	30.17
27-01-2017	89.62	42.63	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	58.32	6.67	22.66	22.30
31-01-2017	74.58	38.67	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	26.87	14.70	37.22	25.81
03-02-2017	84.66	42.51	BDL*	BDL*	BDL*	BDL*	1.15	BDL*	18.84	13.79	17.40	22.73
07-02-2017	60.36	31.26	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	30.14	18.80	30.64	19.32
10-02-2017	68.14	34.17	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	15.65	14.62	24.51	27.50
14-02-2017	79.11	43.34	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	19.71	21.31	33.26	21.36
17-02-2017	87.15	50.41	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	22.60	7.52	17.83	24.09
21-02-2017	90.12	46.24	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	51.29	23.81	27.46	22.73
24-02-2017	65.24	29.58	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	42.31	12.12	16.96	29.77
28-02-2017	76.23	39.58	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	40.28	7.10	31.51	25.91
02-03-2017	48.11	25.79	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	28.53	15.35	34.22	23.52
06-03-2017	87.41	44.93	BDL*	BDL*	BDL*	BDL*	1.40	BDL*	40.05	23.46	44.74	18.68
09-03-2017	58.47	28.29	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	47.25	15.35	32.44	19.37
13-03-2017	70.11	36.61	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	35.15	21.32	39.59	20.76
16-03-2017	92.36	50.41	BDL*	BDL*	BDL*	11.21	0.72	BDL*	49.85	27.72	37.36	17.07



## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

20-03-2017	64.77	32.08	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	38.03	19.62	42.39	18.68
23-03-2017	82.12	39.58	BDL*	BDL*	BDL*	BDL*	1.20	BDL*	33.42	29.00	46.42	21.45
27-03-2017	76.32	40.41	BDL*	BDL*	BDL*	BDL*	1.94	BDL*	26.80	20.47	30.20	20.29
30-03-2017	54.44	26.34	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	26.31	17.72	27.09	15.29

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01

BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10



## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

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

Date of Sampling	Location-4: GCPTL Gate											
	PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
04-10-2016	61.52	30.90	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	24.05	25.48	35.64	22.67
07-10-2016	73.65	35.91	0.59	2.24	2.24	10.20	0.71	BDL*	50.20	19.50	38.50	29.19
11-10-2016	84.23	40.50	BDL*	BDL*	BDL*	BDL*	1.37	BDL*	58.32	29.46	31.13	27.58
14-10-2016	79.36	23.38	0.64	2.46	2.46	10.44	0.71	BDL*	46.60	9.54	40.26	30.34
18-10-2016	67.48	34.16	BDL*	BDL*	BDL*	BDL*	1.26	BDL*	32.47	17.54	37.40	28.45
21-10-2016	95.48	24.16	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	22.25	15.40	44.22	25.36
25-10-2016	57.41	28.74	BDL*	2.18	2.18	10.44	1.12	BDL*	35.47	9.58	36.52	26.75
28-10-2016	91.18	45.41	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	45.39	12.53	26.84	18.97
01-11-2016	58.52	29.23	BDL*	BDL*	BDL*	BDL*	1.40	BDL*	30.41	17.44	42.59	19.34
04-11-2016	64.15	32.15	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	49.01	30.31	47.85	21.61
08-11-2016	70.75	35.49	BDL*	BDL*	BDL*	BDL*	1.37	BDL*	44.58	17.02	28.91	18.88
11-11-2016	88.25	44.26	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	26.87	9.55	29.02	20.25
15-11-2016	93.15	46.66	BDL*	BDL*	2.60	11.28	1.56	BDL*	50.19	24.08	45.55	23.66
18-11-2016	51.12	25.41	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	24.21	7.89	26.39	17.52
22-11-2016	74.18	37.08	BDL*	BDL*	BDL*	BDL*	1.47	BDL*	38.68	19.51	49.49	25.25
25-11-2016	83.22	41.66	BDL*	BDL*	BDL*	BDL*	1.13	BDL*	40.15	28.23	49.60	22.29
29-11-2016	78.96	39.67	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	26.57	31.14	51.24	24.57
02-12-2016	90.36	45.09	BDL*	BDL*	BDL*	BDL*	1.15	BDL*	26.28	29.06	49.16	20.02
03-12-2016	72.15	35.91	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	36.32	22.42	46.32	23.20
04-12-2016	53.15	26.72	BDL*	BDL*	BDL*	BDL*	1.63	BDL*	30.12	17.44	24.09	19.56
05-12-2016	84.24	42.17	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	51.08	23.25	31.42	18.20
06-12-2016	63.28	31.24	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	29.23	10.38	39.09	26.39
07-12-2016	80.67	39.99	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	41.04	22.00	47.52	16.38
08-12-2016	68.19	34.16	BDL*	BDL*	BDL*	BDL*	1.65	BDL*	28.94	7.47	41.17	21.16
09-12-2016	76.22	38.33	BDL*	BDL*	BDL*	BDL*	1.24	BDL*	35.14	24.49	39.64	26.39
30-12-2016	97.15	48.44	0.54	BDL*	2.50	13.48	1.42	BDL*	49.31	31.97	53.65	31.16
03-01-2017	56.77	30.73	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	40.43	5.46	15.57	17.70
06-01-2017	83.42	38.36	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	11.33	7.57	21.34	26.40
10-01-2017	76.80	41.53	BDL*	BDL*	BDL*	BDL*	1.08	BDL*	17.46	9.42	30.43	22.73
13-01-2017	52.38	29.48	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	28.18	6.75	19.55	29.54
17-01-2017	69.53	24.50	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	36.45	13.44	22.38	24.40
20-01-2017	58.71	26.58	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	42.88	10.66	17.60	21.79
24-01-2017	60.29	27.52	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	24.20	15.59	25.65	19.70
27-01-2017	71.09	33.64	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	38.29	8.41	32.76	27.68
31-01-2017	68.72	37.37	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	21.13	11.39	29.71	23.30
03-02-2017	49.63	27.05	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	36.52	9.62	29.33	18.06
07-02-2017	81.26	42.27	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	26.09	10.13	24.08	25.71
10-02-2017	55.16	25.79	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	19.71	8.86	36.44	26.40
14-02-2017	70.22	35.09	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	32.46	14.35	20.14	29.15
17-02-2017	76.24	33.33	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	37.97	12.24	27.80	29.61
21-02-2017	60.28	29.58	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	43.19	8.44	18.93	17.22
24-02-2017	73.66	37.08	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	28.98	16.04	28.45	24.10
28-02-2017	69.36	32.49	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	35.07	9.71	32.72	28.92
02-03-2017	83.12	45.65	BDL*	BDL*	BDL*	BDL*	1.41	BDL*	26.98	25.33	48.98	17.18
06-03-2017	78.63	38.11	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	38.00	21.33	38.51	15.45
09-03-2017	62.41	35.18	BDL*	BDL*	BDL*	BDL*	1.15	BDL*	35.10	11.09	42.23	20.30
13-03-2017	88.14	43.98	BDL*	BDL*	BDL*	BDL*	0.93	BDL*	41.19	29.86	33.44	24.22
16-03-2017	55.41	29.99	BDL*	BDL*	BDL*	BDL*	1.56	BDL*	29.88	15.46	30.06	21.59

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

20-03-2017	91.24	48.74	BDL*	BDL*	BDL*	10.09	0.71	BDL*	50.18	30.38	46.39	15.04
23-03-2017	67.52	35.41	BDL*	BDL*	BDL*	BDL*	1.52	BDL*	25.24	16.69	34.12	20.83
27-03-2017	94.23	50.41	BDL*	BDL*	2.60	12.58	1.29	BDL*	37.42	32.20	48.42	24.15
30-03-2017	71.24	38.05	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	30.60	23.21	44.30	16.88

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01

BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

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

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>
04-10-2016	94.11	47.01	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	20.51	19.29	23.72	19.78
07-10-2016	67.18	31.06	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	18.39	14.81	37.63	23.67
11-10-2016	72.33	36.09	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	24.43	7.62	29.46	25.07
14-10-2016	60.21	30.22	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	17.49	10.58	20.52	18.28
18-10-2016	49.33	24.58	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	11.46	13.54	25.71	22.50
21-10-2016	84.22	42.07	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	31.36	9.73	38.62	30.23
25-10-2016	76.24	39.58	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	30.76	12.27	33.43	19.45
28-10-2016	54.11	27.08	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	23.22	6.77	18.54	24.37
01-11-2016	90.14	44.91	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	36.43	28.77	45.80	22.70
04-11-2016	55.45	27.70	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	41.17	15.14	32.18	19.59
08-11-2016	78.24	39.03	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	29.62	20.19	32.84	24.20
11-11-2016	91.20	45.75	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	32.58	15.98	32.95	15.21
15-11-2016	66.17	32.91	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	21.32	10.51	27.90	19.13
18-11-2016	81.41	40.83	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	44.13	25.23	39.10	26.27
22-11-2016	85.66	42.91	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	26.36	20.61	32.29	17.74
25-11-2016	72.18	36.24	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	31.39	18.51	37.12	21.43
29-11-2016	88.19	44.16	BDL*	BDL*	BDL*	BDL*	1.26	BDL*	19.55	26.92	48.55	16.59
02-12-2016	52.16	26.02	BDL*	BDL*	BDL*	BDL*	1.26	BDL*	32.28	19.18	34.93	22.23
03-12-2016	63.41	31.06	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	29.62	17.24	38.22	28.81
04-12-2016	68.17	44.49	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	48.28	26.50	40.09	26.27
05-12-2016	59.18	28.12	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	26.06	10.09	28.23	24.20
06-12-2016	82.15	43.32	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	44.13	18.93	29.76	17.51
07-12-2016	77.85	38.74	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	38.21	21.03	40.31	22.81
08-12-2016	95.21	50.41	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	51.53	28.60	49.42	30.65
09-12-2016	89.41	48.32	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	29.02	11.36	28.23	25.58
30-12-2016	72.63	36.24	BDL*	BDL*	BDL*	BDL*	1.51	BDL*	24.29	9.25	38.99	20.05
03-01-2017	75.50	45.75	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	18.61	16.50	31.58	19.99
06-01-2017	64.31	29.38	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	14.34	10.66	36.35	23.48
10-01-2017	57.58	26.44	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	26.85	15.58	28.69	25.69
13-01-2017	71.61	41.55	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	21.66	9.32	25.20	17.71
17-01-2017	59.58	21.40	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	42.71	5.31	15.79	28.62
20-01-2017	78.28	39.45	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	23.49	12.69	21.23	24.55
24-01-2017	69.40	23.50	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	11.90	8.37	19.25	29.31
27-01-2017	56.40	19.73	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	44.55	17.44	26.25	18.81
31-01-2017	61.62	30.64	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	15.26	7.59	23.55	21.11
03-02-2017	78.96	39.45	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	20.08	19.51	32.63	18.71
07-02-2017	64.19	33.99	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	18.91	12.41	28.45	26.76
10-02-2017	71.22	31.06	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	27.93	17.11	29.77	20.71
14-02-2017	59.41	29.38	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	22.40	10.27	27.03	19.55
17-02-2017	48.96	24.58	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	44.23	6.42	19.66	31.19
21-02-2017	53.26	26.24	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	28.22	9.41	23.51	23.74
24-02-2017	85.26	41.24	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	13.38	17.97	27.90	30.49
28-02-2017	90.23	52.49	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	47.14	15.40	29.00	20.25
02-03-2017	61.87	34.06	BDL*	BDL*	BDL*	BDL*	1.04	BDL*	32.39	9.86	29.41	21.83
06-03-2017	91.41	46.40	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	44.83	26.37	41.20	19.40
09-03-2017	83.21	41.29	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	30.37	25.07	49.62	23.84
13-03-2017	77.41	34.91	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	38.18	15.13	30.65	16.36
16-03-2017	45.27	25.41	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	29.50	8.65	27.84	18.23

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

20-03-2017	71.45	34.16	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	37.31	17.72	31.43	16.36
23-03-2017	50.11	28.74	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	22.27	10.37	25.37	15.66
27-03-2017	68.88	32.08	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	32.10	17.72	33.23	19.64
30-03-2017	86.33	44.99	BDL*	BDL*	BDL*	BDL*	1.17	BDL*	27.46	29.96	50.29	20.31

