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Ports and
Logistics

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

Date: 29/05/2019

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

Dear Sir,

Sub.:- Six Monthly Compliance Report of Environment and CRZ Clearance for the period from **October 2018 to March 2019.**

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.
3) Mail dated 29.05.2019 for submission of compliance.

Please find enclosed herewith point wise compliance report (Soft copy in a CD) of conditions stipulated in the above referred letters, the same was also forwarded through mail dated 29.05.2019 (Reference 3 above).

Thanking you,

Yours Faithfully,

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

[Signature]
(Authorized Signatory)

Copy to:

1. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
2. The Director, Forest and Environment Department, Block-14, 8th 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).

Encl.:- Mail Copy and CD

Adani Petronet (Dahej) Port Pvt Ltd
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Part A: Six monthly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – III

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

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
	Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	public hearing have been complied with. An action taken report is enclosed as Annexure 1 .
(vii)	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.	Being Complied <ul style="list-style-type: none"> All conditions stipulated in the EC and CRZ clearances are being complied with. A separate six monthly compliance report is being submitted to MoEF&CC and other authorities. All the recommendations and suggestions given by NIO, M/s Chola mandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4. 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 31.03.2019. Last revision in the DMP was done on 01.12.2018.
(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.	Being Complied 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.
(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.	Being Complied Coal being stored at designated stock yard with dust control measures viz. wind screen made of steel of height at least 2 m above the coal stock, water sprinkler arrangement, green belt of suitable trees and scrubs.
(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.	Noted for Compliance. Mechanization of South Berth is yet to be implemented. After project completion coal will be transported through closed conveyor to the coal

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
		stock yard. The alignment of the conveyer will be based on the engineering requirement to meet the objectives.
(xi)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.	Being Complied Regular cleaning of roads is being carried out with the help of two high vacuum road sweeping machine. Regular water sprinkling is carried out by two mobile water tankers.
(xii)	The mangrove plantation of 50 ha shall be under taken in consultation with Gujarat Ecology Commission / State Forest Department.	Complied. The mangrove plantation of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation is enclosed as an Annexure – 2.
(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.	Being Complied <ul style="list-style-type: none"> At mechanized berth of APDPPL, 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. After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.
(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	Being Complied All the construction activities are as per the approval received under CRZ notification 2011 and EIA notification 2006. During Project (Phase III) implementation, it will be ensured that there shall not be any interference with the natural drainage of the area.
(xv)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply.
(xvi)	Necessary arrangements for the treatment of the effluents and solid	Complied. <ul style="list-style-type: none"> Domestic effluent is being treated in

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
	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.	<p>STPs. The treated water confirming to the norms is being used for horticulture purpose.</p> <ul style="list-style-type: none"> The monitoring results of the treated wastewater from STP for the period from October 2018 – March 2019 are enclosed as Annexure –3F. APDPPL regularly submits report to State Pollution Control Board.
(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.	<p>Complied.</p> <p>There is no liquid effluent generation during construction and operation of project. Separate storm water drain network have been provided. Domestic effluent is being transported from generation point to STP in close type Gully Men vehicle. Dedicated Hazardous waste storage area has provided for collection and storage of Hazardous waste.</p>
(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.	<p>Complied.</p> <p>Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2018 to March 2019 are enclosed as Annexure 3C and 3D.</p>
(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.	<p>Being Complied</p> <ul style="list-style-type: none"> No waste or dredged material is dumped so as to disturb the marine ecology Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2018 to March 2019 are enclosed as Annexure 3C and 3D.
(xx)	Marine ecology shall be monitored regularly also in terms of all micro,	<p>Complied.</p> <p>Marine ecology is being monitored</p>

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
	macro and mega floral and faunal components of marine biodiversity.	through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October 2018 to March 2019 are enclosed as Annexure 3C and 3D.
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Complied. <ul style="list-style-type: none"> APDPPL is having well established Oil Spill Contingency Plan. There is no Oil spill reported during the period of October 2018 to March 2019. Periodic Mock drills are conducted. Latest mock drill was conducted on 31.03.2019.
(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.	Being Complied 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 Annexure 4.
(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.	Being Complied 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"> DG sets are installed as per the approval. Periodic Monitoring of DG set Stack emission & noise is being carried out M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Test reports of emission from DG sets are enclosed as Annexure 3H.

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
(xxv)	All the mechanized handling systems and other associated equipment's such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.	Being Complied <ul style="list-style-type: none"> 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. After mechanization of south berth, desired pollution control measures shall be made as a part of material handling system.
(xxvi)	No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.	Complied. APDPPL is handling dry cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.
(xxvii)	The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	Complied. The quality of treated effluents, solid wastes, emissions and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited and MoEF recognised laboratory. Monitoring Reports for the period of October 2018 to March 2019 is enclosed as Annexure 3 .
(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.	Being Complied <ul style="list-style-type: none"> All the recommendations and suggestions given by NIO, M/s Chalamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4.
(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	Complied. The CSR activities are executed at group

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
	socio- economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of October 2018 to March 2019 is attached as Annexure – 8 .
(xxxix)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 7 .
(xxxix)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), Closed Conveyor System Maintenance etc. The allocation of budget for the FY 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the FY 2018-19 is enclosed as Annexure – 6 .
(xxxix)	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Being Complied 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 Annexure – 4 .
(xxxix)	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system, measures to be taken for protection. One set of environmental manual shall be made available at the project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	Complied <ul style="list-style-type: none"> APDPPL has prepared operating manual for all activities and is certified for ISO 14001: 2015, ISO 9001: 2015 and OHSAS 18001: 2007. Complete set of operating manual is available at site. Regular awareness sessions are organized for each level of employee as per the training need identification (TNI) done by HR department.

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
		<ul style="list-style-type: none"> All the schedules and results of environmental monitoring are available at EHS department at project site.
(xxxv)	<p>Corporate Social Responsibility:</p> <ol style="list-style-type: none"> 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 the environmental clearance conditions shall be furnished. 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. 	<ul style="list-style-type: none"> Being Complied Company has an Environment Policy. All the requirements mention in the condition are being met through Environment Management System (ISO 14001:2015). The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions (Environment Cell Organogram) is enclosed as Annexure – 7. APDPPL has form a management review committee-comprising of various heads of departments and chaired by site head. This review committee meets once in six month to review and monitor EHS performance of the site. All action items are being recorded and implemented.
B. General Conditions.		
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	<p>Being Complied</p> <p>There is no digging activities except piling and foundation works of structures. Appropriate measures are being taken during such activities. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Copies of reports are enclosed as Annexure 3B.</p>

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
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.	Being Complied <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc. Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the APDPPL full support is extended and APDPPL provides all additional information seek by them during the inspection.
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Noted and Complied. APDPPL is regularly submitting six monthly compliance reports which comprises of compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports and EMP Status etc. and Last submission was on done vide letter No. APPPL-EHS/MOEF RO/EC Comp (III) dated 26.11.2018.
iv	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with	Noted and Agreed.
v	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted & Agreed.
vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made 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	Complied

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
	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"> Financial closure date for the project is 29/10/2014. Consent to Establish from Gujarat Pollution control Board is obtained on 08/09/2015. Start of land development (23 Ha. reclamation) work 17.10.2017.
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 Copy of the clearance letter is submitted to concern Panchayat/ local NGO by hand and by register speed post. Copy of the acknowledgement and receipt of speed post were submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
ix	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days	Complied This condition does not belong the project proponent, however, APDPPL has submitted request letter along with a copy of environment clearance letter for display to Gujarat Pollution Control Board, District Industries Centre and Collector's Office vide letter dated 27.10.2016.
11	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted & Agreed
12	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents	Complied <ul style="list-style-type: none"> For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2019. Forest clearance has been taken for 38 ha of land (Phase II) vide letter no A-1006(10-9)SF-76-K dated 1st July

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
	from the respective competent authorities.	<p>2008 from DOEF.</p> <ul style="list-style-type: none"> • Clarence from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16th June 2008. • Fire NOC: Not Applicable. • Civil Aviation: Not Applicable. • Permission under Wildlife (Protection) Act, 1972: Not Applicable.
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 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.	<p>Complied</p> <ul style="list-style-type: none"> • Environment clearance letter is publish in "Indian Express" and "Gujarat Guardian" newspapers on dated 25th October 2016 which is within 7 days of from the date of the receipt of clearance letter. Copy of advertisement has been submitted to Regional Office MOEF on 28th October 2016 vide letter no APDPPL/MOEF-RO/01/2016. Copy of the same was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (II), dated 28.11.2017.
14	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<p>Complied.</p> <p>The status of environment clearance conditions is available on company website that i.e. www.adaniports.com/ports-downloads</p>
16	Any appeal against this Clearance shall lie with the National 18 Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of The National Green Tribunal, Act, 2010.	Noted.

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
17	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla 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.	Complied <ul style="list-style-type: none"> Copy of the clearance letter is submitted to concerned Panchayat, Zila Parishad, local body and the local NGO by hand and registers speed post. Copy of the acknowledgement and receipt of speed post was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) , dated 28.11.2017. Copy of environment clearance is also available on company website i.e. www.adaniports.com/ports-downloads
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 <ul style="list-style-type: none"> Compliance reports along with monitored data are available on company website i.e. www.adaniports.com/ports-downloads Same is being regularly submitted to concerned authorities. Last submission was on 26.11.2018.
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 <ul style="list-style-type: none"> Environment statement regularly being submitted to Gujarat Pollution Control Board. Last report was submitted dated 25th May 2018. Copy of report is also available on company website i.e. www.adaniports.com/ports-downloads Same has been sent by email to RO, MoEF on 03.12.2018.

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"> All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006. No activity or work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.
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 them 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 completed 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.	Being Complied <ul style="list-style-type: none"> APDPPL is handling dry cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011 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 31.03.2019. Last revision in the DMP was done on 01.12.2018.
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	Complied <ul style="list-style-type: none"> Consent to establish has already been obtained vide GPCB/BRCH-B/CCA-06(6)/ID 31664/326835 dated 08/09/2015. For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2019. Forest clearance has been taken for 38 ha of land (Phase II) vide letter no A-1006(10-9)SF-76-K dated 1st July 2008 from DOEF.

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
		<ul style="list-style-type: none"> Clarence from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16th June 2008.
6	The APDPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	<p>Complied</p> <p>There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.</p>
7	All the recommendation and suggestions given by Cholamanadalam MS Risk Services Limited, Chennai in their Environment Impact Assessment reports for conservation / protection and betterment of environment shall be implemented strictly by M/s APDPPL.	<p>Being Compiled</p> <ul style="list-style-type: none"> 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 Annexure 4.
8	The construction and operational shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal/ marine habitats. The construction activities shall be carried out only under the guidance / supervision of the reputed institute/ organization.	<p>Being Complied</p> <ul style="list-style-type: none"> Construction and operation activities are being done in such a way that there is no impact on the mangroves. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity. Gujarat Marine Board is regularly monitoring the project progress.
9	The construction debris and/or any other type of waste shall not be disposed of into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	<p>Complied</p> <ul style="list-style-type: none"> No debris or other construction waste is being disposed into the sea, creek or in CRZ areas. Reclamation of the area is being done as per the approval received.
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.	<p>Complied</p> <p>No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.</p>
11	M/s APDPPL shall prepare and regularly update the local oil spill	<p>Complied</p> <ul style="list-style-type: none"> Oil Spill Contingency Plan is submitted

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
	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.	to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. <ul style="list-style-type: none"> 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 31.03.2019. Last revision in the DMP was done on 01.12.2018.
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 18.0 ha including periphery of the project boundary. Detailed plan of the green belt development plan is enclosed as Annexure 5 .
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.	Complied. The mangrove plantation of 50 ha has completed at Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha mangrove plantation is enclosed as an Annexure – 2.
17	The APDPPL shall have to take up bio-shielding development programme in consultation with the Forests	Being Complied Area identification for Bio shield project is under progress.

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
	Department/ PCCF and an action plan in this regard shall have to be submitted to the MoEF&CC – GOI and this department.	
18	M/s APDPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector / District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of October 2018 to March 2019 is attached as Annexure – 8 .
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove plantation and details thereof shall be furnished to this department as well as the MoEF&CC, GOI. The details with respect to the expenditure from this budget head shall also be furnished alongwith the compliance report.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), Closed Conveyor System Maintenance and etc. The allocation of revenue budget for Environment Cell for the FY 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the FY 2018-19 is enclosed as Annexure – 6 .
20	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 7 .
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.	Being Complied <ul style="list-style-type: none"> The quality of ambient air, treated effluents, sea water and sediment, ground water and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited agency. Monitoring Reports for the period of October 2018 to March 2019 is enclosed as Annexure 3. Report confirms that there is no significant change in the quality in

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
		comparison to base line (wherever available)
22	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s APDPPL on a regular basis to this Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	<p>Complying with.</p> <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports, status of EMP etc. Last submission was done on vide letter No. APPPL-EHS/MOEF RO/EC Comp (III) Dated 26.11.2018.
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.	<p>Noted and agreed to comply with</p> <p>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.</p>

Annexure – 1
Action taken on PH commitments

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 31/03/2019
1.	Shri ManaharbhaiGohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> Participating the public hearing he said that, he has studied the EIA report which is misleading. 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. All the improvements made by the unit are only during last three months. Tyre washing of Vehicle is not carried out. Equipment's 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"> Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road. Transportation of coal through trucks should be stopped. Precautions should be taken to 		After completing his representation, he immediately left the venue.	Reply sent on 18 th March 2015 as he immediately left the venue. No further action is required. Copy already submitted to MoEF as a part of EIA Annexure -16.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<p>avoid fire in coal storage area.</p> <p>4. "Court Commission" should be appointed for evaluation of current environmental condition of the company.</p> <ul style="list-style-type: none"> 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. 			
2.	Shri Pushkarsinh Rana, Village Dahej	<ul style="list-style-type: none"> 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 Lakhigam itself and requested to appraise the site criteria for Public Hearing He asked that how many pages are used in EIA report and in comparison how many pages are used in Executive summary. 	<ul style="list-style-type: none"> Project Proponent informed that the decision rights for selection of location for the Public Hearing are with GPCB and normally PH location is decided based on the Notification of EC of MoEF. 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. 	Regional Officer, GPCB clarified that w.r.t. selection of location for public hearing, the words used in the EIA notification are "at the project site or in close proximity" with this consideration as well as the availability of large ground area suitable for parking and accommodating as many people as possible, the Luvara village is selected as preferred location for public hearing as the same is 2 km away from the project site.	<p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> • He told that Executive Summary is of only 25 pages and that are very less as compared to pages of EIA report and it shows that company has hidden many information which is not acceptable to us. He also informed that this is a draft report only but the proponent never informing us whether clarifications are included in final EIA report or not? • 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? • What is meaning of MOEF? 	<ul style="list-style-type: none"> • Executive Summary is prepared as per the guidelines under EIA Notification. The more pages are due to various annexures. • 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. • 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. • The Project Proponent replied that MOEF stands for Ministry of 	<p>Dist. Collector has informed to Project Proponent to communicate the changes made in the draft EIA while finalizing the EIA to the concern representative.</p>	<p>After obtaining CRZ recommendations from GCZMA vide their letter 14th March 2016, we have informed the concerned person about final EIA report for the proposed project and the source of availability on the MoEF website vide letter dated 17.03.2016 . No further action is required.</p> <p>No further action</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> 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 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 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. Executive Summary includes widening of the Road and he asked which roads are to be widened. 	<p>Forest and Environment, Government of India</p> <ul style="list-style-type: none"> The project proponent replied that there is no habitation in the inter tidal land, proposed for reclamation The project proponent replied that verification will be done for Hindalco and Birla Copper and necessary changes will be made if, any. 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 The project proponent replied that proposal includes widening of the existing rubble bund which is inside the port. 	<p>Dist. Collector informed the villagers to make to the point representation and also drew their attention that if, they make proper representation then and then only their concern will reach to the appropriate authorities and we are here for the same purpose.</p>	<p>required</p> <p>No further action required.</p> <p>It is verified. No changes done.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> The proposed expansion is for the increase of capacity from 11.7 MMTP against the current actual handling which is less than 11.7 MMTP. So how pollution will be controlled for this expansion of capacity? 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 	<ul style="list-style-type: none"> The project proponent replied that proposed expansion is for increasing the handling capacity from 11.7 MMTPA to 23 MMTPA and by doing this there will be reduction in pollution. We are having two jetties one in North direction and another in South direction. North Jetty is mechanized whereas In South jetty transportation of coal up to storage yard is being carried out through trucks. The proposed expansion includes mechanization of south jetty and transportation of coal through conveyor. Therefore, minimal transportation will be done through tucks. Therefore, there will be overall reduction in pollution due to 75% reduction of truck movement. 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. 	<p>Regarding the role of GIDC and GPCB, Dist. Collector clarified that Govt. is working for the people only.</p>	<p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<p>same is also informed to GIDC and GPCB but complaints have remained on papers only.</p> <ul style="list-style-type: none"> 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. Will there be any increase of capacity of railway loading silo and related infrastructure? No employment is given to land looser of railway yard. Company should give Assurance for employment to land losers. The responsible officers of GIDC 	<ul style="list-style-type: none"> 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. Shri. Amish Trivedi, Representative of the project proponent replied that GIDC has allotted land on ROU basis and land for S&S yard given on lease basis. The Land acquisition is done as per agreement between land owner and GIDC. Company representative Mr. P. N. Roy chowdhury replied that there is no employment policy for land looser of ROU land. Only GIDC can answer on this 		<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</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<p>should also be required to remain present during Public Hearing.</p> <ul style="list-style-type: none"> I am unable to understand data shown in 3.1 w.r.t. ambient air quality therefore, I request to explain 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. 	<p>issue.</p> <ul style="list-style-type: none"> The project proponent replied that in India, norms of ambient air quality are already decided and parameters like PM10, PM2.5, SO₂NO_x 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. 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 		<p>action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> As per Executive summary it is mentioned that tyre washing of vehicles is done but same is not being carried out. 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. I wish good luck to company with hope to do better work for environment. 	<p>MT and in 2011-12 It was 12914 MT.</p> <ul style="list-style-type: none"> 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 1st June, 2015. Project proponent replied that we welcome your suggestions. Necessary survey will be done and appropriate steps will be taken. Project proponent conveyed thanks for his encouraging words. 		<p>Tyre washing facility is in place and other measures will be taken during construction and operation phase.</p> <p>No change in the route is required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
3.	ShriJayatibhaiA hir Village - Luvara	<ul style="list-style-type: none"> 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 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. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. 		No further action required.
4.	DahyabhaiGhan abhai Patel Village – Jageshwar	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Written representation made by Shri Dahya bhai is accepted.	No further action required.
5.	Mayurdhvajsinh Village - Dahej	<ul style="list-style-type: none"> Officers of Adani Company are fooling villagers. 			

