

adani

o/c

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

Date: 25/05/2018

To

✓ The Additional Principal Chief Conservator of Forests (C),
Western Regional Office,
Ministry of Environment, Forest & Climate Change
E-5, Arera colony, Link Road-3,
Ravishankar Nagar, Bhopal-462016 (M.P.)
Email: rowz.bpl-mef@nic.in

Dear Sir,

Sub.:- Six Monthly Compliance Report of Environment and CRZ Clearance for the period from
October 2017 to March 2018.

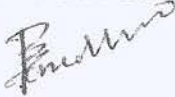
Ref.:- 1) Environmental and CRZ clearances granted to M/s. Adani Petronet (Dahej) Port Pvt. Ltd. for Phase-I and Phase-II vide letters dated 6th July, 2007 and 11th November, 2008 bearing F. No.: 11-37/2007-IA-III, respectively.
2) CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG vide letter dated 16th May, 2007 bearing No.: ENV-102006-71-P for Phase-I and letter dated 29th September, 2008 bearing No.: ENV-10-2007-2126-E for Phase-II.

Please find enclosed herewith point wise compliance report (Hard copy as well as in a CD) of conditions stipulated in the above referred letters.

Thank you,

Yours Faithfully,

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



(Authorized Signatory)

Copy to:

1. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
2. The Director, Forest and Environment Department, Block-14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat- 382010
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390023
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382010(Gujarat).
5. The Regional Officer, Gujarat Pollution Control Board, Bharuch, Gujarat.

Adani Petronet (Dahej) Port Pvt Ltd
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29/5/18
OFFICE
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Ministry of Environment & Forest
क्षेत्रीय कार्यालय (पश्चिमी)
Regional Office (Western)
भोपाल (ब.प्र.)-462018

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.

Sr. No.	Specific Conditions	Compliance
P2(i)	All the conditions stipulated by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 shall be strictly adhered to	Complied. All the conditions mention by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJ060/2006-BHO/1508, dtd., 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annex – 1 .
P2(ii)	All the conditions stipulated by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 dated 16.6.2008 shall be strictly adhered to	Complied. All the conditions mention by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annex – 1 .
P2(iii)	No reclamation will be carried out for the activity	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.
P2(iv)	All the conditions stipulated by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 under the Forest Conservation Act shall complied.	Complied. All the condition mentioned by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annex – 1 .
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	Complied. Sewage Treatment Plant of capacity 25 M ³ / day has been installed and is in operation.
P2(vi), P1(ii)	Afforestation in 200 ha. with mangroves should be undertaken under the project, as identified by the Gujarat Forest Department	Complied. Mangrove afforestation has been carried out in an area of 400 ha. Details are given below. 1. 100 ha near village Dandi, Dist Surat– 2011 2. 50 ha near village Jakhau, Dist Kutch – 2011 3. 50 ha near Padri bit, Dist Bhavnagar – 2011 4. 200 ha near Malpur, Dist Jambusar – 2013-14 Reports of Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.

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

Sr. No.	Specific Conditions	Compliance
P2(vii)	Afforestation @1:3 shall be carried out in case of any trees to be cut.	Complied. <ul style="list-style-type: none"> Afforestation on 38 ha. Land has been completed with the help of forest department during 2012-14. Land has been declared as reserve forest vide notification dated 23/12/2008. Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
P2(viii), P1(iii)	The recommendations of the Risk Assessment Report should be incorporated	Complied. Risk Assessment Report was submitted along with compliance report dated 20/02/2008. The recommendation of risk assessment are incorporated and being followed during construction and operation phases.
P2(ix), P1(v)	The materials for the filling and pavement construction should be made available from approved quarries.	Complied. Construction of the project (Phase I & II) was completed in February 2011.
P2(x), P1(vi)	Sufficient fixed and mobile firefighting system should be provided exclusively for the terminal in consultation with the local statutory bodies.	Complied. Adequate fixed and mobile firefighting systems are provided. Details of the same are enclosed as Annexure – 2 .
P2(xi), P1(x)	All development in the port should be carried out in accordance with the Coastal Regulation Zone Notification, 1991 and approved Coastal Zone Management Plan of Gujarat.	Complied. Construction of Phase I & II has been completed in February 2011 and same is carried out in accordance with CRZ Notification 1991.
P2(xii), P1(xi)	There shall be no withdrawal of ground water in CRZ area for this project. The proponent should ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply. Two Piezometers has been installed at different locations inside port. Regular monitoring of ground water level & quality is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Copies of reports are enclosed as Annexure 3B .
P2(xiii), P1(xii)	The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Complied. Project is commissioned after obtaining permission from PWD and Electricity Department.

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.

Sr. No.	Specific Conditions	Compliance
		1. GIDC permission dtd 19.02.2013 2. Electricity Department approval dtd 18.02.2011
P2(xiv), P1(xiii)	Specific arrangements for rain water harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized. Details in this regard shall be furnished to this Ministry's Regional Office at Bhopal within 3 months	Complied. The feasibility study for rain water harvesting was conducted. Based on the report it may be concluded that rain water harvesting is not advisable as the area is next to the coast. Report was submitted along with the half-yearly compliance report dated 22.05.2015.
P2(xv), P1(xv)	No land reclamation should be carried out for this project.	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.
P2(xvi), P1(xvi)	Green buffer zone should be provided all around the project area in consultation with local forest department and report submitted to this Ministry's Regional Office at Bhopal.	Complying with. Considering the expansion plan, Green belt is being developed on periphery of the project boundary. So far 8.0 ha of Green belt is developed which mainly includes casuarina, wasigtonia palm, cassia samiea, peltorum, delonix regia, ficus sps. Details of green belt area is enclosed as Annex – 4 .
P2(xvii), P1(xiv)	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	Complied. Construction of the project (Phase I & II) was completed in February 2011 and same is in conformity with the provisions of the CRZ Notification 1991.
P2(xviii), P1(xvii)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 should be stored in the Coastal Regulation Zone area.	Complied. APDPPL is handling dry cargo mainly coal and other bulk cargos at designated storage areas in compliance to the CRZ Notification 1991 and 2011 and as per approval received.
P1(iv)	Location of general cargo berth should be taken in to considerations with regard to location of LNG terminal	Complied. General cargo berth (Solid Cargo Port Terminal jetty) is approx. 500 m away from the LNG jetty of Petronet LNG Ltd.
P1(vii)	The wave tranquility study and the ship maneuvering studies carried out should be taken in to account while operating the Port.	Complied. Ship mooring study and wave tranquility studies were carried out to understand the wind wave and swell wave conditions. The recommendations are being regularly followed during port operations.
P1(viii)	The project proponent should ensure that during construction and operation	Complied.

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for Environment and CRZ Clearance for the development of Solid Cargo Port Terminal Phase – I and Phase – II.

Sr. No.	Specific Conditions	Compliance
	of the port there will be no impact on the livelihood of the fisherman. The fisherman should be provided free access to carry out the fishing activity.	There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. They are continuing with their activities without any impact from project.
P1(ix)	All necessary precaution while undertaking construction and operation of the port should be taken keeping in view the bathymetric changes caused due to cyclones.	Complied. Construction (Phase I & II) activities are completed in February, 2011. APDPPL has a well-defined DMP (covering natural disasters including cyclones) and regular mock drills are being conducted. DMP is also reviewed at regular interval. Mock drill is being conducted as per plan. Last Mock drill was conducted on 23.03.2018. Last revision in the DMP was done on 01.12.2017.
General Conditions		
P2(i), P1(i)	Construction of proposed structures shall be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned state Government Departments/Agencies.	Complied. <ul style="list-style-type: none"> All the development activities are being taken up in accordance with the CRZ notification, 1991 & its subsequent amendments. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87.
P2(ii), P1(ii)	Adequate provision for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surrounding.	Complied. Construction of the project (Phase I & II) was completed on February 2011. During construction all facilities such as water supply, fuel, sanitation etc. was provided.
P2(iii), P1(iii)	The project authorities must make necessary arrangements for disposal of solid waste and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities	Complied. <ul style="list-style-type: none"> The Project (Phase I & II) activities are not generating any trade effluent. Only domestic effluent is being generated which was treated in the STP outside CRZ area and used for horticulture within the premises. The noise monitoring results, are enclosed as Annexure – 3G.

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

Sr. No.	Specific Conditions	Compliance
	including the Central/State Pollution Control Board and the Union Ministry of Environment and Forest under the Environmental (Protection) Act, 1986, whichever are more stringent.	<ul style="list-style-type: none"> Quality of treated domestic effluent is also being monitored by NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Please refer Annexure – 3F. Both reports for confirm compliance with applicable standards.
P2(iv), P1(iv)	The proponent shall obtain the requisite consents for discharge of effluents and emission under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.	<p>Complied.</p> <p>APDPPL has obtained renewal of CC&A under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board AWH 73359 dated: 28.10.2015 from GPCB which is valid up to 16.7.2020.</p>
P2(v), P1(v)	The proponent shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The record of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.	<p>Complied.</p> <ul style="list-style-type: none"> Domestic effluent is being treated in STPs. The treated water conforming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October 2017 – March 2018 are enclosed as Annexure – 3F. Reports are available at site for the inspection and APDPPL regularly submits report to GPCB.
P2(vi), P1(vi)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	<p>Complied.</p> <ul style="list-style-type: none"> APDPPL has engaged M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory for environmental monitoring. The monitoring results for the period from October 2017 – March 2018 are enclosed as Annexure – 3A to 3H.
P2(vii), P1(vii)	The sand dunes and mangroves, if any on the site should not be disturbed in any way.	<p>Complied.</p> <ul style="list-style-type: none"> There are no sand dunes in project area. Free flow to the mangroves near the jetty approach is maintained.
P2(viii), P1(viii)	A copy of the clearance letter will be marked to the concern Panchayat/local NGO, if any, from whom any	<p>Complied.</p> <p>Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no.</p>

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

Sr. No.	Specific Conditions	Compliance
	suggestion/representation has been received while processing the proposal.	APPPL-EHS/MoEF RO/EC Comp (I&II) dated 28.11.2017.
P2(ix), P1(ix)	The Gujarat State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to the project proponent.
P2(x), P1(x)	The fund earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2017-18 was approx. Rs. 210.72 lacs. Details of the environmental budget and expenditure for the FY 2017-18 is enclosed as Annexure –5 .
P2(xi), P1(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Complying with. <ul style="list-style-type: none"> • APDPPL is regularly submit six monthly compliance reports which comprises 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 • Recent visit of Regional officer of Gujarat/ Pollution Control Board, Bharuch was on 14.03.2018.
P2(xii), P1(xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted and complied with. There is no change in the Phase I & II development.
P2(xiii), P1(xiii)	This Ministry reserves the right to revoke this clearance, if any of the conditions	Noted & agreed.

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

Sr. No.	Specific Conditions	Compliance
	stipulated are not complied with to the satisfaction of the Ministry.	
P2(xiv), P1(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted & Agreed
P2(xv), P1(xv)	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forest at http://www.envforin.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	Complied. <ul style="list-style-type: none"> Advertisement of phase 1 approval was published in Gujarati language in "Sandesh" newspaper dated 01/09/2007 and in English language in "GUJARAT SAMACHAR" newspaper dated 11.9.2007. Advertisement of phase 2 approval was published in gujarati language in "Divya Bhaskar" newspaper and in English language in "The Times of India" dated 19/11/2008. Copies of the advertisements were submitted to MoEF&CC vide compliance report dated 27/11/2013.
P2(xvi), P1(xvi)	The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Complied. <ul style="list-style-type: none"> Financial closure date of Project was 31st July 2007. Existing Facility – construction started date July 2007. Land development work for phase II started in Jan. 2009. The permission to construct of Solid Cargo Beth at Dahej port has been obtained from GMB vide letter dated 23 Feb 2006 bearing no GMB/N/PVT/264(10)/1910/11201.
P2(xvii)	Any appeal against this environment clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Appellate Act, 1997	Noted.