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01

BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

**Table No.: 1.6 - Ambient Air Quality Monitoring Results At S&S Entry Gate**

Date of Sampling	Location-6: S&S Entry Gate											
	PM <sub>10</sub>	PM <sub>2.5</sub>	Pb	BaP	As	Ni	CO	C <sub>6</sub> H <sub>6</sub>	NH <sub>3</sub>	SO <sub>2</sub>	NO <sub>x</sub>	O <sub>3</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	ng/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
04-10-2016	53.09	26.63	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	31.54	9.52	24.07	27.52
07-10-2016	49.41	24.52	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	29.74	12.52	19.79	26.81
11-10-2016	89.24	44.81	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	40.55	14.61	34.62	22.42
14-10-2016	71.11	35.51	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	21.63	19.62	26.60	25.20
18-10-2016	59.17	29.58	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	26.13	11.69	18.58	17.57
21-10-2016	78.41	30.41	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	16.82	5.43	32.32	19.65
25-10-2016	65.27	32.49	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	28.54	15.44	23.52	21.73
28-10-2016	83.62	41.66	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	18.32	13.36	35.72	18.49
01-11-2016	79.63	39.73	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	29.50	9.55	32.49	20.38
04-11-2016	87.18	43.54	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	31.27	20.11	34.13	26.63
08-11-2016	68.11	34.24	BDL*	BDL*	BDL*	BDL*	1.11	BDL*	42.48	24.72	44.20	21.12
11-11-2016	57.41	28.74	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	32.45	26.39	43.22	20.20
15-11-2016	82.15	41.24	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	48.38	6.70	35.12	28.92
18-11-2016	64.47	32.08	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	34.22	12.57	41.14	26.17
22-11-2016	78.19	39.16	BDL*	BDL*	BDL*	BDL*	0.75	BDL*	45.14	25.56	40.15	25.94
25-11-2016	90.11	44.99	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	24.78	23.04	42.67	20.20
29-11-2016	69.41	34.58	BDL*	BDL*	BDL*	BDL*	0.99	BDL*	28.62	13.36	36.98	24.02
02-12-2016	79.47	36.35	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	23.31	19.10	30.09	17.60
03-12-2016	90.24	42.27	BDL*	BDL*	BDL*	BDL*	1.37	BDL*	45.14	28.49	47.59	30.07
04-12-2016	81.11	40.58	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	40.12	31.00	45.29	21.12
05-12-2016	66.18	32.97	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	30.39	15.08	27.13	23.64
06-12-2016	56.27	28.33	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	32.16	8.80	36.10	25.25
07-12-2016	94.51	47.07	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	46.32	28.49	44.86	30.07
08-12-2016	51.10	25.41	BDL*	BDL*	BDL*	BDL*	1.02	BDL*	24.19	7.12	31.29	21.12
09-12-2016	71.12	36.66	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	38.35	20.53	44.09	19.74
30-12-2016	61.48	40.41	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	22.42	24.22	49.89	24.02
03-01-2017	82.58	52.42	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	21.36	8.37	36.75	24.55
06-01-2017	91.38	56.64	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	36.92	15.55	33.45	28.99
10-01-2017	87.22	47.77	BDL*	BDL*	BDL*	BDL*	0.98	BDL*	52.17	20.60	38.44	26.80
13-01-2017	78.33	37.62	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	64.09	23.70	42.62	30.55
17-01-2017	63.68	26.63	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	30.92	18.36	31.24	20.65
20-01-2017	88.59	44.38	0.56	BDL*	2.18	10.59	0.52	BDL*	48.21	21.74	45.33	29.75
24-01-2017	94.18	36.35	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	28.07	17.68	27.62	22.52
27-01-2017	79.28	29.59	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	62.55	10.47	35.65	27.41
31-01-2017	86.32	49.46	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	39.97	25.71	30.59	25.19
03-02-2017	90.26	50.11	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	51.34	10.14	30.45	24.35
07-02-2017	85.16	45.09	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	37.42	18.04	37.24	25.11
10-02-2017	93.62	53.86	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	49.60	20.98	49.39	18.72
14-02-2017	78.33	40.08	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	68.17	24.34	34.17	27.16
17-02-2017	69.35	30.83	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	31.33	14.78	29.68	23.66
21-02-2017	94.66	54.16	0.62	2.50	2.50	10.20	0.65	BDL*	49.89	26.94	43.15	28.39
24-02-2017	80.26	48.32	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	31.04	6.31	32.20	18.78
28-02-2017	72.66	37.08	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	36.84	8.45	35.27	31.48
02-03-2017	57.41	30.53	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	29.66	9.72	24.15	18.86
06-03-2017	63.25	34.30	BDL*	BDL*	BDL*	BDL*	1.26	BDL*	27.07	17.48	34.21	24.43
09-03-2017	90.63	45.17	BDL*	BDL*	BDL*	BDL*	1.37	BDL*	43.20	32.82	53.21	28.35
13-03-2017	81.56	41.41	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	31.10	28.13	38.79	28.58
16-03-2017	78.36	38.74	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	44.35	12.36	36.56	26.51

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20-03-2017	49.11	25.83	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	27.36	7.67	29.62	24.20
23-03-2017	86.41	39.99	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	42.91	26.43	32.08	21.44
27-03-2017	72.44	37.49	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	40.32	20.46	41.14	16.37
30-03-2017	93.32	51.24	BDL*	BDL*	BDL*	BDL*	0.99	BDL*	42.33	31.22	55.40	22.36

**Note: -**

BDL\*: Below Detection Limit: Ozone as O<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Lead as Pb (µg/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Carbon Monoxide as CO (mg/m<sup>3</sup>): 0.01

BDL\*: Below Detection Limit - Ammonia NH<sub>3</sub> (µg/m<sup>3</sup>): 10

BDL\*: Below Detection Limit - Benzene as C<sub>6</sub>H<sub>6</sub> (µg/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m<sup>3</sup>): 0.5

BDL\*: Below Detection Limit - Arsenic as As (ng/m<sup>3</sup>): 2

BDL\*: Below Detection Limit - Nickel as Ni (ng/m<sup>3</sup>): 10

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -

Table - Ground Water Level & Quality Analysis (Piezometers) Results for the period: October, 2016 to March, 2017:-

S. No.	Parameter	Unit	Near Sub Station-7B	Near QHSE Office	Near Sub Station-7B	Near QHSE Office	Near Sub Station-7B	Near QHSE Office	Near Sub Station-7B	Near QHSE Office	Near Sub Station-7B	Near QHSE Office	Near Sub Station-7B	Near QHSE Office
			Oct-16	Oct-16	Nov-16	Nov-16	Dec-16	Dec-16	Jan-17	Jan-17	Feb-17	Feb-17	Mar-17	Mar-17
1	Temperature	°C	29	30	31	30	28	28	28	29	29	30	29	30
2	pH	--	7.27	7.61	8.57	8.55	8.68	8.70	7.88	7.96	8.28	8.49	8.30	8.56
3	Total Dissolved Solids	mg/L	1214.0	1154.0	1240.0	1210.0	1482.0	1394.0	1190.0	1058.0	1354.0	997.0	1438.0	1039.0
4	Salinity	ppt	0.26	0.51	0.33	0.32	0.46	0.42	0.43	0.37	0.32	0.38	0.37	0.43
5	Chloride as Cl	mg/L	141.0	278.0	184.0	174.0	253.0	231.0	237.0	207.0	174.0	209.0	204.0	240.0
6	Depth of Water Level from Ground Level	meter	2.80	2.20	3.00	2.40	3.00	3.00	3.00	2.50	2.50	2.00	3.00	2.50
7	Status of Tide**	--	High Tide	High Tide	Low Tide	Low Tide	Low Tide	Low Tide	High Tide	High Tide	Low Tide	Low Tide	High Tide	High Tide

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5C. SEA WATER (SURFACE & BOTTOM) QUALITY ANALYSIS MONITORING: -

**Table - Sea Water (Surface & Bottom) Quality Analysis Results for the period: October, 2016 to March, 2017:-**

S. No.	Parameters	Unit	Sea Water South Side		Sea Water North Side		Sea Water South Side		Sea Water North Side		Sea Water South Side		Sea Water North Side		Sea Water South Side		Sea Water North Side		Sea Water South Side		Sea Water North Side		Sea Water South Side		Sea Water North Side	
			18-10-2016		18-10-2016		11-11-2016		11-11-2016		06-12-2016		06-12-2016		13-01-2017		13-01-2017		14-02-2017		14-02-2017		24-03-2017		24-03-2017	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.23	8.38	8.13	8.2	8.4	8.48	8.21	8.45	7.81	8.01	8.12	8.18	8.17	8.23	8.12	8.23	8.26	8.36	8.14	8.6	7.53	7.94	7.63	7.84
2	Temperature	°C	30	29	30	29	28	27	28	27	29	28	29	28	29	28	30	29	28	30	32	30	30	29	31	30
3	Total Suspended Solids	mg/L	380	470	226	284	410	480	312	348	270	350	2.28	2.9	308	400	290	340	378	472	228	286	260	350	252	328
4	BOD (3 Days @ 27 °C)	mg/L	6	3	7	4	5	3	8	5	6	4	8	6	8	4	6	3	8	4	8	6	9	5	8	5
5	Dissolved Oxygen	mg/L	5.74	4.66	5.4	4.6	5.5	4.8	5.6	4.2	5.3	4.7	5.2	4.8	5.3	4.6	5.6	4.8	5.78	4.68	5.6	4.8	5.4	5	4.8	4.4
6	Salinity	ppt	38.4	39.2	37.46	38.52	37.4	38.8	38.1	39.3	36.8	37.8	38.06	39.24	39.9	40.8	36.6	37.8	38.8	39.4	37.48	38.54	38.2	39.4	36.68	38.94
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO <sub>3</sub>	mg/L	0.51	0.696	0.433	0.6	0.382	0.459	0.275	0.336	0.426	0.6	0.505	0.584	0.271	0.317	0.558	0.74	0.53	0.7	0.43	0.79	0.047	0.053	0.048	0.06
9	Nitrite as NO <sub>2</sub>	mg/L	0.027	0.044	0.027	0.013	0.021	0.032	0.016	0.021	0.024	0.013	0.023	0.011	0.03	0.018	0.036	0.023	0.02	0.04	0.02	0.01	BDL*	BDL*	BDL*	BDL*
10	Ammonical Nitrogen as NH <sub>3</sub>	mg/L	0.299	0.616	0.56	0.72	0.317	0.392	0.298	0.355	0.581	0.487	0.097	0.712	0.499	0.633	0.422	0.479	0.29	0.62	0.58	0.73	1.76	2.02	4.62	3.1
11	Phosphates as PO <sub>4</sub>	mg/L	0.593	0.643	0.094	0.116	0.479	0.556	0.108	0.117	0.404	0.497	1.071	0.102	0.06	0.065	0.303	0.331	0.59	0.64	0.09	0.11	0.83	0.9	0.44	0.29
12	Total Nitrogen	mg/L	0.836	1.356	1.02	1.342	0.72	0.883	0.589	0.712	1.031	1.1	1.071	1.307	0.8	0.963	1.016	1.242	0.85	1.37	1.04	1.53	1.8	2.07	4.66	3.16
13	Petroleum Hydrocarbon	µg/L	10.6	BDL*	10.4	BDL*	12.4	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	11.8	BDL*	10.8	BDL*	10.8	BDL*	10.6	BDL*	11.2	BDL*	11.6	BDL*
14	Total Dissolved Solids	mg/L	44480	45020	43710	44510	43800	45610	48400	49600	37840	39180	42580	43450	46370	47110	36910	38420	44460	45040	43720	44520	41330	41880	44420	44920
15	COD	mg/L	20	14	20	13	20	13	21	13	22	18	22	14	24	14	22	12	24	18	22	16	20	24	24	18
16	Oxidisable Particular Organic Carbon	%	0.48	0.18	0.51	0.17	0.26	0.12	0.44	0.26	0.55	0.24	0.49	0.18	0.23	0.13	0.44	0.21	0.46	0.16	0.52	0.16	0.78	0.5	1.06	0.9
A	Flora and Fauna																									
17.1	Primary Productivity	mgC/L /day	1.71	0.675	1.8	0.56	1.82	0.9	1.71	0.563	1.08	0.09	1.23	0.225	1.08	0.09	1.238	0.225	1.57	0.54	1.46	0.67	1.19	0.63	1.463	0.45
B	Phytoplankton																									
18.1	Chlorophyll	mg/m <sup>3</sup>	1.49	0.561	2.27	0.401	1.89	0.668	1.73	0.561	1.2	0.454	1.3	0.748	1.2	0.454	1.3	0.748	1.28	0.18	1.22	0.29	1.282	0.587	1.202	0.641
18.2	Phaeophytin	mg/m <sup>3</sup>	0.45	1.27	BDL*	1.54	0.05	1.16	0.19	1.38	0.74	1.38	0.62	1.2	0.74	1.38	0.62	1.2	0.66	1.64	0.7	1.65	0.66	1.24	0.72	1.3
18.3	Cell Count	Unit x 10 <sup>3</sup> /L	190	80	170	30	176	42	169	35	162	11	174	8	162	11	174	8	125	8	132	6	158	12	184	10



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## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

**Table - Sea Sediment Quality Analysis Results for the period: October, 2016 to March, 2017:-**

S. No.	PARAMETERS	UNIT	Sea Water South Side	Sea Water North Side	Sea Water South Side	Sea Water North Side	Sea Water South Side	Sea Water North Side	Sea Water South Side	Sea Water North Side	Sea Water South Side	Sea Water North Side	Sea Water South Side	Sea Water North Side
			18-10-16	18-10-16	11-11-16	11-11-16	06-12-16	06-12-16	13-01-17	13-01-17	14-02-17	14-02-17	24-03-17	24-03-17
1	Organic Matter	%	0.645	0.761	0.563	0.518	0.625	0.553	0.627	0.818	0.618	0.74	0.555	0.532
2	Phosphorus as P	mg/kg	172	192	184	178	195	159	204	175	178	194	186	166
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	<b>Heavy Metals</b>													
5.1	Aluminum as Al	%	5.31	5.54	5.09	5.11	5.16	5.22	5.28	5.58	5.31	5.55	5.46	5.22
5.2	Total Chromium as Cr <sup>+3</sup>	mg/kg	105	109	97.99	117	117	121	107	88.91	106	107	94.8	104
5.3	Manganese as Mn	mg/kg	757	627	639	709	671	665	593	659	757	627	610	618
5.4	Iron as Fe	%	2	2.41	2.39	2.62	2.15	2.32	2.25	1.91	3.99	2.41	2.5	2.34
5.5	Nickel as Ni	mg/kg	44.67	48.54	32.78	56.37	52.53	44.37	50.11	48.3	44.66	48.51	70.8	62
5.6	Copper as Cu	mg/kg	50.72	42.93	56.16	31.39	54.85	48.53	41.7	39.01	50.73	42.94	51.2	48
5.7	Zinc as Zn	mg/kg	197	153	217	207	205	182	1.71	155	197	153	202	204
5.8	Lead as Pb	mg/kg	1.75	1.91	1.78	1.52	1.59	1.53	1.65	1.82	1.75	1.9	1.4	1.47
5.9	Mercury as Hg	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	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)	-	Echinoderms Decapods Anthozoans	Polychaete worms Mysids Krill	Bivalves Isopods Echinoderms		Polychaetes Mysids --	Polychaete worms Decapods Anthozoans	Bivalves Mysids Echinoderms	Polychaete worms Bivalves krill	Decapods Isopods	Decapods Ostracods	Polychaete worms Bivalves	Echinoderms Corals Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Foraminiferans	Nematodes Gastrotrophic	Nematodes Hydrozoa		Nematodes Foraminiferans	Hydrozoans Copepods	Copepods Hydrozoa	Nematodes Foraminiferans	Nematodes Foraminiferans	Foraminiferans Nematodes	Nematodes Foraminiferans Gastropods	Nematodes Gastropods Copepods
6.3	Population	no/m <sup>2</sup>	385	433	317		385	443	385	443	317	357	337	481