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 31/03/2019
6.	ShriNareshbhai Village - Lakhigam	<ul style="list-style-type: none"> 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? As shown in the report, monitoring is done at which locations in the village. Pollution reaches to our houses and dust can be seen on the utensils for drinking water. Adani has manipulated with official record. 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 	<ul style="list-style-type: none"> Project proponent replied that with respect to ambient air parameters same are as shown in the table no. 3.1 of Executive summary. Monitoring equipment were placed at the (1) residence of Shri Dilipbhai in Luvara village, (2) residence of Shri Chhotubhai in Jageshwar village, (3) Residence of Shri Ganpatgiri in Ambetha village, (4) P J Chheda High School in Dahej and (5) Primary School in Lakhigam. This is false allegation and not acceptable to us. 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 		<p>No further action required.</p> <p>At present no action is pending</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<p>employment to us on their own.</p> <ul style="list-style-type: none"> Company should think about high pollution levels. 	<p>received from their side.</p> <ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 		No further action required.
7	Shri Kalidas Rayjibhai Patel Sarpanch, Village - Jageshwar	<ul style="list-style-type: none"> In this region people are speaking wrong things. I would like to inform Dist. collector that poor people are exploited. Since 35 years people of Navinagari were not able to sleep peacefully and there was no repairing work was done for their houses but Adani foundation helped in renovation of 120 houses and also supported for food arrangement to masons while constructing houses. 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 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 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. The project proponent has expressed thanks for appreciation. The project proponent has expressed thanks for appreciation. 		<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		created on local people by sarpanch for the work which is not done by them. Adani has provided fishing nets to fishermen. Adivasi's are cutting trees for their survival needs so they should be given some work.			
8	Shri Bhagwanbhai Gohil, Village Paniyadara	<ul style="list-style-type: none"> At which locations EIA reports should be made available EIA report is published on GPCB website is in English. Why it is not published in Gujarati. It should be also given in villages. 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. How much pollution will increase if, handling capacity increase from 11.7 MMTPA to 23 MMTPA. 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. 	<ul style="list-style-type: none"> 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. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. 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 	<p>Regional officer of GPCB replied that EIA report is made available at following offices</p> <ol style="list-style-type: none"> District collector office, Bharuch District Development office, Bharuch District Industries Centre, Bharuch Taluka Development office, Tal. VagraDist.Bharuch Chief Conservator of Forest, Bhopal Regional officer, GPCB, Bharuch 	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>APDPPL is committed to give priority to locals.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> 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? It is requested to announce that problem of coal dust in Lakhabava temple should be controlled 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 	<p>earlier two phase of development as of date 2/3 people are employed for transportation of goods are from Gujarat. Suitable action will be initiated on receipt of order for 85% employment of locals.</p> <ul style="list-style-type: none"> 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. 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. The project proponent replied that we have collected these data from fisheries department. 		<p>No further action required.</p> <p>All the suggested measures are already taken and frequent cleaning will be done as and when needed. No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		regarding visit of GPCB.			
9	Shri Ramanbhai Patel, Village: Luvara	<ul style="list-style-type: none"> Whose development is this? Only companies are growing. It is told to youth that they are locals. Even educated people are not getting employment. 50 students of Luvara village has completed course of ITI under GOLS in 2010-11 organized by GIDC but this certificate is not accepted to companies in Dahej region. It is requested to close this GOLS ITI program because it is not recognized. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
10	Shri Dipakbhai Patel Village: Jageshwar	<ul style="list-style-type: none"> 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. 		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"> 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. 		Dist. Collector has informed that he has come across this issue but as this is not related to this public hearing and It will be taken separately. Even instructions have also come from CMO in this regard. Regarding bogus ITI necessary	No action required from company.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
				actions will be taken from Dist. Collectrate Office.	
12	Shri Sanjaybhai Gohil Village: Lakhigam	<ul style="list-style-type: none"> Officers of various companies provides medical van if, they have expansion project (i.e. when such public hearing to be faced) but if, anybody died near their gate they do not provide any ambulance. Companies are working like Britishers. There are incidences of two deaths on account of brain haemorrhage. Who will be responsible for ill health of children of villages 			No action required from company.
13	Shri Yogeshbhai Patel Village: Lakhigam	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Standards are defined for Noise pollution and measurements are also within the limits, GPCB may also do necessary inquiry. 	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"> Adani foundation has provided support for raising the level of our houses and also constructed anganwadi 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. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. There will not be any impact on fish due to this proposed expansion 		<p>No further action required</p> <p>No further action required</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
15	Shri Kishorbhai Rana Village: Dahej	<ul style="list-style-type: none"> Fishermen of this area are uneducated. It does not make any difference to them that who is running central government. They are in need of the survival of livelihood. I have uploaded the video on you tube for pollution created by Adani Company which you can see. Within the premises of Birla Copper around 100000 Neem trees are planted where foot prints of coal dust is being observed while going to temple. 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. 	<ul style="list-style-type: none"> 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. 		<p>There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.</p> <p>No action required from company.</p>
16	Shri Pradeepbhai Thaker Member of Noise Pollution Environment Committee	<ul style="list-style-type: none"> 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 			

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 31/03/2019
		<p>thereafter public hearing should be organized</p> <ul style="list-style-type: none"> • Company is carrying out the transportation of coal by over loading of the rail rack. There are no established rules and regulations for this. • Dusting problem in Bharuch district is due to transportation of railway rack. If GPCB and MoEF ask than company says that this is the problem of railway. Medical check-up should be conducted in this area to know how many children are malnourished as well as how much impact is occurring to their health. • 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. • 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. • As per our suggestions, problems of ambient air quality have been 	<ul style="list-style-type: none"> • The project proponent replied that issue is pertaining to Railway authority and the importer client. • You may make representation before railway authority. 		No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<p>reduced in one of the company in Ankleshwar.</p> <ul style="list-style-type: none"> We are with the project but being Gujarati businessman you should take care of Gujarat The path for Narmada Parikrama is one km away from here and many people are coming from different regions. No officers from Dahej Industries Association is present in today's public hearing 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 Since, the time of IPCL request for the development of Hospital is made but till date it is on the paper No additional quantity of drinking water is given to village people by GIDC but at the same time industries are provided more water 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 	<ul style="list-style-type: none"> The project proponent requested the representative to mention the village to which he belongs. 	<p>Regional Officer of GPCB informed that Mr. Pradip Thaker is from Ankleshwar area but without clarifying his location in beginning he started</p>	<p>No actions required from company.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		clearance in this regard		representation.	
17	Shri Dimpalben Varmora Moverix Culture and Codes foundation Village: Luvara, Dahej, Lakhigam	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> The project proponent expressed thanks for her appreciation 		Adani foundation is continuing CSR activities in the region. Details are being regularly submitted to MoEF with compliance report and also are part of the presentation given to EAC during the meeting.
18	Shri Rakesh Gohil Village: Lahigam	<ul style="list-style-type: none"> Who has prepared the EIA report and who has certified it 	<ul style="list-style-type: none"> 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 		No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31/03/2019
		<ul style="list-style-type: none"> No physical survey is carried out and during visit permission from Sarpanch should be taken How the mistake like mentioning the name of companies Hindalco and Birla Copper? I am not aware about their visit for physical survey With the issue of passing of Conveyor belt and w.r.t. the issue of land loser the company representative Mr. Trivedi always replies that we are making communication with GIDC but do not provide clarity. 	<ul style="list-style-type: none"> There is adequate information covered in the report and survey is done as per the required procedure. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. 	Collector replied that for the issue of 200 land losers we will meet separately to resolve the issue.	
19	Shri Rekhaben Village: Jageshwar	<ul style="list-style-type: none"> We are thankful to Adani Company for providing us the training on beauty parlour. 	<ul style="list-style-type: none"> The project proponent expressed thanks for appreciation 		No further action required

Annexure - 2
Report of 50 ha Mangrove Plantation

Project Name:

Report on Mangrove Plantation at South Gujarat.

Name of Work:

Consultancy for 50Ha Mangrove Plantation
&
Maintenance at South Gujarat.

Service Order No: 5700215896 dtd.07/07/2017.

Period of Work: July 2017 to December 2018

Reporting Period: September to December 2018

Reporting Work:

Final Report

Name of the Client

ADANI PETRONET (DAHEJ) PORT PVT. LTD,
AT & PO Lakhigam, Taluka-Vagra,
Via Dahej, BHARUCH-392130.

Implementing Agency

SAVE Ltd -

Saline Area Vitalisation Enterprise Limited

Ishavasyam, Opp. Lajpatnagar Society
Eeshita towers Road,
Navrangpura - 380 014
Email: saveltd1995@gmail.com
Tel: 079 - 26404263

FINAL REPORT: 50Ha Mangroves Plantation at Devjagan/Nada.

We had started work on this Project from August 2017, wherein we had selected the 50Ha site at Devjagan/Nada.

We had made a total Nursery of 1,32,470 Plants out of which there was 85% survival and we have finally planted 1,12,600 Plants.

During the Year we faced some damages to the Mangrove Plants due to rains and some heavy tide issues. This had created gap in plantation in about 6Ha of the area. We had made a nursery of 21000 plants. Finally, we planted 18000 plants from this and filled the gap during maintenance.

After that we have taken the latest GPRS points which is attached herewith.

The overall Plantation looks good and due to the onset of winter season, the slush is covering up all the gaps properly. The average growth of the Mangrove Plant in this area is around 2.00ft. However, the growth of the Plant is slow.

We have attached herewith some latest pictures along with the GPRS points map, both Old and latest.

Please find attached herewith **Invoice no. GST-39/2018-19** dated **23/11/2018** for **Rs.1,51,040/-** (including GST) as per the Service Order mandate as under:

Sr. No	Description	Month	Percentage	Requirement of Document for Payment Process
01	Phase-2. Maintenance and Gap Filling.	November 2018	50	Final Report

Please find attached some pictures of the final work :







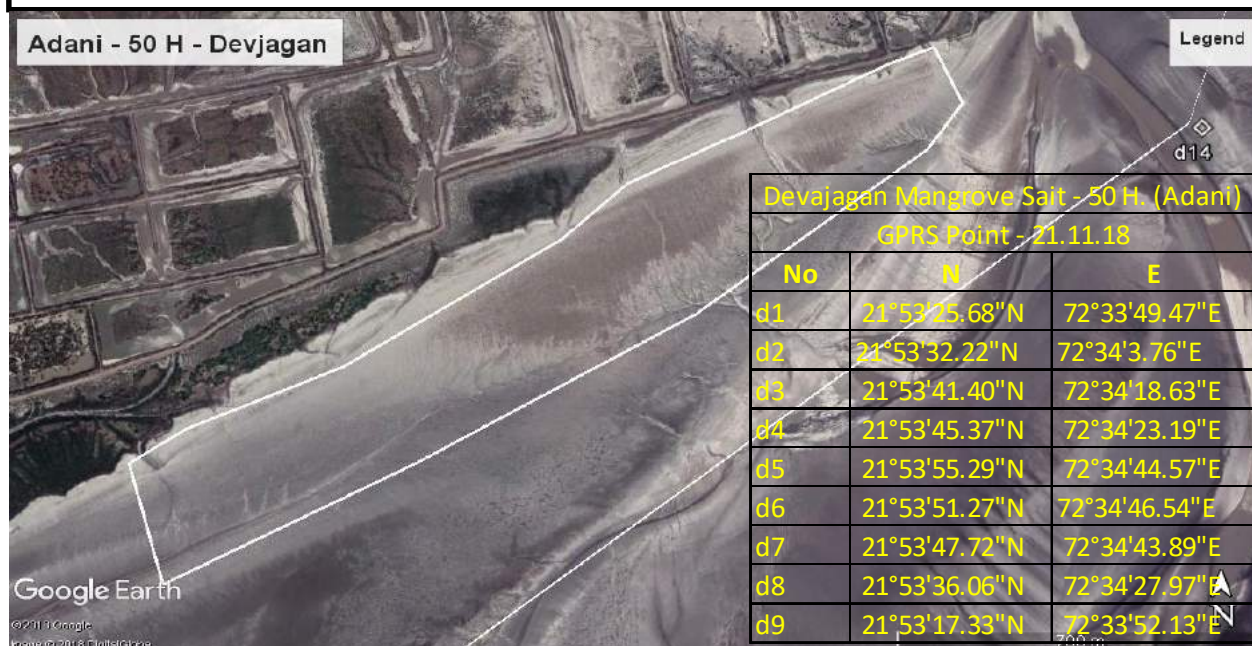
Mangrove Plantation Map – Devjagan. – 50 H. (Adani)

Date 08.08.17



Mangrove Plantation Map – Devjagan. – 50 H. (Adani)

Date 21.11.18





INVOICE

SALINE AREA VITALISATION ENTERPRISE LTD

ISHAVASYAM

Opp. Lajpatnagar, Eeshita Towers Road,

Navrangpura, Navjeevan, Ahmedabad - 380 014.

Tel/Fax: 079 - 2640 3715 / 2640 4263

Email: saveitd@vsnl.net

www.divadandi.com

INVOICE: GST-39/2018-19

Name of the Company : ADANI PETRONET (DAHEJ) PORT PVT. LTD

Registered Office Address: AT & PO LAKHIGAM, TALUKA - VAGRA,
VIA DAHEJ,

BHARUCH - 392130 GUJARAT, INDIA

Phone: 079 2655 5801 Fax: 079 2655 5803

Project Name: Mangrove Plantation South Gujarat

Name of Work : Consultancy for 50 Ha. Mangrove Plantation &
maintainance at South Gujarat

Bill date: 23/11/2018

Service Order No. 5700215896 Dated :07/07/2017

PAN NO. AAECA5046R

GST NO. 24AAECA5046R1ZD

Period of Work - July 2017 to December 2018

Particulars of item	BOQ Details				Upto Previous Bills		This Bill		Upto Date	
	UOM	Rate (Rs.)	Qty	Amt (Rs.)	Qty	Amt (Rs.)	Qty	Amt (Rs.)	Qty	Amt (Rs.)
Initiation of Project -Mangrove Plantation of 50 Ha. FY 2017-2018	Phase - I	14,94,000	1	14,94,000	NA	NA	NA	NA	10%	1,49,400
Start Plantation work direct dibbling & nursery formation & report.	Phase - I	14,94,000	1	14,94,000	NA	NA	NA	NA	20%	2,98,800
Plantation Progress Report (30% of Dec 2017 & 20% of February 2018)	Phase - I	14,94,000	1	14,94,000	NA	NA	NA	NA	50%	7,47,000
Plantation Progress Report & Final (20% of May 2018)	Phase - I	14,94,000	1	14,94,000	NA	NA	NA	NA	20%	2,98,800
Maintenance & Gap Filling	Phase - II	2,56,000	1	2,56,000	NA	NA	NA	NA	50%	1,28,000
Maintenance & Gap Filling - Final Report	Phase - II	2,56,000	1	2,56,000	NA	NA	50%	1,28,000	50%	1,28,000
Total Rs.								1,28,000		
								1,28,000		
PAN NO: AACCS1343P							CGST RATE	9.00%	11,520	
SERVICE TAX NO:							SGST RATE	9.00%	11,520	
AACCS1343PST001										
GST Number : 24AACCS1343P1Z9							TOTAL TAX	18.00%	23,040	
TOTAL AMOUNT PAYABLE								1,51,040		

For, Saline Area Vitalization Enterprise Limited



Authorised Signatory


Environment Monitoring Report for the period from October-18 to March-19
3A. AMBIENT AIR QUALITY MONITORING: -
Table No.: 1.1 - Ambient Air Quality Monitoring Results At Near Marine Building

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	90.62	51.63	0.65	BDL*	2.43	10.60	0.55	BDL*	25.17	14.39	41.61	27.62
2	05/10/2018	82.39	48.63	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	20.37	23.23	36.56	21.53
3	09/10/2018	72.30	32.78	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	43.24	20.41	32.53	29.20
4	12/10/2018	95.59	49.71	0.74	BDL*	2.56	10.88	0.54	BDL*	38.38	16.53	40.39	23.47
5	16/10/2018	83.59	39.39	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	52.39	24.75	38.25	18.72
6	19/10/2018	73.56	45.39	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	30.47	21.52	45.68	20.64
7	23/10/2018	91.24	37.52	0.53	BDL*	2.72	10.55	0.61	BDL*	36.89	9.38	30.42	25.85
8	26/10/2018	76.39	42.60	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	41.79	22.74	33.56	22.70
9	30/10/2018	89.55	35.32	BDL*	BDL*	2.65	10.38	0.58	BDL*	32.95	19.53	42.64	24.49
10	02/11/2018	88.65	36.86	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	20.64	19.36	27.63	30.47
11	06/11/2018	95.36	55.62	0.82	BDL*	2.86	10.59	0.94	BDL*	25.49	25.70	33.76	25.36
12	09/11/2018	83.57	40.60	0.58	BDL*	2.26	10.86	0.89	BDL*	51.27	17.64	30.37	18.46
13	13/11/2018	70.41	38.31	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	45.59	15.69	23.85	21.76
14	16/11/2018	86.64	47.21	BDL*	BDL*	BDL*	10.38	0.63	BDL*	56.32	20.37	41.26	24.63
15	20/11/2018	91.38	39.40	0.76	BDL*	2.34	10.78	0.48	BDL*	28.33	24.68	39.53	28.50
16	23/11/2018	78.65	35.40	0.64	BDL*	BDL*	BDL*	0.87	BDL*	41.49	10.48	26.42	22.77
17	27/11/2018	89.27	49.21	BDL*	BDL*	2.46	BDL*	0.16	BDL*	37.39	23.66	37.22	26.80
18	30/11/2018	94.24	52.29	0.86	BDL*	2.56	10.55	0.73	BDL*	34.39	18.50	40.23	20.75
19	04/12/2018	70.42	39.73	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	26.86	13.50	32.47	23.63
20	07/12/2018	86.77	42.47	0.56	BDL*	2.34	10.41	0.33	BDL*	39.28	24.36	39.53	27.30
21	11/12/2018	79.37	36.36	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	44.29	21.41	28.51	30.26
22	14/12/2018	90.43	54.54	0.69	BDL*	2.38	10.43	0.63	BDL*	52.66	14.55	41.29	22.81
23	18/12/2018	72.42	33.46	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	40.39	19.35	45.44	15.46
24	21/12/2018	89.64	48.38	0.76	BDL*	2.72	10.58	0.68	BDL*	29.59	20.67	31.72	25.74

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"Pollucon House", Plot No.5/6, Opp.Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

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25	25/12/2018	75.51	44.35	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	37.59	25.40	38.43	18.13
26	28/12/2018	87.54	50.04	0.84	BDL*	2.62	10.86	0.84	BDL*	42.79	18.44	43.56	21.33
27	01/01/2019	89.71	43.72	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	50.39	26.34	44.37	25.60
28	04/01/2019	98.33	53.62	0.76	BDL*	2.54	10.67	0.82	BDL*	48.31	23.60	37.36	17.57
29	08/01/2019	86.66	52.37	0.61	BDL*	2.36	10.73	0.63	BDL*	43.23	15.80	42.36	27.35
30	11/01/2019	74.59	47.67	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	54.21	17.50	33.57	19.45
31	15/01/2019	82.70	39.60	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	45.46	13.68	31.51	28.40
32	18/01/2019	95.68	54.45	0.68	BDL*	2.68	10.69	0.88	BDL*	31.51	25.49	46.23	15.19
33	22/01/2019	85.33	46.34	BDL*	BDL*	BDL*	10.28	0.36	BDL*	38.26	21.53	34.54	21.62
34	25/01/2019	76.18	38.60	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	57.59	12.34	27.66	20.21
35	29/01/2019	88.73	49.21	0.79	BDL*	2.72	BDL*	0.30	BDL*	32.48	19.70	30.21	14.22
36	01/02/2019	79.65	36.28	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	49.39	17.57	30.93	21.62
37	05/02/2019	88.36	48.34	0.60	BDL*	2.46	10.59	0.66	BDL*	20.51	12.70	34.73	29.21
38	08/02/2019	96.25	46.34	0.76	BDL*	2.84	10.80	0.38	BDL*	51.32	24.36	39.22	15.82
39	12/02/2019	84.22	50.13	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	47.68	18.40	27.64	25.29
40	15/02/2019	70.25	38.31	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	53.41	15.55	24.32	22.87
41	19/02/2019	93.44	52.33	0.82	BDL*	2.94	10.95	0.34	BDL*	30.63	26.42	32.52	18.48
42	22/02/2019	86.33	43.80	0.80	BDL*	2.56	10.32	0.60	BDL*	42.22	23.22	36.28	28.40
43	26/02/2019	78.30	40.68	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	36.42	20.40	28.48	30.49
44	01/03/2019	71.64	34.69	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	25.42	20.57	25.67	19.42
45	05/03/2019	90.47	51.42	0.81	BDL*	2.64	10.45	0.53	BDL*	52.51	17.25	31.32	28.35
46	08/03/2019	80.43	42.64	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	44.67	21.55	44.27	23.50
47	12/03/2019	89.37	49.30	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	39.44	26.52	38.49	21.77
48	15/03/2019	91.63	53.51	0.68	BDL*	2.54	10.51	0.96	BDL*	50.40	22.63	35.49	26.40
49	19/03/2019	87.69	45.72	0.55	BDL*	2.76	10.48	0.71	BDL*	48.47	11.39	30.52	17.31
50	22/03/2019	78.56	33.82	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	36.51	18.62	27.69	29.54
51	26/03/2019	94.58	54.33	0.74	BDL*	2.85	10.73	0.49	BDL*	40.31	27.57	36.64	24.68
52	29/03/2019	86.43	38.60	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	45.38	16.58	40.32	20.79