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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**Compliance to the conditions stipulated in
CRZ clearance/ recommendation for
proposed cargo port terminal phase I, II**

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

Sr. no.	Conditions	Status/Action taken
P2(1), P1(1)	The provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by the APPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the APPL.	Complied. All the activities are being complying with the provisions of the CRZ notification and subsequent amendments.
P2(2), P1(2)	All necessary permissions from different Government Departments / agencies shall be obtained by the APPL before commencing the expansion activities.	Complied. <ul style="list-style-type: none"> All the necessary permissions have been obtained by M/s. APDPPL. Environment Clearance for phase I & Phase II obtained vide letters dated 6th July, 2007 11th November 2008 and bearing F. No. 11-37/2007-IA-III respectively CC&A is obtained from Gujarat Pollution Control Board is obtained vide letter no AWH-73359 dated 28.10.2015 and valid up 16.07.2020.
P2(3), P1(5)	The APPL shall carry out the construction activities either in the CRZ area or into the sea / estuary only after having the detailed study with respect to chances of erosion / accretion due to the proposed activities conducted through the NIO and vetted through the CWPRS and shall implement all necessary steps / actions as may be suggested by these institutes for mitigating the potential negative impacts including the checking of erosion and/or accretion in the region. Further, the company shall have to have the construction drawings approved for this purpose through a competent agency before undertaking any construction and/or enabling activities at the site	Complied. <ul style="list-style-type: none"> Construction (Phase I & II) of the port was completed in February 2011. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87.
P2(4), P1(7)	The APPL shall have to face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government of Gujarat and shall have to take all necessary actions as may be desired by the Government, from time to time.	Noted and agreed to comply.
P2(5), P1(10)	No dredging and/or reclamation activity shall be carried out in the CRZ area	Complied.

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

Sr. no.	Conditions	Status/Action taken
	categorized as CRZ I (i) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas are not affected due to any of the project activities.	<ul style="list-style-type: none"> No dredging/reclamation have been done in CRZ I (i). There is no notified ecologically important and significant area present in the project vicinity.
P2(6), P1(11)	No effluent or sewage shall be discharged into the sea / creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises to the extract possible.	<p>Complied.</p> <ul style="list-style-type: none"> 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 2017 to March 2018 are enclosed as Annexure – 3F. Reports are available at site for the inspection and APDPPL regularly submits report to GPCB.
P2(7), P1(12)	All the recommendations and suggestions given by the NIO in the Comprehensive Environment Impact Assessment report for conservation / protection and betterment of environment shall be implemented strictly by the APPL.	<p>Complying with.</p> <p>A Separate EIA has been prepared for phase III development, which includes EMP for the current scenario. All the recommendations and suggestions given by M/s Chola mandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 7.</p>
P2(8), P1(13)	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves and other coastal/marine habitat. The construction activities shall be carried out only under the constant supervision of the NIO.	<p>Complied.</p> <ul style="list-style-type: none"> Construction (Phase I & II) of the project was completed on February 2011. Free flow to the mangroves near the jetty approach is maintained.
P2(9), P1(14)	The APPL shall strictly ensure that no creeks are blocked due to any activity at port and the mangroves habitat are neither disturbed nor destroyed due to any activity.	<p>Complied.</p> <ul style="list-style-type: none"> No creeks are blocked due to port activity. Free flow to the mangroves near the jetty approach is maintained.
P2(10), P1(15)	The APPL shall participate financially for any common facility that may be established or any common study that may be carried out for the Gulf of Khambhat region for environmental protection and/or management purpose.	<p>Noted and agreed to comply. APDPPL is committed for the environment protection.</p>

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

Sr. no.	Conditions	Status/Action taken
P2(11), P1(16)	The construction debris and/or any other type of waste shall not be disposed into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	Complied. Construction of the project was completed on February 2011. All the debris has been removed.
P2(12), P1(17)	The construction camps shall be located outside the CRZ area and the construction labour shall be provided the necessary amenities, including sanitation, water supply and fuel and it shall be ensure that the environmental conditions are not deteriorated by the construction labours.	Complied. <ul style="list-style-type: none"> Construction of the project was completed on February 2011. No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
P2(13), P1(18)	The APPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency plan and shall submit the same to this Department after having it vetted through the India Coast Guard.	Complied <ul style="list-style-type: none"> Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. 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 23.03.2018. Last revision in the DMP was done on 01.12.2017.
P2(14), P1(19)	The APPL shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of proposed activities and the environmental impacts of the proposed activities.	Noted and agreed to comply.
P2 (15)	The mangrove plantation in 50 ha. of area on Gujarat cost line shall be carried out by the applicant in a phased manner in five years	Complied. Mangrove afforestation has been carried out in an area of 400 ha. Details are given below. <ol style="list-style-type: none"> 100 ha near village Dandi, Dist Surat– 2011 50 ha near village Jakhau, Dist Kutch – 2011 50 ha near Padri bit, Dist Bhavnagar – 2011 200 ha near Malpur, Dist Jambusar – 2013-14

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Status/Action taken
		Reports of Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
P2 (16)	The construction activities in the Forest land and the Gauchar land shall be carried out as per the permission accorded by the concerned Authority for the said purpose	Complied. Construction of the project was completed on February 2011 in compliance to the approvals.
P1(3)	The APPL shall take up massive mangrove plantation in 200 ha of area in and around the project site or at an alternative site to be selected in consultation with this Department.	Complied. Mangrove afforestation has been carried out in an area of 400 ha. Details are given below. <ol style="list-style-type: none"> 1. 100 ha near village Dandi, Dist Surat– 2011 2. 50 ha near village Jakhau, Dist Kutch – 2011 3. 50 ha near Padri bit, Dist Bhavnagar – 2011 4. 200 ha near Malpur, Dist Jambusar – 2013-14 Reports of Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
P1(4)	The approach road and trestle passing through the forestland shall be constructed only after obtaining necessary permissions under the relevant forest laws including the forest (Conservation) Act. further, no activity shall be carried out in the forestland or in the area having natural plantation / forest till all mandatory clearances under various Forest Acts including the Forests Conservation Act obtained.	Complied. <ul style="list-style-type: none"> • All the activities on forest land have been started only after obtaining forest land clearance. • Clearance from MOEF was obtained vide letter no 6-GJC060/2006-BHO/1508 dated 16th June 2008. • The same was communicated by State Forest Department vide letter no A-1006(10-9)SF-76-K dated 1st July 2008 from DOEF.
P1(6)	The project proponent shall have to make a separate application and shall have to obtain prior clearance under the CRZ Notification for any activities other than those proposed and got approved as part of this phase I activities.	Complied. APDPPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Status/Action taken
P1(8)	The project proponents shall ensure that the local people shall be provided with an alternative access to the sea in case the existing access to Rock-Bund could not be made available to them.	Complied. Alternative access to the sea is available adjoining to the project site.
P1(9)	The project proponents shall ensure that the construction period shall be reduced by proper planning and executing the construction program in time-bound manner to avoid any time over-run.	Complied. Construction of the project was completed in February 2011.
P1(20)	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. The jetty and most of the approach of 1270 meter is supported on piles allowing adequate flow of water without significant obstruction.
	General Conditions	
P2(17), P1(21)	The groundwater shall not be tapped by the APPPL to meet with the water requirements in any case.	Complied. No ground water is being tapped by APDPPL and water demand is met through GIDC.
P2(18), P1(22)	The APPL shall take up massive green belt development activities in consultation with the Gujarat Institute of Desert Ecology/Forest Department. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Complying with. Green belt is being developed in an area of 8.0 ha including periphery of the project boundary. Details of the green development is enclosed is Annexure – 4.
P2(19), P1(23)	The APPL shall have to be contributing financially for taking up the socio-economic up-liftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8.
P2(20), P1(24)	A separate budget shall be earmarked for environmental management and socio – economic activities and details thereof shall be furnished to this department as well as the MoEF, GOI. The details with respect to the expenditure from this budget head shall also be furnished.	Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. • Key components of environment budget are environmental Monitoring, STP's (O&M), Closed Conveyor System Maintenance and etc. The allocation of revenue budget for Environment Cell for the FY 2017-

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

Sr. no.	Conditions	Status/Action taken
		<p>18 was approx. Rs. 210.72 lacs. Details of the environmental budget and expenditure for the October'17 to March'18 is enclosed as Annexure – 5.</p> <ul style="list-style-type: none"> Socio Economic activities funds are taken up in Education, Community Health and Sustainable livelihood development, Rural Infrastructure development etc. Details are enclosed as Annexure – 8.
P2(21), P1(25)	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	<p>Complied.</p> <p>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 – 6.</p>
P2(22), P1(26)	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the APPL to this Department as well as to the MoEF, GOI.	<p>Complied.</p> <p>Seawater and sediment is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Monitoring Report for the period October'17 to March'18 is enclosed in Annexure 3C and 3D. No significant changes observed.</p>
P2(23), P1(28)	A six monthly report on compliance of the condition mentioned in this letter shall have to be furnished by the APPL on regular basis to this Department.	<p>Complying with</p> <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports. Last compliance report was submitted vide letter dated 28.11.2017.
P2(24), P1(29)	Any other condition that may be stipulated by this Department from time to time for environmental protection/management purpose shall also have to be complied by the APPL.	<p>Noted and agreed to comply with the any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India</p>

	Adani Petronet (Dahej) Port Private Limited	From : Oct., 2017 To : Mar., 2018
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Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Status/Action taken
		from time to time for environmental protection.
P1(27)	The APPL shall have to contribute financially to support the National Green Corps scheme being implemented in Gujarat by GEER Foundation, Gandhinagar, in consultation with Forests and Environment Department.	Complied. A request in this regard for asking for the terms of Financial Contribution submitted to the GEER Foundation vide letter dated 17th April, 2009.

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

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

S. No.	Condition	Compliance
1	The legal status of the forest land shall remain unchanged	Noted.
2(a)	Compensatory afforestation shall be taken up by the forest department over 38.00 Ha non forest land (Survey No.2, Village-Pingot, Ta. Valiya, Dist. Bharuch at the cost of the project authority.	Complied. <ul style="list-style-type: none"> • APDPPL has transferred equivalent non forest land of 38 ha. Area of village Pingot, S.No. 2 paiki, Ta. Valiya, Dist. Bharuch in favour of Forest Department • APDPPL has deposited Rs. 33,06,000/- towards the cost of compensatory afforestation • Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.
2(b)	This CA land shall be notified as Reserved Forest.	Complied. The CA land has been notified as Reserved Forest vide notification dated 23/12/2008.
2(c)	The copy of the Notification issued under section 4 of the Indian Forest Act, 1927 shall be sent to this office within six months from the date of handing over of this forest land to the project authority.	Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017.
3	Penal compensatory afforestation shall be raised over 4.00 ha. Degraded forest land in (Survey No. – 572) Village mirapur, Ta. Valia, Dist. Bharuch	Complied. <ul style="list-style-type: none"> • APDPPL has deposited Rs. 3,48,000/- towards the cost of penal compensatory afforestation. • Compensatory plantation was taken up by Forest Department, Govt. of Gujarat.
4	All the funds received from the user agency under the project shall be transferred to the Ad-hoc Compensatory Afforestation Fund management & planning Agency (CAMPA) in A/c No. CA-1583 of Corporation bank Block 11, CGO Complex, Phase – I, Lodhi Road, New Delhi – 110003.	Complied. <ul style="list-style-type: none"> • All the funds received from user agency under project have been transferred to CAMPA by Forest Department, Govt. of Gujarat.
5	The forest land shall not be used for any purpose other than that specified in the project proposal.	Complied. Forest land is being used as per the proposal for which clearance has been obtained.