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -

Table - Dump Pond Water Quality Analysis Results for the period: Oct., 2016 to Mar., 2017:-

Location: - Dump Pond - Near R. Gandhi Statue			
S. No	Test Parameters	Unit	Results
1.	pH	--	7.1
2.	Total Suspended Solids	mg/L	84
3.	Total Dissolved Solids	mg/L	415
4.	Turbidity	NTU	0.21
5.	BOD (3 Days @ 27 °C)	mg/L	4
6.	COD	mg/L	20
7.	Dissolved Oxygen	mg/L	5.8
8.	Salinity	ppt	0.024
9.	Oil & Grease	mg/L	BDL*
10.	Zinc as Zn	mg/L	0.022
11.	Cadmium as Cd	mg/L	BDL*
12.	Lead as Pb	mg/L	BDL*
13.	Mercury as Hg	mg/L	BDL*
14.	Total Hardness as CaCO <sub>3</sub>	mg/L	289
15.	Fluoride as F	mg/L	0.02
16.	Chloride as Cl	mg/L	13.49

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -

Table - STP Treated Water Quality Analysis Results for the period: Oct., 2016 to Mar., 2017:-

S. No.	Parameters	Unit	STP Treated Water Quality Analysis Results					
			Oct-16	Nov-16	Dec-16	Jaan-17	Feb-17	Mar-17
1.	pH	--	7.43	7.76	7.5	7.27	8.49	8.49
2.	Total Suspended Solids	mg/L	26	26	24	26	22	22
3.	BOD (3 Days @ 27 °C)	mg/L	17	14	10	17	17	12
4.	Residual Free Chlorine	mg/L	0.7	0.8	0.8	0.6	0.5	0.5

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5G. AMBIENT NOISE LEVEL MONITORING: -

Tables - Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October, 2016 to March, 2017:

Sampling Location	1 - Behind QHSE Office					
	During Day Time - Unit in dB (A)					
Date of Monitoring	01-10-2016	01-11-2016	01-12-2016	03-01-2017	01-02-2017	01-03-2017
6:00-7:00	41.8	40.9	40.9	42.7	42.1	42.4
7:00-8:00	40.6	41.0	38.0	49.3	54.3	54.3
8:00-9:00	43.3	46.5	44.9	44.0	43.3	42.9
9:00-10:00	49.3	46.0	42.9	40.9	45.3	42.2
10:00-11:00	53.0	49.8	52.3	50.9	52.9	53.6
11:00-12:00	42.8	44.3	40.8	48.1	55.3	57.2
12:00-13:00	42.1	44.4	44.2	44.1	52.3	51.1
13:00-14:00	44.4	46.3	44.5	43.8	48.3	48.2
14:00-15:00	43.0	41.0	40.7	43.7	49.7	52.2
15:00-16:00	50.0	51.4	52.5	51.3	52.6	56.0
16:00-17:00	41.7	40.6	41.0	42.8	44.3	41.2
17:00-18:00	46.1	43.3	42.6	41.5	40.5	40.5
18:00-19:00	55.2	57.9	59.7	62.5	69.3	67.2
19:00-20:00	40.5	41.9	42.3	49.3	48.9	50.8
20:00-21:00	49.9	52.4	54.1	57.1	61.9	61.3
21:00-22:00	47.7	49.9	49.4	52.1	57.8	57.5

Sampling Location	1 - Behind QHSE Office					
	During Night Time - Unit in dB (A)					
Date of Monitoring	01 & 02/10/2016	01 & 02/11/2016	01 & 02/12/2016	03 & 04/01/2017	01 & 02/02/2017	01 & 02/03/2017
22:00-23:00	50.3	52.2	53.9	55.6	57.9	55.7
23:00-00:00	44.2	42.9	40.1	37.6	41.4	40.8
00:00-01:00	44.5	45.1	45.5	43.5	46.2	47.7
01:00-02:00	40.0	38.2	40.9	41.7	44.7	46.2
02:00-03:00	42.7	44.7	45.2	43.6	44.2	47.1
03:00-04:00	40.1	38.3	38.9	39.0	45.5	43.7
04:00-05:00	40.4	41.6	42.0	43.9	44.7	49.0
05:00-06:00	45.9	43.7	40.9	40.1	41.3	43.1

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	2 - PMC Office Back Side					
	During Day Time - Unit in dB (A)					
Date of Monitoring	03-10-2016	02-11-2016	02-12-2016	04-01-2017	02-02-2017	02-03-2017
6:00-7:00	46.8	43.9	46.4	45.2	48.8	49.7
7:00-8:00	40.7	42.5	42.0	44.6	51.9	56.1
8:00-9:00	42.6	40.8	43.5	42.3	49.3	49.4
9:00-10:00	45.9	48.8	50.9	50.8	57.8	59.1
10:00-11:00	44.1	44.6	44.8	46.0	54.5	54.1
11:00-12:00	44.7	42.8	44.2	42.4	46.9	50.9
12:00-13:00	47.6	45.3	42.9	43.1	45.7	43.4
13:00-14:00	47.2	48.6	50.2	51.7	56.7	58.6
14:00-15:00	49.8	46.5	44.3	42.3	47.5	46.6
15:00-16:00	46.8	47.5	46.0	45.3	45.1	41.6
16:00-17:00	42.1	40.1	36.9	46.7	44.8	43.5
17:00-18:00	46.7	49.9	50.1	49.7	51.6	54.5
18:00-19:00	52.4	51.8	53.0	52.9	50.7	54.7
19:00-20:00	44.5	41.3	44.2	41.6	51.4	48.7
20:00-21:00	47.2	48.9	46.9	45.0	52.0	52.7
21:00-22:00	44.3	46.1	47.5	47.1	46.2	45.0

Sampling Location	2 - PMC Office Back Side					
	During Night Time - Unit in dB (A)					
Date of Monitoring	03 & 04/10/2016	02 & 03/11/2016	02 & 03/12/2016	04 & 05/01/2017	02 & 03/02/2017	02 & 03/03/2017
22:00-23:00	40.1	36.9	33.4	41.4	39.8	40.5
23:00-00:00	42.4	43.9	41.7	42.9	48.5	48.9
00:00-01:00	38.6	39.8	38.2	37.0	38.2	41.3
01:00-02:00	39.8	43.3	44.1	45.0	46.8	47.4
02:00-03:00	40.1	40.7	37.5	36.8	43.3	47.5
03:00-04:00	41.7	44.2	45.8	44.2	45.8	42.4
04:00-05:00	45.9	43.9	42.5	42.5	44.3	45.4
05:00-06:00	41.3	37.8	40.4	37.6	37.8	42.4

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - Unit in dB (A)					
Date of Monitoring	04-10-2016	03-11-2016	03-12-2016	05-01-2017	03-02-2017	03-03-2017
6:00-7:00	41.3	43.2	40.3	42.2	48.0	50.1
7:00-8:00	42.4	43.9	44.3	43.7	50.0	48.9
8:00-9:00	51.4	52.1	50.8	49.7	55.4	53.2
9:00-10:00	49.8	50.0	49.2	48.0	50.7	53.7
10:00-11:00	42.6	44.9	44.7	47.4	52.9	56.3
11:00-12:00	51.0	51.0	49.1	47.4	53.9	52.1
12:00-13:00	44.5	45.6	43.6	40.7	44.6	44.2
13:00-14:00	48.3	51.3	53.3	53.1	55.9	54.9
14:00-15:00	50.4	47.5	46.0	48.0	53.1	53.0
15:00-16:00	50.8	49.5	48.8	49.0	50.7	53.2
16:00-17:00	48.7	49.3	45.8	45.9	50.2	54.6
17:00-18:00	52.9	51.3	48.1	46.1	47.3	47.7
18:00-19:00	42.9	40.0	37.9	40.1	46.9	44.9
19:00-20:00	47.2	44.8	46.6	46.0	49.1	47.2
20:00-21:00	48.9	45.9	47.7	47.0	53.0	52.7
21:00-22:00	47.9	44.8	47.7	45.3	52.1	50.8

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - Unit in dB (A)					
Date of Monitoring	04 & 05/10/2016	03 & 04/11/2016	03 & 04/12/2016	05 & 06/01/2017	03 & 04/02/2017	03 & 04/03/2017
22:00-23:00	40.5	38.3	39.1	37.4	42.3	39.4
23:00-00:00	45.3	42.3	44.1	42.8	46.1	45.7
00:00-01:00	42.8	46.1	43.8	41.1	38.5	38.5
01:00-02:00	40.7	38.4	40.6	38.7	47.2	45.6
02:00-03:00	41.5	39.5	41.8	44.1	44.1	42.2
03:00-04:00	45.9	46.3	43.1	43.2	42.1	45.6
04:00-05:00	41.7	44.8	46.9	47.9	48.0	47.3
05:00-06:00	44.2	47.5	44.3	43.7	45.4	42.0

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	05-10-2016	04-11-2016	05-12-2016	06-01-2017	04-02-2017	04-03-2017
6:00-7:00	47.4	46.5	43.7	42.2	46.9	47.9
7:00-8:00	40.0	41.0	38.5	41.1	50.0	53.9
8:00-9:00	42.7	43.9	41.9	49.8	57.5	56.6
9:00-10:00	49.8	49.7	47.5	47.0	53.4	56.4
10:00-11:00	59.4	57.2	59.0	57.8	61.6	64.7
11:00-12:00	60.7	58.5	58.8	57.2	56.0	56.5
12:00-13:00	43.7	40.2	40.0	41.8	44.4	41.3
13:00-14:00	45.2	44.7	43.9	43.4	49.9	47.1
14:00-15:00	42.2	41.8	40.7	49.1	52.2	51.1
15:00-16:00	46.8	46.4	44.8	45.7	54.1	56.0
16:00-17:00	52.9	49.5	50.4	49.1	53.0	51.9
17:00-18:00	52.9	55.9	55.4	57.3	61.7	59.3
18:00-19:00	47.4	45.3	43.3	43.2	43.8	43.3
19:00-20:00	53.7	55.8	53.7	55.6	59.2	59.6
20:00-21:00	41.5	41.1	37.9	45.2	48.7	53.7
21:00-22:00	49.6	52.9	50.8	52.7	58.8	59.0

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	05 & 06/10/2016	04 & 05/11/2016	05 & 06/12/2016	06 & 07/01/2017	04 & 05/02/2017	04 & 05/03/2017
22:00-23:00	39.3	36.1	34.8	35.0	38.3	39.5
23:00-00:00	37.9	39.5	40.7	41.8	39.3	40.9
00:00-01:00	42.4	42.6	45.4	46.0	49.2	50.0
01:00-02:00	40.5	42.1	39.2	40.5	40.5	39.4
02:00-03:00	35.2	41.2	39.0	41.1	43.9	47.4
03:00-04:00	44.9	42.4	43.8	41.1	48.8	53.2
04:00-05:00	40.3	39.3	35.8	37.9	47.7	52.7
05:00-06:00	43.7	41.0	43.7	41.6	46.1	50.8



## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - Unit in dB (A)					
Date of Monitoring	06-10-2016	05-11-2016	06-12-2016	07-01-2017	06-02-2017	06-03-2017
6:00-7:00	40.2	40.0	39.6	41.4	44.2	41.9
7:00-8:00	47.3	49.3	49.1	48.3	54.3	51.9
8:00-9:00	50.2	53.4	53.3	55.6	60.9	60.1
9:00-10:00	52.4	55.5	55.4	55.3	53.0	50.9
10:00-11:00	52.3	52.6	53.1	55.3	61.0	66.0
11:00-12:00	50.6	50.9	50.8	49.8	53.0	55.4
12:00-13:00	47.7	50.3	53.2	56.0	64.9	69.9
13:00-14:00	42.2	44.3	40.8	48.6	51.5	52.8
14:00-15:00	42.3	45.7	44.7	45.2	43.1	44.6
15:00-16:00	45.7	42.4	40.7	41.4	49.6	49.7
16:00-17:00	42.8	41.9	43.9	43.7	45.5	47.5
17:00-18:00	53.0	50.4	51.5	50.3	54.7	54.6
18:00-19:00	48.6	46.6	46.3	46.4	55.2	53.9
19:00-20:00	48.3	45.3	48.0	47.1	50.8	53.7
20:00-21:00	49.2	51.5	50.1	48.9	50.6	47.9
21:00-22:00	43.9	45.4	47.9	47.6	47.9	46.7

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - Unit in dB (A)					
Date of Monitoring	06 & 07/10/2016	05 & 06/11/2016	06 & 07/12/2016	07 & 08/01/2017	06 & 07/02/2017	06 & 07/03/2017
22:00-23:00	47.5	44.9	42.7	44.6	46.4	45.2
23:00-00:00	42.6	39.4	37.4	37.6	39.1	42.5
00:00-01:00	39.4	41.0	38.3	36.6	41.1	45.1
01:00-02:00	48.7	48.5	48.4	49.2	50.0	54.9
02:00-03:00	45.7	45.1	48.1	47.7	54.9	53.8
03:00-04:00	34.9	37.1	33.6	35.2	39.6	42.7
04:00-05:00	43.0	42.5	41.9	40.2	39.4	36.2
05:00-06:00	41.3	38.5	39.1	41.4	44.7	46.3