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

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

Authorized Signatory

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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	62.68	27.28	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	40.27	9.60	33.26	15.64
2	05/10/2018	89.49	42.32	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	15.59	10.51	28.62	19.53
3	09/10/2018	59.32	23.41	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	33.41	8.69	22.16	21.26
4	12/10/2018	82.30	46.36	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	30.56	20.56	30.52	30.10
5	16/10/2018	68.39	28.49	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	39.68	18.70	25.30	25.48
6	19/10/2018	52.61	34.28	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	23.57	14.62	34.33	22.34
7	23/10/2018	78.92	30.70	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	43.35	6.52	18.57	16.46
8	26/10/2018	66.53	35.74	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	47.88	16.41	21.27	18.29
9	30/10/2018	72.63	32.45	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	34.59	11.62	29.64	26.38
10	02/11/2018	79.30	40.49	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	29.65	13.47	23.53	28.37
11	06/11/2018	84.60	36.78	0.56	BDL*	2.56	10.46	0.32	BDL*	40.33	19.50	26.32	15.32
12	09/11/2018	68.28	32.28	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	19.69	6.53	17.68	24.37
13	13/11/2018	55.18	26.49	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	27.47	10.39	20.35	25.58
14	16/11/2018	60.34	22.41	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	23.39	15.48	31.49	19.44
15	20/11/2018	82.28	42.61	0.65	BDL*	BDL*	BDL*	0.18	BDL*	20.35	7.59	22.39	30.39
16	23/11/2018	65.42	29.62	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	46.40	12.75	30.68	17.84
17	27/11/2018	54.31	23.41	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	16.37	8.75	27.51	20.51
18	30/11/2018	66.29	37.61	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	28.73	16.44	18.65	14.25
19	04/12/2018	83.67	43.32	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	42.67	20.41	39.51	21.50
20	07/12/2018	78.31	39.53	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	30.51	16.34	35.37	18.34
21	11/12/2018	52.61	30.28	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	34.52	9.40	32.68	28.70
22	14/12/2018	60.36	22.66	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	31.22	11.34	27.74	23.41
23	18/12/2018	55.40	26.62	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	19.50	6.52	21.60	17.48
24	21/12/2018	71.44	41.36	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	26.34	23.50	38.27	26.50
25	25/12/2018	62.42	28.57	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	44.64	18.20	29.30	20.40
26	28/12/2018	82.64	46.15	BDL*	BDL*	BDL*	10.50	0.58	BDL*	49.28	13.82	24.37	19.44
27	01/01/2019	73.58	31.91	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	40.56	10.68	21.63	23.54



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28	04/01/2019	88.54	45.74	0.66	BDL*	2.34	BDL*	0.23	BDL*	29.57	15.63	25.63	21.25
29	08/01/2019	76.79	34.57	BDL*	BDL*	2.26	BDL*	0.71	BDL*	36.55	22.41	34.50	18.70
30	11/01/2019	62.53	40.61	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	22.42	9.60	38.62	28.34
31	15/01/2019	56.37	25.49	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	30.23	24.81	20.33	20.68
32	18/01/2019	84.66	50.61	0.56	BDL*	2.42	BDL*	0.73	BDL*	25.31	11.60	35.45	22.51
33	22/01/2019	64.36	29.70	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	45.65	17.64	26.73	26.23
34	25/01/2019	70.30	32.70	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	18.67	21.38	31.26	17.64
35	29/01/2019	61.33	20.54	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	37.54	25.37	23.58	24.62
36	01/02/2019	58.29	26.45	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	34.30	14.30	12.69	15.37
37	05/02/2019	69.53	41.53	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	46.52	17.36	29.29	23.85
38	08/02/2019	86.43	38.66	0.64	BDL*	2.54	10.57	0.57	BDL*	33.59	15.43	26.75	19.68
39	12/02/2019	64.51	42.32	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	28.45	10.63	20.44	17.43
40	15/02/2019	79.45	35.61	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	25.35	19.40	27.59	25.65
41	19/02/2019	80.32	43.45	0.54	BDL*	2.46	10.38	0.61	BDL*	22.32	16.24	25.33	27.21
42	22/02/2019	53.72	33.24	BDL*	BDL*	BDL*	10.24	0.40	BDL*	48.34	9.44	21.67	30.30
43	26/02/2019	68.48	37.57	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	45.88	18.55	38.83	24.61
44	01/03/2019	53.48	20.20	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	46.34	16.73	22.63	22.64
45	05/03/2019	76.60	42.49	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	34.63	7.29	17.68	26.23
46	08/03/2019	66.30	28.41	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	20.66	18.70	25.67	16.59
47	12/03/2019	78.45	46.65	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	45.72	22.41	28.50	25.38
48	15/03/2019	86.20	50.32	0.56	BDL*	BDL*	BDL*	0.56	BDL*	26.46	14.61	24.31	23.46
49	19/03/2019	79.43	34.49	BDL*	BDL*	2.65	10.34	0.27	BDL*	40.34	17.71	23.77	20.46
50	22/03/2019	68.67	30.32	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	43.63	12.73	19.43	15.41
51	26/03/2019	81.28	47.32	0.62	BDL*	2.54	10.46	0.19	BDL*	47.27	15.36	27.41	30.28
52	29/03/2019	62.74	27.41	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	36.25	6.39	31.36	28.45

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Ozone as O₃: 10 µg/m³, Lead as Pb: 0.5 µg/m³, Carbon Monoxide as CO: 0.01 mg/m³, Ammonia NH₃: 10 µg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 10 ng/m³

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

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	75.61	33.51	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	43.52	7.51	29.52	18.64
2	05/10/2018	55.68	30.54	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	34.53	15.67	40.24	28.42
3	09/10/2018	63.68	28.67	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	25.66	10.27	25.41	25.26
4	12/10/2018	78.64	43.52	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	19.57	6.11	21.64	17.52
5	16/10/2018	57.37	22.14	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	36.48	16.39	31.62	23.39
6	19/10/2018	70.20	42.40	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	27.64	12.70	23.63	27.16
7	23/10/2018	82.67	34.54	0.64	BDL*	BDL*	BDL*	0.63	BDL*	21.24	14.84	33.41	20.35
8	26/10/2018	48.72	26.53	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	38.30	18.28	24.35	16.19
9	30/10/2018	53.65	20.41	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	29.34	8.32	35.69	30.64
10	02/11/2018	50.57	27.84	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	35.68	10.75	32.53	22.60
11	06/11/2018	60.24	32.49	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	44.52	16.38	23.47	23.43
12	09/11/2018	79.36	29.40	0.53	BDL*	BDL*	BDL*	0.44	BDL*	27.37	14.35	20.46	26.48
13	13/11/2018	64.41	34.59	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	32.91	9.51	15.39	16.81
14	16/11/2018	53.65	18.62	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	37.50	11.24	28.43	28.51
15	20/11/2018	76.44	36.52	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	25.64	13.63	35.36	25.75
16	23/11/2018	59.28	24.19	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	38.42	17.42	38.79	19.23
17	27/11/2018	65.39	20.40	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	21.93	6.69	17.24	24.16
18	30/11/2018	86.32	26.21	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	42.57	12.85	21.26	29.45
19	04/12/2018	76.80	40.56	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	46.58	16.53	30.62	29.66
20	07/12/2018	68.38	31.54	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	35.33	6.40	19.59	25.64
21	11/12/2018	73.24	39.41	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	29.46	15.68	34.57	21.67
22	14/12/2018	84.38	48.22	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	27.61	7.58	37.48	24.31
23	18/12/2018	78.67	34.59	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	12.66	17.55	39.65	26.37
24	21/12/2018	54.63	26.34	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	31.58	11.66	21.75	28.73
25	25/12/2018	75.69	32.54	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	20.30	9.72	25.44	22.70
26	28/12/2018	67.50	38.10	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	16.58	12.53	36.45	30.19
27	01/01/2019	63.75	20.49	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	45.32	15.35	24.57	17.35



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28	04/01/2019	72.69	41.54	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	36.41	11.55	21.38	27.60
29	08/01/2019	81.30	37.89	0.67	BDL*	BDL*	10.21	0.38	BDL*	30.46	10.27	38.52	16.26
30	11/01/2019	67.59	43.65	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	48.24	6.27	26.58	23.64
31	15/01/2019	50.34	21.55	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	38.49	16.82	18.59	25.32
32	18/01/2019	78.65	45.84	BDL*	BDL*	BDL*	10.56	0.45	BDL*	28.29	9.88	27.59	20.82
33	22/01/2019	69.44	26.66	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	21.30	14.37	22.62	18.54
34	25/01/2019	55.70	29.32	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	39.57	17.26	35.80	22.36
35	29/01/2019	83.63	40.73	0.64	BDL*	2.36	BDL*	0.14	BDL*	25.69	8.49	20.58	28.76
36	01/02/2019	74.57	32.56	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	44.60	11.64	20.49	25.32
37	05/02/2019	62.53	29.49	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	15.43	8.71	23.83	18.31
38	08/02/2019	82.41	22.79	0.58	BDL*	2.28	10.45	0.46	BDL*	26.40	6.45	32.56	24.25
39	12/02/2019	72.47	36.56	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	32.51	12.46	31.56	26.51
40	15/02/2019	56.37	25.32	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	37.61	9.22	15.26	20.87
41	19/02/2019	66.46	34.58	BDL*	BDL*	BDL*	10.29	0.68	BDL*	27.65	14.62	22.74	17.69
42	22/02/2019	80.29	47.54	0.72	BDL*	2.18	10.14	0.45	BDL*	39.41	18.28	26.52	19.22
43	26/02/2019	73.61	31.32	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	21.66	10.43	17.58	21.73
44	01/03/2019	58.42	24.40	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	42.43	9.63	19.27	15.77
45	05/03/2019	65.34	35.67	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	29.51	6.30	22.45	22.47
46	08/03/2019	55.69	23.66	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	25.52	14.30	29.51	21.32
47	12/03/2019	83.32	39.45	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	30.93	11.67	25.50	16.41
48	15/03/2019	76.25	46.29	BDL*	BDL*	2.16	BDL*	0.33	BDL*	41.70	20.37	32.42	18.66
49	19/03/2019	64.52	27.28	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	26.45	8.58	34.27	23.72
50	22/03/2019	54.31	22.40	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	18.69	19.34	15.41	27.37
51	26/03/2019	62.53	36.54	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	38.42	24.41	21.73	25.23
52	29/03/2019	69.42	30.46	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	28.52	10.43	24.65	19.46

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Ozone as O₃: 10 µg/m³, Lead as Pb: 0.5 µg/m³, Carbon Monoxide as CO: 0.01 mg/m³, Ammonia NH₃: 10 µg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 10 ng/m³

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

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	67.53	30.22	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	32.67	11.54	19.58	25.65
2	05/10/2018	74.59	39.24	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	24.40	13.55	25.67	16.50
3	09/10/2018	46.51	21.50	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	37.44	6.19	15.38	23.57
4	12/10/2018	54.30	31.27	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	41.25	9.43	24.65	18.30
5	16/10/2018	62.41	25.67	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	30.29	14.22	18.39	21.30
6	19/10/2018	58.36	29.56	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	20.78	8.89	27.88	15.50
7	23/10/2018	65.63	23.35	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	40.29	10.56	21.52	28.36
8	26/10/2018	70.36	38.70	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	29.67	15.56	31.21	20.89
9	30/10/2018	59.25	26.22	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	23.47	17.41	22.56	22.55
10	02/11/2018	64.48	32.65	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	25.91	17.32	18.32	18.39
11	06/11/2018	71.18	40.29	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	19.61	14.56	38.44	20.59
12	09/11/2018	50.41	20.29	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	38.64	7.66	27.35	28.73
13	13/11/2018	63.67	22.79	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	35.37	12.58	33.62	15.65
14	16/11/2018	75.66	34.48	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	29.47	6.86	21.79	22.40
15	20/11/2018	68.33	24.30	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	15.35	16.50	25.71	19.61
16	23/11/2018	48.40	21.21	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	34.20	8.67	22.32	24.25
17	27/11/2018	78.70	35.61	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	42.40	13.50	20.12	29.25
18	30/11/2018	57.58	19.20	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	12.39	9.22	15.78	17.19
19	04/12/2018	61.77	34.32	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	30.37	22.87	38.62	16.51
20	07/12/2018	54.30	26.54	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	23.65	9.54	26.32	22.55
21	11/12/2018	68.79	22.58	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	39.53	18.69	40.26	26.68
22	14/12/2018	76.68	45.50	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	15.40	10.20	30.32	20.57
23	18/12/2018	66.43	30.43	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	28.40	15.36	36.63	23.59
24	21/12/2018	59.34	33.69	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	18.30	17.60	28.60	21.27
25	25/12/2018	67.50	25.49	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	41.60	13.42	33.47	15.38
26	28/12/2018	74.36	41.58	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	33.54	11.49	29.33	24.47
27	01/01/2019	50.44	28.64	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	31.38	18.45	29.58	27.53

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28	04/01/2019	46.39	23.81	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	24.31	8.31	16.30	15.34
29	08/01/2019	55.75	25.38	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	40.28	19.50	28.61	25.40
30	11/01/2019	49.43	33.65	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	38.63	11.63	23.46	17.82
31	15/01/2019	61.33	29.31	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	25.45	10.38	35.79	14.39
32	18/01/2019	70.70	37.32	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	20.68	7.24	32.41	24.54
33	22/01/2019	57.62	19.54	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	42.59	12.56	19.33	20.95
34	25/01/2019	47.56	17.37	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	29.69	6.57	24.26	16.48
35	29/01/2019	52.35	24.55	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	22.15	13.17	17.58	19.36
36	01/02/2019	53.56	23.67	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	25.61	9.57	15.74	19.51
37	05/02/2019	48.52	19.41	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	29.89	15.31	20.72	27.50
38	08/02/2019	72.34	26.34	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	46.71	13.22	17.94	28.86
39	12/02/2019	58.48	31.56	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	36.75	8.40	37.76	21.58
40	15/02/2019	45.40	15.40	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	30.20	6.67	21.34	15.60
41	19/02/2019	76.88	39.37	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	15.37	12.69	29.51	20.26
42	22/02/2019	68.33	24.57	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	33.22	7.66	16.57	23.62
43	26/02/2019	56.39	28.68	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	42.59	16.36	22.86	29.30
44	01/03/2019	67.38	30.35	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	32.58	6.61	14.40	24.57
45	05/03/2019	51.82	27.63	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	42.74	9.40	25.45	20.36
46	08/03/2019	74.34	33.61	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	38.42	11.28	34.44	17.72
47	12/03/2019	66.48	29.26	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	34.34	13.71	31.68	23.72
48	15/03/2019	59.36	24.63	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	29.67	18.46	28.22	28.28
49	19/03/2019	69.41	31.27	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	17.57	15.38	19.42	16.27
50	22/03/2019	81.31	36.26	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	13.68	10.60	32.73	19.31
51	26/03/2019	68.46	40.45	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	33.61	12.40	29.28	15.29
52	29/03/2019	50.71	20.58	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	23.65	8.39	18.36	22.79

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Ozone as O₃: 10 µg/m³, Lead as Pb: 0.5 µg/m³, Carbon Monoxide as CO: 0.01 mg/m³, Ammonia NH₃: 10 µg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 10 ng/m³

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	57.88	22.37	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	36.35	17.69	36.31	20.26
2	05/10/2018	49.32	29.63	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	40.83	6.41	22.67	22.65
3	09/10/2018	52.69	25.39	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	49.27	12.62	18.60	17.29
4	12/10/2018	68.31	34.62	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	25.40	14.51	27.59	15.29
5	16/10/2018	72.38	30.47	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	22.42	9.52	15.63	27.57
6	19/10/2018	64.29	36.55	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	35.70	18.34	37.52	16.31
7	23/10/2018	70.32	27.53	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	24.65	16.24	23.54	19.27
8	26/10/2018	61.21	33.20	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	33.56	13.33	28.27	26.90
9	30/10/2018	44.62	19.64	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	26.26	10.64	19.36	29.40
10	02/11/2018	55.60	21.49	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	41.24	15.53	35.64	24.57
11	06/11/2018	76.37	27.49	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	36.56	22.43	30.53	17.67
12	09/11/2018	61.47	24.59	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	48.32	10.23	23.60	15.40
13	13/11/2018	52.34	18.30	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	18.58	6.80	17.32	19.37
14	16/11/2018	69.33	29.50	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	26.86	12.30	33.39	26.56
15	20/11/2018	71.58	30.51	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	33.62	19.38	31.26	23.57
16	23/11/2018	53.46	17.50	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	29.80	7.49	19.57	20.29
17	27/11/2018	62.38	32.40	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	24.93	16.20	34.33	22.13
18	30/11/2018	75.68	25.31	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	16.31	5.59	24.54	25.47
19	04/12/2018	51.72	28.75	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	37.97	9.65	18.63	18.63
20	07/12/2018	72.56	33.74	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	42.30	18.32	23.61	28.35
21	11/12/2018	58.69	30.22	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	23.46	7.65	30.40	19.57
22	14/12/2018	64.37	36.43	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	19.21	16.14	20.61	17.37
23	18/12/2018	50.66	20.27	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	45.59	11.56	29.13	20.20
24	21/12/2018	65.70	29.59	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	38.51	14.67	16.91	15.69
25	25/12/2018	82.12	37.56	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	25.62	6.48	22.49	24.49
26	28/12/2018	60.23	35.21	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	30.85	15.41	26.49	27.61
27	01/01/2019	68.72	24.30	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	26.53	8.63	16.57	19.27



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28	04/01/2019	55.81	35.30	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	40.81	13.76	32.64	23.47
29	08/01/2019	71.63	29.59	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	18.38	12.68	22.88	20.56
30	11/01/2019	56.75	20.69	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	27.66	20.45	28.99	15.69
31	15/01/2019	66.58	36.55	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	21.51	18.25	26.30	30.26
32	18/01/2019	59.43	33.53	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	41.52	22.52	42.60	18.99
33	22/01/2019	49.30	15.74	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	16.59	9.67	15.26	28.28
34	25/01/2019	64.28	23.33	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	34.53	14.60	21.56	24.30
35	29/01/2019	76.26	34.46	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	29.39	6.83	18.34	29.23
36	01/02/2019	66.62	29.55	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	22.49	6.38	27.36	22.47
37	05/02/2019	54.68	36.76	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	41.60	10.29	15.82	25.81
38	08/02/2019	77.58	32.82	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	29.49	9.68	29.42	21.23
39	12/02/2019	68.43	26.19	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	23.45	15.25	23.68	23.47
40	15/02/2019	51.20	21.74	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	19.52	12.30	31.23	18.52
41	19/02/2019	70.29	28.75	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	34.58	18.68	34.62	14.56
42	22/02/2019	59.37	20.35	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	30.55	13.88	38.48	20.72
43	26/02/2019	63.45	34.71	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	26.51	8.43	30.57	16.32
44	01/03/2019	62.47	27.70	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	38.70	11.53	17.54	17.31
45	05/03/2019	59.71	31.35	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	22.40	14.32	28.72	29.35
46	08/03/2019	49.40	20.35	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	35.74	21.31	20.50	24.44
47	12/03/2019	61.29	35.46	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	19.50	6.43	15.70	18.64
48	15/03/2019	52.51	43.73	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	23.48	9.87	21.29	15.81
49	19/03/2019	73.86	23.42	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	33.49	13.56	16.50	21.67
50	22/03/2019	63.51	25.43	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	26.32	8.64	24.43	25.48
51	26/03/2019	76.80	44.49	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	31.57	10.35	31.52	19.74
52	29/03/2019	57.39	24.55	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	27.60	12.45	34.75	16.39