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

Fire Fighting Systems	Details
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	365 Nos.
Smoke Detector	54 Nos.
Fire Bucket	68 Nos.
Emergency Siren	4 Nos.
Port Water Reservoir Pump House	5040 KL
Silo Water Reservoir Pump House	5013 KL
Fire Vehicles Detail	
Multi-Purpose Fire Tender - Water	10 KL
Multi-Purpose Fire Tender - Foam	1.5 KL
Dry Chemical Powder @ 50 Kgs. (MFT)	2 Nos.
CO ₂ @ 4.5 Kgs. (MFT)	2 Nos.
Fire Tender (01 No.)	12 KL
Fire Water Bowser (01 No.)	7.5 KL
Trailer Pump (01 No.)	1800 LPM

Annexure-3

Environment Monitoring Report for the period from Oct-17 to March-18

3A. AMBIENT AIR QUALITY MONITORING: -

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

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM 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	03/10/2017	87.62	52.67	0.76	BDL*	2.46	10.58	1.05	BDL*	32.08	23.61	37.57	23.54
2	06/10/2017	50.91	22.57	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	22.52	7.51	24.73	25.68
3	10/10/2017	78.70	45.57	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	28.99	18.37	28.50	30.20
4	13/10/2017	92.39	55.60	0.82	BDL*	2.64	10.88	0.52	BDL*	38.25	8.39	26.33	24.56
5	17/10/2017	52.39	20.57	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	52.43	10.54	19.20	29.30
6	20/10/2017	89.58	49.33	0.68	BDL*	2.26	10.76	0.94	BDL*	30.54	14.71	31.35	27.53
7	24/10/2017	75.48	44.31	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	24.37	21.39	42.52	20.68
8	27/10/2017	67.29	37.62	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	46.27	11.52	32.36	26.31
9	31/10/2017	59.31	32.61	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	18.20	13.38	29.45	28.57
10	03/11/2017	92.39	48.49	0.56	BDL*	2.46	10.69	0.68	BDL*	27.41	19.77	38.34	26.25
11	07/11/2017	62.72	31.35	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	51.25	10.59	29.49	22.58
12	10/11/2017	88.60	40.55	BDL*	BDL*	2.23	BDL*	0.70	BDL*	35.16	21.67	40.18	29.40
13	14/11/2017	56.30	29.68	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	20.56	12.51	23.16	17.52
14	17/11/2017	47.80	18.47	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	25.63	6.39	21.50	19.59
15	21/11/2017	86.29	42.64	0.54	BDL*	2.75	10.40	0.37	BDL*	44.70	7.60	32.36	21.31
16	24/11/2017	68.32	35.53	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	60.19	9.78	17.57	30.35
17	28/11/2017	72.42	39.71	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	32.48	16.69	25.38	23.52
18	01/12/2017	64.87	30.18	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	29.40	13.47	40.11	27.32
19	05/12/2017	48.60	18.39	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	35.46	9.35	30.83	26.19
20	08/12/2017	57.43	23.49	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	18.49	17.71	35.41	22.38
21	12/12/2017	88.42	50.29	0.75	BDL*	2.66	10.60	0.94	BDL*	42.44	16.39	38.75	28.47
22	15/12/2017	71.58	29.09	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	26.37	25.38	32.61	16.48
23	19/12/2017	86.69	40.88	0.84	BDL*	2.84	10.38	0.87	BDL*	31.22	20.57	44.94	23.44
24	22/12/2017	69.41	37.79	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	27.58	10.58	39.17	25.69
25	26/12/2017	76.37	33.19	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	23.95	21.74	36.48	24.20
26	29/12/2017	92.37	52.38	0.63	BDL*	2.14	10.54	0.41	BDL*	11.82	12.76	24.76	29.90
27	02/01/2018	92.58	53.59	0.70	BDL*	2.44	10.12	0.82	BDL*	35.46	13.35	38.43	22.20
28	05/01/2018	67.40	31.31	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	25.03	11.56	35.40	28.08
29	09/01/2018	73.59	42.81	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	42.31	17.72	43.45	29.32
30	12/01/2018	95.59	50.54	0.57	BDL*	2.34	10.62	0.38	BDL*	10.13	10.54	21.36	27.87
31	16/01/2018	51.73	19.14	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	29.50	8.40	25.92	19.52

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32	19/01/2018	71.47	30.73	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	22.35	21.45	28.44	26.57
33	23/01/2018	90.27	43.23	0.76	BDL*	2.60	10.56	0.81	BDL*	26.52	24.39	40.25	25.66
34	26/01/2018	81.61	35.74	BDL*	BDL*	BDL*	BDL*	0.93	BDL*	19.37	18.77	29.45	18.51
35	30/01/2018	69.32	25.17	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	15.49	12.41	32.40	23.07
36	02/02/2018	70.20	32.82	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	24.73	14.50	24.28	25.58
37	06/02/2018	84.53	49.54	0.69	BDL*	2.64	10.37	0.66	BDL*	41.12	23.61	41.19	22.45
38	09/02/2018	78.72	45.40	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	55.42	12.73	38.65	24.40
39	13/02/2018	87.38	39.88	0.64	BDL*	2.54	10.78	0.64	BDL*	32.78	21.34	43.37	30.33
40	16/02/2018	74.22	35.73	0.86	BDL*	2.76	BDL*	0.82	BDL*	58.40	24.67	36.39	27.63
41	20/02/2018	95.60	53.38	BDL*	BDL*	BDL*	10.59	0.32	BDL*	69.43	10.50	18.36	29.29
42	23/02/2018	76.37	48.20	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	50.36	16.32	30.21	19.32
43	27/02/2018	90.40	42.72	0.75	BDL*	2.67	10.26	0.36	BDL*	46.19	22.73	33.41	28.22
44	02/03/2018	94.53	51.00	0.67	BDL*	2.64	11.12	0.31	BDL*	32.43	23.68	37.24	23.30
45	06/03/2018	87.57	47.62	BDL*	BDL*	2.32	BDL*	0.82	BDL*	54.26	27.76	39.94	29.46
46	09/03/2018	74.28	41.72	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	46.38	25.66	26.95	27.28
47	13/03/2018	90.19	39.34	0.65	BDL*	2.48	10.36	0.58	BDL*	29.40	20.33	44.84	21.66
48	16/03/2018	79.59	42.23	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	36.68	17.68	33.20	30.44
49	20/03/2018	85.62	45.27	BDL*	BDL*	2.34	BDL*	0.69	BDL*	45.47	13.33	42.14	24.39
50	23/03/2018	92.39	54.97	0.86	BDL*	BDL*	10.64	0.27	BDL*	52.44	11.53	20.08	28.27
51	27/03/2018	82.40	48.95	0.58	BDL*	2.78	BDL*	0.55	BDL*	39.41	22.36	47.93	22.48
52	30/03/2018	62.61	36.04	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	27.58	19.77	28.32	18.47

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

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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	03/10/2017	81.49	45.51	BDL*	BDL*	2.18	10.45	0.72	BDL*	34.59	18.53	21.32	22.51
2	06/10/2017	90.19	41.34	0.65	BDL*	2.46	10.68	0.65	BDL*	39.44	21.38	30.35	28.57
3	10/10/2017	53.63	32.57	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	16.38	13.47	33.60	25.56
4	13/10/2017	78.59	48.44	BDL*	BDL*	BDL*	BDL*	0.97	BDL*	19.42	5.69	15.64	29.51
5	17/10/2017	66.68	29.65	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	24.88	7.39	36.84	16.84
6	20/10/2017	72.41	33.40	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	20.63	10.65	22.48	20.78
7	24/10/2017	64.20	27.56	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	32.46	17.42	39.16	27.40
8	27/10/2017	88.28	52.61	0.85	BDL*	BDL*	10.33	0.88	BDL*	21.24	23.67	24.48	19.40
9	31/10/2017	77.48	38.41	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	28.52	16.47	31.63	30.64
10	03/11/2017	61.10	27.56	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	35.47	15.40	35.41	18.42
11	07/11/2017	88.30	45.51	0.64	BDL*	BDL*	10.24	0.58	BDL*	23.45	7.53	21.88	26.35
12	10/11/2017	78.49	34.66	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	38.69	16.36	19.22	17.59
13	14/11/2017	52.40	31.32	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	31.36	22.41	29.25	23.14
14	17/11/2017	92.40	36.74	0.74	BDL*	2.54	11.80	0.42	BDL*	44.55	19.71	26.47	28.54
15	21/11/2017	75.32	29.65	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	19.64	5.39	14.75	19.51
16	24/11/2017	55.61	22.55	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	27.26	12.54	33.24	15.88
17	28/11/2017	66.32	26.72	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	16.41	14.53	22.56	22.48
18	01/12/2017	89.19	41.92	BDL*	BDL*	BDL*	10.01	0.92	BDL*	20.57	19.47	32.42	23.62
19	05/12/2017	54.73	31.48	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	28.32	12.48	37.39	27.49
20	08/12/2017	84.28	45.60	0.62	BDL*	2.26	10.24	0.72	BDL*	44.43	23.64	25.45	26.70
21	12/12/2017	68.39	39.79	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	21.17	13.51	27.92	17.72
22	15/12/2017	56.80	22.88	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	31.90	10.73	23.14	18.18
23	19/12/2017	80.38	34.99	0.52	BDL*	2.36	10.79	0.77	BDL*	33.10	16.57	26.79	22.22
24	22/12/2017	52.39	30.40	BDL*	BDL*	BDL*	BDL*	1.04	BDL*	19.08	7.47	30.34	29.55
25	26/12/2017	65.40	26.39	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	16.10	15.38	38.60	25.34
26	29/12/2017	76.39	43.88	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	24.45	21.38	40.15	16.48
27	02/01/2018	71.99	43.68	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	17.59	11.77	25.50	29.38
28	05/01/2018	93.42	50.73	BDL*	BDL*	BDL*	10.35	0.86	BDL*	35.47	16.51	27.62	17.76
29	09/01/2018	55.40	33.07	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	19.34	6.66	24.44	28.47
30	12/01/2018	81.42	47.77	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	20.22	17.53	33.55	26.98
31	16/01/2018	58.68	35.37	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	23.74	10.67	30.46	18.40
32	19/01/2018	60.38	25.85	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	27.55	9.61	19.36	16.69
33	23/01/2018	84.63	39.12	BDL*	BDL*	BDL*	10.22	0.71	BDL*	34.59	13.74	23.60	22.64
34	26/01/2018	68.68	29.65	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	13.19	21.63	35.65	27.50
35	30/01/2018	89.17	49.77	0.62	BDL*	2.10	BDL*	0.96	BDL*	47.19	18.37	22.14	21.82
36	02/02/2018	64.20	29.73	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	36.93	24.45	31.60	17.54
37	06/02/2018	73.58	40.38	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	46.60	17.38	20.26	25.19
38	09/02/2018	58.28	24.13	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	26.67	10.49	29.34	29.60
39	13/02/2018	62.38	28.52	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	41.62	16.52	37.42	21.64
40	16/02/2018	83.40	47.18	0.72	BDL*	2.42	10.50	0.40	BDL*	55.69	21.43	27.44	16.68
41	20/02/2018	70.29	32.61	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	32.53	13.63	35.57	27.20
42	23/02/2018	80.17	45.22	0.62	BDL*	BDL*	10.13	0.55	BDL*	27.26	8.48	25.42	20.72
43	27/02/2018	71.57	36.12	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	23.45	19.30	15.42	26.45

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44	02/03/2018	74.48	42.76	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	10.44	20.59	16.87	26.41
45	06/03/2018	68.29	33.57	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	42.34	23.65	30.03	16.15
46	09/03/2018	59.29	36.74	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	26.54	12.68	34.36	21.42
47	13/03/2018	80.63	34.45	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	33.69	18.63	22.17	18.65
48	16/03/2018	92.39	52.53	0.82	BDL*	2.34	10.53	0.47	BDL*	20.57	7.44	26.51	23.52
49	20/03/2018	63.52	30.02	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	19.68	11.42	31.09	27.32
50	23/03/2018	76.20	46.89	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	24.45	14.73	38.68	19.29
51	27/03/2018	66.21	35.45	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	30.41	17.35	40.61	17.58
52	30/03/2018	58.40	23.84	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	14.61	10.71	23.14	22.34