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	07-10-2016	07-11-2016	07-12-2016	09-01-2017	07-02-2017	07-03-2017
6:00-7:00	44.4	41.0	38.1	45.4	52.3	49.0
7:00-8:00	43.1	40.0	41.3	49.7	52.3	51.8
8:00-9:00	46.2	44.0	42.9	41.0	43.5	48.0
9:00-10:00	45.9	46.9	49.0	48.1	49.8	50.9
10:00-11:00	51.0	48.2	45.8	47.0	52.4	52.0
11:00-12:00	65.2	65.5	63.8	61.6	60.5	59.8
12:00-13:00	53.3	55.4	57.3	54.3	59.7	62.2
13:00-14:00	47.3	49.9	46.6	48.5	53.9	53.3
14:00-15:00	49.6	51.4	53.1	53.2	57.6	59.8
15:00-16:00	42.8	48.5	49.1	47.9	48.8	48.5
16:00-17:00	53.2	52.2	52.4	50.8	55.2	56.6
17:00-18:00	52.5	51.6	53.1	50.4	56.4	55.9
18:00-19:00	45.1	45.0	46.9	44.9	41.6	41.3
19:00-20:00	47.9	49.3	46.7	44.6	48.1	50.6
20:00-21:00	43.1	43.4	42.5	45.1	48.6	51.2
21:00-22:00	46.1	47.2	44.5	47.5	51.1	53.8

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	07 & 08/10/2016	07 & 08/11/2016	07 & 08/12/2016	09 & 10/01/2017	07 & 08/02/2017	07 & 08/03/2017
22:00-23:00	48.3	49.9	48.6	50.7	48.9	52.7
23:00-00:00	46.7	45.2	47.2	49.8	49.1	46.1
00:00-01:00	42.3	40.0	37.3	38.6	44.0	43.5
01:00-02:00	42.3	42.1	42.5	44.5	48.0	51.8
02:00-03:00	40.5	39.7	39.3	36.9	44.7	41.6
03:00-04:00	38.7	40.2	40.1	37.2	38.9	36.2
04:00-05:00	40.6	43.1	43.7	42.3	42.9	43.6
05:00-06:00	48.3	48.2	50.2	52.6	59.9	57.1

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	08-10-2016	08-11-2016	08-12-2016	10-01-2017	08-02-2017	08-03-2017
6:00-7:00	43.8	41.9	39.5	46.5	54.2	54.1
7:00-8:00	42.6	40.6	39.8	42.6	46.2	43.0
8:00-9:00	45.6	47.4	46.1	45.7	47.1	43.7
9:00-10:00	49.7	52.9	53.6	51.3	52.5	56.8
10:00-11:00	52.0	49.5	50.8	53.5	57.6	61.1
11:00-12:00	61.3	59.8	59.0	61.2	62.0	59.2
12:00-13:00	56.4	57.7	60.4	62.0	63.2	61.5
13:00-14:00	54.2	54.7	56.6	58.4	60.0	63.8
14:00-15:00	55.6	56.5	56.7	54.8	60.9	65.4
15:00-16:00	57.0	58.6	60.3	59.4	63.3	59.8
16:00-17:00	55.0	56.9	59.1	60.8	63.3	59.8
17:00-18:00	58.4	61.3	64.2	63.4	72.8	73.3
18:00-19:00	60.9	57.9	54.5	56.7	63.2	60.0
19:00-20:00	50.1	46.7	44.0	41.9	42.1	44.6
20:00-21:00	48.2	47.7	46.7	49.3	47.5	44.1
21:00-22:00	53.9	55.8	55.6	56.0	59.4	59.3

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	08 & 09/10/2016	08 & 09/11/2016	08 & 09/12/2016	10 & 11/01/2017	08 & 09/02/2017	08 & 09/03/2017
22:00-23:00	44.3	41.6	42.6	40.1	39.4	38.1
23:00-00:00	44.7	44.5	41.9	42.3	45.6	42.3
00:00-01:00	39.6	36.2	35.9	37.7	36.5	40.4
01:00-02:00	46.0	47.7	45.1	42.8	42.6	43.9
02:00-03:00	42.3	42.8	41.0	43.8	50.6	54.1
03:00-04:00	42.8	42.4	40.9	39.3	41.9	45.5
04:00-05:00	42.2	39.8	40.1	41.4	47.9	46.5
05:00-06:00	41.5	44.0	43.1	43.6	48.4	52.1

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	8 - Near S & S Entry Gate (Dahej Road)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	10-10-2016	09-11-2016	09-12-2016	11-01-2017	09-02-2017	09-03-2017
6:00-7:00	41.1	41.0	40.6	41.2	48.3	48.8
7:00-8:00	40.8	40.6	41.4	48.4	52.9	54.0
8:00-9:00	44.3	40.9	39.0	49.5	51.0	51.4
9:00-10:00	44.4	41.0	42.4	43.8	47.3	49.0
10:00-11:00	53.9	51.6	51.7	49.6	46.4	46.2
11:00-12:00	57.2	56.7	54.5	55.1	59.3	59.4
12:00-13:00	47.2	50.4	52.7	52.1	50.7	52.7
13:00-14:00	47.7	47.5	44.1	46.8	53.6	52.6
14:00-15:00	43.2	42.3	43.0	41.8	49.3	50.8
15:00-16:00	55.7	58.7	58.9	60.5	62.2	60.8
16:00-17:00	58.8	61.7	61.3	59.8	58.8	61.7
17:00-18:00	50.5	51.0	48.5	48.3	46.8	43.7
18:00-19:00	47.9	47.4	44.0	43.2	45.8	50.1
19:00-20:00	55.3	52.3	54.3	53.4	57.6	62.1
20:00-21:00	54.1	57.0	58.7	57.2	60.4	57.4
21:00-22:00	47.7	49.2	47.8	47.4	54.0	56.2

Sampling Location	8 - Near S & S Entry Gate (Dahej Road)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	10 & 11/10/2016	09 & 10/11/2016	09 & 10/12/2016	11 & 12/01/2017	09 & 10/02/2017	09 & 10/03/2017
22:00-23:00	39.2	40.2	37.9	40.7	43.5	47.7
23:00-00:00	39.1	42.5	43.6	45.8	49.9	51.5
00:00-01:00	41.6	39.3	38.5	38.9	45.5	45.5
01:00-02:00	40.8	42.6	41.4	44.2	52.9	52.5
02:00-03:00	43.5	42.9	41.4	41.7	44.3	44.9
03:00-04:00	45.5	46.7	47.6	45.5	54.3	52.4
04:00-05:00	40.9	38.3	38.2	38.2	44.1	40.8
05:00-06:00	43.5	44.1	43.5	44.8	49.0	47.4

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	9 - GCPTL Gate					
	During Day Time - Unit in dB (A)					
Date of Monitoring	11-10-2016	10-11-2016	10-12-2016	12-01-2017	10-02-2017	10-03-2017
6:00-7:00	43.5	45.3	42.9	45.2	42.7	47.5
7:00-8:00	48.8	49.2	46.5	43.6	41.4	43.7
8:00-9:00	43.0	46.5	43.5	42.9	49.3	46.5
9:00-10:00	45.0	44.5	46.4	48.9	47.5	44.9
10:00-11:00	46.2	47.2	49.2	46.3	51.4	56.3
11:00-12:00	44.3	47.1	49.4	49.0	53.1	51.6
12:00-13:00	42.3	42.7	42.0	41.1	44.3	42.7
13:00-14:00	46.1	44.8	46.5	44.8	53.0	54.4
14:00-15:00	49.5	52.3	50.9	51.0	60.1	62.3
15:00-16:00	53.9	52.4	53.1	50.3	54.3	56.3
16:00-17:00	45.2	44.3	40.8	43.6	47.3	50.4
17:00-18:00	45.6	42.5	41.8	42.0	46.3	45.9
18:00-19:00	51.2	54.3	51.0	49.3	55.5	58.1
19:00-20:00	48.6	50.0	50.3	49.5	53.1	51.4
20:00-21:00	55.7	53.6	56.0	57.8	56.4	54.1
21:00-22:00	53.4	56.4	54.7	54.7	56.1	57.2

Sampling Location	9 - GCPTL Gate					
	During Night Time - Unit in dB (A)					
Date of Monitoring	11 & 12/10/2016	10 & 11/11/2016	10 & 11/12/2016	12 & 13/01/2017	10 & 11/02/2017	10 & 11/03/2017
22:00-23:00	35.7	34.1	34.6	34.1	35.9	37.8
23:00-00:00	48.4	47.6	45.5	43.7	40.2	39.6
00:00-01:00	38.4	39.5	36.3	37.8	40.5	37.2
01:00-02:00	43.1	43.8	43.0	40.9	41.6	43.4
02:00-03:00	41.6	39.9	38.2	39.0	35.5	40.3
03:00-04:00	44.2	42.9	40.3	41.4	49.5	49.5
04:00-05:00	42.6	42.5	39.6	41.1	42.6	43.0
05:00-06:00	41.8	41.9	44.1	41.3	48.4	46.9

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	12-10-2016	11-11-2016	12-12-2016	13-01-2017	11-02-2017	11-03-2017
6:00-7:00	47.5	49.1	48.0	48.5	47.0	51.0
7:00-8:00	51.1	51.8	54.7	55.1	55.7	55.1
8:00-9:00	53.2	56.5	59.2	60.8	65.4	67.0
9:00-10:00	55.8	58.0	57.1	54.1	60.5	60.1
10:00-11:00	62.1	61.0	61.8	62.6	63.3	60.7
11:00-12:00	57.8	57.0	57.6	57.5	55.3	55.4
12:00-13:00	52.9	55.1	52.2	50.0	52.3	52.3
13:00-14:00	61.3	61.8	59.2	61.9	60.8	64.9
14:00-15:00	51.2	52.3	54.5	54.9	53.2	53.7
15:00-16:00	50.4	48.4	46.8	46.2	46.4	49.3
16:00-17:00	48.6	45.2	43.4	43.8	47.6	51.0
17:00-18:00	53.3	53.1	54.6	56.3	58.4	57.7
18:00-19:00	58.9	58.4	55.1	56.0	60.0	57.5
19:00-20:00	58.1	60.7	59.0	58.8	64.3	68.7
20:00-21:00	60.0	59.8	59.7	61.3	63.6	64.1
21:00-22:00	49.8	50.3	51.2	53.9	56.1	55.1

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	12 & 13/10/2016	11 & 12/11/2016	12 & 13/12/2016	13 & 14/01/2017	11 & 12/02/2017	11 & 12/03/2017
22:00-23:00	40.3	37.4	38.9	36.1	41.0	39.0
23:00-00:00	44.6	44.8	47.6	44.8	44.0	47.8
00:00-01:00	39.0	36.0	34.3	35.8	49.8	53.2
01:00-02:00	43.1	46.4	48.8	50.3	55.0	58.5
02:00-03:00	44.0	40.8	38.0	35.8	40.8	38.1
03:00-04:00	42.5	44.0	42.9	43.8	40.1	40.8
04:00-05:00	41.7	42.6	42.9	41.1	49.8	47.2
05:00-06:00	48.1	46.5	45.4	48.0	54.0	50.8

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	11 - ERMS Workshop					
	During Day Time - Unit in dB (A)					
Date of Monitoring	13-10-2016	12-11-2016	13-12-2016	16-01-2017	13-02-2017	13-03-2017
6:00-7:00	44.4	43.7	41.8	42.8	43.3	47.4
7:00-8:00	45.7	45.5	44.0	45.9	53.4	58.4
8:00-9:00	45.4	43.8	46.3	45.7	46.1	42.6
9:00-10:00	49.0	48.9	49.4	49.0	51.9	56.1
10:00-11:00	45.7	48.3	46.6	45.5	49.1	48.0
11:00-12:00	48.8	46.8	45.3	45.8	53.2	53.9
12:00-13:00	42.6	43.7	42.7	42.0	40.5	42.7
13:00-14:00	50.6	49.0	48.3	47.3	47.6	51.1
14:00-15:00	41.5	42.3	41.3	42.3	46.6	49.2
15:00-16:00	53.4	50.5	48.4	45.4	48.6	47.4
16:00-17:00	41.3	40.7	37.4	47.8	52.1	56.4
17:00-18:00	41.1	41.6	39.8	42.7	45.2	44.5
18:00-19:00	47.5	49.6	47.7	47.9	50.4	47.6
19:00-20:00	49.7	52.3	50.1	47.4	53.3	52.4
20:00-21:00	53.4	54.2	54.1	52.0	54.2	57.4
21:00-22:00	40.4	52.3	52.7	54.4	56.9	55.7

Sampling Location	11 - ERMS Workshop					
	During Night Time - Unit in dB (A)					
Date of Monitoring	13 & 14/10/2016	12 & 13/11/2016	13 & 14/12/2016	16 & 17/01/2017	13 & 14/02/2017	13 & 14/03/2017
22:00-23:00	44.0	45.5	44.3	42.3	44.8	45.8
23:00-00:00	45.7	47.5	46.1	47.6	52.5	53.8
00:00-01:00	47.4	49.8	46.6	43.9	48.2	51.1
01:00-02:00	39.7	41.8	44.7	45.7	49.9	46.6
02:00-03:00	43.8	44.7	46.2	44.0	48.8	47.2
03:00-04:00	40.5	40.3	42.5	41.3	43.4	46.7
04:00-05:00	42.0	40.1	39.5	37.6	39.8	44.8
05:00-06:00	38.3	38.2	40.2	41.5	47.8	51.0