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Ozone as O₃: 10 µg/m³, Lead as Pb: 0.5 µg/m³, Carbon Monoxide as CO: 0.01 mg/m³, Ammonia NH₃: 10 µg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 10 ng/m³

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

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2018	95.32	55.69	0.72	BDL*	2.62	10.74	0.62	BDL*	52.52	12.59	44.25	22.43
2	05/10/2018	76.33	45.62	BDL*	BDL*	BDL*	10.14	0.73	BDL*	38.61	25.36	32.13	29.68
3	09/10/2018	80.23	36.47	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	56.88	17.58	29.32	26.57
4	12/10/2018	90.31	51.26	0.64	BDL*	2.36	11.04	0.81	BDL*	48.58	22.65	37.22	25.29
5	16/10/2018	77.41	35.65	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	25.35	20.65	33.87	20.50
6	19/10/2018	84.67	49.23	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	40.56	24.57	41.50	19.35
7	23/10/2018	96.34	40.28	0.75	BDL*	2.86	10.39	0.70	BDL*	28.16	19.67	27.61	23.68
8	26/10/2018	89.65	47.57	BDL*	BDL*	2.34	BDL*	0.66	BDL*	57.90	26.23	36.75	30.26
9	30/10/2018	75.69	34.32	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	44.45	13.54	39.64	21.11
10	02/11/2018	70.64	45.29	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	24.35	21.29	40.22	20.24
11	06/11/2018	90.28	49.31	0.75	BDL*	2.75	10.85	0.55	BDL*	48.77	27.50	44.24	28.12
12	09/11/2018	88.47	43.60	0.62	BDL*	2.56	10.39	0.60	BDL*	55.19	23.43	34.55	21.42
13	13/11/2018	76.33	29.31	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	40.19	20.62	27.49	30.28
14	16/11/2018	81.35	38.38	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	35.74	17.58	35.79	17.53
15	20/11/2018	96.83	53.41	0.80	BDL*	2.86	10.56	0.76	BDL*	46.28	10.43	43.27	24.73
16	23/11/2018	71.27	39.79	0.72	BDL*	BDL*	BDL*	0.80	BDL*	58.49	24.54	41.37	26.28
17	27/11/2018	84.41	44.38	BDL*	BDL*	2.18	BDL*	0.54	BDL*	29.32	18.64	30.17	19.10
18	30/11/2018	79.59	48.32	0.69	BDL*	2.65	10.28	0.24	BDL*	49.21	14.46	33.87	27.67
19	04/12/2018	88.76	50.26	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	53.41	18.57	35.45	27.54
20	07/12/2018	92.41	46.49	0.62	BDL*	2.54	10.28	0.66	BDL*	26.57	22.65	29.48	30.35
21	11/12/2018	85.45	49.27	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	48.69	13.61	44.65	24.61
22	14/12/2018	70.48	39.21	BDL*	BDL*	2.14	10.08	0.53	BDL*	41.32	19.52	22.61	26.27
23	18/12/2018	83.62	37.39	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	34.28	21.58	31.60	29.43
24	21/12/2018	76.38	44.55	0.65	BDL*	2.88	10.34	0.81	BDL*	45.64	25.69	25.55	17.85
25	25/12/2018	87.59	48.52	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	30.49	20.44	42.51	28.29
26	28/12/2018	94.20	53.45	0.72	BDL*	2.26	10.74	0.73	BDL*	28.68	24.17	39.28	15.22
27	01/01/2019	82.57	35.85	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	56.37	20.38	41.27	28.65



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28	04/01/2019	77.62	48.85	0.52	BDL*	2.42	10.79	0.77	BDL*	45.53	18.59	33.40	29.38
29	08/01/2019	93.49	44.34	0.75	BDL*	2.65	10.56	0.57	BDL*	50.22	24.50	39.30	23.89
30	11/01/2019	79.65	37.51	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	42.67	14.54	35.62	20.33
31	15/01/2019	88.83	42.48	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	33.51	26.71	44.52	21.51
32	18/01/2019	90.21	57.34	0.78	BDL*	2.76	10.81	0.69	BDL*	38.54	16.53	29.33	27.65
33	22/01/2019	74.26	34.69	BDL*	BDL*	BDL*	10.34	0.53	BDL*	29.44	23.49	37.52	15.88
34	25/01/2019	85.48	45.79	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	52.43	19.31	42.51	30.47
35	29/01/2019	95.39	53.57	0.71	BDL*	2.85	BDL*	0.19	BDL*	44.58	22.69	26.40	26.29
36	01/02/2019	85.40	39.50	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	54.35	19.68	38.35	29.61
37	05/02/2019	93.61	55.27	0.84	BDL*	BDL*	10.44	0.85	BDL*	24.32	21.26	26.26	20.38
38	08/02/2019	89.48	42.64	0.79	BDL*	2.64	10.81	0.79	BDL*	56.35	26.21	43.57	26.33
39	12/02/2019	77.53	45.67	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	43.46	23.55	29.35	28.36
40	15/02/2019	61.44	28.32	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	48.65	20.19	36.62	23.39
41	19/02/2019	86.38	48.56	0.58	BDL*	2.54	10.66	0.55	BDL*	39.25	24.48	41.34	30.42
42	22/02/2019	94.25	50.22	0.67	BDL*	2.76	10.53	0.71	BDL*	53.53	15.63	31.51	25.77
43	26/02/2019	88.25	47.28	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	32.73	14.71	35.64	19.50
44	01/03/2019	79.38	38.34	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	53.49	18.28	28.42	27.26
45	05/03/2019	82.49	47.57	0.64	BDL*	2.24	10.63	0.31	BDL*	48.66	20.30	34.56	15.41
46	08/03/2019	90.65	37.76	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	55.42	23.70	38.54	28.68
47	12/03/2019	71.59	43.26	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	41.29	16.34	33.29	26.62
48	15/03/2019	80.56	56.43	0.75	BDL*	2.36	10.32	0.82	BDL*	34.20	24.26	42.84	20.43
49	19/03/2019	92.45	42.40	0.88	BDL*	2.84	10.24	0.47	BDL*	30.28	19.28	39.33	29.70
50	22/03/2019	72.85	39.66	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	39.54	21.50	35.75	23.57
51	26/03/2019	86.44	50.34	0.54	BDL*	2.46	10.79	0.73	BDL*	56.28	22.61	40.35	21.38
52	29/03/2019	76.58	35.48	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	31.41	14.46	27.29	24.27

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Ozone as O₃: 10 µg/m³, Lead as Pb: 0.5 µg/m³, Carbon Monoxide as CO: 0.01 mg/m³, Ammonia NH₃: 10 µg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 10 ng/m³

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: October-18 to March-19****3B.1 Near Sub Station-7B**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
1	Temperature	°C	30	30.3	29.8	30.2	30.1	31.6
2	pH	--	7.65	7.84	7.95	8.07	7.79	7.75
3	Total Dissolved Solids	mg/L	1246	1460	1842	1911	2134	1641
4	Salinity	ppt	0.3	0.34	0.37	0.41	0.64	0.31
5	Chloride as Cl	mg/L	168	189	210	229	354	171
6	Depth of Water Level from Ground Level	meter	2.1	2.4	2.6	2.8	2.5	3.1
7	Status of Tide	--	Low Tide	Low Tide	Low Tide	Low Tide	Low Tide	Low Tide

3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
1	Temperature	°C	30.2	30.3	29.9	30.2	30.1	31.7
2	pH	--	7.85	7.76	7.96	8.01	7.87	7.65
3	Total Dissolved Solids	mg/L	1190	1298	1584	1760	1432	2196
4	Salinity	ppt	0.27	0.29	0.32	0.35	0.23	0.67
5	Chloride as Cl	mg/L	149	156	178	198	131	372
6	Depth of Water Level from Ground Level	meter	2.3	2.5	2.8	3.0	3.0	2.8
7	Status of Tide	--	Low Tide	Low Tide	Low Tide	Low Tide	Low Tide	Low Tide

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

Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period: October 2018 to March 2019:-

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			OCT-18		NOV-18		DEC-18		JAN-19		FEB-19		MARCH-19	
			23/10/2018		26/11/2018		18/12/2018		24/01/2019		20/02/2019		28/03/2019	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.15	8.03	8.18	8.09	8.19	8.1	8.16	8.14	8.23	8.2	8.17	8.13
2	Temperature	°C	30.4	30.2	30.8	30.5	30.1	30	29.9	29.6	30	29.9	30.2	30
3	Total Suspended Solids	mg/L	396	317	348	296	284	219	368	384	398	428	374	408
4	BOD (3 Days @ 27 °C)	mg/L	7	5	6	2	BDL*	BDL*	4	BDL*	9	BDL*	4.8	BDL*
5	Dissolved Oxygen	mg/L	6.4	6.2	6.3	5.9	6.1	5.8	6	5.7	5.8	5.3	6	5.8
6	Salinity	ppt	31.3	31.1	32.8	32.5	31.6	31.3	31.2	31.5	31	31.4	31.3	31.6
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmol/L	14.8	10.2	13.9	8.4	4.83	3.99	5.92	4.11	3.84	2.35	3.12	2.31
9	Nitrite as NO ₂	µmol/L	3.4	2.1	2.51	1.78	1.96	1.73	1.57	1.16	1.09	0.78	1.23	0.88
10	Ammonical Nitrogen as NH ₃	µmol/L	4	3.8	3.3	2.69	1.8	1.48	2.13	1.67	2.25	1.75	2.16	1.82
11	Phosphates as PO ₄	µmol/L	2.45	2.16	2.08	1.63	2.29	2.07	2.72	2.24	3.36	3.09	3.14	2.82
12	Total Nitrogen	µmol/L	22.2	16.1	19.7	12.87	8.58	7.2	9.62	6.94	7.17	4.88	6.51	5.01
13	Petroleum Hydrocarbon	µg/L	23	14	32	12.8	20	14	16	10	19	BDL*	13	BDL*
14	Total Dissolved Solids	mg/L	34741	34371	34866	34528	35384	34930	35198	35734	35316	35520	35598	37284
15	COD	mg/L	28	16	14	10	19	BDL*	15	BDL*	33	BDL*	23	BDL*
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	2.02	1.35	2.72	1.71	3.37	2.92	4.2	2.4	4.32	3.01	4.61	2.79
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	1.93	1.47	2.34	1.49	2.19	1.72	3	2.8	3.14	2.64	3.54	2.13
17.2	Phaeophytin	mg/m ³	1.48	0.854	1.89	1.2	1.49	1.06	2.27	1.4	2	1.73	3.01	1.45
17.3	Cell Count	Unit x 10 ³ /L	190	82	188	64	172	56	116	72	102	5	130	64
17.4	Name of Group Number and name of group species of each group	--	Navicula Nitzschia Coscinodiscus Thizosolenia Thalassionema	Nitzschia Navicula Synedra --	Navicula Sp. Nitzschia Sp. Coscinodiscus Sp. Chroococcum Sp.	Nitzschia Sp. Navicula Sp. Synedra Sp. Spirulina Sp.	Navicula Sp. Thalassionema Sp. Coscinodiscus Sp.	Navicula Sp. Synedra Sp. --	Nitzschia sp. Coscinodiscus sp. Asterionella sp.	Navicula Sp. Melosira sp. Coscinodiscus sp.	Nitzschia sp. Asterionella sp. --	Navicula Sp. Nitzschia sp. Rhizosolenia sp. Thalassionema sp.	Navicula Sp. Coscinodiscus sp. --	Navicula Sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			OCT-18	NOV-18	DEC-18	JAN-19	FEB-19	MARCH-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
			South Side	South Side	South Side	South Side	South Side	South Side
C	Zooplanktons							
18.1	Abundance (Population)	noX10 ³ /100m ³	36	34	41	39	52	59
18.2	Name of Group Number and name of group species of each group	--	Copypods Polychaetes Gastropods	Copypods Polychaetes Nauplius Larval Ostracods	Copypods Gastropods	Polychaetes Gastropods Decapods	Navicula Cyclops Ostracods	Decapods Gastropods Polychaetes
18.3	Total Biomass	ml/100 m ³	6.9	6.6	5.28	3.1	4.4	5.7
D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1760	1840	1820	1860	1720	1820
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

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

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Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: October 2018 to March 2019:-

SR. NO..	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			OCT-18		NOV-18		DEC-18		JAN-19		FEB-19		MARCH-19	
			23/10/2018		26/11/2018		18/12/2018		24/01/2019		20/02/2019		28/03/2019	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.19	8.11	8.24	8.18	8.28	8.2	8.13	8.1	8.21	8.19	8.19	8.16
2	Temperature	°C	30.7	30.4	30.6	30.9	30	29.8	30	29.8	29.9	29.7	30.1	29.9
3	Total Suspended Solids	mg/L	326	283	384	236	272	210	346	370	383	418	368	377
4	BOD (3 Days @ 27 °C)	mg/L	5.0	2.0	2.0	BDL*	4	BDL*	6	BDL*	7.0	BDL*	5.3	BDL*
5	Dissolved Oxygen	mg/L	6.2	6.1	6.4	5.6	6.0	5.9	6.1	5.8	5.9	5.4	6.1	5.9
6	Salinity	ppt	31.3	31	32.2	31.8	31	30.7	31.3	31.6	30.9	31.3	31.4	31.7
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmol/L	14.8	11.2	14.62	12.2	8.4	6.2	6	4.35	3.53	2.1	3.31	1.5
9	Nitrite as NO ₂	µmol/L	3.2	1.8	2.59	1.65	2.4	1.6	1.63	1.08	0.97	0.74	1.15	0.9
10	Ammonical Nitrogen as NH ₃	µmol/L	3.2	2.1	2.52	2.35	1.74	1.28	2.1	1.73	2.31	1.78	2.21	1.84
11	Phosphates as PO ₄	µmol/L	2.45	1.9	2.5	2.12	2.18	1.97	2.61	2.13	3.26	2.94	2.82	2.45
12	Total Nitrogen	µmol/L	21.2	15.1	19.73	16.2	12	9.0	9.77	7.16	6.81	4.62	6.66	4.23
13	Petroleum Hydrocarbon	µg/L	24	10	26	12.46	18	BDL*	10	BDL*	18	BDL*	21	BDL*
14	Total Dissolved Solids	mg/L	33542	33106	34186	33990	34528	33968	35298	35840	35584	35932	36830	37296
15	COD	mg/L	18	6.0	16	BDL*	15	7.0	16	BDL*	25	13	17	BDL*
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	2.58	1.8	2.11	1.39	4.5	3.6	4.9	2.8	4.05	3.15	5.0	3.24
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	1.69	1.21	2.62	1.1	2.92	2.34	3.53	2.79	3.81	2.25	3.03	2.71
17.2	Phaeophytin	mg/m ³	1.49	1.06	1.48	1	2.49	2.25	2.8	1	2.33	2.13	2.2	1.6
17.3	Cell Count	Unit x 10 ³ /L	204	74	184	76	198	136	120	64	94	58	114	58
17.4	Name of Group Number and name of group species of each group	--	Navicula Nitzschia Thalassiosira Fregilari a Rhizosol eria	Navicula Nitzschia Melosira --	Navicula Sp. Nitzschia Sp. Coscinod iscus Sp. Syndra Sp.	Navicula Sp. Nitzschia Sp. Rhilosole rin Sp. --	Chaetoc ens Sp. Nitzschia Sp. Ceratiza n Sp. Pleurosi gma Sp.	Cyclotell a Sp. Thallassi onema -- --	Nitzschia sp. Scenede smus sp. Navicula sp. Melosira sp.	Synedra sp. Navicula sp. -- --	Nitzschia sp. Scenede smus sp. Navicula sp. Melosira sp.	Synedra sp. Navicula sp. -- --	Nitzschia sp. Coscinod iscus sp. Thallasio nema sp. Asterion ella sp.	Navicula sp. Nitzschia sp. -- --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSISNORTH SIDE					
			OCT-18	NOV-18	DEC-18	JAN-19	FEB-19	MARCH-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
			North Side	North Side	North Side	North Side	North Side	North Side
C	Zooplanktons							
18.1	Abundance (Population)	noX10 ³ /100m ³	38	40	44	35	56	51
18.2	Name of Group Number and name of group species of each group	--	Gastropods Polychates Nematodes Copepods	Polychaetes Oligochaetes Nematodes	Polychaetes Gastropods Nematodes	Nauplius larvae Cyclops Ostracods	Nauplius larvae Cyclops Ostracods	Cyclops Polychaetes Nematodes
18.3	Total Biomass	ml/100 m ³	7.25	7.13	6.2	3.3	4.1	5.4
D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1860	1750	1740	1720	1820	1740
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

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

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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis (South Side) Results for the period: October 2018 to March 2019

Sr. No	PARAMETERS	UNIT	OCT-18	NOV-18	DEC-18	JAN-19	FEB-19	MARCH-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
1	Organic Matter	%	0.54	0.44	0.5	0.74	0.69	0.58
2	Phosphorus as P	µg/g	639	620	643	632	648	593
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.32	5.26	5.1	5.2	4.9	5.18
5.2	Total Chromium as Cr ⁺³	µg/g	126	108	148	133	176	136
5.3	Manganese as Mn	µg/g	1564	1462	1210	1230	1524	1247
5.4	Iron as Fe	%	5.2	5.18	5.12	4	4.86	5.1
5.5	Nickel as Ni	µg/g	30.8	40.6	28	21	39.4	25.2
5.6	Copper as Cu	µg/g	40.4	51.2	34	38	42.6	37.6
5.7	Zinc as Zn	µg/g	290	264	169	120	198	137
5.8	Lead as Pb	µg/g	3.4	1.9	2.1	1.8	2.4	2.6
5.9	Mercury as Hg	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Polychaete Decapods Isopods	Polychaete Bivalves Chaetognathes	Isopods Bivalves Gastropods	Gastropods Isopods	Gastropods Isopods	Polychaetes Bivalves Decapods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Nematodes	Nematodes	Nematodes	--
6.3	Population	no/m ²	424	336	618	647	794	824

BDL* - Below Detection Limit

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

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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis Results (North Side) for the period: October-18 to March-19:-

Sr. No..	PARAMETERS	UNIT	OCT-18	NOV-18	DEC-18	JAN-19	FEB-19	MARCH-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
1	Organic Matter	%	0.69	0.64	0.62	0.69	0.74	0.63
2	Phosphorus as P	mg/kg	680	540	570	578	618	590
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.1	4.82	4.96	4.9	5.2	5.18
5.2	Total Chromium as Cr ⁺³	mg/kg	141	162	124	174	190	152
5.3	Manganese as Mn	mg/kg	1480	1398	1163	1320	1512	1230
5.4	Iron as Fe	%	5.0	4.6	4.8	4.86	4.93	5.14
5.5	Nickel as Ni	mg/kg	36.4	34.8	27	36	43.6	26.8
5.6	Copper as Cu	mg/kg	43.8	41.6	32	28	38.4	30.2
5.7	Zinc as Zn	mg/kg	312	216	150	184	210	148
5.8	Lead as Pb	mg/kg	2.1	1.2	2.2	2.4	2.9	2
5.9	Mercury as Hg	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychates Decapods Mysids	Polychates Decapods Isopods	Crustaceans Bivalves	Molluscans Echinoderms	Molluscans Echinoderms	Echinoderms Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Copepods Foraminiferans	Nematodes Hydrozoa	Ostracodes	--	--	Nematodes Foraminiferans
6.3	Population	no/m ²	395	351	559	588	735	882

BDL* - Below Detection Limit

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



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**3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -****Table - Dump Pond Water Quality Analysis Results for the period: October-18 to March-19**