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

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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	03/10/2017	76.18	42.73	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	38.64	15.46	25.63	30.50
2	06/10/2017	68.32	28.55	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	18.40	11.53	28.40	21.31
3	10/10/2017	46.63	25.53	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	21.47	9.55	18.64	27.66
4	13/10/2017	58.59	31.69	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	24.53	12.57	29.51	15.52
5	17/10/2017	70.20	26.69	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	29.44	20.38	39.46	24.39
6	20/10/2017	82.37	43.58	0.56	BDL*	BDL*	BDL*	0.50	BDL*	35.27	17.40	32.62	16.52
7	24/10/2017	55.43	30.72	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	20.55	19.67	35.36	29.26
8	27/10/2017	62.40	33.31	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	32.20	14.45	38.38	25.28
9	31/10/2017	54.19	29.48	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	40.17	10.60	22.41	20.49
10	03/11/2017	53.18	22.65	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	23.40	17.47	31.48	23.35
11	07/11/2017	62.40	33.75	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	35.25	13.77	35.65	19.33
12	10/11/2017	71.30	30.72	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	43.25	11.40	23.49	24.20
13	14/11/2017	51.42	27.52	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	52.44	5.44	20.37	21.59
14	17/11/2017	63.61	24.60	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	20.44	16.57	29.07	27.20
15	21/11/2017	55.39	20.51	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	27.55	14.71	26.16	22.41
16	24/11/2017	66.30	38.51	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	33.18	18.30	36.53	20.39
17	28/11/2017	43.51	15.58	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	24.29	8.47	19.33	26.58
18	01/12/2017	56.71	27.99	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	32.55	16.73	45.13	25.66
19	05/12/2017	60.58	21.81	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	19.29	15.38	33.82	20.93
20	08/12/2017	53.60	18.99	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	37.97	21.65	28.45	19.75
21	12/12/2017	83.53	47.29	0.68	BDL*	2.36	10.21	0.38	BDL*	28.33	20.73	41.86	23.83
22	15/12/2017	62.72	24.69	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	21.10	23.37	29.73	27.57
23	19/12/2017	73.60	32.69	0.56	BDL*	2.51	10.62	0.66	BDL*	34.36	18.46	31.48	28.69
24	22/12/2017	42.61	26.69	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	23.81	14.51	34.52	22.10
25	26/12/2017	59.40	23.10	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	17.48	11.53	23.14	26.80
26	29/12/2017	71.21	40.29	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	30.44	24.73	37.43	24.85
27	02/01/2018	86.58	49.87	0.64	BDL*	2.22	BDL*	0.34	BDL*	24.29	20.37	35.61	21.39
28	05/01/2018	60.15	29.64	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	11.55	14.52	37.87	29.66
29	09/01/2018	43.59	18.65	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	20.15	12.40	38.21	24.45
30	12/01/2018	75.63	42.87	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	26.07	21.53	30.52	19.59
31	16/01/2018	68.38	23.10	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	16.29	13.79	27.36	26.45
32	19/01/2018	80.22	28.33	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	19.26	19.39	24.30	30.23
33	23/01/2018	79.66	35.04	0.51	BDL*	2.31	BDL*	0.62	BDL*	29.63	16.70	33.35	20.53
34	26/01/2018	55.60	25.35	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	17.48	9.76	19.21	22.61
35	30/01/2018	73.49	20.17	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	32.59	7.54	15.60	25.59
36	02/02/2018	52.32	22.95	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	61.62	5.50	20.77	26.34
37	06/02/2018	78.40	26.56	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	52.44	11.58	24.57	30.26
38	09/02/2018	84.61	50.75	0.72	BDL*	2.34	10.54	0.33	BDL*	46.22	16.71	41.55	23.32
39	13/02/2018	49.61	19.60	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	27.55	12.46	32.78	25.53
40	16/02/2018	58.60	34.57	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	36.44	18.35	30.26	29.67
41	20/02/2018	64.28	27.60	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	38.51	20.66	38.19	18.41
42	23/02/2018	54.31	30.63	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	41.18	6.78	35.30	21.66
43	27/02/2018	82.39	33.75	0.54	BDL*	2.18	10.03	0.46	BDL*	32.59	17.41	27.26	27.48



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44	02/03/2018	87.31	50.89	0.52	BDL*	2.56	10.63	0.63	BDL*	22.60	17.66	30.46	18.48
45	06/03/2018	73.49	37.94	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	18.38	12.36	25.50	23.47
46	09/03/2018	54.27	29.38	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	35.56	7.56	22.85	25.69
47	13/03/2018	48.41	44.74	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	25.62	16.36	27.28	29.62
48	16/03/2018	57.58	26.73	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	28.33	5.74	39.00	22.58
49	20/03/2018	76.19	31.75	0.66	BDL*	BDL*	BDL*	0.30	BDL*	31.64	15.60	45.43	19.49
50	23/03/2018	86.30	53.52	0.74	BDL*	BDL*	BDL*	0.18	BDL*	38.57	6.68	42.39	27.71
51	27/03/2018	52.28	30.93	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	19.29	13.45	36.58	24.56
52	30/03/2018	74.59	34.95	BDL*	BDL*	BDL*	10.00	0.41	BDL*	20.79	8.51	20.19	28.40

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

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

Sr. No.	Date of Sampling	Loation-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	03/10/2017	64.70	30.44	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	19.19	10.40	33.39	26.79
2	06/10/2017	88.62	36.51	BDL*	BDL*	2.12	BDL*	0.69	BDL*	32.60	23.64	21.38	30.24
3	10/10/2017	69.22	39.73	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	25.59	15.72	24.58	20.50
4	13/10/2017	50.22	28.74	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	13.40	18.42	32.51	18.70
5	17/10/2017	60.42	21.56	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	21.33	14.35	25.35	22.53
6	20/10/2017	75.60	40.58	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	27.42	8.27	28.85	28.42
7	24/10/2017	86.51	49.67	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	15.54	11.65	31.30	24.18
8	27/10/2017	55.48	29.59	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	36.25	20.41	41.22	17.58
9	31/10/2017	72.09	35.51	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	24.07	12.68	19.51	21.47
10	03/11/2017	80.61	41.43	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	17.37	6.69	28.64	21.10
11	07/11/2017	49.32	21.65	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	42.38	18.59	37.25	29.26
12	10/11/2017	59.80	26.63	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	21.49	5.47	30.35	26.51
13	14/11/2017	67.49	33.39	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	26.78	11.46	17.48	28.65
14	17/11/2017	83.58	42.69	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	36.79	13.37	19.55	23.71
15	21/11/2017	47.32	17.33	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	13.24	18.67	38.59	27.71
16	24/11/2017	60.42	30.56	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	23.84	14.58	23.34	22.69
17	28/11/2017	56.33	19.44	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	28.55	19.76	35.18	19.12
18	01/12/2017	51.18	23.80	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	36.23	11.77	35.45	17.49
19	05/12/2017	40.60	15.28	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	31.44	7.49	28.50	26.30
20	08/12/2017	65.40	27.69	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	24.85	14.58	18.65	21.63
21	12/12/2017	75.39	43.79	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	23.65	10.57	30.70	26.39
22	15/12/2017	46.70	18.68	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	16.77	13.68	20.30	23.64
23	19/12/2017	62.62	29.59	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	28.14	11.64	46.45	25.82
24	22/12/2017	57.81	22.80	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	13.47	9.64	38.03	18.75
25	26/12/2017	49.40	19.49	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	10.48	17.64	31.86	19.82
26	29/12/2017	59.32	32.38	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	20.36	16.69	33.63	23.33
27	02/01/2018	80.68	46.92	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	20.60	8.29	25.72	18.31
28	05/01/2018	53.39	25.94	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	31.49	5.68	29.20	25.29
29	09/01/2018	61.39	24.56	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	11.48	14.61	32.46	21.75
30	12/01/2018	69.49	34.58	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	17.37	19.63	28.41	25.01
31	16/01/2018	42.86	17.67	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	27.67	16.51	36.51	23.59
32	19/01/2018	52.52	20.46	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	13.24	11.76	16.85	22.43
33	23/01/2018	66.53	31.20	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	24.72	9.65	38.53	16.53
34	26/01/2018	49.38	15.56	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	10.60	15.42	25.60	20.79
35	31/01/2018	63.40	30.10	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	21.19	10.52	34.50	19.09
36	02/02/2018	76.68	39.02	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	30.61	13.72	18.25	22.58
37	06/02/2018	56.31	31.71	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	25.90	6.72	31.19	23.56
38	09/02/2018	49.29	25.36	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	39.44	8.47	25.65	19.28
39	13/02/2018	74.22	21.90	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	20.60	5.38	15.63	28.31
40	16/02/2018	68.39	44.60	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	42.38	15.49	19.56	25.38
41	20/02/2018	58.59	24.77	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	27.67	17.68	24.75	16.28
42	23/02/2018	65.33	36.80	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	49.74	19.67	21.35	29.45
43	27/02/2018	52.40	22.83	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	15.30	9.69	26.45	30.19

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44	02/03/2018	69.62	33.56	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	14.51	12.44	20.37	17.65
45	06/03/2018	56.29	28.87	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	34.77	17.47	37.39	15.64
46	09/03/2018	66.08	38.62	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	29.63	8.54	42.89	18.48
47	13/03/2018	53.58	23.81	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	21.16	10.58	30.92	26.60
48	16/03/2018	62.31	36.16	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	25.40	19.57	35.56	20.38
49	20/03/2018	72.38	33.14	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	36.88	21.73	38.49	16.59
50	23/03/2018	58.62	25.94	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	13.60	9.67	23.73	29.46
51	27/03/2018	74.50	36.87	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	26.30	15.59	27.62	30.29
52	30/03/2018	65.37	27.95	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	10.28	5.55	16.99	21.37

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

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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	03/10/2017	57.22	27.62	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	21.53	12.63	30.49	28.78
2	06/10/2017	61.43	24.69	BDL*	BDL*	BDL*	BDL*	0.81	BDL*	43.68	9.63	36.42	16.46
3	10/10/2017	59.23	35.57	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	10.46	5.71	15.47	29.41
4	13/10/2017	70.88	44.36	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	16.30	10.60	19.38	27.16
5	17/10/2017	55.32	23.43	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	19.38	8.35	23.37	19.45
6	20/10/2017	68.58	37.66	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	23.38	19.53	38.62	21.54
7	24/10/2017	80.21	45.61	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	27.38	7.57	17.58	26.90
8	27/10/2017	74.20	48.54	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	31.38	18.44	35.60	20.77
9	31/10/2017	45.38	25.53	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	32.92	22.67	39.35	18.23
10	03/11/2017	75.82	35.57	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	30.31	13.44	23.45	29.55
11	07/11/2017	70.78	38.50	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	31.21	16.41	31.25	15.75
12	10/11/2017	53.39	19.67	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	23.48	14.76	27.63	19.47
13	14/11/2017	46.49	18.41	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	36.85	20.47	35.66	26.30
14	17/11/2017	56.79	22.60	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	48.15	7.63	32.51	30.63
15	21/11/2017	66.60	31.38	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	17.83	10.64	17.18	20.29
16	24/11/2017	51.19	20.50	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	20.51	22.65	20.32	18.38
17	28/11/2017	61.48	23.43	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	10.10	5.45	15.32	17.14
18	01/12/2017	68.38	34.48	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	28.42	17.57	29.39	26.45
19	05/12/2017	58.93	26.28	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	38.70	5.74	32.29	28.60
20	08/12/2017	75.39	31.59	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	30.54	26.74	22.84	17.46
21	12/12/2017	62.22	28.58	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	37.49	24.36	36.92	21.11
22	15/12/2017	76.80	33.39	BDL*	BDL*	BDL*	BDL*	1.10	BDL*	26.00	7.47	41.88	24.45
23	19/12/2017	57.62	27.79	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	20.26	14.67	39.76	27.45
24	22/12/2017	48.59	18.58	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	15.42	12.57	21.88	21.06
25	26/12/2017	63.40	29.08	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	11.79	6.68	17.66	23.82
26	07/01/2018	49.09	24.69	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	35.37	10.55	27.41	19.04
27	02/01/2018	64.19	30.72	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	32.69	15.50	32.68	20.89
28	05/01/2018	72.41	37.49	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	16.64	7.51	24.49	19.71
29	09/01/2018	49.71	22.39	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	13.37	10.71	18.79	26.30
30	12/01/2018	50.41	26.36	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	30.31	13.45	22.74	21.43
31	16/01/2018	61.38	28.41	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	38.34	11.72	29.37	25.57
32	19/01/2018	76.50	35.82	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	22.59	6.65	35.31	18.60
33	23/01/2018	59.18	19.84	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	17.24	12.63	31.19	28.30
34	26/01/2018	62.39	32.39	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	15.45	5.34	15.65	17.24
35	30/01/2018	79.01	34.61	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	25.56	23.65	19.51	24.41
36	02/02/2018	61.18	25.40	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	43.69	22.76	38.35	24.91
37	06/02/2018	50.27	28.33	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	28.53	9.48	28.42	17.47
38	09/02/2018	62.40	34.98	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	29.42	20.35	35.15	27.31
39	13/02/2018	68.61	32.93	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	35.66	14.47	24.94	23.40
40	16/02/2018	54.30	29.46	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	47.26	10.63	33.55	22.20
41	20/02/2018	48.32	20.55	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	23.78	8.54	21.46	30.59
42	23/02/2018	57.22	33.52	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	36.56	18.65	27.16	26.80
43	27/02/2018	64.49	26.36	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	19.62	12.64	18.31	21.37

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44	02/03/2018	56.17	30.35	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	10.48	15.46	28.68	20.45
45	06/03/2018	62.61	36.17	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	29.94	10.57	21.09	22.51
46	09/03/2018	81.53	49.03	BDL*	BDL*	BDL*	10.21	0.29	BDL*	22.45	18.38	19.37	28.35
47	13/03/2018	59.31	24.56	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	19.46	7.58	33.59	23.67
48	16/03/2018	71.39	40.41	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	33.53	22.41	22.87	18.29
49	20/03/2018	53.63	23.46	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	27.54	9.77	26.94	29.29
50	23/03/2018	67.49	39.52	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	20.66	17.46	26.62	21.28
51	27/03/2018	79.58	43.54	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	15.57	5.71	17.06	15.28
52	30/03/2018	50.41	31.45	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	24.55	15.65	38.18	25.21