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	12 - Behind Pump House					
	During Day Time - Unit in dB (A)					
Date of Monitoring	14-10-2016	14-11-2016	14-12-2016	17-01-2017	14-02-2017	14-03-2017
6:00-7:00	42.5	42.7	41.9	44.3	42.9	45.8
7:00-8:00	44.3	41.7	38.4	45.8	49.9	47.3
8:00-9:00	40.7	41.6	43.0	40.3	48.5	50.6
9:00-10:00	41.1	40.8	38.1	45.2	51.1	51.1
10:00-11:00	42.0	40.0	40.5	40.7	40.4	48.4
11:00-12:00	56.0	57.5	54.1	54.5	57.6	57.1
12:00-13:00	51.2	54.3	55.6	56.7	61.9	61.3
13:00-14:00	50.7	49.9	50.2	51.4	55.8	57.7
14:00-15:00	49.7	47.5	49.8	50.1	53.2	52.4
15:00-16:00	51.5	51.1	52.0	49.8	53.0	55.3
16:00-17:00	55.3	57.6	60.5	58.4	63.7	60.8
17:00-18:00	52.7	54.3	52.1	53.0	52.9	55.1
18:00-19:00	48.7	46.6	49.1	46.9	50.0	54.1
19:00-20:00	47.3	47.1	47.7	46.6	44.2	45.3
20:00-21:00	48.0	46.7	47.6	49.9	57.4	58.1
21:00-22:00	48.7	50.9	51.1	54.1	55.4	59.0

Sampling Location	12 - Behind Pump House					
	During Night Time - Unit in dB (A)					
Date of Monitoring	14 & 15/10/2016	14 & 15/11/2016	14 & 15/12/2016	17 & 18/01/2017	14 & 15/02/2017	14 & 15/03/2017
22:00-23:00	44.4	45.2	43.3	41.5	40.4	44.2
23:00-00:00	45.4	48.9	50.0	52.7	54.8	57.0
00:00-01:00	36.2	32.9	32.6	41.1	40.6	37.5
01:00-02:00	47.6	44.9	43.1	45.9	46.5	45.2
02:00-03:00	43.8	41.2	38.0	35.8	44.7	44.6
03:00-04:00	38.5	40.4	43.1	43.2	44.3	44.1
04:00-05:00	37.1	39.0	40.5	38.8	46.9	43.9
05:00-06:00	36.2	37.8	36.3	44.1	49.4	53.7



## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	15-10-2016	15-11-2016	15-12-2016	18-01-2017	15-02-2017	15-03-2017
6:00-7:00	46.1	49.3	47.4	48.9	55.2	58.4
7:00-8:00	42.5	44.2	42.1	49.8	53.4	52.3
8:00-9:00	51.0	49.0	50.5	50.7	53.2	50.8
9:00-10:00	46.7	46.5	45.1	42.7	45.2	49.1
10:00-11:00	42.4	42.0	38.9	46.3	54.3	59.1
11:00-12:00	45.7	47.8	50.6	47.6	47.9	48.6
12:00-13:00	59.5	59.2	60.9	58.8	63.1	65.1
13:00-14:00	48.1	49.7	47.3	48.2	53.1	55.2
14:00-15:00	46.5	46.6	46.5	46.7	50.5	51.7
15:00-16:00	54.7	52.6	52.5	50.8	52.8	49.9
16:00-17:00	45.0	48.2	48.4	49.5	53.4	57.3
17:00-18:00	58.2	59.4	56.1	55.5	59.3	59.2
18:00-19:00	48.6	47.2	48.7	46.8	52.0	54.2
19:00-20:00	47.8	46.7	49.3	51.0	52.9	51.9
20:00-21:00	50.1	52.6	55.3	56.6	62.3	65.2
21:00-22:00	49.4	48.8	50.6	47.7	50.7	51.8

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	15 & 16/10/2016	15 & 16/11/2016	15 & 16/12/2016	18 & 19/01/2017	15 & 16/02/2017	15 & 16/03/2017
22:00-23:00	42.3	44.7	45.4	47.8	50.4	47.0
23:00-00:00	45.2	48.3	50.7	49.5	52.3	52.7
00:00-01:00	49.6	48.5	51.1	50.1	58.0	62.4
01:00-02:00	40.1	42.3	41.9	40.0	38.5	35.9
02:00-03:00	41.6	40.6	37.9	38.8	40.7	45.7
03:00-04:00	37.5	39.8	38.3	38.2	42.3	43.1
04:00-05:00	46.1	42.9	42.4	40.8	42.7	47.1
05:00-06:00	46.6	49.2	47.3	48.6	52.3	51.4

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	14 - New Gate					
	During Day Time - Unit in dB (A)					
Date of Monitoring	17-10-2016	16-11-2016	16-12-2016	19-01-2017	16-02-2017	16-03-2017
6:00-7:00	40.6	42.0	40.5	40.8	44.8	42.7
7:00-8:00	42.1	43.8	45.2	46.7	50.0	49.1
8:00-9:00	47.0	43.8	41.8	41.4	46.9	43.5
9:00-10:00	46.6	44.5	41.2	40.4	46.0	44.8
10:00-11:00	59.9	59.6	61.6	59.7	62.6	64.9
11:00-12:00	54.2	55.5	55.9	54.5	53.2	53.5
12:00-13:00	49.5	50.5	52.1	55.0	52.7	55.6
13:00-14:00	49.5	48.0	47.7	49.8	51.4	49.8
14:00-15:00	62.1	63.1	63.4	64.4	72.5	72.6
15:00-16:00	50.9	54.4	54.7	55.0	60.5	57.5
16:00-17:00	46.7	47.2	49.6	49.3	55.8	55.6
17:00-18:00	53.0	53.8	52.6	52.8	62.2	62.2
18:00-19:00	45.5	46.7	47.4	49.2	58.5	59.1
19:00-20:00	45.3	47.0	47.8	47.2	50.0	53.6
20:00-21:00	48.1	49.4	46.6	46.5	47.6	50.9
21:00-22:00	51.9	54.8	51.3	48.9	51.5	48.8

Sampling Location	14 - New Gate					
	During Night Time - Unit in dB (A)					
Date of Monitoring	17 & 18/10/2016	16 & 17/11/2016	16 & 17/12/2016	19 & 20/01/2017	16 & 17/02/2017	16 & 17/03/2017
22:00-23:00	44.8	43.7	40.8	43.8	46.4	48.1
23:00-00:00	36.6	37.4	39.9	40.8	41.4	40.6
00:00-01:00	35.9	38.6	37.0	36.4	44.0	45.3
01:00-02:00	39.4	38.4	39.3	40.1	43.8	41.5
02:00-03:00	38.4	39.9	37.1	44.9	49.0	51.2
03:00-04:00	41.0	42.8	40.3	41.4	47.9	49.4
04:00-05:00	40.7	39.6	38.3	38.3	42.5	44.5
05:00-06:00	41.2	38.8	36.9	37.4	41.7	40.5

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	15 - Security Barrier Gate					
	During Day Time - Unit in dB (A)					
Date of Monitoring	17-03-2017	17-11-2016	17-12-2016	20-01-2017	17-02-2017	17-03-2017
6:00-7:00	51.8	45.8	45.9	47.5	48.4	51.8
7:00-8:00	54.5	42.4	43.8	40.8	50.9	54.5
8:00-9:00	53.5	41.4	43.5	43.2	52.5	53.5
9:00-10:00	55.1	52.5	52.1	54.3	55.4	55.1
10:00-11:00	54.1	53.9	55.3	53.6	56.8	54.1
11:00-12:00	48.9	50.9	49.3	46.8	51.7	48.9
12:00-13:00	55.6	48.5	49.8	52.8	55.0	55.6
13:00-14:00	72.3	60.6	59.6	62.6	68.3	72.3
14:00-15:00	50.9	44.7	46.5	44.2	47.6	50.9
15:00-16:00	56.0	59.0	59.4	58.4	59.1	56.0
16:00-17:00	50.0	46.1	44.3	41.7	48.6	50.0
17:00-18:00	62.8	55.0	54.6	56.9	60.4	62.8
18:00-19:00	55.3	49.5	46.9	45.7	52.2	55.3
19:00-20:00	50.1	47.3	44.8	45.7	45.7	50.1
20:00-21:00	47.6	45.1	42.7	40.3	48.3	47.6
21:00-22:00	49.7	45.6	45.5	42.6	46.1	49.7

Sampling Location	15 - Security Barrier Gate					
	During Night Time - Unit in dB (A)					
Date of Monitoring	18 & 19/10/2016	17 & 18/11/2016	17 & 18/12/2016	20 & 21/01/2017	17 & 18/02/2017	17 & 18/03/2017
22:00-23:00	47.3	45.6	44.5	44.2	48.3	48.8
23:00-00:00	44.7	46.4	45.6	45.1	47.5	46.3
00:00-01:00	40.3	40.4	38.2	36.9	44.3	42.1
01:00-02:00	42.0	41.9	44.7	47.4	45.8	47.5
02:00-03:00	40.7	40.7	41.8	42.3	51.1	47.7
03:00-04:00	41.7	40.3	38.9	38.8	43.5	40.8
04:00-05:00	40.5	40.8	40.1	38.4	41.8	46.5
05:00-06:00	42.8	40.2	38.7	36.6	37.7	44.7

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	16 - JS-2					
	During Day Time - Unit in dB (A)					
Date of Monitoring	18-03-2017	18-11-2016	19-12-2016	21-01-2017	18-02-2017	18-03-2017
6:00-7:00	48.9	40.8	43.6	42.4	47.2	48.9
7:00-8:00	49.6	47.7	46.6	45.0	45.8	49.6
8:00-9:00	59.7	41.8	39.1	49.7	55.0	59.7
9:00-10:00	52.0	48.6	47.6	45.4	52.3	52.0
10:00-11:00	54.1	48.7	45.6	45.3	49.1	54.1
11:00-12:00	52.6	47.3	46.9	45.3	50.3	52.6
12:00-13:00	49.7	47.8	45.3	47.6	49.4	49.7
13:00-14:00	45.8	44.3	44.5	44.4	46.1	45.8
14:00-15:00	50.2	46.1	43.9	44.7	52.1	50.2
15:00-16:00	56.6	52.1	54.1	55.5	58.5	56.6
16:00-17:00	61.5	52.2	52.5	55.2	63.7	61.5
17:00-18:00	45.5	48.5	48.8	47.2	48.2	45.5
18:00-19:00	46.2	42.7	41.7	43.0	49.7	46.2
19:00-20:00	46.7	41.7	42.1	43.3	48.0	46.7
20:00-21:00	49.0	43.9	43.4	44.1	47.6	49.0
21:00-22:00	48.0	46.8	43.6	43.3	45.7	48.0

Sampling Location	16 - JS-2					
	During Night Time - Unit in dB (A)					
Date of Monitoring	19 & 20/10/2016	18 & 19/11/2016	19 & 20/12/2016	21 & 22/01/2017	18 & 19/02/2017	18 & 19/03/2017
22:00-23:00	42.2	39.9	39.4	36.5	47.3	48.0
23:00-00:00	50.1	48.3	45.5	46.7	50.7	49.1
00:00-01:00	41.2	41.3	39.7	42.3	39.9	36.8
01:00-02:00	43.4	42.7	42.4	40.5	40.7	44.9
02:00-03:00	38.0	37.4	37.5	38.4	37.2	39.4
03:00-04:00	37.2	42.1	41.3	42.2	44.6	41.4
04:00-05:00	41.8	44.8	42.2	44.9	48.6	52.0
05:00-06:00	37.7	41.1	41.5	41.3	46.7	43.7

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	17 - Railway Dead End					
	During Day Time - Unit in dB (A)					
Date of Monitoring	20-10-2016	19-11-2016	20-12-2016	23-01-2017	20-02-2017	20-03-2017
6:00-7:00	46.7	47.6	50.1	51.2	55.7	58.7
7:00-8:00	44.4	46.9	46.3	48.4	48.8	46.3
8:00-9:00	52.1	53.2	53.6	51.3	57.6	56.1
9:00-10:00	43.7	46.6	47.0	48.8	51.3	50.2
10:00-11:00	48.9	47.9	49.6	47.0	46.3	43.2
11:00-12:00	51.0	52.2	53.6	50.6	56.9	53.6
12:00-13:00	40.8	42.2	43.1	43.0	40.4	42.9
13:00-14:00	40.2	40.6	39.6	41.1	47.0	46.9
14:00-15:00	47.9	46.0	44.4	42.3	45.3	44.6
15:00-16:00	57.8	58.9	57.1	55.3	62.3	60.9
16:00-17:00	51.4	52.6	54.3	55.1	52.6	51.7
17:00-18:00	47.8	51.0	53.6	55.7	58.1	60.3
18:00-19:00	53.7	56.4	53.1	54.5	61.9	64.4
19:00-20:00	50.5	47.1	49.3	51.3	49.3	52.0
20:00-21:00	43.6	41.2	39.9	49.9	48.1	46.7
21:00-22:00	42.3	45.5	43.9	46.4	51.3	55.1

Sampling Location	17 - Railway Dead End					
	During Night Time - Unit in dB (A)					
Date of Monitoring	20 & 21/10/2016	19 & 20/11/2016	20 & 21/12/2016	23 & 24/01/2017	20 & 21/02/2017	20 & 21/03/2017
22:00-23:00	43.6	45.4	44.8	44.7	51.2	50.0
23:00-00:00	42.0	39.9	39.8	42.5	47.1	43.8
00:00-01:00	40.9	37.6	36.6	39.6	42.1	40.1
01:00-02:00	42.8	43.6	45.0	45.9	47.1	50.3
02:00-03:00	34.5	34.1	31.0	38.1	39.8	38.4
03:00-04:00	36.3	38.7	36.6	35.5	41.4	45.4
04:00-05:00	36.1	40.0	38.9	38.4	42.5	47.4
05:00-06:00	42.4	40.7	41.9	41.1	38.2	40.9