Date			Nov-18	February-19
			26/11/2018	20/02/2019
Sr. No.	Test Parameters	Unit	Dump Pond (Near Rajiv Gandhi Statue)	
1.	pH	--	7.99	8.4
2.	Total Dissolved Solids	mg/L	1860	1368
3.	Total Suspended Solids	mg/L	65	43
4.	Turbidity	NTU	3.4	2.83
5.	BOD (3 Days @ 27 °C)	mg/L	28	17
6.	Dissolved Oxygen	mg/L	5.4	5.8
7.	COD	mg/L	115	76
8.	Salinity	ppt	0.32	0.22
9.	Oil & Grease	mg/L	BDL*	BDL*
10.	Total Hardness as CaCO ₃	mg/L	860	584
11.	Fluoride as F	mg/L	0.45	0.36
12.	Chloride as Cl	mg/L	179	122
13.	Zinc as Zn	mg/L	0.032	0.037
14.	Cadmium as Cd	mg/L	BDL*	BDL*
15.	Lead as Pb	mg/L	BDL*	BDL*
16.	Mercury as Hg	mg/L	BDL*	BDL*

BDL*: Below Detection Limit

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

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3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -

TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: OCTOBER-18 TO MARCH-19

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March-19
			23/10/2018	26/11/2018	18/12/2018	24/01/2019	20/02/2019	28/03/2019
1.	pH	--	7.21	7.4	7.56	7.26	6.87	7.08
2.	Total Suspended Solids	mg/L	18	26	21	27	23	21
3.	BOD (3 Days @ 27 °C)	mg/L	12	18	14	15	18	15
4.	Residual Free Chlorine	mg/L	0.6	0.8	0.5	0.8	0.6	0.8
5.	Oil & Grease	mg/L	--	--	--	--	--	6.2

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 1 - Behind QHSE Office Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	01/10/2018	01/11/2018	01/12/2018	01/01/2019	01/02/2019	01/03/2019
6:00-7:00	58.6	65.4	62.1	63.5	57.2	58.1
7:00-8:00	53.5	63.2	58.3	55.4	45.6	61.1
8:00-9:00	62.3	60.5	61.5	59.0	50.2	51.7
9:00-10:00	59.2	67.5	63.4	62.4	48.8	49.2
10:00-11:00	63.5	69.7	66.6	63.2	51.1	52.7
11:00-12:00	63.9	58.3	61.1	62.3	47.5	48.2
12:00-13:00	68.7	56.8	62.8	61.3	58.6	51.0
13:00-14:00	73.8	54.9	64.4	66.0	43.5	58.0
14:00-15:00	70.7	43.5	57.1	56.0	44.5	61.4
15:00-16:00	66.0	58.8	62.4	61.7	60.9	59.5
16:00-17:00	72.2	47.7	60.0	60.6	51.7	45.3
17:00-18:00	70.9	68.3	69.6	67.1	44.3	49.0
18:00-19:00	67.0	52.4	59.7	57.0	62.8	45.4
19:00-20:00	62.8	64.6	63.7	63.3	66.3	52.4
20:00-21:00	67.2	62.5	64.9	63.6	46.6	54.4
21:00-22:00	66.8	68.9	67.9	65.0	43.1	50.0

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	01/10/2018 & 02/10/2018	01/11/2018 & 02/11/2018	01/12/2018 & 02/12/2018	01/01/2019 & 02/01/2019	01/02/2019 & 02/02/2019	01/03/2019 & 02/03/2019
22:00-23:00	59.5	47.7	53.5	53.5	48.6	43.5
23:00-00:00	64.4	48.7	56.6	54.3	59.1	58.4
00:00-01:00	60.5	52.4	56.5	56.7	50.4	50.8
01:00-02:00	59.8	43.1	51.5	48.0	55.7	46.5
02:00-03:00	56.4	46.8	51.6	51.3	41.6	57.7
03:00-04:00	57.6	56.6	57.1	54.6	48.8	50.1
04:00-05:00	55.1	61.2	58.2	56.2	55.9	47.7
05:00-06:00	49.7	53.9	51.8	50.7	51.4	51.7

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

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

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



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Tables -2 - PMC Office Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	02/10/2018	02/11/2018	03/12/2018	02/01/2019	02/02/2019	02/03/2019
6:00-7:00	54.5	53.6	54.1	50.7	44.0	61.0
7:00-8:00	57.1	66.4	61.8	63.6	48.7	58.6
8:00-9:00	57.5	55.2	56.4	59.4	50.5	48.5
9:00-10:00	58.7	58.2	58.1	57.4	60.8	54.8
10:00-11:00	60.3	64.1	62.2	61.9	55.1	65.5
11:00-12:00	63.5	68.7	66.3	64.7	47.1	44.6
12:00-13:00	67.7	67.1	67.4	69.5	40.6	61.3
13:00-14:00	67.9	53.2	60.6	60.9	58.4	59.1
14:00-15:00	72.2	64.6	68.4	67.7	60.4	46.7
15:00-16:00	65.7	51.1	58.4	57.5	47.2	51.2
16:00-17:00	65.7	61.9	63.8	65.5	66.8	48.8
17:00-18:00	66.7	49.0	57.9	55.1	70.4	59.3
18:00-19:00	68.1	63.5	65.8	62.8	44.9	66.9
19:00-20:00	63.6	59.6	61.6	61.0	50.6	57.8
20:00-21:00	63.0	57.3	60.2	58.3	52.3	53.9
21:00-22:00	64.6	56.4	60.5	61.8	56.8	45.8

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	02/10/2018 & 03/10/2018	02/11/2018 & 03/11/2018	03/12/2018 & 04/12/2018	02/01/2019 & 03/01/2019	02/02/2019 & 03/02/2019	02/03/2019 & 03/03/2019
22:00-23:00	63.0	50.8	56.9	57.8	51.5	44.6
23:00-00:00	60.9	43.0	52.0	54.4	44.2	50.5
00:00-01:00	58.6	52.4	55.5	58.4	50.3	58.5
01:00-02:00	57.1	58.9	58.0	57.0	61.8	42.7
02:00-03:00	53.6	60.8	57.2	58.3	59.6	46.0
03:00-04:00	53.9	57.7	55.2	57.1	47.2	49.0
04:00-05:00	50.2	54.5	52.4	50.1	53.8	60.1
05:00-06:00	51.9	56.5	54.2	55.2	39.9	52.2

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

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

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



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Tables - 3 - Sub Station - 6 Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	03/10/2018	03/11/2018	04/12/2018	03/01/2019	04/02/2019	04/03/2019
6:00-7:00	53.0	51.8	52.4	51.2	56.1	46.2
7:00-8:00	59.6	55.2	57.4	56.4	69.3	50.4
8:00-9:00	63.0	55.9	59.5	57.6	49.2	47.2
9:00-10:00	63.4	61.1	62.3	62.0	44.1	42.2
10:00-11:00	64.4	45.1	54.8	52.6	48.4	67.5
11:00-12:00	63.4	52.5	58.0	60.1	60.3	51.8
12:00-13:00	66.5	43.4	55.0	54.5	67.8	47.6
13:00-14:00	70.1	50.6	60.4	61.8	50.9	41.1
14:00-15:00	70.7	54.7	62.7	64.3	55.2	49.9
15:00-16:00	72.6	61.8	67.2	64.2	44.7	49.6
16:00-17:00	72.1	59.4	65.8	63.4	46.3	46.6
17:00-18:00	65.9	66.4	66.2	63.7	53.1	67.6
18:00-19:00	66.5	49.5	58.0	58.3	51.2	58.7
19:00-20:00	67.4	60.3	63.9	66.7	57.6	70.7
20:00-21:00	66.4	57.0	61.7	59.4	52.2	65.6
21:00-22:00	58.3	45.5	51.9	50.9	48.3	66.1

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	03/10/2018 & 04/10/2018	03/11/2018 & 04/11/2018	04/12/2018 & 05/12/2018	03/01/2019 & 04/01/2019	04/02/2019 & 05/02/2019	04/03/2019 & 05/03/2019
22:00-23:00	67.9	53.2	60.6	59.3	44.3	45.7
23:00-00:00	60.9	49.2	55.1	52.4	51.6	51.0
00:00-01:00	60.0	52.0	56.0	54.9	55.2	60.7
01:00-02:00	60.6	52.8	56.7	53.7	60.6	51.2
02:00-03:00	60.0	48.8	54.4	55.1	41.3	40.0
03:00-04:00	57.0	57.5	57.3	56.4	50.7	44.1
04:00-05:00	59.9	59.7	59.8	57.2	51.2	52.0
05:00-06:00	51.8	57.2	50.5	52.7	58.9	40.3

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

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

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



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Tables - 4 -Sub Station - 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	04/10/2018	05/11/2018	05/12/2018	04/01/2019	05/02/2019	05/03/2019
6:00-7:00	55.8	51.1	53.5	52.7	60.7	60.6
7:00-8:00	53.2	63.7	58.5	60.7	67.3	52.2
8:00-9:00	56.5	44.4	50.5	51.1	45.2	71.2
9:00-10:00	61.3	52.0	56.7	56.7	43.8	67.8
10:00-11:00	64.7	74.6	69.7	68.5	54.2	47.4
11:00-12:00	69.1	73.1	71.1	74.1	58.3	44.0
12:00-13:00	62.8	66.1	64.9	65.4	51.8	49.5
13:00-14:00	64.8	59.1	62.0	62.8	47.4	58.3
14:00-15:00	73.4	71.5	72.5	72.0	44.8	54.5
15:00-16:00	67.5	55.0	61.3	63.3	48.2	42.1
16:00-17:00	68.1	58.1	63.1	62.5	51.6	53.8
17:00-18:00	69.7	62.5	66.1	66.6	60.1	54.7
18:00-19:00	67.1	60.2	63.7	64.0	61.8	61.7
19:00-20:00	66.0	55.7	60.9	60.0	43.2	60.7
20:00-21:00	62.3	71.8	67.1	69.1	47.6	63.1
21:00-22:00	61.7	49.6	55.7	55.3	45.5	58.9

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	04/10/2018 & 05/10/2018	05/11/2018 & 06/11/2018	05/12/2018 & 06/12/2018	04/01/2019 & 05/01/2019	05/02/2019 & 06/02/2019	05/03/2019 & 06/03/2019
22:00-23:00	61.2	40.1	50.7	51.4	63.2	44.5
23:00-00:00	64.0	47.6	55.8	55.6	58.2	50.6
00:00-01:00	58.5	43.9	51.2	49.7	44.8	48.6
01:00-02:00	57.2	41.4	49.3	48.3	42.6	60.3
02:00-03:00	56.9	50.3	53.6	50.1	47.8	53.2
03:00-04:00	54.1	49.6	51.9	49.7	55.6	40.6
04:00-05:00	54.3	60.8	57.6	56.0	47.1	49.2
05:00-06:00	46.6	45.7	46.2	45.1	49.8	50.2

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

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

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



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Tables - 5 - Near Sub Station-7B Ambient Noise Level Monitoring Results during the DayTime and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	05/10/2018	06/11/2018	06/12/2018	05/01/2019	06/02/2019	06/03/2019
6:00-7:00	47.0	61.7	54.4	52.4	58.1	48.7
7:00-8:00	50.7	62.7	56.7	53.9	66.2	68.0
8:00-9:00	55.5	61.2	58.4	58.7	68.3	44.3
9:00-10:00	60.0	68.9	64.5	66.6	49.4	62.9
10:00-11:00	66.3	63.7	65.0	66.8	59.8	70.3
11:00-12:00	63.5	67.1	65.3	64.9	48.1	48.1
12:00-13:00	65.3	60.0	62.7	63.9	44.2	52.8
13:00-14:00	72.5	68.5	70.5	67.0	46.8	46.3
14:00-15:00	71.0	59.3	65.2	66.2	50.1	49.4
15:00-16:00	72.6	45.2	58.9	58.9	59.6	44.8
16:00-17:00	74.5	53.6	64.1	63.1	52.8	60.1
17:00-18:00	69.8	55.4	62.6	63.1	55.6	48.4
18:00-19:00	73.1	71.7	72.4	69.7	58.2	44.1
19:00-20:00	71.7	70.8	71.3	70.2	48.9	51.5
20:00-21:00	63.2	74.5	68.9	71.4	44.6	61.2
21:00-22:00	65.4	65.5	65.5	67.4	60.2	50.2

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	05/10/2018 & 06/10/2018	06/11/2018 & 07/11/2018	06/12/2018 & 07/12/2018	05/01/2019 & 06/01/2019	06/02/2019 & 07/02/2019	06/03/2019 & 07/03/2019
22:00-23:00	66.5	60.0	63.3	63.6	57.1	51.8
23:00-00:00	62.3	43.1	52.7	55.3	57.3	47.8
00:00-01:00	55.6	55.7	55.7	56.6	43.1	53.1
01:00-02:00	57.7	54.2	56.0	55.4	55.5	51.1
02:00-03:00	56.3	51.8	54.1	56.9	50.8	40.5
03:00-04:00	45.5	58.3	51.9	48.5	56.7	49.6
04:00-05:00	51.2	47.9	49.6	49.0	56.2	55.6
05:00-06:00	52.3	41.0	46.7	43.2	58.1	45.6

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

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

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



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Tables -6 - JS - 1 (Nr. Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	06/10/2018	07/11/2018	07/12/2018	07/01/2019	07/02/2019	07/03/2019
6:00-7:00	51.5	70.9	61.2	61.5	44.1	67.7
7:00-8:00	57.4	43.0	50.2	51.0	50.3	57.4
8:00-9:00	59.4	66.8	63.1	62.8	48.0	47.4
9:00-10:00	63.5	53.9	58.7	58.8	45.3	44.0
10:00-11:00	62.6	63.4	63.0	60.7	60.6	56.7
11:00-12:00	69.5	47.7	58.3	57.6	58.3	48.3
12:00-13:00	70.3	74.5	72.4	71.5	42.5	45.8
13:00-14:00	69.8	61.5	65.7	66.2	48.8	61.8
14:00-15:00	72.0	48.8	60.4	60.4	55.9	60.5
15:00-16:00	71.5	58.1	64.8	64.4	46.7	42.4
16:00-17:00	74.9	44.8	59.9	61.1	51.3	49.7
17:00-18:00	68.2	48.1	58.2	55.9	60.9	44.8
18:00-19:00	66.9	50.9	58.9	57.9	55.2	71.3
19:00-20:00	68.5	55.6	62.1	62.1	50.4	68.0
20:00-21:00	62.9	65.2	64.1	61.1	44.7	51.3
21:00-22:00	67.7	63.9	65.8	63.5	51.7	60.3

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	06/10/2018 & 07/10/2018	07/11/2018 & 08/11/2018	07/12/2018 & 08/12/2018	07/01/2019 & 08/01/2019	07/02/2019 & 08/02/2019	07/03/2019 & 08/03/2019
22:00-23:00	61.3	39.8	50.1	52.5	48.0	54.9
23:00-00:00	60.6	45.2	52.9	51.7	44.6	48.1
00:00-01:00	61.9	46.1	54.0	56.7	51.2	51.4
01:00-02:00	59.3	54.7	57.0	58.9	55.1	47.7
02:00-03:00	61.8	65.7	63.8	61.8	47.8	41.3
03:00-04:00	55.6	58.4	57.2	58.8	41.6	48.6
04:00-05:00	46.7	52.6	49.7	47.7	48.4	58.0
05:00-06:00	55.2	61.7	58.5	55.5	50.7	42.2

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

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

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



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Tables -7 - Behind S.S. - 11 (Silo) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	08/10/2018	08/11/2018	08/12/2018	08/01/2019	08/02/2019	08/03/2019
6:00-7:00	51.2	48.0	49.6	49.2	59.2	55.8
7:00-8:00	55.2	74.1	64.7	64.1	54.6	44.5
8:00-9:00	61.7	53.3	57.5	55.0	50.1	58.5
9:00-10:00	61.6	57.9	59.8	59.1	55.4	47.7
10:00-11:00	67.0	54.5	60.8	60.4	48.1	50.3
11:00-12:00	61.9	55.7	58.8	60.0	60.5	45.0
12:00-13:00	63.3	71.4	67.4	66.3	65.9	66.8
13:00-14:00	71.5	60.1	65.6	66.9	62.4	55.2
14:00-15:00	73.5	69.5	71.5	73.5	50.2	49.9
15:00-16:00	68.0	71.8	69.9	72.3	53.6	58.8
16:00-17:00	70.5	72.6	71.6	68.9	58.4	58.1
17:00-18:00	72.9	63.0	68.0	64.7	52.3	67.9
18:00-19:00	67.4	57.3	62.4	60.1	52.6	54.7
19:00-20:00	62.9	49.3	56.1	55.9	60.4	60.9
20:00-21:00	66.2	66.7	66.5	69.4	53.1	51.7
21:00-22:00	65.4	45.6	55.5	52.8	56.9	40.9

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	08/10/2018 & 09/10/2018	08/11/2018 & 09/11/2018	08/12/2018 & 09/12/2018	08/01/2019 & 09/01/2019	08/02/2019 & 09/02/2019	08/03/2019 & 09/03/2019
22:00-23:00	65.4	52.4	59.7	60.9	62.2	54.8
23:00-00:00	65.1	52.3	58.7	58.6	58.3	47.9
00:00-01:00	58.9	45.4	52.2	50.9	60.3	48.4
01:00-02:00	59.5	44.7	52.3	52.3	48.9	62.5
02:00-03:00	54.4	46.9	48.7	47.3	50.1	59.9
03:00-04:00	56.5	50.7	53.6	50.7	55.2	65.5
04:00-05:00	50.6	59.6	55.1	55.2	47.1	52.4
05:00-06:00	57.3	58.0	57.7	57.7	60.2	38.8

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

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

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



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Tables - 8 –Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the DayTime and Night Time in dB(A)Leq for the period ofOctober 2018 to March 2019

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	09/10/2018	09/11/2018	10/12/2018	09/01/2019	09/02/2019	09/03/2019
6:00-7:00	52.9	59.2	56.1	53.3	52.7	47.3
7:00-8:00	62.9	46.9	54.9	55.1	50.6	56.9
8:00-9:00	61.9	57.7	59.8	58.0	44.5	52.6
9:00-10:00	56.8	46.7	51.8	54.3	55.8	67.5
10:00-11:00	64.7	64.2	64.5	65.1	60.0	48.5
11:00-12:00	67.6	53.1	60.4	61.8	69.3	51.2
12:00-13:00	67.4	45.5	56.5	53.1	53.4	60.4
13:00-14:00	67.1	60.4	63.6	60.9	48.6	72.8
14:00-15:00	67.0	55.0	61.0	61.4	44.3	62.6
15:00-16:00	71.2	51.7	61.3	62.2	54.9	50.0
16:00-17:00	68.1	49.1	58.6	60.1	60.7	58.3
17:00-18:00	69.9	57.7	63.8	65.6	51.6	47.6
18:00-19:00	70.3	61.8	66.1	68.5	52.8	40.8
19:00-20:00	67.3	48.0	57.7	59.3	41.6	71.2
20:00-21:00	65.6	50.4	58.0	55.6	43.8	54.1
21:00-22:00	61.0	56.3	58.7	61.0	46.5	48.1

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	09/10/2018 & 10/10/2018	09/11/2018 & 10/11/2018	10/12/2018 & 11/12/2018	09/01/2019 & 10/01/2019	09/02/2019 & 10/02/2019	09/03/2019 & 10/03/2019
22:00-23:00	60.8	47.7	54.3	51.3	48.1	55.6
23:00-00:00	63.1	45.3	54.2	57.1	50.2	66.9
00:00-01:00	58.9	61.4	60.2	58.0	65.6	40.1
01:00-02:00	57.9	42.7	50.3	52.6	55.8	53.0
02:00-03:00	55.9	50.6	53.3	52.2	40.6	59.2
03:00-04:00	52.6	49.6	51.1	53.9	58.1	65.2
04:00-05:00	54.4	59.3	56.9	58.9	65.1	49.4
05:00-06:00	51.1	51.5	51.3	50.0	67.8	44.1