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-1 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: Ozone as O_3 ($\mu g/m^3$): 10
- BDL*: Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
- BDL*: Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
- BDL*: Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
- BDL*: Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
- BDL*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
- BDL*: Below Detection Limit - Arsenic as As (ng/m^3): 2
- BDL*: Below Detection Limit - Nickel as Ni (ng/m^3): 10


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

Sr. No.	Date of Sampling	Location-6: S&S Entry 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	03/10/2017	71.53	39.36	0.58	BDL*	BDL*	BDL*	0.53	BDL*	46.62	20.59	28.58	20.57
2	06/10/2017	82.47	35.59	BDL*	BDL*	BDL*	10.47	0.61	BDL*	29.75	17.52	39.35	22.81
3	10/10/2017	73.28	48.57	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	19.02	11.62	30.40	18.44
4	13/10/2017	86.42	52.75	0.68	BDL*	2.36	10.56	0.66	BDL*	31.08	15.35	22.61	30.43
5	17/10/2017	76.53	32.66	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	42.74	12.41	31.51	28.27
6	20/10/2017	92.42	50.66	0.84	BDL*	2.84	10.29	0.76	BDL*	38.34	22.48	42.40	23.47
7	24/10/2017	53.33	24.70	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	23.31	9.75	20.64	31.09
8	27/10/2017	95.79	56.52	0.76	BDL*	2.54	10.60	0.79	BDL*	35.27	25.50	45.60	27.52
9	31/10/2017	84.59	42.71	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	45.39	19.54	35.25	25.34
10	03/11/2017	86.68	47.73	0.62	BDL*	2.15	10.27	0.72	BDL*	39.41	8.39	18.21	19.70
11	07/11/2017	95.30	54.43	0.72	BDL*	2.62	10.62	0.54	BDL*	48.30	22.42	42.52	27.60
12	10/11/2017	68.30	29.73	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	52.45	18.53	34.50	23.65
13	14/11/2017	81.12	49.40	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	50.04	17.67	31.16	16.38
14	17/11/2017	88.29	34.75	0.65	BDL*	2.33	10.83	0.81	BDL*	31.28	15.53	37.51	25.16
15	21/11/2017	93.40	45.64	0.76	BDL*	2.46	10.47	0.46	BDL*	40.60	26.51	20.53	30.56
16	24/11/2017	76.28	42.71	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	47.41	16.41	40.05	28.61
17	28/11/2017	82.60	33.49	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	19.56	10.60	28.13	29.66
18	01/12/2017	75.57	38.39	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	22.31	21.69	25.08	22.37
19	05/12/2017	65.82	29.39	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	45.52	16.67	30.44	25.11
20	08/12/2017	78.63	42.79	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	51.24	25.36	43.85	15.49
21	12/12/2017	93.61	54.60	0.58	BDL*	2.34	10.43	0.74	BDL*	36.27	22.54	24.87	23.38
22	15/12/2017	86.33	44.88	0.64	BDL*	2.76	10.70	0.52	BDL*	21.95	11.68	36.32	26.10
23	19/12/2017	90.41	48.19	0.71	BDL*	2.11	10.79	0.53	BDL*	54.26	24.39	34.99	27.99
24	22/12/2017	63.61	34.46	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	29.54	12.58	27.29	30.48
25	26/12/2017	71.49	39.48	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	18.09	9.60	20.44	29.46
26	29/12/2017	84.48	49.95	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	16.28	18.67	28.34	17.60
27	02/01/2018	96.29	56.77	0.58	BDL*	2.17	10.39	0.68	BDL*	31.11	17.78	21.60	30.67
28	05/01/2018	79.81	46.18	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	19.26	19.55	40.25	27.51
29	09/01/2018	65.88	37.64	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	25.48	21.40	35.50	22.81
30	12/01/2018	88.28	50.62	0.72	BDL*	2.46	10.52	0.22	BDL*	13.45	6.74	24.23	17.43
31	16/01/2018	74.22	30.27	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	41.29	14.60	42.84	21.57
32	19/01/2018	85.40	42.37	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	17.48	9.73	32.68	25.35
33	23/01/2018	94.61	51.75	0.66	BDL*	2.84	10.70	0.47	BDL*	46.23	22.56	45.45	29.59
34	26/01/2018	87.62	40.74	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	21.63	8.74	23.51	24.73
35	30/01/2018	83.02	47.48	0.52	BDL*	2.52	BDL*	0.32	BDL*	43.56	20.56	37.42	28.69
36	02/02/2018	85.33	36.47	BDL*	BDL*	BDL*	10.42	0.78	BDL*	57.19	26.73	32.55	19.63
37	06/02/2018	64.88	35.50	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	49.19	20.37	36.64	21.44
38	09/02/2018	94.22	55.39	0.84	BDL*	2.56	10.32	0.48	BDL*	31.41	23.52	45.63	26.42
39	13/02/2018	81.18	38.02	0.68	BDL*	2.25	BDL*	0.46	BDL*	45.35	18.61	19.10	27.47
40	16/02/2018	78.63	41.74	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	50.36	13.64	38.69	30.24
41	20/02/2018	89.61	39.19	0.56	BDL*	2.48	10.27	0.41	BDL*	62.52	19.42	41.44	24.14
42	23/02/2018	92.42	52.92	0.76	BDL*	BDL*	10.70	0.87	BDL*	56.60	11.57	44.20	18.56
43	27/02/2018	76.48	30.52	BDL*	BDL*	2.32	BDL*	0.73	BDL*	38.52	25.68	21.62	23.71

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44	02/03/2018	78.48	36.38	BDL*	BDL*	2.34	BDL*	0.98	BDL*	27.43	25.65	23.78	28.54
45	06/03/2018	82.10	43.63	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	38.58	14.39	43.28	30.57
46	09/03/2018	90.30	48.78	0.56	BDL*	BDL*	10.93	0.65	BDL*	42.50	22.51	30.35	23.49
47	13/03/2018	67.80	31.53	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	18.45	23.52	39.93	19.48
48	16/03/2018	87.62	47.06	0.76	BDL*	2.56	10.38	0.73	BDL*	51.54	12.58	27.66	25.48
49	20/03/2018	94.19	54.93	0.62	BDL*	2.84	10.82	0.80	BDL*	22.61	15.65	35.43	22.38
50	23/03/2018	80.52	44.46	0.54	BDL*	BDL*	BDL*	0.36	BDL*	43.71	20.56	32.41	20.25
51	27/03/2018	93.57	45.55	0.88	BDL*	2.47	10.24	0.90	BDL*	33.76	11.74	21.12	27.53
52	30/03/2018	79.19	37.56	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	29.24	17.40	31.68	26.34

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

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table - 1 Ground Water Level & Quality Analysis (Piezometers) Results for the period: October-17 to March-18:-****3B.1 Near Sub Station-7B**

S. No.	Parameter	Unit	Near Sub Station-7B					
			Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
1	Temperature	°C	29	30	30	29	30	32
2	pH	—	8.21	8.34	8.33	8.27	7.84	8.4
3	Total Dissolved Solids	mg/L	1176	1188	798	994	1696	1742
4	Salinity	ppt	0.39	0.69	0.22	0.445	0.19	0.48
5	Chloride as Cl	mg/L	218	383	136	260	266	280
6	Depth of Water Level from Ground Level	meter	2.8	6	2.2	2.1	2.2	2.2
7	Status of Tide**	—	High Tide	High Tide	High Tide	High Tide	High Tide	High Tide

3B.2 Near QHSE Office

S. No.	Parameter	Unit	Near QHSE Office					
			Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
1	Temperature	°C	30	29	29	28	29	31
2	pH	—	8.57	8.37	8.47	8.42	8.22	8.43
3	Total Dissolved Solids	mg/L	1050	1230	816	1024	836	914
4	Salinity	ppt	0.45	0.32	0.26	0.28	0.26	0.27
5	Chloride as Cl	mg/L	252	175	148	162	140	150
6	Depth of Water Level from Ground Level	meter	2.5	10	2.5	2.7	2.6	2.6
7	Status of Tide**	—	High Tide	High Tide	High Tide	High Tide	High Tide	High 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 2017 to March 2018:-

S. N. O.	TEST PARAMETER S	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			OCT-17		NOV-17		DEC-17		JAN-18		FEB-18		MAR-18	
			Surface	Bottom	Surface	Bot to m	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	—	8.24	8.36	8.11	8.23	8.19	8.08	8.13	8.24	8.17	8.06	8.21	8.11
2	Temperature	°C	30	29	29	28	29.3	28.7	29	28.5	28.9	28.1	29.4	29.2
3	Total Suspended Solids	mg/L	90	80	110	88	160	194	126	148	240	198	172	156
4	BOD (3 Days @ 27 °C)	mg/L	6	5	7	4	5.8	5.2	5.4	5	7.2	5.8	8.4	7.2
5	Dissolved Oxygen	mg/L	5.9	5	6	5.6	5.7	4.8	5.2	4.6	6.2	5.9	6.1	5.5
6	Salinity	ppt	29.15	30.44	31.2	32.8	33.4	34.8	30.6	31.8	32.1	30.8	31.6	31.4
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrite as NO ₂	µmo/L	25.2	26.3	24.8	25.4	26.6	27.3	25.8	28.1	17.2	14.4	30.6	25.2
9	Nitrite as NO ₂	µmo/L	2.6	2.5	2.8	2.7	3.6	2.8	3.2	2.9	2.4	2.1	3.5	3.3
10	Ammonia Nitrogen as NH ₃	µmo/L	1.28	1.62	1.14	1.58	2.7	2.4	1.56	1.84	1.9	1.6	3.1	2.8
11	Phosphates as PO ₄	µmo/L	1.93	1.28	1.76	1.22	1.94	1.17	2.02	1.37	2.15	2.08	2.36	2.22
12	Total Nitrogen	µmo/L	29.08	30.42	28.84	29.68	32.9	32.5	31.6	32.97	21.5	18.5	37.2	31.3
13	Petroleum Hydrocarbon	mg/L	10.8	1.6	11.2	1.5	13.4	11.2	12.5	8.4	17.8	10.2	23.6	18.2
14	Total Dissolved Solids	mg/L	33230	33910	30110	31080	29860	30350	32220	32960	34840	34112	33920	33680
15	COD	mg/L	20	18	18	14	22	12	24	18	30	25	38	32
A. Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	1.72	0.664	1.64	0.552	1.96	0.741	1.59	0.482	2.1	0.8	1.45	0.6
B. Phytoplankton														
17.1	Chlorophyll	mg/m ³	1.44	0.55	1.28	0.47	1.51	0.62	1.66	0.72	2.1	0.78	1.4	0.3
17.2	Phaeophytin	mg/m ³	0.43	1.18	0.39	1.06	0.57	1.25	0.61	1.33	1.7	0.75	1.3	0.78
17.3	Cell Count	Unit x 10 ³ /L	180	70	164	64	174	88	156	75	240	110	170	90
17.4	Name of Group Number and name of group species of each group	—	Bacillariophyceae Navicula sp. Synedra sp. Nitzschia sp. Coscinodiscus sp. Skeletonema sp. Rhizosolenia sp. Fragilaria sp. Chaetoceros	Bacillariophyceae Nitzschia sp. Fragilaria sp. Melosira sp. Navicula sp.	Skeletonema P. Fragilaria sp. Nitzschia sp. Rhizosolenia sp.	Navicula sp. Melosira sp. Nitzschia sp.	Bacillariophyceae Amphiprora sp. Asterionella sp. Cyclotella sp. Gyrodinium sp. Nitzschia sp. Navicula sp. Pinnularia sp. Rhizosolenia sp.	Bacillariophyceae Coscinodiscus Asterionella sp. Melosira Synedra Skeletonema Ceratium Navicula Synedra	Bacillariophyceae Asterionella sp. Coscinodiscus Nitzschia sp. Navicula sp.	Bacillariophyceae Pinnularia sp. Fragilaria sp.	Bacillariophyceae Asterionella sp. Navicula sp. Rhizosolenia sp. Amphiprora sp.	Bacillariophyceae Coscinodiscus Ceratium	Bacillariophyceae Nitzschia sp. Asterionella sp. Coscinodiscus sp.	Bacillariophyceae Melosira Pinnularia sp.