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	18 - S and S Yard (South)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	21-10-2016	21-11-2016	21-12-2016	24-01-2017	21-02-2017	21-03-2017
6:00-7:00	52.4	54.9	54.2	55.0	63.4	62.3
7:00-8:00	48.3	47.5	49.1	46.9	49.0	49.5
8:00-9:00	49.5	47.4	45.1	47.4	47.9	47.0
9:00-10:00	45.8	42.5	39.0	48.6	53.1	57.4
10:00-11:00	51.8	50.4	47.4	46.8	50.6	54.3
11:00-12:00	49.8	47.8	48.8	50.9	53.2	55.0
12:00-13:00	43.2	41.5	43.2	40.2	46.1	45.6
13:00-14:00	45.6	48.8	48.1	49.1	53.7	54.1
14:00-15:00	46.0	47.8	46.7	46.4	47.4	46.5
15:00-16:00	44.2	42.0	39.2	49.4	50.4	51.9
16:00-17:00	44.5	44.2	41.8	48.9	53.6	55.7
17:00-18:00	57.3	60.3	60.9	58.5	64.2	62.3
18:00-19:00	50.7	47.5	46.1	45.9	48.5	53.1
19:00-20:00	49.4	47.2	48.1	50.2	57.6	59.6
20:00-21:00	50.8	53.5	52.4	53.0	57.1	58.4
21:00-22:00	46.9	49.9	52.7	50.6	54.4	55.7

Sampling Location	18 - S and S Yard (South)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	21 & 22/10/2016	21 & 22/11/2016	21 & 22/12/2016	24 & 25/01/2017	21 & 22/02/2017	21 & 22/03/2017
22:00-23:00	54.5	51.4	53.9	56.8	66.4	65.6
23:00-00:00	41.5	38.1	37.5	38.8	41.2	40.1
00:00-01:00	41.4	43.9	44.8	43.1	45.5	43.4
01:00-02:00	45.0	42.1	39.2	37.0	40.2	41.7
02:00-03:00	42.8	45.7	46.8	46.8	48.3	52.5
03:00-04:00	36.1	42.1	39.9	39.9	45.1	44.6
04:00-05:00	40.7	40.9	42.7	43.1	42.6	42.4
05:00-06:00	43.9	44.0	46.3	48.7	51.9	49.4

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	19 - S and S Yard (North) Boundary Wall					
	During Day Time - Unit in dB (A)					
Date of Monitoring	22-10-2016	22-11-2016	22-12-2016	25-01-2017	22-02-2017	22-03-2017
6:00-7:00	42.6	49.2	46.2	45.1	46.3	43.9
7:00-8:00	48.7	52.0	50.9	50.7	51.3	50.0
8:00-9:00	48.6	51.1	52.8	54.6	53.5	57.5
9:00-10:00	49.7	52.3	50.9	51.1	54.8	53.3
10:00-11:00	53.2	52.3	48.9	46.3	54.5	56.5
11:00-12:00	49.9	47.2	46.9	49.7	51.3	48.9
12:00-13:00	46.0	47.9	45.7	44.9	53.2	55.1
13:00-14:00	59.2	60.6	60.7	62.2	61.8	61.5
14:00-15:00	57.6	60.4	61.6	64.3	63.9	62.6
15:00-16:00	53.7	56.4	53.1	51.4	55.2	57.1
16:00-17:00	45.6	42.2	44.3	45.8	53.5	53.1
17:00-18:00	41.2	43.5	45.3	45.2	47.3	45.1
18:00-19:00	42.3	44.6	44.5	44.4	48.1	51.5
19:00-20:00	51.8	48.5	46.3	44.2	50.8	50.3
20:00-21:00	49.3	48.1	49.7	51.5	50.8	52.9
21:00-22:00	42.7	43.4	41.3	40.4	52.2	53.1

Sampling Location	19 - S and S Yard (North) Boundary Wall					
	During Night Time - Unit in dB (A)					
Date of Monitoring	22 & 23/10/2016	22 & 23/11/2016	22 & 23/12/2016	25 & 26/01/2017	22 & 23/02/2017	22 & 23/03/2017
22:00-23:00	40.9	42.3	41.1	41.9	47.1	45.5
23:00-00:00	38.4	38.0	37.3	44.5	45.0	44.6
00:00-01:00	42.5	45.1	46.6	45.9	46.1	43.0
01:00-02:00	40.2	37.8	36.6	37.7	46.1	47.8
02:00-03:00	43.3	46.7	46.2	47.5	49.4	53.4
03:00-04:00	45.0	48.0	47.0	48.4	49.0	45.7
04:00-05:00	51.2	52.3	54.3	56.7	61.4	61.3
05:00-06:00	40.0	46.6	43.3	43.8	41.6	42.2

## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - Unit in dB (A)					
Date of Monitoring	24-10-2016	23-11-2016	23-12-2016	26-01-2017	23-02-2017	23-03-2017
6:00-7:00	43.9	44.2	47.2	44.3	44.8	48.9
7:00-8:00	48.5	50.5	51.9	52.5	52.7	55.7
8:00-9:00	44.3	42.3	43.1	40.6	43.6	45.1
9:00-10:00	48.1	46.8	49.1	51.4	50.6	51.9
10:00-11:00	56.3	58.5	58.4	57.2	65.0	66.0
11:00-12:00	49.9	52.0	49.8	52.8	60.1	64.9
12:00-13:00	51.2	53.9	53.2	52.3	55.1	53.7
13:00-14:00	40.8	52.6	53.8	52.3	57.3	59.9
14:00-15:00	52.6	50.9	51.1	53.6	56.2	58.7
15:00-16:00	51.6	48.5	50.7	51.7	55.4	52.2
16:00-17:00	50.8	52.6	51.6	53.5	58.7	60.2
17:00-18:00	59.8	58.3	56.5	56.0	61.7	59.5
18:00-19:00	54.5	52.7	51.5	54.5	53.1	55.4
19:00-20:00	50.0	47.3	48.3	50.4	55.5	57.8
20:00-21:00	44.5	43.7	45.1	43.2	50.0	48.3
21:00-22:00	40.3	43.3	42.2	40.3	45.5	45.4

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - Unit in dB (A)					
Date of Monitoring	24 & 25/10/2016	23 & 24/11/2016	23 & 24/12/2016	26 & 27/01/2017	23 & 24/02/2017	23 & 24/03/2017
22:00-23:00	42.2	39.4	39.8	38.3	41.2	44.6
23:00-00:00	42.8	39.4	40.4	43.4	45.8	43.4
00:00-01:00	38.4	42.5	42.4	41.2	42.5	45.3
01:00-02:00	35.9	44.0	43.1	45.9	49.2	46.3
02:00-03:00	44.0	46.9	43.7	43.8	43.2	45.2
03:00-04:00	40.3	40.1	41.9	42.3	45.8	45.8
04:00-05:00	42.4	42.6	44.3	46.5	47.9	48.0
05:00-06:00	45.6	48.2	50.0	50.7	55.0	56.9



## Annexure 5: Environment Monitoring Report from Oct,16 to Mar,17

### 5H. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table - DG Sets Stack Emission and Noise Level Monitoring Results for the Period: October, 2016 to March, 2017:-

DG SETS STACK EMISSION MONITORING RESULTS								
Monitoring Location			DG Set # 1 MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3 Marine (SS8)	DG Set# 4 Silo (SS11)	GPCB Limit**	Test / Sampling Method
S. No.	Parameters	UNIT	18-01-17	18-01-17	18-01-17	18-01-17		
1.	Particulate Matter	mg/Nm <sup>3</sup>	19.41	21.76	15.8	26.71	150	IS:11255 (Part-1) : 1985
2.	Sulphur Dioxide as SO <sub>2</sub>	ppm	5.84	7.3	6.5	8.58	100	IS:11255 (Part-2) : 1985
3.	Oxides of Nitrogen as NO <sub>x</sub>	ppm	40.39	35.16	38.07	36.72	50	IS: 11255 (Part-7) : 2005
4.	Non Methyl Hydro Carbon (NMHC)	mg/m <sup>3</sup>	BDL*	BDL*	BDL*	BDL*	Not Specified	Digital Gas Analyser
5.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	5.29	3.35	7.43	7.63	Not Specified	Gas Chromato- graphy

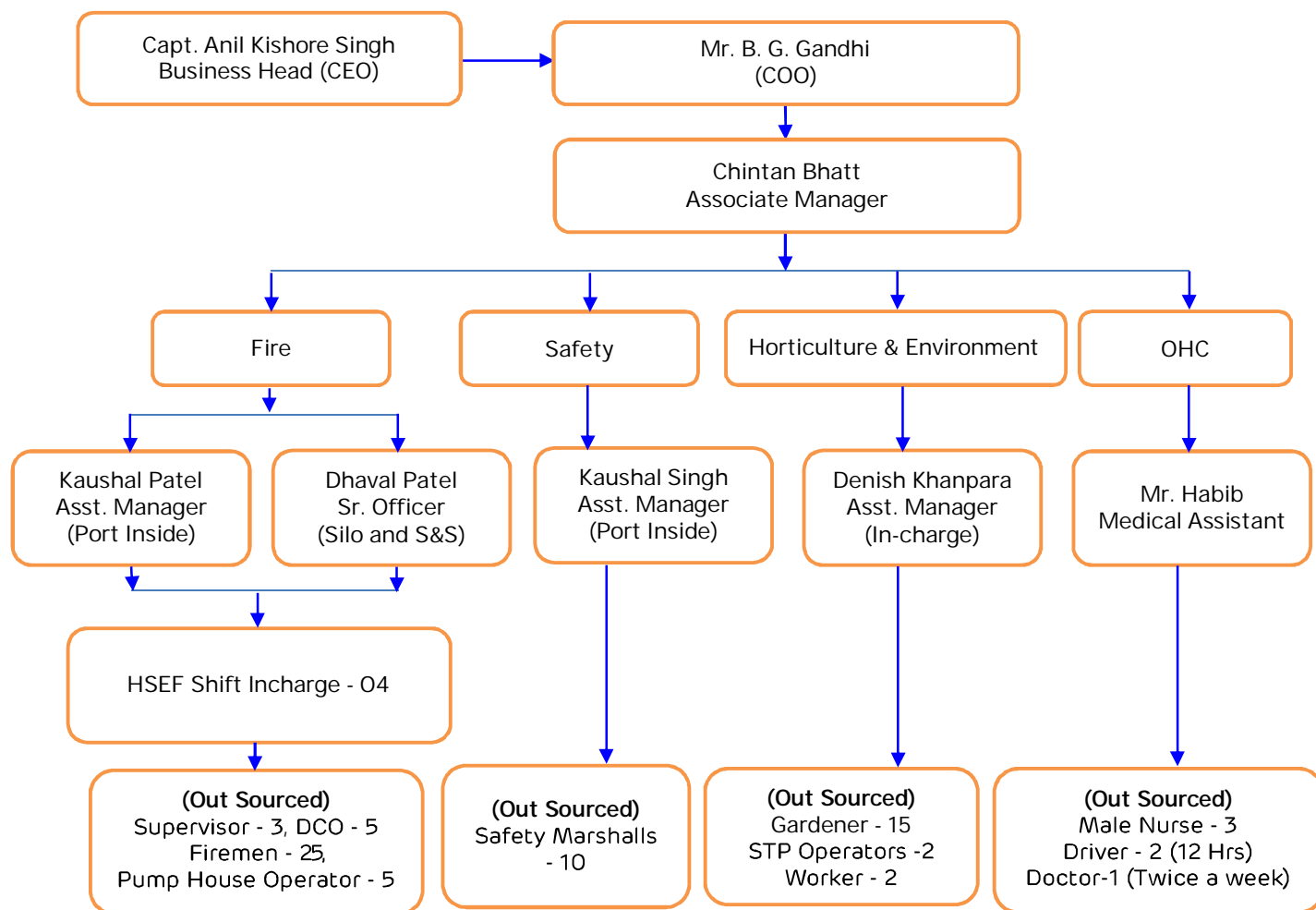
DG SETS NOISE LEVEL MONITORING RESULTS		
S. No.	Sampling Location	Noise Level Average Leq. dB(A) At 1 m from the enclose outside
		Date of Monitoring: 18-01-17
1.	DG Set # 1 MRSS (SS5)	70.2
2.	DG Set # 2 SS7B	70.4
3.	DG Set # 3 Marine (SS8)	69.2
4.	DG Set # 4 Silo (SS11)	69.6

## Annexure 6: Environment Management Cell

### Annexure-10: 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.	Chintan N. Bhatt	Asso. Manager-HSE	M.Sc. Environment Science, PDIS, NEBOSH	14 Years
2.	Kaushal Singh	Asst. Manager	Dip-Mech, PGDFS, NEBOSH	10 Years
3.	Denish Khanpara	Asst. Manager	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	10 Years
4.	Kaushal Patel	Asst. Manager	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT) pursuing	12 Year
5.	Dhaval Patel	Officer	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT) pursuing	9 Year

## Annexure 7: Environment Budget and Expenditure for the FY: 2016-17

### **Annexure-7: Environment Budget and Expenditure for the FY: 2016-17**

S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	EHS Manpower	8.86	8.86
2.	Legal & Statutory Expenses	0.0	0.0
3.	Environmental Monitoring Services	20.0	18.5
4.	Water Consumption	36.21	36.21
5.	Hazardous Waste Management & Disposal	0.80	0.0
6.	Greenbelt Development and Plantation	21.62	21.62
7.	O&M of Pollution control measures	7.75	7.55
8.	Environment Day Celebration	0.50	0.20
9.	Treatment and Disposal of Bio-Medical Waste	2.10	1.92
10.	Operation and Maintenance of Road Cleaning equipment and manpower	45.42	45.42
11.	Operation and Maintenance of Fire staff	36.43	36.43
<b>TOTAL AMOUNT (IN LACS)</b>		<b>179.69</b>	<b>176.71</b>

CAPITAL EXPENDITURE			
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	Horticulture Development	35.0	30.0
2.	Canteen Solar Project	12.0	0.0
3.	Bio diversity Study	5.0	5.5
4.	EHS Display Board	5.0	2.0
<b>TOTAL AMOUNT (IN LACS)</b>		<b>57.00</b>	<b>37.5</b>



P-5

Dated: 27-10-2016

To,

The Sarpanch Shri/The Talati Shri  
Gram Panchayat – Ambhetha  
Village : Ambhetha  
Ta. Vagra. Dist Bharuch

Sub: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Dear Sir/Madam,

With reference to your representation made during the public hearing process for expansion of (Phase III development) of Adani Petronet (Dahej) Port Private Limited, Adani Petronet (dahej) Port Pvt Ltd, Dahej has been accorded Environment and CRZ clearance by MOEF. Please find enclosed Environment Clearance letter issued by Ministry of Environment, Forest and Climate Change vide letter dated 14th October, 2016 bearing F. No. 11-37/2007 – IA.III.