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

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

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



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Tables -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	10/10/2018	10/11/2018	11/12/2018	10/01/2019	11/02/2019	11/03/2019
6:00-7:00	53.6	47.9	50.8	47.9	58.1	50.2
7:00-8:00	59.2	48.9	54.1	55.0	60.1	49.6
8:00-9:00	62.2	66.8	64.5	61.7	48.3	58.0
9:00-10:00	58.7	47.4	53.1	52.3	44.8	41.3
10:00-11:00	64.5	50.8	57.3	54.0	51.2	46.0
11:00-12:00	62.2	60.7	61.5	59.4	65.8	51.4
12:00-13:00	68.9	53.8	61.4	58.6	67.3	56.3
13:00-14:00	72.1	52.0	62.0	63.2	59.8	48.6
14:00-15:00	72.0	58.4	65.2	64.8	47.2	65.3
15:00-16:00	71.4	60.0	65.7	67.0	46.6	66.4
16:00-17:00	71.1	55.4	63.3	64.8	47.8	52.4
17:00-18:00	69.9	59.2	64.6	65.9	50.8	57.8
18:00-19:00	68.5	72.4	70.5	69.8	55.6	48.0
19:00-20:00	68.8	46.5	67.2	69.1	48.7	60.0
20:00-21:00	62.4	54.1	58.3	54.8	59.9	61.7
21:00-22:00	63.6	57.6	60.6	59.9	71.2	62.9

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	10/10/2018 & 11/10/2018	10/11/2018 & 11/11/2018	11/12/2018 & 12/12/2018	10/01/2019 & 11/01/2019	11/02/2019 & 12/02/2019	11/03/2019 & 12/03/2019
22:00-23:00	61.0	56.2	58.6	58.4	40.2	43.6
23:00-00:00	63.3	49.2	56.3	53.2	44.8	60.7
00:00-01:00	61.5	58.7	60.1	59.1	50.6	55.7
01:00-02:00	58.0	51.2	54.6	51.3	58.2	48.8
02:00-03:00	54.3	46.7	48.5	47.8	41.3	47.4
03:00-04:00	59.1	45.1	52.1	50.9	60.8	60.3
04:00-05:00	50.7	59.3	55.0	54.0	68.6	40.8
05:00-06:00	51.0	53.0	52.0	48.8	48.2	55.8

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

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

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



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Tables - 10 - Lakhi Village (Primary School) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	11/10/2018	12/11/2018	12/12/2018	11/01/2019	12/02/2019	12/03/2019
6:00-7:00	51.1	72.1	61.6	58.3	60.8	50.6
7:00-8:00	51.9	65.1	58.5	61.2	65.2	49.0
8:00-9:00	54.9	66.2	60.6	57.3	48.2	41.5
9:00-10:00	54.3	64.5	59.4	57.2	46.3	43.2
10:00-11:00	63.2	56.6	59.9	60.5	58.2	60.6
11:00-12:00	62.3	59.9	61.1	58.9	60.3	44.1
12:00-13:00	64.7	54.2	59.5	57.8	52.2	58.4
13:00-14:00	66.1	70.2	68.2	68.0	48.4	48.2
14:00-15:00	66.7	60.8	63.8	66.8	47.6	66.1
15:00-16:00	70.9	52.6	61.8	60.0	60.2	73.0
16:00-17:00	67.1	48.6	57.9	58.9	51.5	58.2
17:00-18:00	70.3	57.9	64.1	63.0	58.8	44.3
18:00-19:00	67.4	57.4	62.4	61.0	46.2	56.6
19:00-20:00	67.9	70.7	69.3	71.4	47.1	51.1
20:00-21:00	64.2	59.4	61.8	63.6	45.2	48.8
21:00-22:00	62.6	69.3	66.0	67.7	48.5	68.8

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	11/10/2018 & 12/10/2018	12/11/2018 & 13/11/2018	12/12/2018 & 13/12/2018	11/01/2019 & 12/01/2019	12/02/2019 & 13/02/2019	12/03/2019 & 13/03/2019
22:00-23:00	60.3	59.8	60.1	62.4	42.8	46.0
23:00-00:00	59.4	55.7	57.6	54.9	50.3	44.2
00:00-01:00	58.0	51.7	54.9	55.7	48.8	51.7
01:00-02:00	64.2	67.5	65.9	68.8	51.6	47.6
02:00-03:00	56.7	44.4	50.6	52.7	56.8	41.0
03:00-04:00	56.6	61.2	58.9	55.5	52.1	44.0
04:00-05:00	50.1	66.6	58.4	59.6	44.2	60.6
05:00-06:00	51.4	43.6	47.5	44.1	48.3	40.6

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

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

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



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Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	12/10/2018	13/11/2018	13/12/2018	12/01/2019	13/02/2019	13/03/2019
6:00-7:00	56.8	51.8	54.3	52.6	50.3	48.2
7:00-8:00	52.8	53.0	52.9	52.7	55.4	58.1
8:00-9:00	55.1	56.7	55.9	58.3	60.6	40.8
9:00-10:00	59.3	55.9	57.6	60.1	48.5	74.5
10:00-11:00	55.5	58.8	56.5	58.1	54.1	50.5
11:00-12:00	59.5	62.7	61.1	62.2	46.7	54.7
12:00-13:00	64.9	58.2	61.6	59.6	51.9	59.1
13:00-14:00	61.8	61.2	61.5	59.0	60.8	70.3
14:00-15:00	70.4	64.0	67.2	65.7	56.7	61.4
15:00-16:00	71.2	49.8	60.5	61.5	47.3	48.6
16:00-17:00	73.7	65.0	69.4	66.5	45.3	51.4
17:00-18:00	68.4	62.3	65.4	62.0	58.6	48.0
18:00-19:00	65.9	48.6	57.3	55.7	65.4	40.7
19:00-20:00	66.5	53.9	60.2	62.5	70.9	60.7
20:00-21:00	66.2	55.0	60.6	59.1	46.6	58.9
21:00-22:00	62.8	52.6	57.7	60.5	53.3	54.6

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	12/10/2018 & 13/10/2018	13/11/2018 & 14/11/2018	13/12/2018 & 14/12/2018	12/01/2019 & 13/01/2019	13/02/2019 & 14/02/2019	13/03/2019 & 14/03/2019
22:00-23:00	61.8	39.1	50.5	49.2	47.2	51.7
23:00-00:00	57.4	52.5	55.0	54.8	58.4	47.8
00:00-01:00	62.9	50.6	56.8	59.2	65.3	40.1
01:00-02:00	60.0	41.8	50.9	51.7	41.4	60.9
02:00-03:00	54.1	48.3	51.2	50.1	50.2	55.6
03:00-04:00	56.6	47.1	51.9	48.6	55.9	44.8
04:00-05:00	48.4	40.8	44.6	42.6	59.6	58.2
05:00-06:00	52.0	51.1	51.6	52.1	42.3	67.0

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

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

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



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Tables - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	13/10/2018	14/11/2018	14/12/2018	14/01/2019	14/02/2019	14/03/2019
6:00-7:00	55.1	53.2	54.1	52.9	60.5	41.9
7:00-8:00	55.5	64.1	59.5	57.3	50.2	54.3
8:00-9:00	61.4	58.6	60.0	62.7	58.3	40.9
9:00-10:00	63.5	60.9	62.2	63.7	56.2	60.2
10:00-11:00	58.3	60.2	59.3	59.4	45.8	52.3
11:00-12:00	66.7	59.8	63.3	63.2	51.7	54.5
12:00-13:00	66.4	51.3	58.9	56.5	56.8	63.3
13:00-14:00	67.2	53.6	60.4	59.5	43.8	44.1
14:00-15:00	70.4	55.8	63.1	60.4	50.6	66.5
15:00-16:00	66.9	63.6	65.3	67.8	65.1	48.1
16:00-17:00	66.7	65.5	66.1	66.9	70.5	50.7
17:00-18:00	69.1	62.0	65.6	63.1	74.1	51.2
18:00-19:00	69.0	70.5	69.8	72.4	46.2	42.5
19:00-20:00	65.1	54.8	60.0	57.1	48.1	55.6
20:00-21:00	64.2	66.9	65.6	63.5	51.8	41.0
21:00-22:00	60.9	56.9	58.8	58.2	43.6	70.5

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	13/10/2018 & 14/10/2018	14/11/2018 & 15/11/2018	14/12/2018 & 15/12/2018	14/01/2019 & 15/01/2019	14/02/2019 & 15/02/2019	14/03/2019 & 15/03/2019
22:00-23:00	64.9	57.3	61.1	62.6	61.2	61.2
23:00-00:00	65.0	45.8	55.8	53.2	50.6	58.3
00:00-01:00	60.2	55.6	57.9	57.9	39.6	60.5
01:00-02:00	62.2	58.8	60.5	57.2	51.5	40.3
02:00-03:00	57.3	54.4	51.9	50.2	58.3	47.1
03:00-04:00	55.9	62.2	59.1	58.3	40.8	61.9
04:00-05:00	54.1	56.7	55.4	58.0	45.2	65.7
05:00-06:00	51.1	67.3	59.2	55.9	50.1	49.2

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

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

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



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Tables - 13 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	15/10/2018	15/11/2018	15/12/2018	15/01/2019	15/02/2019	15/03/2019
6:00-7:00	54.0	54.3	54.2	50.7	44.9	62.4
7:00-8:00	55.1	59.2	57.2	58.6	58.5	58.8
8:00-9:00	63.3	52.9	58.1	59.6	51.0	45.3
9:00-10:00	64.8	48.8	56.8	53.4	60.9	60.9
10:00-11:00	65.8	50.7	58.3	55.8	48.4	73.1
11:00-12:00	67.3	46.1	56.7	58.0	44.6	60.1
12:00-13:00	64.9	50.2	57.2	54.3	59.2	70.6
13:00-14:00	64.5	57.1	60.8	63.8	54.3	48.4
14:00-15:00	72.1	57.9	65.0	64.2	51.4	51.3
15:00-16:00	69.5	62.2	65.9	65.8	61.1	60.0
16:00-17:00	68.7	66.4	67.6	69.5	65.2	58.0
17:00-18:00	67.8	67.9	67.9	67.4	72.6	54.4
18:00-19:00	66.5	41.2	53.9	54.4	48.7	47.0
19:00-20:00	64.2	45.2	54.7	54.5	44.8	48.7
20:00-21:00	65.0	52.8	58.9	59.4	48.2	46.1
21:00-22:00	66.2	56.3	61.3	64.0	60.1	55.4

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	15/10/2018 & 16/10/2018	15/11/2018 & 16/11/2018	15/12/2018 & 16/12/2018	15/01/2019 & 16/01/2019	15/02/2019 & 16/02/2019	15/03/2019 & 16/03/2019
22:00-23:00	65.1	51.6	58.4	55.4	51.8	60.0
23:00-00:00	56.4	63.0	59.7	60.8	48.3	68.2
00:00-01:00	63.1	57.8	60.5	62.5	51.6	48.6
01:00-02:00	59.9	55.8	57.9	58.2	44.6	40.4
02:00-03:00	59.8	44.5	52.2	50.7	58.6	41.8
03:00-04:00	51.8	40.0	45.9	46.8	40.1	59.7
04:00-05:00	48.0	47.8	47.9	46.9	60.2	45.6
05:00-06:00	54.4	43.9	49.2	47.1	43.6	51.4

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

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

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



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Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	16/10/2018	16/11/2018	17/12/2018	16/01/2019	16/02/2019	16/03/2019
6:00-7:00	51.9	63.2	57.6	57.6	58.1	49.1
7:00-8:00	59.0	69.7	64.4	64.3	48.6	58.3
8:00-9:00	57.3	54.2	55.8	55.3	63.5	44.9
9:00-10:00	62.3	60.4	61.4	58.5	65.3	68.0
10:00-11:00	61.9	55.6	58.8	61.3	70.2	61.3
11:00-12:00	63.4	49.9	56.7	59.7	72.3	56.2
12:00-13:00	66.6	45.1	55.9	58.3	64.4	46.4
13:00-14:00	73.1	66.1	69.6	68.8	73.2	52.4
14:00-15:00	66.1	51.0	58.6	58.2	51.2	66.6
15:00-16:00	70.7	48.5	59.6	59.9	55.5	59.8
16:00-17:00	66.2	55.0	60.3	57.9	60.2	44.4
17:00-18:00	65.1	64.0	64.6	63.0	67.3	58.4
18:00-19:00	66.5	49.7	58.0	58.6	48.3	45.2
19:00-20:00	64.2	53.3	58.3	61.0	47.2	57.0
20:00-21:00	65.8	47.5	56.6	57.2	52.3	43.1
21:00-22:00	64.3	58.9	61.6	60.3	55.3	49.5

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	16/10/2018 & 17/10/2018	16/11/2018 & 17/11/2018	17/12/2018 & 18/12/2018	16/01/2019 & 17/01/2019	16/02/2019 & 17/02/2019	16/03/2019 & 17/03/2019
22:00-23:00	58.7	45.3	52.0	53.4	48.2	51.3
23:00-00:00	60.8	51.5	56.2	55.7	50.3	60.1
00:00-01:00	61.4	46.6	54.0	55.3	55.8	59.5
01:00-02:00	59.3	44.1	51.7	54.3	48.1	40.5
02:00-03:00	49.9	48.9	49.4	48.3	60.3	51.2
03:00-04:00	56.8	57.6	57.2	55.2	65.2	53.0
04:00-05:00	55.4	52.2	53.8	54.1	43.8	60.8
05:00-06:00	55.7	54.5	55.1	51.9	44.8	48.9

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

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



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Tables - 15 - Security Barrier Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	17/10/2018	17/11/2018	18/12/2018	17/01/2018	18/02/2019	18/03/2019
6:00-7:00	51.0	60.2	55.6	57.7	55.2	67.2
7:00-8:00	54.9	51.9	53.4	53.2	58.2	48.3
8:00-9:00	61.5	54.6	58.1	58.8	48.8	58.2
9:00-10:00	61.1	58.5	59.8	61.6	51.6	60.3
10:00-11:00	64.9	62.1	63.5	65.9	60.7	70.4
11:00-12:00	63.6	70.7	67.2	64.7	49.2	60.6
12:00-13:00	70.0	71.6	70.8	70.2	71.4	44.2
13:00-14:00	68.0	70.4	69.2	71.5	61.2	58.7
14:00-15:00	72.5	61.1	66.8	67.7	60.3	67.0
15:00-16:00	71.1	63.6	67.4	65.1	66.3	56.7
16:00-17:00	72.4	42.6	57.5	57.6	54.2	44.6
17:00-18:00	69.5	68.6	69.1	67.8	46.3	48.9
18:00-19:00	69.4	64.8	67.1	67.5	51.3	68.4
19:00-20:00	62.8	56.6	59.7	60.7	56.4	50.4
20:00-21:00	63.3	68.8	66.1	63.7	60.4	55.5
21:00-22:00	61.6	48.0	54.8	56.0	70.3	74.2

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	17/10/2018 & 18/10/2018	17/11/2018 & 18/11/2018	18/12/2018 & 19/12/2018	17/01/2018 & 18/01/2019	18/02/2019 & 19/02/2019	18/03/2019 & 19/03/2019
22:00-23:00	65.3	59.2	62.3	60.5	51.2	58.9
23:00-00:00	61.4	56.8	59.1	56.0	55.3	47.4
00:00-01:00	62.9	48.1	55.5	58.4	60.1	42.8
01:00-02:00	59.8	43.4	51.6	49.7	67.2	47.5
02:00-03:00	54.6	47.7	51.2	51.0	44.3	55.7
03:00-04:00	50.5	47.0	48.8	46.5	45.8	60.6
04:00-05:00	56.9	58.6	57.8	59.3	58.2	65.2
05:00-06:00	57.1	51.8	54.5	57.0	51.3	52.5

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

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

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



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Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	18/10/2018	19/11/2018	19/12/2018	18/01/2019	19/02/2019	19/03/2019
6:00-7:00	55.0	65.1	60.1	62.3	61.1	66.5
7:00-8:00	55.5	63.5	59.5	56.9	58.4	60.7
8:00-9:00	55.2	56.6	55.9	52.7	55.6	53.1
9:00-10:00	59.8	57.9	58.7	57.5	56.4	48.9
10:00-11:00	64.9	73.8	69.3	66.1	50.6	46.2
11:00-12:00	63.6	67.9	65.8	64.1	51.3	58.6
12:00-13:00	69.9	67.0	68.5	69.7	55.7	60.5
13:00-14:00	65.2	59.1	47.2	48.9	60.1	55.8
14:00-15:00	72.6	69.9	71.3	68.4	51.5	72.4
15:00-16:00	71.7	63.5	67.6	70.2	71.7	49.0
16:00-17:00	68.7	60.0	64.1	61.0	48.4	54.7
17:00-18:00	65.7	66.8	66.3	68.5	60.6	60.8
18:00-19:00	69.5	62.1	65.8	66.0	48.7	56.2
19:00-20:00	64.8	55.9	60.4	58.1	60.9	52.2
20:00-21:00	64.4	69.4	66.9	68.1	48.6	48.6
21:00-22:00	68.7	54.5	61.6	58.6	61.8	51.3

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	18/10/2018 & 19/10/2018	19/11/2018 & 20/11/2018	19/12/2018 & 20/12/2018	18/01/2019 & 19/01/2019	19/02/2019 & 20/02/2019	19/03/2019 & 20/03/2019
22:00-23:00	66.0	55.5	60.8	57.7	45.7	48.4
23:00-00:00	61.9	60.4	61.2	62.4	55.4	45.8
00:00-01:00	60.2	68.3	64.3	67.1	60.1	60.1
01:00-02:00	56.6	55.0	55.8	55.3	50.5	43.8
02:00-03:00	55.3	49.3	52.1	49.7	51.7	51.0
03:00-04:00	51.7	49.4	50.6	53.0	60.3	58.7
04:00-05:00	53.5	57.1	55.3	53.3	68.3	60.0
05:00-06:00	51.7	42.8	45.3	47.4	46.1	56.8

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

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

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



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Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	19/10/2018	20/11/2018	20/12/2018	19/01/2019	20/02/2019	20/03/2019
6:00-7:00	51.7	55.6	53.7	52.0	58.9	60.2
7:00-8:00	53.7	63.0	58.4	57.5	44.4	54.3
8:00-9:00	62.5	55.5	59.0	58.2	47.5	60.9
9:00-10:00	59.4	48.1	53.8	53.4	60.7	74.2
10:00-11:00	66.1	54.5	60.3	60.3	70.2	53.2
11:00-12:00	66.0	52.9	59.5	58.2	51.2	45.0
12:00-13:00	68.2	45.1	56.7	55.7	58.5	57.3
13:00-14:00	65.6	59.2	62.4	59.9	48.1	68.5
14:00-15:00	71.0	61.9	66.5	64.7	60.3	59.9
15:00-16:00	67.2	70.7	69.0	66.0	65.3	53.3
16:00-17:00	65.9	65.0	65.5	66.5	41.3	56.0
17:00-18:00	67.0	74.0	70.1	69.7	46.6	60.0
18:00-19:00	64.8	60.1	62.5	59.2	51.9	51.2
19:00-20:00	69.3	46.5	57.9	55.8	50.1	51.9
20:00-21:00	63.6	51.9	57.7	56.7	72.6	52.4
21:00-22:00	61.2	57.6	59.4	58.5	46.3	46.3