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C Zooplanktons							
18.1	Abundance (Population)	no./100 ml	17	13	15	16	18
18.2	Name of Group Number and name of group species of each group	—	Nematodes Decapods Crustaceans	Crustaceans Isopods Nematodes	Gastropods Crustaceans —	Isopods Decapods	Crustaceans Isopods
18.3	Total Biomass	mg/100 ml	4.9	5.7	4.1	5.4	5.9
D Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1950	1890	1810	1760	1720
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	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.

Authorized Signatory



Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: October 2017 to March 2018:-

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			OCT-17		NOV-17		DEC-17		JAN-18		FEB-18		MAR-18	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	-	8.21	8.29	8.14	8.22	7.83	7.98	8.01	8.11	8.22	8.17	8.15	8.02
2	Temperature	°C	29	28	30	29	29.3	30.1	29.4	30.3	28.8	28.6	29.4	29
3	Total Suspended Solids	mg/L	108	236	198	212	476	510	498	522	340	372	241	230
4	BOD (3 Days @ 27 °C)	mg/L	6	9	8	6	5.8	4.8	5.6	4.7	6.1	5.8	6.5	5.5
5	Dissolved Oxygen	mg/L	6	5.8	5.9	5.6	6	5.4	5.7	5.2	5.8	5.7	6.3	5.8
6	Salinity	ppt	29.96	32.3	29.3	30.7	27.02	27.72	28.64	31.96	31.2	31.4	30.9	31.2
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µm ol/L	24.2	25.7	25.8	26.4	26.3	27.6	25.6	26.7	30.9	33.4	20.6	27.2
9	Nitrite as NO ₂	µm ol/L	2.1	2.3	2.2	2.5	2.8	1.9	2.6	2.1	3.1	2.8	2.4	2.5
10	Ammonical Nitrogen NH ₃	µm ol/L	1.55	1.32	1.71	1.56	2.63	2.03	2.14	1.97	3.12	2.9	2.85	2.6
11	Phosphates as PO ₄	µm ol/L	1.58	1.19	1.66	1.23	1.62	1.58	1.49	1.34	2.14	1.9	1.74	1.51
12	Total Nitrogen	µm ol/L	27.85	29.32	29.71	30.46	4.93	3.59	3.84	4.22	6.22	5.7	5.25	5.1
13	Petroleum Hydrocarbon	µg/L	10.6	BDL*	12.8	BDL*	14.8	0.1	13.4	0.2	18.8	7.2	10.6	3.4
14	Total Dissolved Solids	mg/L	32480	33090	33090	34330	30520	30980	32560	34750	34412	34620	33975	34210
15	COO	mg/L	20	14	17	13	15	9	18	11	28	22	30	26
A. Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	1.84	0.8	2.02	0.9	1.78	1.01	1.93	0.7	1.75	1.34	1.9	1.1
B. Phytoplankton														
17.1	Chlorophyll	mg/m ³	2.32	0.412	1.93	0.334	2.53	1.6	1.86	1.14	1.7	1.3	1.45	0.9
17.2	Phaeophytin	mg/m ³	BDL*	1.6	BDL*	1.7	0.9	1.3	0.7	1.1	2.1	0.82	1.9	0.85
17.3	Cell Count	Unit x 10 ⁴ /L	180	40	206	54	118	72	152	66	210	90	240	85
17.4	Name of Group Number and name of species of each group	-	Bacillariophyceae Navicula sp. Coscinodiscus sp. Nitzschia sp. Synechococcus sp. Cymbella sp. Cyclotella sp. Rhizosolenia sp.	Bacillariophyceae Fragilariopsis sp. Pinnularia sp. Melosira sp.	Bacillariophyceae Coscinodiscus sp. Nitzschia sp. Navicula sp. Nitzschia sp. Cyclotella sp.	Bacillariophyceae Pinnularia sp. Melosira sp. Navicula sp.	Bacillariophyceae Coscinodiscus sp. Nitzschia sp. Cymbella sp.	Bacillariophyceae Melosira sp. Pinnularia sp.	Bacillariophyceae Nitzschia sp. Cymbella sp. Rhizosolenia sp.	Bacillariophyceae Pinnularia sp. Melosira sp. Fragilariopsis sp.	Bacillariophyceae Cymbella sp. Coscinodiscus sp. Nitzschia sp.	Bacillariophyceae Melosira sp. Pinnularia sp.	Bacillariophyceae Nitzschia sp. Cymbella sp. Navicula sp.	Bacillariophyceae Pinnularia sp. Melosira sp.


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C Zooplanktons							
18.1	Abundance (Population)	no./100 ml	22	19	28	24	20
18.2	Name of Group Number and name of group species of each group	—	Mysids Nematodes Bivalves Polychaete worms	Polychaete worms Bivalves Nematodes —	Polychaete worms Mysids	Polychaete worms Mysids Nematodes Bivalves	Polychaete worms Nematodes
18.3	Total Biomass	mg/100 m ³	4.3	—	4.9	5.6	6.1
D Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	2400	2310	2530	2450	1950
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	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.

Authorized Signatory



3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis (South Side) Results for the period: October 2017 to March 2018:-

S. No	PARAMETERS	UNIT	OCT-17 16/10/2017	NOV-17 29/11/2017	DEC-17 19/12/2017	JAN-18 20/01/2018	FEB-18 13/02/2018	MAR-18 20/03/2018
1	Organic Matter	%	0.54	0.59	0.48	0.63	0.45	0.65
2	Phosphorus as P	µg/g	592	614	650	630	610	635
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	%	6.36	6.22	6.36	6.03	6.2	6.46
5.2	Total Chromium as Cr ⁺³	µg/g	140	155	186	148	198	218
5.3	Manganese as Mn	µg/g	1173	1056	1280	1136	1350	1620
5.4	Iron as Fe	%	5.2	4.8	5.87	5.6	5.12	5.25
5.5	Nickel as Ni	µg/g	29.04	34	39	34.6	44.6	57.8
5.6	Copper as Cu	µg/g	35.09	38	44	36	54	65
5.7	Zinc as Zn	µg/g	69.33	72	66	76	110	90
5.8	Lead as Pb	µg/g	10.67	12	16	14	9.8	10.4
5.9	Mercury as Hg	µg/g	0.533	0.112	0.2	0.106	0.19	0.14
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Echinoderms Decapods Anthozians	Anthozians Echinoderms Decapods	Polychaete worms Krill Mysids	Echinoderms Anthozians	Decapods Anthozians	Echinoderms Decapods
6.2	Melobenthos (No and name of groups present, No and name of species of each group present)	—	Nematodes Foraminifera ns	Gastrotichies	Nematodes	Foraminifera ns	Nematodes	Gastrotichies
6.3	Population	no/m ²	380	370	410	350	440	372

BDL* - Below Detection Limit

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

Authorized Signatory



3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis Results (North Side) for the period: October 2017 to March 2018:-

S. No.	PARAMETERS	UNIT	OCT-17	NOV-17	DEC-17	JAN-18	FEB-18	MAR-18
			16/10/2017	29/11/2017	19/12/2017	20/01/2018	13/02/2018	20/03/2018
1	Organic Matter	%	0.402	0.374	0.468	0.396	0.52	0.49
2	Phosphorus as P	mg/kg	469	388	664	512	580	640
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	%	6.48	7.1	6.67	6.72	5.9	5.75
5.2	Total Chromium as Cr ⁺³	mg/kg	135	146	210	154	192	216
5.3	Manganese as Mn	mg/kg	1091	1210	1460	1306	1480	1720
5.4	Iron as Fe	%	5.55	6.2	5.13	5.84	4.9	5.4
5.5	Nickel as Ni	mg/kg	33.03	40	42	36.6	52.6	44.2
5.6	Copper as Cu	mg/kg	27.2	36	54	40.4	37.2	49.7
5.7	Zinc as Zn	mg/kg	79.33	85	106	94	185	152
5.8	Lead as Pb	mg/kg	12	16	14	18	17.8	14.2
5.9	Mercury as Hg	mg/kg	0.3	0.1	0.2	0.4	0.25	0.18
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Krill Mysids Polychaete worms	Mysids Polychaete worms Krill	Polychaete worms Mysids	Anthozians Echinoderms Decapods	Rhizosolenia sp. GreenAlgae	Chlorella sp. Oscillatoria sp.
6.2	Mesobenthos (No and name of groups present, No and name of species of each group present)	--	Gastrotichies Nematodes	Foraminifera ns	Nematodes	Nematodes	Foraminifera ns	Nematodes
6.3	Population	no/m ²	430	410	440	420	540	390

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: Oct - 2017 to Mar - 2018:-**

Results					
S. No	Test Parameters	Unit	Dump Pond (Near Rajiv Gandhi Statue)	Near J3	Near J8
1.	pH	—	7.12	7.48	7.52
2.	Total Dissolved Solids	mg/L	342	388	216
3.	Total Suspended Solids	mg/L	28	32	24
4.	Turbidity	NTU	0.82	0.61	0.55
5.	BOD (3 Days @ 27 °C)	mg/L	4.0	3	BDL*
6.	Dissolved Oxygen	mg/L	5.2	5.4	5.6
7.	COD	mg/L	12	9	6
8.	Salinity	ppt	0.025	0.065	0.05
9.	Oil & Grease	mg/L	BDL*	BDL*	BDL*
10.	Total Hardness as CaCO ₃	mg/L	160	196	110
11.	Fluoride as F	mg/L	BDL*	BDL*	BDL*
12.	Chloride as Cl	mg/L	14	36	28
13.	Zinc as Zn	mg/L	0.018	0.021	0.014
14.	Cadmium as Cd	mg/L	BDL*	BDL*	BDL*
15.	Lead as Pb	mg/L	BDL*	BDL*	BDL*
16.	Mercury as Hg	mg/L	BDL*	BDL*	BDL*

BDL*: Below Detection Limit

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

**3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -****Table -STP Treated Water Quality Analysis Results for the period: Oct - 2017 to Mar - 2018:-**

S. No.	Parameters	Unit	STP Treated Water Quality Analysis Results					
			Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
1.	pH	—	8.33	7.16	7.03	7.56	6.84	7.9
2.	Total Suspended Solids	mg/L	20	28	22	24	28	22
3.	BOD (3 Days @ 27 °C)	mg/L	16	19	17	16	12	18
4.	Residual Free Chlorine	mg/L	0.7	0.7	0.6	0.6	0.6	0.6

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 Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	1 - Behind QHSE Office					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	02/10/2017	01/11/2017	01/12/2017	01/01/2018	02/02/2018	01/03/2018
6:00-7:00	46.3	49.9	43.4	47.7	42.4	60.8
7:00-8:00	53.3	52.6	66.2	63.5	62.5	65.0
8:00-9:00	45.7	61.7	48.0	59.3	52.7	54.8
9:00-10:00	45.8	62.8	55.5	57.0	56.6	59.3
10:00-11:00	49.2	65.8	64.4	62.4	68.9	69.1
11:00-12:00	60.2	51.3	53.0	50.9	48.1	55.4
12:00-13:00	52.6	46.4	44.3	45.5	43.0	47.4
13:00-14:00	50.3	57.9	54.1	58.3	44.4	51.9
14:00-15:00	57.1	43.3	41.3	52.1	49.2	42.8
15:00-16:00	55.3	58.7	52.3	54.7	53.0	57.1
16:00-17:00	44.2	48.7	45.9	43.8	50.6	46.0
17:00-18:00	40.5	63.6	50.4	65.6	64.9	66.7
18:00-19:00	66.2	56.4	59.7	51.0	63.0	52.0
19:00-20:00	53.2	50.0	58.0	60.4	41.8	61.4
20:00-21:00	64.1	59.4	68.3	56.1	61.8	58.1
21:00-22:00	58.1	47.4	49.2	55.7	45.7	63.8

Sampling Location	1 - Behind QHSE Office					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	02/10/2017 & 03/10/2017	01/11/2017 & 02/11/2017	01/12/2017 & 02/12/2017	01/01/2018 & 02/01/2018	02/02/2018 & 03/02/2018	01/03/2018 & 02/03/2018
22:00-23:00	55.1	40.7	42.6	49.6	46.2	45.1
23:00-00:00	39.4	42.8	38.8	45.5	44.4	46.7
00:00-01:00	45.2	41.0	44.2	38.0	40.6	48.6
01:00-02:00	41.5	43.9	35.9	36.7	37.5	40.6
02:00-03:00	46.6	36.0	40.3	39.5	38.6	42.4
03:00-04:00	50.2	39.1	41.1	44.6	42.6	54.3
04:00-05:00	47.9	44.4	39.4	42.9	48.3	59.0
05:00-06:00	39.1	46.4	49.4	41.8	45.0	47.2

*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.