Thanking You

For,

Adani Petronet (Dahej) Port Pvt. Ltd.

(B. G. Gandhi)  
Chief Operating Officer



જિ. ૨૫૧૨.૦૧૭૦૪૫  
સરપંચ  
ગ્રામ પંચાયત - અંબેથા  
તા. વગરા, જિ. ભરૂચ.

Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Po Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CTN:U63012GJ2003PTC041919

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

Registered office: Adani House, Nr. Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



P-3

Dated: 27-10-2016

To,

The Sarpanch Shri/The Talati Shri  
Grampanchayat - Luvara  
Village : Luvara  
Ta. Vagra. Dist Bharuch

Sub: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Dear Sir/Madam,

With reference to your representation made during the public hearing process for expansion of (Phase III development) of Adani Petronet (Dahej) Port Private Limited, Adani Petronet (dahej) Port Pvt Ltd, Dahej has been accorded Environment and CRZ clearance by MOEF. Please find enclosed Environment Clearance letter issued by Ministry of Environment, Forest and Climate Change vide letter dated 14th October, 2016 bearing F. No. 11-37/2007 – IA.III.

Thanking You

For,

Adani Petronet (Dahej) Port Pvt. Ltd.

(B. G. Gandhi)  
Chief Operating Officer



સેલ જે રાહી  
સરપંચ  
ગ્રામ પંચાયત - લુવારા  
તા. વાગરા, જી. ભરૂચ

Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Po Lakhigam  
Taluka Vagra, Via Dahej  
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Gujarat, India  
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Tel +91 2641 25 3395  
Fax +91 2641 25 3398  
info@adani.com  
www.adani.com

Registered office: Adani House, Nr. Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

adani

P-2

Dated: 27-10-2016

To,

The Sarpanch Shri/The Talati Shri  
Grampanchayat - Jageshwar  
Village : Jageshwar  
Ta. Vagra. Dist Bharuch

Sub: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Dear Sir/Madam,

With reference to your representation made during the public hearing process for expansion of (Phase III development) of Adani Petronet (Dahej) Port Private Limited, Adani Petronet (dahej) Port Pvt Ltd, Dahej has been accorded Environment and CRZ clearance by MOEF. Please find enclosed Environment Clearance letter issued by Ministry of Environment, Forest and Climate Change vide letter dated 14th October, 2016 bearing F. No. 11-37/2007 – IA.III.

Thanking You

For,

Adani Petronet (Dahej) Port Pvt. Ltd.



(B. G. Gandhi)  
Chief Operating Officer



૫૧ મહત્તી ૨  
૬ સીએ ૫૨/૧

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

Registered office: Adani House, Nr. Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



P-1

Dated: 27-10-2016

To,

The Sarpanch Shri/The Talati Shri  
Grampanchayat - Lakhigam  
Village : Lakhigam  
Ta. Vagra. Dist Bharuch

Sub: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Dear Sir/Madam,

With reference to your representation made during the public hearing process for expansion of (Phase III development) of Adani Petronet (Dahej) Port Private Limited, Adani Petronet (dahej) Port Pvt Ltd, Dahej has been accorded Environment and CRZ clearance by MOEF. Please find enclosed Environment Clearance letter issued by Ministry of Environment, Forest and Climate Change vide letter dated 14th October, 2016 bearing F. No. 11-37/2007 – IA.III.

Thanking You

For,

Adani Petronet (Dahej) Port Pvt. Ltd.

(B. G. Gandhi)  
Chief Operating Officer



23/10/16  
31/10/16  
31/10/16

Adani Petronet (Dahej) Port Pvt. Ltd.  
At & Po Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
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Tel +91 2641 25 3395  
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info@adani.com  
www.adani.com

Registered office: Adani House, Nr. Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India



adani

27.10.2016

To,  
Gujarat Pollution Control Board,  
C-1/119/3, GIDC Phase-II,  
Narmada Nagar,  
Bharuch-392015.

Kind Attn.: Shri. H. Solanki (Regional Officer)

Subject: Copy of the Environment and Coastal Regulation Zone Clearance Letter


Sir,

M/s Adani Petronet (Dahej) Port Private Limited has obtained the Environment and CRZ clearance issued by Ministry of Environment, Forest and Climate Change vide letter dated 14<sup>th</sup> October, 2016 bearing F. No. 11-37/2007 – IA.III for expansion (Phase III development) of Adani Dahej Port

With regard to General condition no. (ix) Of the EC and CRZ clearance letter, kindly display the copy of the clearance letter for a period of 30 days.

Thank you

For Adani Petronet (Dahej) Port Private Limited

  
(B. G. Gandhi)  
Chief Operating Officer:



Encl.: Copy of Environment and Coastal Regulation Zone Clearance Letter

✓ Copy: Member secretary, Gujarat Pollution Control Board, Gandhinagar.

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

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

o/c

adani<sup>TM</sup>

27.10.2016

To,  
The Mamlatdar,  
Mamlatdar Office,  
Vagra.  
Dist - Bharuch

Subject: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Sir,

M/s Adani Petronet (Dahej) Port Private Limited has obtained the Environment and CRZ clearance issued by Ministry of Environment, Forest and Climate Change vide letter dated 14<sup>th</sup> October, 2016 bearing F. No. 11-37/2007 – IA.III for expansion (Phase III development) of Adani Dahej Port

With regard to General condition no. (ix) Of the EC and CRZ clearance letter, kindly display the copy of the clearance letter for a period of 30 days.

Thank you

For Adani Petronet (Dahej) Port Private Limited

  
(B. G. Gandhi)  
Chief Operating Officer



Encl.: Copy of Environment and Coastal Regulation Zone Clearance Letter

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
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27.10.2016

To,  
✓ The General Manager  
District Industries Center  
Bharuch

Subject: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Sir,

M/s Adani Petronet (Dahej) Port Private Limited has obtained the Environment and CRZ clearance issued by Ministry of Environment, Forest and Climate Change vide letter dated 14<sup>th</sup> October, 2016 bearing F. No. 11-37/2007 – IA.III for expansion (Phase III development) of Adani Dahej Port

With regard to General condition no. (ix) Of the EC and CRZ clearance letter, kindly display the copy of the clearance letter for a period of 30 days.

Thank you

For Adani Petronet (Dahej) Port Private Limited

(B. G. Gandhi)  
Chief Operating Officer

27/10/16  
2016-10-27  
Bharuch District Industries Center

Encl.: Copy of Environment and Coastal Regulation Zone Clearance Letter

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

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



27.10.2016

To, *The Regional Officer*  
Gujarat Pollution Control Board,  
C-1/119/3, GIDC Phase-II,  
Narmada Nagar,  
Bharuch-392015.

Kind Attn.: Shri. H. Solanki (Regional Officer)

Subject: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Sir,

M/s Adani Petronet (Dahej) Port Private Limited has obtained the Environment and CRZ clearance issued by Ministry of Environment, Forest and Climate Change vide letter dated 14<sup>th</sup> October, 2016 bearing F. No. 11-37/2007 – IA.III for expansion (Phase III development) of Adani Dahej Port

With regard to General condition no. (ix) Of the EC and CRZ clearance letter, kindly display the copy of the clearance letter for a period of 30 days.

Thank you

For Adani Petronet (Dahej) Port Private Limited

(B. G. Gandhi)  
Chief Operating Officer

Encl.: Copy of Environment and Coastal Regulation Zone Clearance Letter

Copy: Member secretary, Gujarat Pollution Control Board, Gandhinagar.

Post Received  
Gujarat Pollution Control Board  
BHARUCH  
27/10/16

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

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



adani<sup>TM</sup>

27.10.2016

To,

✓ District Collector  
Collector Office,  
Bharuch-392015.

Subject: Copy of the Environment and Coastal Regulation Zone Clearance Letter

Sir,

M/s Adani Petronet (Dahej) Port Private Limited has obtained the Environment and CRZ clearance issued by Ministry of Environment, Forest and Climate Change vide letter dated 14<sup>th</sup> October, 2016 bearing F. No. 11-37/2007 – IA.III for expansion (Phase III development) of Adani Dahej Port

With regard to General condition no. (ix) Of the EC and CRZ clearance letter, kindly display the copy of the clearance letter for a period of 30 days.

Thank you

For Adani Petronet (Dahej) Port Private Limited



(B. G. Gandhi)  
Chief Operating Officer



આપક કારકુન  
ક્લેક્ટર કચેરી  
ભરૂચ

Encl.: Copy of Environment and Coastal Regulation Zone Clearance Letter

Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

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

Annexure 8B: Copy of RPAD receipt of EC and CRZ clearance letter is submitted to local NGO

RLAD DHEJ <392130>  
A RG660368496IN  
Counter No:1,UF-Code:FA  
To:JAYDESH MISTRY,1340 NARAYAN APT  
Bharuch H.O, PIN:392001  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:60grams,  
Amt:35.00 , 01/04/2015 , 11:56  
<<Track on www.indiapost.gov.in>>



RLAD DHEJ <392130>  
A RG660368638IN  
Counter No:1,UF-Code:FA  
To:PRADIPKANT P SHETH,A-8 KALINDI APT  
Ankleshwar S.O, PIN:393001  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:60grams,  
Amt:35.00 , 01/04/2015 , 11:56  
<<Track on www.indiapost.gov.in>>



RLAD DHEJ <392130>  
A RG660368624IN  
Counter No:1,UF-Code:FA  
To:SHWETA BHATT,CD CON ACTION  
Ghatkopar West S.O, PIN:400056  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:60grams,  
Amt:35.00 , 01/04/2015 , 11:57  
<<Track on www.indiapost.gov.in>>



RLAD DHEJ <392130>  
A RG660368613IN  
Counter No:1,UF-Code:FA  
To:RISH SHEKH,PB BHARUKISH WATER  
Ulpad S.O, PIN:394540  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:40grams,  
Amt:30.00 , 01/04/2015 , 11:57  
<<Track on www.indiapost.gov.in>>



RLAD DHEJ <392130>  
A RG660368584IN  
Counter No:1,UF-Code:FA  
To:PARVAT SURESH CHANDU,KADUPPA  
Pakkajam S.O, PIN:392165  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:40grams,  
Amt:30.00 , 01/04/2015 , 11:58  
<<Track on www.indiapost.gov.in>>



RLAD DHEJ <392130>  
A RG660368553IN  
Counter No:1,UF-Code:FA  
To:DEEPA P PANDYA,SAFETY HEALTH & ENV  
Bharuch H.O, PIN:392001  
From:ADANI PETRONET LTD , DHEJ-392130  
Wt:40grams,



0/C  
Annexure 9: Acknowledgement of EC advertisement submitted to MoEF&CC

adani<sup>TM</sup>

Ref: APDPPL/MOEF-RO/01-2016

28 October 2016

To,  
Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WZ),  
E-5, Kendriya Paryavaran Bhawan,  
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,

Kind Attention: *Shri Tejinder Singh*

Subject: Submission of the copy of the advertisement of Environment Clearance in the newspaper and other details  
Reference: Environment and CRZ Clearance issued by MoEF&CC vide letter dated 14<sup>th</sup> October, 2016 bearing F.No. 11-37/2007 - I.A.III

With reference to the Environment and CRZ Clearance issued vide above mentioned reference for the expansion of Adani Petronet (Dahej) Port Private Limited (APDPPL). Please note that in compliance to the condition number 13.0; APDPPL has advertised copy of the environment clearance in two newspapers wider circulated in the region. Detail of the same is given in table below:

S.No.	News paper	Publishing date	Language	Remarks
1	Indian Express	25/10/2016	English	Copy of newspaper is enclosed as Annexure - 1
2	Gujarat Guardian	25/10/2016	Gujarati	Copy of newspaper is enclosed as Annexure - 2

This is for your information and records please.

Thank you

For Adani Petronet (Dahej) Port Private Limited

*B. G. Gandhi*  
(B. G. Gandhi)

Chief Operating Officer



Adani Petronet (Dahej) Port Pvt Ltd  
At & PO Lakhigam  
Taluka Vagra, Via Dahej  
Bharuch 392 130  
Gujarat, India  
CIN: U63012GJ2003PTC041919

info@adani.com  
www.adani.com

*Relax*  
7-11-16  
RECEIVED OFFICE  
Ministry of Environment & Forests (C)  
Regional Office (Western Region)  
Bhopal - 462016



# Women to be allowed near Haji Ali mazhar, Supreme Court told

UTKARSH ANAND  
NEW DELHI, OCTOBER 24

WOMEN WILL now be allowed access near the sanctum sanctorum of Mumbai's renowned Haji Ali dargah.