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	19/10/2018 & 20/10/2018	20/11/2018 & 21/11/2018	20/12/2018 & 21/12/2018	19/01/2019 & 20/01/2019	20/02/2019 & 21/02/2019	20/03/2019 & 21/03/2019
22:00-23:00	56.3	54.1	55.2	53.5	55.2	58.6
23:00-00:00	60.2	60.1	60.1	62.5	48.1	60.6
00:00-01:00	57.5	68.0	62.8	65.3	38.6	54.4
01:00-02:00	56.8	50.1	53.5	54.0	45.3	56.1
02:00-03:00	47.1	48.2	47.7	44.6	54.4	47.8
03:00-04:00	53.7	44.3	49.0	48.8	51.8	42.9
04:00-05:00	52.5	60.3	56.4	59.2	44.3	50.9
05:00-06:00	53.4	42.1	47.8	49.7	49.8	58.1

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

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

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



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Tables -18 - S and S Yard (South) and Open Storage Yard – 1 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A) Leq for the period of October 2018 to March 2019

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	20/10/2018	21/11/2018	21/12/2018	21/01/2019	21/02/2019	21/03/2019
6:00-7:00	59.4	45.1	52.3	53.8	47.8	70.3
7:00-8:00	59.8	46.1	53.0	54.7	61.3	55.2
8:00-9:00	63.0	65.7	64.4	63.9	48.2	48.0
9:00-10:00	63.9	51.7	57.8	55.9	45.0	59.7
10:00-11:00	62.8	44.1	53.5	56.1	51.7	52.7
11:00-12:00	61.7	49.9	55.8	56.4	60.0	44.5
12:00-13:00	65.5	62.9	64.2	61.9	44.3	50.8
13:00-14:00	72.6	52.7	62.7	62.7	56.3	52.5
14:00-15:00	74.7	54.7	64.7	64.0	55.3	60.6
15:00-16:00	74.8	55.7	65.3	61.8	44.1	68.0
16:00-17:00	70.3	70.6	70.5	69.6	42.8	48.5
17:00-18:00	68.9	50.6	59.8	60.6	48.9	47.8
18:00-19:00	67.8	47.9	57.9	56.6	60.5	50.2
19:00-20:00	65.5	47.4	56.5	54.3	61.4	58.7
20:00-21:00	61.9	60.5	61.2	58.8	67.3	47.2
21:00-22:00	58.8	41.8	50.3	48.7	70.3	48.7

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	20/10/2018 & 21/10/2018	21/11/2018 & 22/11/2018	21/12/2018 & 22/12/2018	21/01/2019 & 22/01/2019	21/02/2019 & 22/02/2019	21/03/2019 & 22/03/2019
22:00-23:00	60.5	59.8	60.2	56.8	58.9	62.0
23:00-00:00	62.1	45.7	53.9	53.9	60.2	43.9
00:00-01:00	61.1	48.0	54.6	55.1	48.6	55.4
01:00-02:00	60.8	50.7	55.7	55.1	44.4	43.7
02:00-03:00	61.5	49.7	55.6	53.0	60.8	49.7
03:00-04:00	57.4	44.6	48.0	46.5	48.3	61.3
04:00-05:00	54.3	51.5	52.5	55.5	40.1	66.8
05:00-06:00	50.5	55.7	53.1	54.4	44.6	48.5

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

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

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



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Tables -19 -S & S Yard (North) Boundary WallLoco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period ofOctober 2018 to March 2019

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	22/10/2018	22/11/2018	22/12/2018	22/01/2019	22/02/2019	22/03/2019
6:00-7:00	52.8	50.2	51.5	51.1	49.8	55.3
7:00-8:00	54.2	48.5	51.4	50.0	45.2	44.7
8:00-9:00	58.7	63.6	61.2	60.9	51.8	54.5
9:00-10:00	57.3	64.9	61.1	57.7	60.2	49.9
10:00-11:00	66.5	56.2	61.4	60.2	52.2	58.5
11:00-12:00	61.1	66.0	63.6	60.8	58.3	60.3
12:00-13:00	66.7	57.1	61.9	64.6	61.2	49.5
13:00-14:00	70.1	58.7	64.4	61.7	66.3	50.0
14:00-15:00	69.8	67.9	68.9	71.2	69.1	42.3
15:00-16:00	69.6	69.1	69.4	71.9	51.6	43.6
16:00-17:00	70.5	64.6	67.6	69.3	44.2	61.5
17:00-18:00	70.2	67.2	68.7	71.0	49.3	51.5
18:00-19:00	64.1	51.4	57.8	60.7	60.8	67.7
19:00-20:00	62.2	53.9	58.1	60.5	53.8	49.1
20:00-21:00	63.6	60.2	61.3	60.6	59.6	57.4
21:00-22:00	61.4	58.2	59.8	61.3	53.4	68.4

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	22/10/2018 & 23/10/2018	22/11/2018 & 23/11/2018	22/12/2018 & 23/12/2018	22/01/2019 & 23/01/2019	22/02/2019 & 23/02/2019	22/03/2019 & 23/03/2019
22:00-23:00	60.9	52.3	56.5	53.1	61.2	46.3
23:00-00:00	59.0	53.9	56.5	57.4	66.2	51.3
00:00-01:00	60.2	54.5	57.4	55.2	58.3	67.2
01:00-02:00	60.5	59.0	59.8	61.0	51.3	49.6
02:00-03:00	55.2	39.3	47.3	46.9	48.4	60.7
03:00-04:00	51.6	48.5	50.1	50.4	41.4	61.2
04:00-05:00	55.2	58.0	56.6	54.9	48.8	55.5
05:00-06:00	52.1	60.5	56.3	55.9	46.9	41.0

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

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

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



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Tables - 20 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2018 to March 2019

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	23/10/2018	23/11/2018	24/12/2018	23/01/2019	23/02/2019	23/03/2019
6:00-7:00	55.9	65.6	60.8	63.4	70.0	56.3
7:00-8:00	53.8	63.9	58.9	59.0	58.2	60.1
8:00-9:00	58.4	63.7	61.1	62.1	43.2	54.2
9:00-10:00	59.7	67.1	63.4	60.5	48.3	49.3
10:00-11:00	60.8	62.0	61.4	61.1	60.4	50.7
11:00-12:00	69.3	73.7	71.5	68.5	65.8	58.1
12:00-13:00	69.8	53.2	61.5	63.4	73.9	47.9
13:00-14:00	70.8	69.1	70.0	68.6	55.9	66.4
14:00-15:00	74.4	59.9	67.2	65.4	44.0	50.9
15:00-16:00	71.4	65.8	68.6	65.7	43.1	62.1
16:00-17:00	69.5	61.3	65.4	63.0	64.8	46.1
17:00-18:00	66.0	54.0	60.0	60.1	55.5	57.7
18:00-19:00	65.1	57.9	61.0	59.8	58.6	51.0
19:00-20:00	68.6	56.0	62.3	65.1	46.9	49.4
20:00-21:00	66.4	72.4	69.4	68.3	55.8	50.5
21:00-22:00	66.4	57.0	61.7	58.3	63.2	60.4

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	23/10/2018 & 24/10/2018	23/11/2018 & 24/11/2018	24/12/2018 & 25/12/2018	23/01/2019 & 24/01/2019	23/02/2019 & 24/02/2019	23/03/2019 & 24/03/2019
22:00-23:00	61.5	55.6	58.6	60.2	46.2	43.4
23:00-00:00	58.7	57.6	58.2	59.9	50.3	44.3
00:00-01:00	61.0	50.5	55.8	58.2	65.8	49.4
01:00-02:00	57.5	60.6	59.1	61.7	45.2	57.5
02:00-03:00	58.2	47.6	52.9	55.8	42.3	62.1
03:00-04:00	59.9	56.9	58.4	59.6	47.2	55.0
04:00-05:00	51.8	61.7	56.8	56.2	55.3	60.8
05:00-06:00	57.3	47.3	52.3	51.9	60.4	55.9

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

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



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3H. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October-18 to March-19

Sr. No.	Parameters	Unit	DG Set # 1MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3Marine (SS8)		DG Set # 4Silo (SS11)	
			NOV-18	FEB-19	NOV-18	FEB-19	NOV-18	FEB-19	NOV-18	FEB-19
1	Particulate Matter	mg/Nm ³	18.34	24.37	24.38	21.84	29.63	17.65	20.37	26.75
2	Sulphur Dioxide	ppm	5.92	6.84	8.6	5.44	4.33	7.8	6.43	4.44
3	Oxide of Nitrogen	ppm	32.02	36.96	37.67	31.65	28.26	39.11	35.42	29.2
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Carbon Monoxide (CO)	mg/m ³	3.82	3.89	5.92	6.61	4.91	5.09	2.41	2.69

Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: October-18 to March-19

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
	Sampling Date	NOV-18	FEB-19
1.	DG Set # 1MRSS (SS5)	69.3	71.5
2.	DG Set # 2 SS7B	71.5	72.6
3.	DG Set # 3Marine (SS8)	70.7	69.4
4.	DG Set # 4Silo (SS11)	72.4	73.8



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**Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III
Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., March 2019:**

S. No.	EMP Conditions	Compliance Status
A.	ENVIRONMENTAL MANAGEMENT PLAN (CONSTRUCTION PHASE)	
1.1	Air Quality Management Plan	
	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 arterial roads.
	Vehicle tyre washing facilities will be provided at the entrance to prevent spillover of dust sticking on tyre outside the facility.	Complied 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 equipment's at site will be subjected to regular maintenance to minimize the vehicle exhaust.	Complying with. All vehicles are being regularly maintained to minimize the vehicle exhaust.
	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.
1.2	Noise Quality Management Plan	
	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 equipment's should be repaired to meet the compliance noise level.	Complying with. Noise generating equipment's are provided with acoustic enclosures.
	No activity involving with high intensity and magnitude of operation should be deployed. Silencers will be provided in Vehicle exhaust.	Complying with. <ul style="list-style-type: none"> All construction and operation activities are in compliance with the Noise level Norms. Monitoring of noise level is being done by M/s Pollucon Laboratories,

S. No.	EMP Conditions	Compliance Status
		NABL accredited and MoEF&CC recognized laboratory. <ul style="list-style-type: none">Monitoring reports are presented in the Annexure 3G.
	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">There is no occasion till date for exceeding the noise level at the port boundary.Persons working in the fabrication yard are provided with PPEs.
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipment's are provided with acoustic enclosures.
1.3	Sewage Management Plan	
	Sewage generated from the construction site will be treated in existing STP of 27 m ³ 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 2018 – March 2019 are enclosed as Annexure –3F .
	Treated water will be used for green belt development / landscaping after achieving GPCB prescribed standards.	
1.4	Solid and Hazardous Waste Management Plan	
	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">All solid waste is being segregated for biodegradable and non-biodegradable.Biodegradable waste is being decomposed in Bioneer and other waste is being disposed in compliance to the Solid Waste Management Rules - 2016.
	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	Construction Phase Storm Water Runoff	
	Existing storm water drainage network will be further strengthened and developed near the project site to prevent surface runoff to the sea.	Complying with. Storm water drainage system has been provided and regular maintenance is being done.
B.	ENVIRONMENTAL MANAGEMENT PLAN (OPERATION PHASE)	
2.1	Air Quality Management Plan - Coal Handling and Stock Yard Area:	
	Appropriate stack height will be provided	Complying with.

S. No.	EMP Conditions	Compliance Status
	to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty, conveyor belt, transfer tower, and discharge point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	Complying with. All dust control systems are maintained and operating well.
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	Complying with. <ul style="list-style-type: none"> At coal stack yard, 100 sprinklers are maintained and operating well. Pavement of the additional storage area is completed. Installation of water sprinklers and other DSS measures will be complete before storage of coal.
	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.

S. No.	EMP Conditions	Compliance Status
2.2	Noise Control Management Plan	
	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"> Speed is limited within the port premises. Proper signage also provided within the premises.
	Using silent exhaustion 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 18.0 ha including periphery of the project boundary.
	Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible	Complying with. Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	Complying with. APDPPL is certified with the ISO 14001:2015. A proper change management process in place for any kind of deviation. However, there is no occurrence of noise level exceeding norms.
2.3	Storm Water Management Plan	
	<p>Following areas will be provided with storm water drainage systems to prevent any surface run-off in to the sea.</p> <ul style="list-style-type: none"> Reclamation of 23 Ha back up area Coal stock pile development of 7.7 Ha area Railway siding area 	Complying with. Coal stock pile and Railway siding area are provided with storm water drainage. Reclamation of 23 Ha area is being done.
	<ul style="list-style-type: none"> 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.
2.4	Solid & Hazardous Waste Management	

S. No.	EMP Conditions	Compliance Status
	Plan	
	Port operator will prepare the robust waste management plan for the entire operations, process carried out during operation. As part of the plan, a scavenging boat will be anchored for collection of waste due to windblown in to the sea.	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.
	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. 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.	Complying with. All the wastes are being managed in compliance to the respective waste management rules as amended in 2016.
2.5	Green Belt Development Plan:	
	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 18.0 ha including periphery of the project boundary.
	It is proposed to develop further three tier greenbelt to increase efficiency of dust control.	
2.6	Community Development Plan	
	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. Health Promotions Programs ✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs ✓ Mobile Clinic	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 Annexure – 8.

S. No.	EMP Conditions	Compliance Status																							
	Education Promotion Programs <ul style="list-style-type: none"> ✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc ✓ Providing scholarship programs ✓ Sport Coaching centre 																								
	Economic Development Programs <ul style="list-style-type: none"> ✓ Knowledge centre regarding various government schemes and latest technology ✓ Skill Development Training Programs 																								
	Women Empowerment <ul style="list-style-type: none"> ✓ Sanitation Promotion Programs ✓ Construction and Maintenance of Sanitation complex ✓ Awareness Programs 																								
	Infrastructure development Programs <ul style="list-style-type: none"> ✓ Developing internal roads of villages ✓ Developing drainage systems ✓ Solar Street Lights ✓ Construction / Maintenance of Community Halls ✓ Social Forestry 																								
2.7	Village Specific Infrastructure Development Programs: <table border="1"> <thead> <tr> <th>S. No.</th><th>Village</th><th>Programs</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Luvara</td><td>Developing proper drainage system in the village.</td></tr> <tr> <td>2.</td><td>Dahej</td><td>Providing Safe Drinking water Facilities in the schools</td></tr> <tr> <td>3.</td><td>Dahej</td><td>Developing medical facilities in the PHC such as facilities for storage of perishable medicines,</td></tr> <tr> <td>4.</td><td>Jageshwar</td><td>Developing Drainage System</td></tr> <tr> <td>5.</td><td>Lakhigam</td><td>Developing Drainage System</td></tr> <tr> <td>6.</td><td>Lakhigam Luvara Jageshwar</td><td>Developing Solar Street Light and Internal Village Roads</td></tr> <tr> <td>7.</td><td>Ambetha</td><td>Developing Drainage System</td></tr> </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
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6.	Lakhigam Luvara Jageshwar	Developing Solar Street Light and Internal Village Roads																							
7.	Ambetha	Developing Drainage System																							

S. No.	EMP Conditions			Compliance Status
	8.	Study Area Villages	Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.	
	9.	Study Area Villages	Developing Safe Drinking facilities at Schools in the study area.	
	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.	
2.8	Environmental Management Cell			
	APPPL has already established and maintained an Environmental Management Cell (EMC) with Head of Department (EHS), supported by field level executives and horticulturist for implementation of the compliance conditions as per Environmental Clearance obtained and GPCB Consent Conditions. Periodical monitoring activities are being undertaken by MoEF recognized and NABL accredited environmental laboratories. Environmental compliance reports are regularly submitted to MoEF regional office, Vadodara and New Delhi.			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 Annexure – 7 .
	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.			
2.9	Cost Estimates for Environmental Management Plan:			
	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			Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. • Key components of environment

S. No.	EMP Conditions	Compliance Status
	environmental pollution control measures and environmental management programs.	budget are environmental Monitoring, STP's (O&M), Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2018-19 was approx. Rs. 242.88 lacs. Details of the environmental budget and expenditure for the period October'18 to March'19 is enclosed as Annexure - 6.

Annexure - 5 Green Zone Details - APDPPL,Dahej

Sr.no.	Green Zone No	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm	Remarks	FY
1	68 (a)	PMC office area Landscape / old pump house /Road side	0.45	500	Delonix regia/ Pelttoforum /casurina (3 x3 m)	1000	1500	25	Implemented	2010-11
			0.23	250	Cassia semia/peltoforum/conocarpus (3 x3 m)					
			0.20	450	Coconut spp./ fruit trees (1.5 x 3 m)					
		Back side lakhibaba temple &Boundary site plantation (phase -1)	0.39	1300	Casurina Equisitifolia (1.5x 2 m)	0	0			
		Back side lakhibaba temple &Boundary site plantation (phase -1 a)	0.27	600	Casurina Equisitifolia (1.5x 3 m)	0	0	0	Implemented	2011-12
		Total	1.54	3100		1000	1500	25		
2	68 (b)	Gcptcl boundary wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia (1.5x 1.5 m)				Implemented	2011-12
		APPPL office area (SS-7)	0.32	400	Delonix regia /peltoforum/conocarpus/neem (2x4 m)	800	8000	200	Implemented	
		Gcptcl boundary wall site plantation (phase-1 a)	0.11	500	eucalyptus/ conocarpus (1.5x 1.5 m)	0	0	0	Implemented	
		Total	1.78	6900		800	8000	200		
3	68(C)	LNG Site Boundry wall site plantation	0.90	4000	Casuarina Equisitifolia /conocarpus(1.5x 1.5 m)	0		500	Implemented	2012-2013
4	68 (d)	Stack yard	0.68	3000	Casurina Equisitifolia/Eucalyptus /conocarpus(1.5x 1.5 m)	0	0	0	Implemented	
		Total	1.58	7000		0	0	500		
5		Road site Avenue tree plantation	0.68	1500	Casurina Equisitifolia/Conocarpus (1.5x 3 m)	3000	200	200	Implemented	2013-2014
			1.44	1600	Conocarpus (3x3 m)					
			0.90	1500	Conocarpus (2x3m)					
		Total	3.02	4600.00		3000	200	200		
6	68 (f)	Main gate Area Periphery /EHS/Road side	0.24	525.00	Casurina Equisitifolia (1.5x 3 m)	3450	2500		Implemented	2014-15 2015-16
			0.35	220.00	Conocarpus (4x4 m)				Implemented	
			0.23	500.00	Golden Bamboo (1.5x 3 m)				Implemented	
			0.60	500	Azardirecta indica /peltoforum/ Casurina (3x 4 m)				Implemented	
			0.256	320	Conocarpus /Casurina/forest trees (2x4 m)				Implemented	
			0.324	810	Conocarpus /Casurina (2x 2 m)				Implemented	
		Total	2.0	2875.0		3450	2500	0		
7		Coal yard area /Railway yard	0.15	255	Conocarpus /Casurina (2x 3 m)	0	0			2016-17 2017-18
			1.13	5000	Casurina Equisitifolia/conocarpus (1.5x1.5 m)	0	0	2000	Implemented	
			1.13	5000	Casurina Equisitifolia/conocarpus (1.5x 1.5m)		0		Implemented	
		Total	2.40	10255.00		0	0			
		Permenant Godown area	0.36	1380	Shrubs and forest tree plantation	1500	2100	100	Implemented	2018-19
		Coal Yard Area	1.14	2861	Conocarpus /Casurina (2x 2 m)	1200	0	0	Implemented	
		Periphery road side	0.68	3000	eucalyptus /conocarpus(1.5x 1.5 m)	0	0		Implemented	
		Total	2.18	7241.00		2700.00	2100.00	2000.00		
Trees Total Green Zone Area (Ha)			14.484450	41971.00		10950.00	14300.00	2925.00		
Shrub/carpet /palm Total Green Zone Area (Ha)			3.695			1.095	1.43	1.17		
Total Green Zone Area (Ha)			18.17945							

Annexure – 6: Environment Budget and Expenditure for the FY: 2018-19

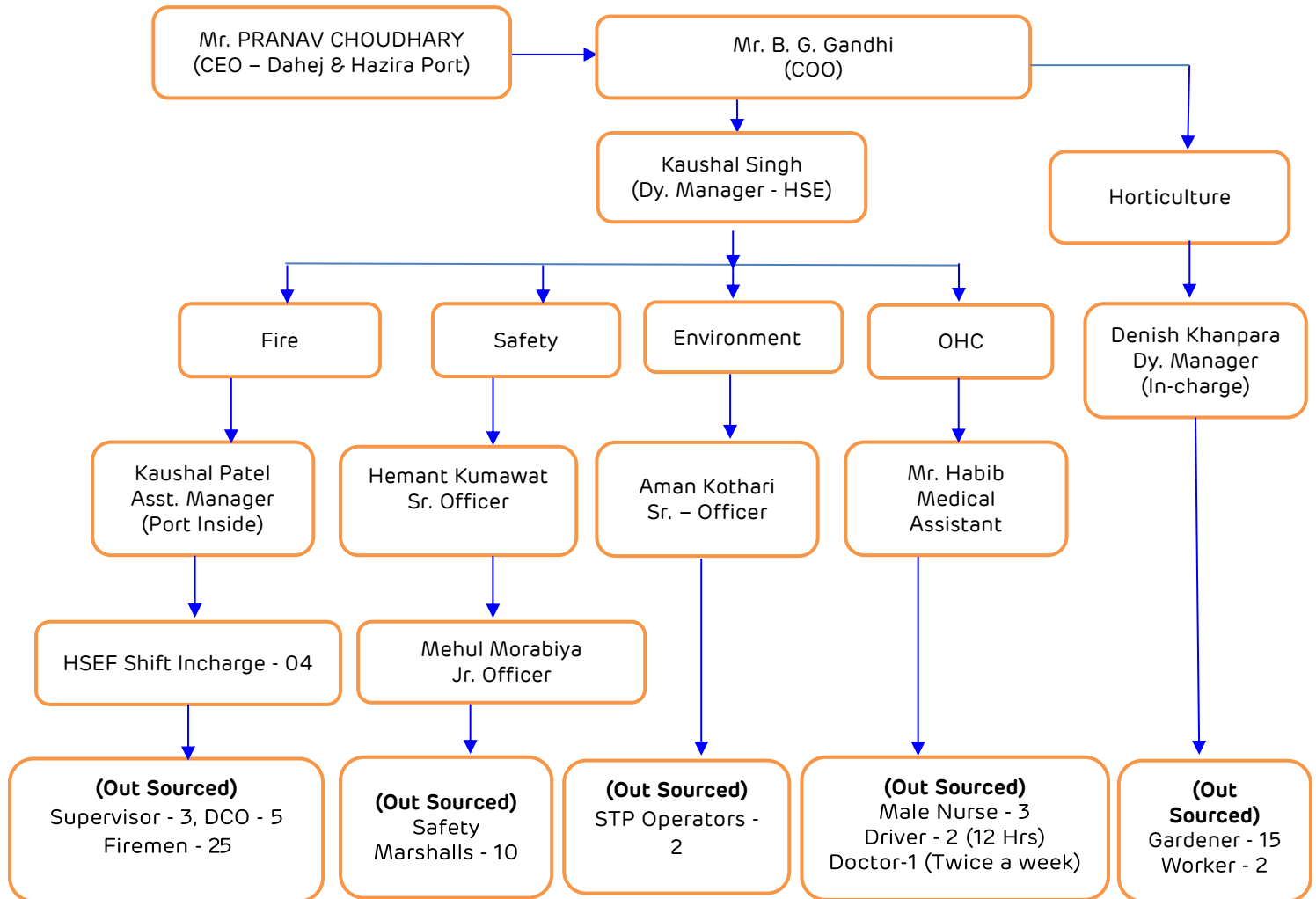
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	EHS Manpower	5.54	5.54
2.	Legal & Statutory Expenses	1.50	0.34
3.	Environmental Monitoring Services	20.90	18.30
4.	Water Consumption	56.38	55.64
5.	Hazardous Waste Management & Disposal	1.05	2.07
6.	Greenbelt Development and Plantation	47.02	45.00
7.	O&M of Pollution control measures	6.40	5.30
8.	Environment Day Celebration	0.50	0.50
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92
10.	Operation and Maintenance of Road Cleaning equipment and manpower	10.93	10.27
11.	Operation and Maintenance of Fire staff	73.74	73.74
12.	Shoreline Monitoring	15.0	10.35
13.	Ergonomics and Health-hygiene Survey	2.0	1.25
TOTAL AMOUNT (IN LACS)		242.88	230.22

CAPITAL EXPENDITURE			
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	Horticulture Development	35.0	22.57
2.	EHS Display Board	5.0	5.0
3.	Bio Diversity	7.0	7.0
TOTAL AMOUNT (IN LACS)		47.0	34.57

Annexure - 7: Organogram of APPPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT PVT. LTD.

Dept.: QHSE Management Cell



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	11 Years
2.	Denish Khanpara	Dy. Manager	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	11 Years
3.	Kaushal Patel	Asst. Manager	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	13 Years
4.	Hemant Kumawat	Sr. Officer	Dip – Mech, Dip. In Fire & Safety, NEBOSH	9 Year
5.	Aman Kothari	Sr. Officer	M.Sc. Environment Science & Technology, PDIS	7 Years
6.	Mehul Morabiya	Jr. Officer	B.Sc. Fire & Safety, Advance Diploma in Industrial Safety, NEBOSH	8 Years

Annexure - 8
CSR Report – APDPPL, Dahej
Half Yearly Report- Adani Port- Dahej (Oct- 2018 to March - 2019)

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

INTRODUCTION

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

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

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

Domains of CSR Framework

EDUCATION

Smart Board in Jageshwar Primary School:



Adani Foundation – Dahej has constructed two classrooms for smart class at Govt. Primary School, Jageshwar Village with the cost of Rs. 10.92 Lakhs. We have also installed two e-class boards with all multimedia and allied infrastructural facilities with the funding of Rs. 3.28 Lakhs so cumulative CSR investment is Rs. 14.20 Lakhs for this school.



On the auspicious day of 25th Jan., School administration has enthusiastically organized the inauguration ceremony and felicitation program, for the corporates who have contributed their CSR Investment to their school. As the most prime contributor to the cause, Adani Foundation has been

invited with high respect as Reliance Foundation, too. The program was inaugurated by the Chief Guest, Shri Ishwarsinh Patel, Minister of State, Co-operation, Sports, Youth & Cultural Activities (Independent Charge), Transport (State Minister), as well as Shri B. G. Gandhi, COO, APDPPL, Shri Nileshkumar Valecha, Site President, RIL, Shri Mansukh Vasava, MP, Bharuch, Shri Arunsinh Rana, MLA, Vagra, Shri K. P. Patel, District Primary Education Officer, Bharuch and Shri Ishwarsinh Gohil, President, Block Panchayat, Vagra. The glory of the event is that the recognition by School Management for our CSR initiatives.



Sports Enhancement Initiative:



Adani Foundation - Dahej has been organizing "Lakhigam Premier League-2018-19" cricket tournament for its nearest and most important project village i.e. Lakhigam from last few years. We have inaugurated this exciting event on the 70th Republic Day by Shri B. G. Gandhi, COO, APDPPL & Shri Satish Gohil, President, Lakhigam Gram Panchayat in the presence of HoDs and employees of Adani Port as well as the village leaders and players of 30 vibrant teams.



During his inaugural speech, Shri B. G. Gandhi quoted an inspiring

sentence to the audience: "Sports itself is strengthening relationship and attached business with the society where we operate." People applauded nicely in the response.

Youth group of the village has shown tremendous zeal and power during opening ceremony. Village president also appreciated the initiative by Adani Foundation. During post session of the ceremony, some key village leaders revealed us very important stuff that while cricket tournament show every year, we have been experiencing improvement of our internal village relations which were badly stopped due to election or any public/political incident happened in the past.



Learning Enrichment Programme:

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

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



The project is serving 308 weak students of 8 Govt. Primary Schools of 7 Project Villages. The project is implemented by dedicated teachers

under Vidya Bharti Foundation, Ahmedbad based NGOs wokring towards education upliftment of children in need of special attention.

Community Health

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

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

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

Mega Multi-Diagnostic Camp: -

On dated 24th Feb. (Sunday), we have organized Mega Multi-Diagnostic Camp at Dahej Primary Health Centre. The salient features of the event are as follows:



- The camp is in joint partnership with PHC, Dahej and Orchid Multispecialty Hospital, Bharuch.
- As multi-speciality camp, the following doctors present to cater the medical services:
 1. Block Health Officer, Vagra
 2. Gynaecologist
 3. Skin & VD specialist
 4. Ayush & MBBS Doctors
- We have served 480 patients of 8-9 villages during the half day camp i.e. (10:00 a.m. to 2:00 p.m.)

- Sanginis, ASHA Workers, Aaganwadis Workers are the grass root campaigners of the event.
- Patients were satisfied by the service.
- Block Health Officer and other doctors also appreciated the noble cause done by AF.
- Village presidents of surrounding villages and neighbouring corporates also counted the event with positive outlook.

Mini Multi-Diagnostic Camp: -



On dated 24th March. (Sunday), we have organized Mini Multi-Diagnostic Camp at Lakhigam. We have served 280 patients of Lakhigam village during the half day camp. We focusing Gynaec patients in this camp.



Mobile Health Care Unit:

We are providing mobile health car van unit in 11 villages nearby to our Dahej port. We are providing no cost medical services for the people in the area. From Oct 2018 to March 2019, total **10604 patients treated in which 1447 patients added** as a new patient to total beneficiaries.



Health Awareness Programs:

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

Dahej MMU organised awareness program on sanitation with anganwadi children and their mother's at Anganwadi Kendra at DAHEJ.



General Medical Camp:

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

Dahej MMU organized Health camp at Lakhigam Village on 29th Dec 2018. Total Patient as 56 who had taken benefit of it.



Dahej MMU organised General health camp at Jolva village. Total 42 persons have taken benefit of that Health camp.

SuPoshan Project:

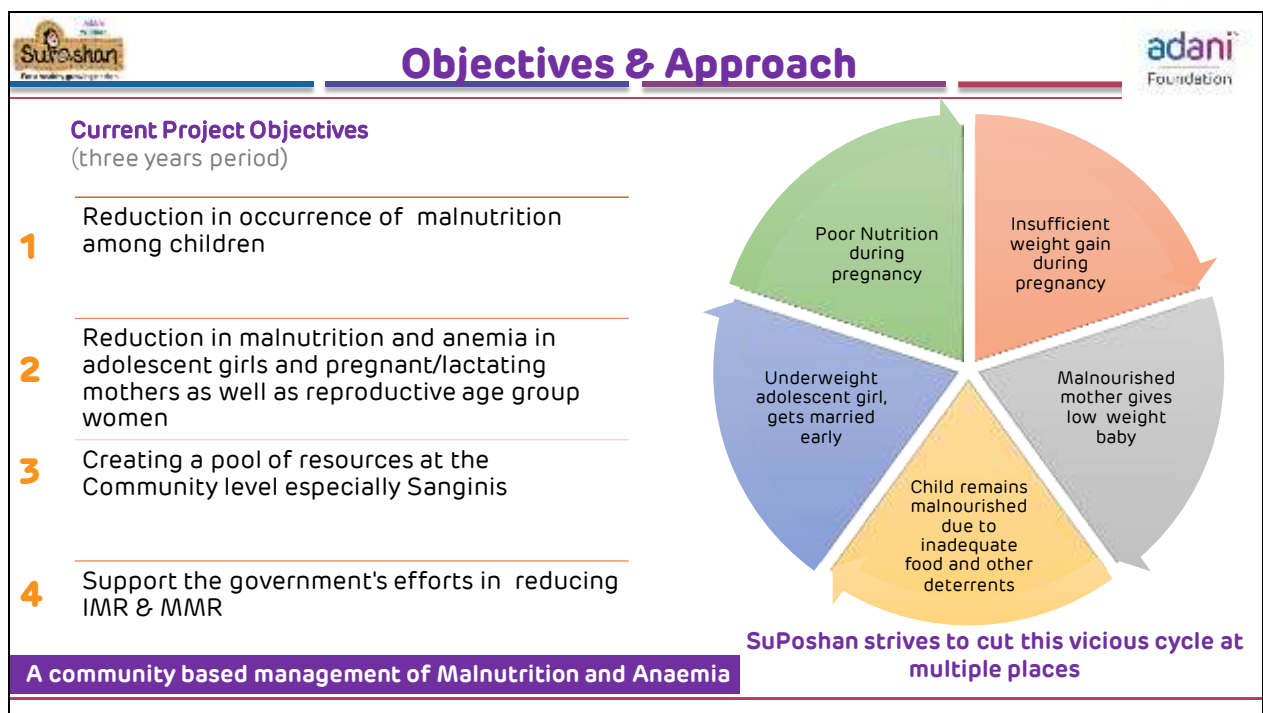
SuPoshan is taking life cycle approach for curbing malnutrition. One of the prime reason for malnutrition is poor health of mother during pregnancy and during lactation period.

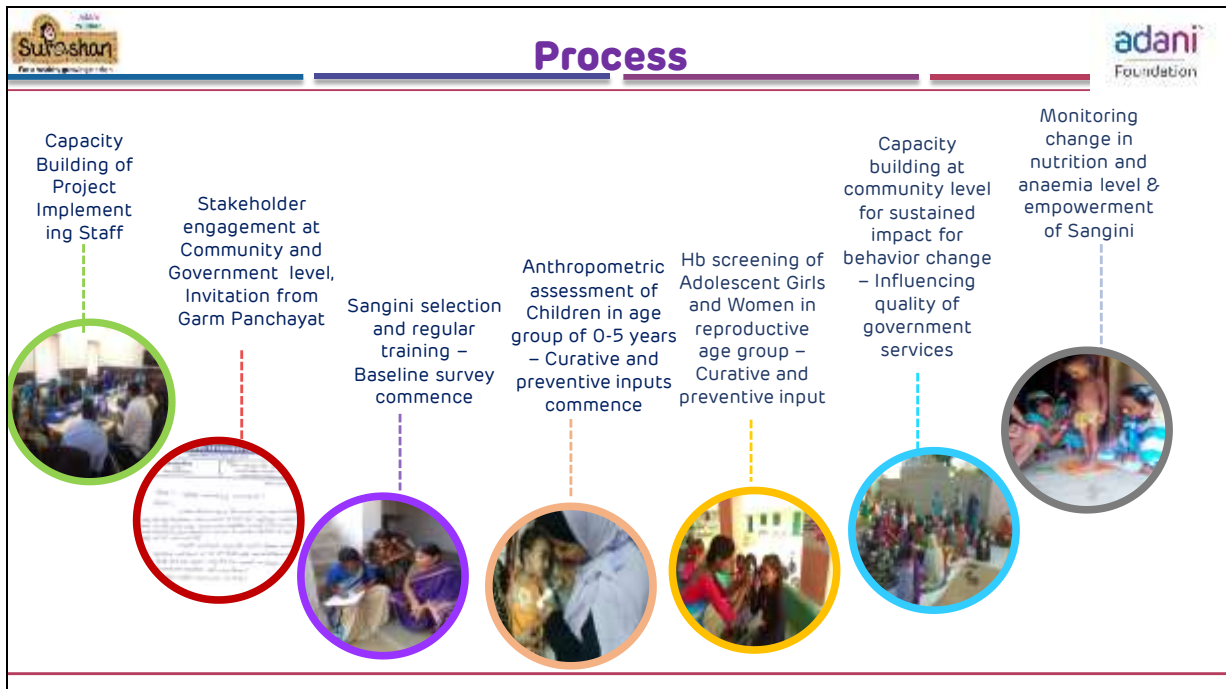
SuPoshan works with all three important target groups Children though their mothers, adolescent girls and reproductive age women.

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

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

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





Dahej Cluster is implementing SuPoshan Project in 7 Villages. In these seven



villages, 8 Sanginis are combating malnourishment in their respective villages. They are empowered with knowledge, skills and different aids by Adani Foundation. We are conducting awareness, segregation of important health information and news to mothers, children, adolescent girls and women at large.



Sustainable Livelihood Development Programme

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

CBC Project:

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

The salient activities undertaken of the project from October 2018 to March 2019 is as under:

1. Artificial Insemination:



Animal holding families are now ready to accept artificial breeding method towards production and reproduction of good animals through Artificial Insemination. It leads to better animals with milking and healthy condition. More than 300 animals covered so far in the Oct-2018 To march-2019 six months of financial year 2018-19.

2. Foot & Mouth Disease Vaccination:



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

3. Deworming:



Deworming is not practiced by local livestock families which is continued from last year. At present, **600 animals** were taken benefits of this activity. Deworming leads to improved health condition of milking animals for increasing productivity. It also reduces calf mortality occurred due to heavy endoparasitic infestation.

4. Vermi compost Demo:



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

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

5. Infertility Camp: -



Oct-18 To March-19 We Organized 6 Infertility Camp for animal in different Villages. **Total 189** Animal Cow & Buffalo Treated Under this Program.



6. Live Stock Training for farmers: -



We have Organized 11 live Stock training for farmers in 11 Different Villages with support of BAIF during the Oct-18 to March-19. In this training program total 521 farmers (Male & Female) participated in Program.

7. Calving Care: -



Calving rate is increased in cattle population of this area after AF-BAIF CBC Project. Animal holding families have been first time acquaint with high genetic Cross-breed birth of animals through AI. More than 40 births of cows and buffs are taken place in this six months.

Deworming is not only important to normal animals but also for calves as well as pregnant mothers.

Shiv Shakti Sakhi Mandal – Bag Making Group:

Shiv Shakti Sakhi Mandal (SSSM) had prepared 290 nos. School Bags for Shala Pravetsosav – 2018. and 535 Jute Bag for Adani & Birla Copper Ltd. and Getting another Bag Making order for third Party.



SHG is in process of capacity building as under:

1. Bag Design Alteration for quality enrichment,
2. Raw Material sourcing for cost-effective procurement,
3. Market Linkages with other corporates.

Rural Infrastructure Development

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

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

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

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

Rural Transformation & Safety Project:



AF Constructed Circle at Dahej Bus-stand for Traffic Solution and safety purpose. Village Panchayat Presidents think out of box like beautification at village entry point, Circle at Cross Road at Dahej village is one of such example with benefits of road traffic safety due to frequent vehicles movements.

Social Security Project:

BPL and pro-poor families have lack of basic amenity like shelter. AF has been safeguarding right to shelter for the deprived section of the society with genuine selection of beneficiaries in nearby villages since its inception at Dahej site. In last Six Months Af Constructed 10 individuals Avash at Lakhigam for Villagers. Total Cost of 10 Avash is Rs. 35.80lacs.

Public Utility Project:



Community Hall is the basic requirement of any village for social gathering of the villagers. We always support surrounding villages for creation of essential community assets where even huge budget is

not hurdle for Awe constructed Community Hall at Lakhigam with Electricity and Toilet & Bathroom facility.

We Constructed Class Room at Primary School Suva and Jolva each classroom Cost is Rs. 6.76lacs. We also Constructed Crematorium at Jageshwar Village with cost of Rs. 9.73lacs.

Contribution of Rs. 10 Lakhs to Bharuch District CSR Unit:



The District Administration has been taken up an initiative of heritage site conservation in Bharuch District as a part of CSR activities under Bharuch District CSR Unit. Under this initiative, the District Administration in collaboration with District Tourism Development Society is to be taking up the work of cleaning and refurbishment of heritage sites, beautification and development as a heritage tourist point etc. As and when requires, Adani Foundation has been very generous in contributing towards the developmental activities of the district to be an integral part of the growth story of Bharuch District. We were requested with other corporates to

contribute to this noble cause so taking up a call by Shri B. G. Gandhi, COO & Site Head, APDPPL and Shri Bhavesh Donda, Head – Corporate Affairs presented our contribution of Rs. 10 Lakhs to Shri Ravi Kumar Arora, Collector Bharuch and Shri Sanjay Soni, Chief Officer, Bharuch Municipality.