The Supreme Court on Monday recorded an undertaking by the Dargah Trust that it would allow equal access to men

and women inside the shrine, and near the mazhar (mausoleum) in the sanctum sanctorum.

A bench led by Chief Justice of India T.S. Thakur recorded that the Dargah Trust will comply with the Bombay High Court's order on allowed access to women on par with men, and restoration of status quo ante or the same situation - as it existed in 2011.

Until 2011, men and women were granted equal access and were allowed to touch the mazhar in the sanctum sanctorum.

The court granted the Trust four weeks to "remove all obstructions" and make requisite infrastructure and other changes for compliance with the High Court order. The court also

recorded that the Trust had passed a resolution on October 11, specifying that it would ensure equal access to men and women.

According to the October 11 resolution and the additional affidavit added in court by the Dargah Trust, both men and women would now be barred from touching the mazhar in the sanctum sanctorum. Only

khadims (caretakers) of the shrine would have permission to touch it. This, in a way, means curtailing access of men in order to bring them on par with women.

Earlier in the day, appearing for the Trust, senior advocate Subramaniam submitted that they believed in gender equality and were now ready to grant equal access to women in-

side the shrine. As he sought to shed light on reasons and philosophy behind the decision, the bench said it was interested only in the fact that both genders are allowed the same access.

"If you have given equal access, where's the problem? Why have you filed this special leave petition here," the court asked. In reply, Subramaniam said the High Court order had also com-

mented upon relations between religious and fundamental rights that necessitated the Trust to move an appeal.

At this, the court said: "Leave aside the legal problems. If you have already given equal access, you should not complain. We will say in our order that the High Court's observations on religious and fundamental rights will not act as precedent and

that you have agreed to comply with its direction on granting access."

Advocate Anura Singh Kalika, who represented women petitioners Noorjehan Niaz and Zakia Soman, urged the bench to record a precise undertaking that the Trust will abide by the High Court order and would not comply merely with the resolution.

## M/s. Adani Petronet (Dahej) Port Pvt. Limited, Dahej

Regarding Environment Clearance and CRZ Clearance

**PUBLIC NOTICE**

This is to bring to the public notice that M/s. Adani Petronet (Dahej) Port Pvt. Limited, Regd. Office at Adani House, Near Mithakhali Circle, Navrangpura, Ahmedabad - 380009, Gujarat has been accorded Environment and CRZ Clearance for Phase II Expansion of its cargo handling facility from 11.7 MTMTPA to 23 MTMTPA at Dahej vide File Number: 11-372007-IA.II dated September 14, 2016 by the Ministry of Environment, Forest & Climate Change, India. Parayavaran Bhawan, Alligal, Jorbagh Road, New Delhi - 110003. A copy of the above mentioned clearance letter along with the environmental and safety conditions and safety measures published herewith and is also available with Gujarat Pollution Control Board. This can be seen on the website of Ministry of Environment & Forests: <http://www.envfor.nic.in>

F. No. 11-372007-IA.II  
Government of India  
Ministry of Environment, Forest & Climate Change  
(I.A. Division)

Indira Parayavaran Bhawan  
Alligal, Jorbagh Road,  
New Delhi - 110003  
Telefax: 011-24695398  
Dated: 14th October, 2016

To,  
The Managing Director,  
Adani Petronet (Dahej) Port Pvt. Ltd.,  
M/s. Adani House, Near Mithakhali Circle, Navrangpura, Ahmedabad, Gujarat  
E-mail: gudena.rao@adani.com, Phone: 079-25555603,  
Subject: Expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat by M/s Adani Petronet (Dahej) Port Pvt. Ltd. - Environmental and CRZ Clearance.  
Ref: Your online proposal no. IAGU/MIS/30886/2013 dated 14th March, 2016.  
Sir,

This is reference to your online proposal no. IAGU/MIS/30886/2013 dated 14th March, 2016 along with project documents including Form I, Terms of Reference, Pre-feasibility Report, EIA/EMP Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat. M/s Adani Petronet (Dahej) Port Private Limited (APPL) has proposed to develop additional area for coal stockpiles, back up equipment's, coal storage silo at railway siding and other supporting infrastructure and to expand its cargo handling facility from 11.7 MTMTPA to 23 MTMTPA by proposing the following activities:

- Reclamation on the tune of 23 Ha Contiguous lands to the existing back-up area to store and handle multipurpose cargo.
- Optimal utilization of existing back up area for coal storage and handling of other designated cargo. Additional coal stock pile to be developed for storage of 1.1 Million Tonnes.
- Widening of existing 15 m wide rubble bund to 60 m wide to handle project cargo (i.e. DDG).
- Existing Ramp being used for port crafts and tugs will be strengthened to handle project cargo
- Mechanization of south jetty to handle coal cargo.
- Rail loading silo and other supporting infrastructure facilities.
- No dredging Break water. Jetties are proposed.
- The Overall Capacity and productivity of terminal will increase from 11.7 MTMTPA to 23 MTMTPA.

3.0 The proposal includes other cargoes like Steel, Gypsum, Project cargoes, Silica sand etc. It is reported that no national park, marine parks, sanctuaries, reserve forests, wildlife habitats, biosphere reserves are located at the project site. Mudflats are present at project site, which is reported to be biologically insensitive. Coastal areas rich in mangroves are located at Ban Khadi (7 km from the project site), Ghugar Khadi (10.5 km) and Narmada Estuary (12 km). Nearest water bodies /reservoirs are Lakhabava pond (1.3 km), Ambetha pond (6.8 km), Jolve Pond (13.4 km), Sabarnati Pond (4.3 km) and Narmada Estuary (3 km). Marginal fishing is done by about 30 fishermen from Jageshwar village along the shore. Cost of expansion project is Rs. 46.32 Crore. Out of which, Rs 17.55 Crore and Rs 13.35 Crore are earmarked towards capital cost and recurring cost per annum for environmental management plan.

4.0 APPL has developed the said port in phased manner. Existing berths, jetty, rubble bund, stack yard and supporting infrastructure were developed in phase-I. The CRZ clearance for phase-I was accorded on 6th July, 2007 by MoEF. In phase-II, 38 ha of forest land were diverted for port backup area. MoEF granted environmental clearance for the same on 11th November, 2008. PP has submitted the copy of letter no. GJCE/02/2008-BH/0508 dated 15.06.2008 issued by MoEFCC, Regional office, Bhopal for diversion of 38.00 ha of forest land. Current proposal of APPL intends to expand Dahej Port under Phase-III.

5.0 Air pollution control measures will be taken to reduce the fugitive coal dust emissions viz. (i) water spray nozzle will be provided at the top of the mobile hopper, (ii) conveyor belt with hood and water spray arrangement to reduce the dust, (iii) all transfer tower dry fog dust suppression system will be provided, closed transfer towers will be provided. Stacker cum reclaimer with water spray nozzles and use of mist cannon for dust suppression during stacking will be provided, (iv) water spray sprinkling in the coal storage yards, wind breaker of 14 m height and green belt along storage yard will be provided, (v) tyre washing system will be provided to minimize the dust problem, (vi) dust suppression system at the conveyor belt just before the chute will be provided at filling of silo for railway rack loading, (vii) Dry fog dust suppression system shall be provided to suppress the coal dust; water spray nozzles shall be provided to suppress the dust during wagon filling at railway rack loading. The total water demand for the proposed project will be increased from 600 m<sup>3</sup>/day to 4500 m<sup>3</sup>/day after expansion. Source of water supply is GIDC water supply. Water used for dust suppression system is collected in a solar evaporation pond. The collected water will be evaporated through solar evaporation and the sludge generated from the pond is sent to coal yard for recycling. Sewage will be treated in the sewage treatment plant (STP). The total power demand is estimated as 7000 KVA. STP will be set up in modular phases for management of sewage. It is proposed to develop total greenbelt in an area of approximately 6 ha within the project area. Existing greenbelt alignment on the north side and south side will be extended towards sea in the width of 5 m on both side, of proposed reclamation area of 23 ha. On the eastern side (landward side) greenbelt area will be developed in the width of 5m.

6.0 Public hearing was held on 18th March 2015.

7.0 Gujarat Coastal Zone Management Authority vide letter no. ENV-10-2015-171-E dated 14th March, 2016 has recommended the proposal to MoEFCC to grant CRZ clearance for proposed Phase-III expansion project at Dahej by M/s Adani Petronet (Dahej) Port Ltd. It is also reported that as per CRZ map duly demarcation of HTL/CRZ Boundary etc. prepare by the National Centre for Earth Science Studies, Thiruvananthapuram, the proposed activities falls within HTL (2) (B), CRZ - III Categories, which are permissible as per CRZ Notification, 2011.

8.0 All the projects related to Ports and Harbour i.e. 5 million TPA of cargo handling capacity (excluding fishing harbours) are listed at 7(e) of schedule of EIA Notification, 2006 covered under category A and appraised at central level.

9.0 The proposal was considered by the Expert Advisory Committee (Infrastructure-2) in its meetings held during 28th - 30th October, 2013 and 28th - 29th March, 2016 respectively. Project Proponent and the EIA Consultant namely M/s Cholamandalam NS Services Limited have presented EIA/EMP report as per the TOR. EAC has found the EIA/EMP Report and additional information to be adequate and in full consonance with the presented TORs. The Committee recommended the proposal for environmental and CRZ clearance.

10.0 As per the recommendations of EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental and CRZ Clearance for the above mentioned project "Expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat by M/s Adani Petronet (Dahej) Port Pvt. Ltd." under the provisions of the Environment Impact Assessment Notification, 2006 & Coastal Regulation Zone (CRZ) Notification, 2011 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions. In addition to the general conditions mentioned below:

### A. SPECIFIC CONDITIONS:

- "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.
- 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.
- 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.
- 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.
- 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.
- 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 Ministry.
- All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster Management Plan shall be strictly complied with.
- 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.
- 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 shrubs.
- The coal from the ships shall be conveyed through closed conveyor to the coal stockyard. The conveyor shall be seamless without joints/transfer points.
- The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.
- The mangrove plantation of 50 ha shall be under taken in consultation with Gujarat Ecology Commission /State Forest Department.
- 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.

- 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.
- The ground water shall not be tapped within the CRZ areas by the PIP to meet with the water requirement in any case.
- 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 Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- 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.
- Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mud flats, sand dunes, fisheries, echinoderms, shrimps, corals, coastal vegetation, mangroves and other marine bio diversity components as part of the management plan.
- 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.
- Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine bio diversity.
- Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handling.
- 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.
- 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 SPCC guidelines. Ships/vessels calling at the jetty shall not dump waste/oily water during the berthing period.
- 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.
- All the mechanized handling systems and other associated 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.
- No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.
- 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.
- 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 SPCC and R.O. of this Ministry along with six monthly compliance reports.
- 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.
- The Project Proponent shall take up and earmark adequate fund for socio economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.
- 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.
- The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.
- The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
- 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.
- Corporate Social Responsibility:
  - The Company shall have a well laid down Environment Policy approved by the Board of Directors.
  - 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.
  - The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with environmental norms shall be furnished.
  - To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliance/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- GENERAL CONDITIONS:**
  - Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
  - 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 environmental protection activities.
  - 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.
  - Ministry of Environment, Forest & 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.
  - The Ministry reserves the right to revise this clearance if any of the conditions stipulated are not complied with the stipulations of the Ministry.
  - In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.
  - 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.
  - 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.
  - 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/ Tehsil/da's office for 30 days.
- 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.
- All other statutory clearances such as the approvals for storage of diesel from Fire Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife Protection Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
- 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 & Climate Change at <http://www.envfor.nic.in>. 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.
- This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goe Foundation Vs Union of India in Writ Petition (Civil) No 460 of 2004 as may be applicable to this project.
- Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
- Any appeal against this Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/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.
- 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 MoEF&CC, the respective Zonal Office of CPCB and the SPCC.
- 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 MoEF&CC by email.

(A.N. Singh)  
(Scientist D)

### Copy to:-

- The Principal Secretary, Forests & Environment Department Government of Gujarat, Sachivalaya, 8th Floor, Gandhinagar-382010, Gujarat.
- The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road-3, Bhopal - 462016, M.P.
- The Chairman, Central Pollution Control Board Parivash Bhawan, CBD cum Office Complex, East Ajunt Nagar, New Delhi-110032.
- The Chairman, Gujarat Pollution Control Board, Parayavaran Bhawan, Sector 10A, Gandhinagar-382043, Gujarat.
- Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Parayavaran Bhawan, Jorbagh Road, New Delhi-110032.
- Guard File/Monitoring File/Record File

(A.N. Singh)  
(Scientist D)

\* Note: In Para no. 3.0 there is a typographic error. The figure Rs. 173.35 Crore to be read as Rs. 17 Crore. APPL has already informed MoEF&CC for necessary correction.



ધન કચરાના નિકાલ માટે ખજોદ સાઈટનું વિસ્તૃતીકરણ કરાશે

[illegible]

(૧૩) જાગજાગી ઠાળોને કીધી લોપચાખ ખાતી રજવાનું રહેશે અને કલકત્તા અને પરા પ્રાદેશને કાંબલ સ્થાપના ખોલવાનું રહેશે. લોપચાં અને જાગજાગ પ્રાદેશને પોંડના / કાંબલ સ્થાપના દાંઠ કાંઈક નામ કિલોન પુરી પાડવાની છે. ઠાળોને કીધી જાગી પરા ખાતી રજવાનું મળી, પુનને સંભાળવા માટે જરૂરના પાણીના જરવાનું મુકે છે. માટે પાણીના મીટર ને કાંઈક નામ પાડવાના રહેશે અને વિનિઃ કોન જાગવાવાનું છે.

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]