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

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**Tables - 2 - PMC Office Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:**

Sampling Location	2 - PMC Office Back Side					
	During Day Time - Unit in dB (A)#					
	03/10/2017	02/11/2017	02/12/2017	02/01/2018	03/02/2018	02/03/2018
6:00-7:00	55.7	45.1	43.9	54.3	47.8	50.8
7:00-8:00	57.3	59.6	60.7	62.7	63.1	64.9
8:00-9:00	45.3	56.4	51.2	57.5	55.3	58.3
9:00-10:00	63.3	57.7	54.0	58.7	52.5	56.1
10:00-11:00	54.6	53.9	55.8	52.5	50.4	59.6
11:00-12:00	56.6	61.6	62.9	55.2	59.6	65.0
12:00-13:00	44.8	62.0	53.5	61.1	60.8	63.0
13:00-14:00	55.9	44.0	46.9	43.1	45.5	47.9
14:00-15:00	47.3	54.3	58.4	59.7	51.2	60.0
15:00-16:00	44.9	63.2	64.4	49.2	54.5	61.7
16:00-17:00	49.8	60.3	50.0	53.6	58.8	57.4
17:00-18:00	55.5	47.9	44.8	60.1	43.4	46.9
18:00-19:00	61.3	49.0	47.1	50.9	48.1	52.2
19:00-20:00	50.7	58.9	52.8	51.2	53.9	55.1
20:00-21:00	52.4	51.7	49.1	48.9	61.2	53.4
21:00-22:00	59.1	55.9	48.9	56.0	57.9	51.2

Sampling Location	2 - PMC Office Back Side					
	During Night Time - Unit in dB (A)#					
	03/10/2017 & 04/10/2017	02/11/2017 & 03/11/2017	02/12/2017 & 03/12/2017	02/01/2018 & 03/01/2018	03/02/2018 & 04/02/2018	02/03/2018 & 03/03/2018
22:00-23:00	41.1	55.0	43.8	47.0	44.8	56.4
23:00-00:00	47.4	48.2	45.5	43.7	41.7	38.8
00:00-01:00	41.2	47.9	53.7	59.1	52.4	57.0
01:00-02:00	44.1	46.1	49.3	56.6	48.1	58.4
02:00-03:00	44.8	45.1	51.1	54.2	50.2	55.4
03:00-04:00	42.2	51.9	48.7	50.7	56.4	53.2
04:00-05:00	40.6	49.2	44.4	46.0	45.3	50.5
05:00-06:00	41.3	39.0	47.5	42.1	40.1	54.7

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

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

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

Authorized Signatory



Tables - 3 - Sub Station - 6 Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	04/10/2017	03/11/2017	04/12/2017	04/01/2018	05/02/2018	03/03/2018
6:00-7:00	55.6	46.9	40.2	47.5	48.3	56.7
7:00-8:00	46.4	50.8	45.7	49.2	44.1	55.1
8:00-9:00	54.9	58.4	56.6	48.0	59.1	52.7
9:00-10:00	50.5	52.2	53.4	45.8	54.5	58.1
10:00-11:00	51.2	47.5	43.4	44.0	46.6	42.3
11:00-12:00	57.6	59.0	54.3	56.7	61.1	49.2
12:00-13:00	45.9	44.4	48.3	46.5	43.6	40.2
13:00-14:00	54.5	45.0	41.4	51.1	47.6	48.2
14:00-15:00	56.3	41.7	44.4	40.1	45.1	50.4
15:00-16:00	52.2	48.8	55.4	62.8	50.0	54.9
16:00-17:00	50.6	54.2	49.5	53.9	60.1	57.1
17:00-18:00	43.2	51.1	50.9	55.5	53.8	63.1
18:00-19:00	46.5	53.5	52.9	54.8	55.7	47.8
19:00-20:00	47.8	55.2	57.3	60.2	56.7	59.9
20:00-21:00	57.7	56.2	58.4	50.6	49.8	51.3
21:00-22:00	52.3	49.3	47.6	39.0	42.2	43.8

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	04/10/2017 & 05/10/2017	03/11/2017 & 04/11/2017	04/12/2017 & 05/12/2017	04/01/2018 & 05/01/2018	05/02/2018 & 06/02/2018	03/03/2018 & 04/03/2018
22:00-23:00	37.5	49.6	46.0	44.0	41.9	47.6
23:00-00:00	44.2	52.6	51.9	48.6	49.7	46.6
00:00-01:00	35.1	46.4	53.5	50.7	52.7	48.9
01:00-02:00	45.1	56.0	49.4	52.4	54.6	53.1
02:00-03:00	38.2	53.3	41.6	45.7	55.2	44.1
03:00-04:00	43.8	42.7	50.0	46.6	45.0	54.5
04:00-05:00	44.6	47.6	45.5	43.2	42.4	56.9
05:00-06:00	43.6	50.6	52.3	49.5	51.2	55.6

#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.

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

Authorized Signatory



Tables - 4 -Sub Station - 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	05/10/2017	04/11/2017	05/12/2017	05/01/2018	06/02/2018	05/03/2018
6:00-7:00	48.6	50.7	41.9	44.0	43.9	45.2
7:00-8:00	55.2	64.1	65.2	58.1	60.5	66.3
8:00-9:00	59.9	53.2	52.0	54.4	50.7	51.7
9:00-10:00	57.4	47.2	59.6	55.4	46.0	49.5
10:00-11:00	64.3	70.1	66.7	69.0	72.9	73.6
11:00-12:00	58.8	54.8	53.2	57.5	52.1	56.4
12:00-13:00	45.6	63.3	62.7	64.1	61.7	53.5
13:00-14:00	51.3	57.5	55.5	60.3	56.7	58.9
14:00-15:00	55.8	56.8	54.6	53.6	57.9	65.8
15:00-16:00	56.1	55.4	48.2	52.0	42.8	50.8
16:00-17:00	54.2	46.6	43.7	41.5	45.2	55.5
17:00-18:00	63.9	51.3	44.4	56.2	54.5	61.9
18:00-19:00	43.8	44.6	63.1	40.5	53.6	54.9
19:00-20:00	64.9	48.8	49.6	51.4	41.4	52.1
20:00-21:00	53.6	49.7	61.4	59.9	51.9	60.6
21:00-22:00	61.2	41.1	42.9	43.9	48.9	47.6

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	05/10/2017 & 06/10/2017	04/11/2017 & 05/11/2017	05/12/2017 & 06/12/2017	05/01/2018 & 06/01/2018	06/02/2018 & 07/02/2018	05/03/2018 & 06/03/2018
22:00-23:00	35.2	39.9	42.9	44.8	45.4	40.0
23:00-00:00	40.2	43.3	48.7	45.6	49.2	46.1
00:00-01:00	47.7	45.1	53.9	50.7	52.1	43.0
01:00-02:00	39.2	35.1	37.2	38.6	36.0	41.1
02:00-03:00	48.8	48.9	45.4	47.2	46.5	44.6
03:00-04:00	51.3	42.6	43.7	41.8	44.6	47.7
04:00-05:00	50.6	51.1	49.3	46.5	53.7	59.6
05:00-06:00	52.2	38.6	41.1	39.5	42.6	45.2

*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.

Authorized Signatory

**Tables - 5 - Near Sub Station-7B Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:**

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	06/10/2017	06/11/2017	06/12/2017	06/01/2018	07/02/2018	06/03/2018
6:00-7:00	44.6	66.1	54.4	50.6	56.5	51.9
7:00-8:00	53.9	62.1	51.5	52.5	55.3	59.9
8:00-9:00	62.3	48.7	44.5	46.7	45.7	57.7
9:00-10:00	52.8	53.7	55.7	59.3	54.1	65.0
10:00-11:00	66.8	44.1	49.8	43.4	47.7	56.5
11:00-12:00	57.5	65.2	61.0	53.5	44.4	63.7
12:00-13:00	70.1	64.9	52.1	51.6	60.9	55.1
13:00-14:00	61.8	58.7	56.0	60.0	48.2	62.7
14:00-15:00	46.9	52.3	59.1	58.3	50.8	54.2
15:00-16:00	49.7	41.5	47.6	42.6	46.8	43.2
16:00-17:00	50.8	67.6	53.0	56.9	51.7	49.0
17:00-18:00	56.2	63.9	57.4	43.8	42.1	52.8
18:00-19:00	57.8	59.8	64.1	61.1	63.5	70.6
19:00-20:00	53.1	69.5	50.3	62.4	41.4	68.9
20:00-21:00	49.6	45.9	62.3	44.4	57.3	69.0
21:00-22:00	54.3	68.1	46.6	48.4	43.6	64.3

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	06/10/2017 & 07/10/2017	06/11/2017 & 07/11/2017	06/12/2017 & 07/12/2017	06/01/2018 & 07/01/2018	07/02/2018 & 08/02/2018	06/03/2018 & 07/03/2018
22:00-23:00	43.2	42.5	38.2	41.3	39.7	54.7
23:00-00:00	49.6	38.1	53.8	45.9	52.8	42.0
00:00-01:00	44.9	48.5	47.5	52.8	46.1	55.4
01:00-02:00	52.1	51.4	44.3	49.6	45.6	50.7
02:00-03:00	51.2	43.0	56.1	44.7	54.1	53.2
03:00-04:00	42.6	44.0	46.8	40.4	43.1	57.0
04:00-05:00	36.2	39.3	41.7	35.1	40.2	48.3
05:00-06:00	47.3	49.1	45.3	48.2	44.6	39.8

#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.

Authorized Signatory



Tables -6 - JS - 1 (Nr. Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	09/10/2017	07/11/2017	07/12/2017	07/01/2018	08/02/2018	07/03/2018
6:00-7:00	48.5	59.8	56.8	60.4	57.5	69.8
7:00-8:00	53.4	61.3	59.7	64.4	50.1	42.7
8:00-9:00	43.3	64.8	60.7	63.8	65.4	66.2
9:00-10:00	54.2	51.9	55.4	53.9	58.0	52.5
10:00-11:00	53.1	52.8	65.7	49.9	67.6	60.0
11:00-12:00	64.4	56.2	47.1	52.2	54.5	45.7
12:00-13:00	66.4	60.2	57.1	59.9	62.3	68.8
13:00-14:00	53.6	54.8	61.3	56.3	52.1	58.2
14:00-15:00	62.2	67.1	63.9	69.3	61.8	44.1
15:00-16:00	49.7	58.4	54.3	57.8	63.1	56.2
16:00-17:00	59.2	47.6	49.3	58.8	48.0	41.8
17:00-18:00	55.3	46.0	58.1	50.6	45.6	43.1
18:00-19:00	44.4	48.2	52.6	61.6	56.5	53.5
19:00-20:00	57.8	53.2	42.9	55.6	51.5	54.4
20:00-21:00	52.1	55.0	48.5	51.4	47.5	59.4
21:00-22:00	50.3	49.8	45.4	48.4	44.4	57.6

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	09/10/2017 & 10/10/2017	07/11/2017 & 08/11/2017	07/12/2017 & 08/12/2017	07/01/2018 & 08/01/2018	08/02/2018 & 09/02/2018	07/03/2018 & 08/03/2018
22:00-23:00	51.2	38.9	36.2	43.0	35.9	37.1
23:00-00:00	55.5	50.1	47.7	45.5	39.9	41.9
00:00-01:00	44.3	47.0	42.4	48.6	45.7	43.7
01:00-02:00	50.4	48.9	49.2	55.2	52.6	53.9
02:00-03:00	42.2	64.3	62.0	60.2	63.0	61.6
03:00-04:00	34.6	45.3	48.4	51.0	47.2	54.6
04:00-05:00	44.4	41.2	45.8	40.4	46.6	52.9
05:00-06:00	54.7	51.7	55.8	50.4	53.8	57.5

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

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

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

Tables - 7 - Behind S.S. - 11 (Silo) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Authorized Signatory



Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - Unit in dB (A)#					
	10/10/2017	08/11/2017	08/12/2017	08/01/2018	09/02/2018	08/03/2018
6:00-7:00	54.6	52.4	51.0	53.4	57.9	47.0
7:00-8:00	46.6	66.3	59.0	62.5	63.8	68.8
8:00-9:00	45.4	46.2	61.0	49.8	47.5	48.8
9:00-10:00	54.9	55.1	45.6	51.6	48.3	57.2
10:00-11:00	64.2	48.9	52.8	47.0	51.4	55.8
11:00-12:00	58.1	49.6	48.7	68.9	56.6	52.7
12:00-13:00	64.5	58.2	60.7	65.1	59.0	63.0
13:00-14:00	56.5	47.4	55.2	57.7	54.2	56.9
14:00-15:00	63.3	60.4	67.8	64.3	50.2	65.8
15:00-16:00	60.4	73.0	70.5	74.7	72.4	71.0
16:00-17:00	62.3	56.7	66.5	54.0	61.7	67.6
17:00-18:00	71.8	59.7	47.7	50.9	65.5	58.5
18:00-19:00	60.9	51.5	53.4	55.2	52.3	54.3
19:00-20:00	47.2	53.1	54.3	56.7	58.0	44.6
20:00-21:00	42.2	61.3	69.1	58.8	53.2	60.8
21:00-22:00	56.3	54.7	58.1	52.8	64.7	43.6

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - Unit in dB (A)#					
	10/10/2017 & 11/10/2017	08/11/2017 & 09/11/2017	08/12/2017 & 09/12/2017	08/01/2018 & 09/01/2018	09/02/2018 & 10/02/2018	08/03/2018 & 09/03/2018
22:00-23:00	38.5	46.0	49.3	45.3	47.3	48.9
23:00-00:00	43.2	51.1	52.2	48.1	41.4	50.4
00:00-01:00	41.2	48.3	47.4	50.5	46.9	45.1
01:00-02:00	43.6	47.5	44.1	41.1	45.2	42.3
02:00-03:00	51.1	45.3	42.8	44.7	48.4	43.4
03:00-04:00	44.6	38.9	45.6	39.5	43.6	49.2
04:00-05:00	44.5	41.7	50.4	37.3	40.6	55.9
05:00-06:00	53.2	49.1	43.5	46.4	42.6	54.7

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

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

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

Authorized Signatory

**Tables - 8 - Near S & S Entry Gate (Dahej Road) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:**

Sampling Location	8 - Near S & S Entry Gate (Dahej Road)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	11/10/2017	09/11/2017	09/12/2017	09/01/2018	10/02/2018	09/03/2018
6:00-7:00	50.2	58.0	60.4	56.4	59.1	57.5
7:00-8:00	53.8	50.1	56.2	48.7	57.6	49.6
8:00-9:00	51.3	54.6	55.9	62.4	49.4	52.6
9:00-10:00	47.9	46.8	52.6	45.8	48.2	42.4
10:00-11:00	45.8	59.6	53.4	55.9	54.2	58.3
11:00-12:00	59.5	40.7	44.5	41.8	42.3	48.7
12:00-13:00	54.3	41.3	46.5	43.0	56.2	44.6
13:00-14:00	58.9	48.4	54.9	51.5	52.4	55.6
14:00-15:00	60.2	52.6	57.2	50.8	55.7	53.4
15:00-16:00	63.2	45.6	43.1	47.7	41.1	46.6
16:00-17:00	64.9	47.8	42.9	49.2	45.6	43.5
17:00-18:00	47.3	55.7	62.4	52.7	53.5	54.1
18:00-19:00	49.9	56.3	59.2	53.2	58.6	60.2
19:00-20:00	65.2	51.1	58.9	44.5	46.8	47.0
20:00-21:00	55.4	49.0	50.4	46.4	51.5	45.3
21:00-22:00	50.7	57.6	45.6	54.9	47.7	51.2

Sampling Location	8 - Near S & S Entry Gate (Dahej Road)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	11/10/2017 & 12/10/2017	09/11/2017 & 10/11/2017	09/12/2017 & 10/12/2017	09/01/2018 & 10/01/2018	10/02/2018 & 11/02/2018	09/03/2018 & 10/03/2018
22:00-23:00	50.9	55.3	45.3	41.3	47.4	48.6
23:00-00:00	52.4	41.9	42.8	44.4	45.8	43.4
00:00-01:00	42.3	48.2	43.5	47.0	41.1	58.7
01:00-02:00	52.6	39.6	47.8	40.3	43.4	41.2
02:00-03:00	43.3	45.2	44.0	48.5	42.9	50.2
03:00-04:00	50.5	43.4	46.3	42.7	49.6	44.5
04:00-05:00	41.9	42.3	48.7	39.4	50.4	54.6
05:00-06:00	44.7	47.9	41.4	45.8	40.4	46.6

#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.

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

Authorized Signatory



Tables -9 - GCPTL GateAmbient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	9 - GCPTL Gate					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	12/10/2017	10/11/2017	11/12/2017	11/01/2018	12/02/2018	10/03/2018
6:00-7:00	45.6	41.2	47.9	42.1	43.4	46.0
7:00-8:00	45.5	63.6	60.4	50.3	51.4	52.6
8:00-9:00	47.5	62.8	63.0	65.7	67.6	61.9
9:00-10:00	46.1	59.8	53.7	57.4	58.6	44.1
10:00-11:00	55.6	51.1	50.7	47.6	48.0	53.9
11:00-12:00	51.5	57.6	52.3	58.7	59.4	56.6
12:00-13:00	42.1	40.9	43.5	41.6	45.9	48.0
13:00-14:00	53.2	49.5	39.8	40.1	38.3	41.4
14:00-15:00	71.2	56.4	61.9	55.8	64.7	58.6
15:00-16:00	55.8	50.2	56.2	53.5	57.6	54.2
16:00-17:00	55.9	52.0	44.7	45.9	46.1	50.0
17:00-18:00	45.2	54.6	48.5	56.3	53.8	55.1
18:00-19:00	57.3	69.9	65.4	68.4	63.7	67.1
19:00-20:00	52.2	43.4	45.3	46.8	44.8	42.2
20:00-21:00	53.3	60.3	59.3	52.3	55.2	51.5
21:00-22:00	56.8	55.1	49.7	54.2	52.2	57.1

Sampling Location	9 - GCPTL Gate					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	12/10/2017 & 13/10/2017	10/11/2017 & 11/11/2017	11/12/2017 & 12/12/2017	11/01/2018 & 12/01/2018	12/02/2018 & 13/02/2018	10/03/2018 & 11/03/2018
22:00-23:00	39.2	49.3	46.2	42.5	47.4	53.4
23:00-00:00	40.3	44.7	42.1	41.6	39.2	45.9
00:00-01:00	41.6	47.3	50.8	46.1	44.7	54.3
01:00-02:00	43.5	54.3	56.1	52.8	57.4	50.4
02:00-03:00	40.4	39.8	44.7	48.8	51.3	42.5
03:00-04:00	47.7	45.2	51.9	44.4	43.3	41.5
04:00-05:00	41.4	46.8	45.8	47.9	49.4	56.2
05:00-06:00	45.8	50.3	47.1	49.1	46.5	43.7

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

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

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

Authorized Signatory

**Tables - 10 - Lakhi Village (Primary School) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:**

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	13/10/2017	11/11/2017	12/12/2017	12/01/2018	13/02/2018	12/03/2018
6:00-7:00	49.3	59.0	42.6	57.9	60.8	69.0
7:00-8:00	57.2	54.6	58.4	59.9	61.9	62.2
8:00-9:00	65.9	60.8	56.0	58.2	57.8	68.5
9:00-10:00	61.4	53.6	54.4	55.3	56.8	65.5
10:00-11:00	62.8	52.3	59.9	54.5	58.8	55.4
11:00-12:00	55.4	50.6	53.2	65.4	51.7	54.6
12:00-13:00	55.1	57.3	50.7	64.9	53.2	56.1
13:00-14:00	63.8	55.3	65.0	62.6	50.6	64.9
14:00-15:00	53.9	62.5	61.6	63.2	43.1	59.7
15:00-16:00	49.6	47.3	43.4	45.0	44.0	50.5
16:00-17:00	51.1	49.4	44.5	52.1	45.9	46.7
17:00-18:00	60.6	56.3	46.5	51.0	55.8	57.6
18:00-19:00	56.2	58.1	55.1	53.7	54.2	52.7
19:00-20:00	67.5	63.2	60.4	61.1	52.1	66.6
20:00-21:00	64.8	51.9	48.1	46.9	47.2	58.8
21:00-22:00	52.7	61.9	47.9	49.9	46.3	67.4

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	13/10/2017 & 14/10/2017	11/11/2017 & 12/11/2017	12/12/2017 & 13/12/2017	12/01/2018 & 13/01/2018	13/02/2018 & 14/02/2018	12/03/2018 & 13/03/2018
22:00-23:00	38.2	45.5	62.6	42.9	63.7	54.8
23:00-00:00	46.6	47.2	50.8	55.3	51.3	52.4
00:00-01:00	52.8	39.5	37.8	43.7	36.9	51.3
01:00-02:00	58.4	60.8	48.7	63.4	47.2	66.6
02:00-03:00	39.3	38.3	53.6	41.4	52.8	44.4
03:00-04:00	41.8	43.1	44.0	49.1	46.2	57.9
04:00-05:00	44.8	53.8	63.6	47.1	50.6	62.2
05:00-06:00	55.6	44.4	49.1	53.6	48.4	43.5

#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.

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

Authorized Signatory

**Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:**

Sampling Location	11 - ERMS Workshop					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	16/10/2017	13/11/2017	13/12/2017	13/01/2018	14/02/2018	13/03/2018
6:00-7:00	46.7	54.2	42.4	55.4	50.0	47.2
7:00-8:00	58.4	46.0	53.8	57.0	44.6	54.6
8:00-9:00	43.4	53.7	62.8	51.0	59.7	52.4
9:00-10:00	55.3	58.2	65.2	50.8	61.7	51.5
10:00-11:00	48.4	60.6	49.8	59.7	58.7	56.3
11:00-12:00	55.6	56.9	51.3	53.1	52.1	61.4
12:00-13:00	45.3	59.3	52.7	60.1	64.0	49.5
13:00-14:00	51.1	63.1	41.3	47.4	48.5	57.1
14:00-15:00	50.2	51.8	57.4	52.0	60.9	45.7
15:00-16:00	51.9	42.5	48.7	45.8	47.9	44.5
16:00-17:00	53.8	61.2	55.7	58.3	62.5	60.8
17:00-18:00	44.2	57.5	50.0	56.8	46.6	58.4
18:00-19:00	48.5	49.2	45.1	54.1	53.5	46.7
19:00-20:00	55.1	47.5	54.6	46.7	56.8	50.2
20:00-21:00	60.1	55.2	67.6	61.8	54.0	53.1
21:00-22:00	54.9	52.5	43.0	44.3	41.4	48.5

Sampling Location	11 - ERMS Workshop					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	16/10/2017 & 17/10/2017	13/11/2017 & 14/11/2017	13/12/2017 & 14/12/2017	13/01/2018 & 14/01/2018	14/02/2018 & 15/02/2018	13/03/2018 & 14/03/2018
22:00-23:00	41.7	37.5	36.3	44.1	35.2	38.1
23:00-00:00	51.8	43.2	45.2	41.9	47.3	50.8
00:00-01:00	50.2	42.2	46.6	49.8	45.4	44.2
01:00-02:00	44.6	40.8	39.7	42.6	37.7	39.4
02:00-03:00	52.2	46.7	48.9	50.6	43.4	47.0
03:00-04:00	44.7	47.0	43.7	45.6	54.9	46.3
04:00-05:00	41.8	45.0	40.6	43.5	42.2	36.5
05:00-06:00	50.1	44.6	42.5	47.9	46.7	48.7

#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.

Authorized Signatory



Tables - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	12 - Behind Pump House					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	17/10/2017	14/11/2017	14/12/2017	14/01/2018	15/02/2018	14/03/2018
6:00-7:00	42.5	52.0	65.6	70.6	59.4	52.4
7:00-8:00	46.6	51.1	49.1	50.3	48.6	54.9
8:00-9:00	52.3	54.8	47.5	60.8	57.5	53.0
9:00-10:00	54.3	60.6	55.0	53.8	50.9	57.3
10:00-11:00	49.9	59.0	62.6	61.3	60.5	63.0
11:00-12:00	56.6	65.6	63.5	57.8	55.4	58.9
12:00-13:00	63.9	55.2	58.5	66.7	56.2	49.3
13:00-14:00	57.7	43.1	46.1	45.9	47.1	48.4
14:00-15:00	56.7	47.1	61.4	48.7	44.0	51.5
15:00-16:00	60.8	57.8	53.9	55.3	54.8	59.9
16:00-17:00	61.6	50.6	51.9	64.2	52.6	62.2
17:00-18:00	55.2	64.6	57.6	56.2	53.7	60.9
18:00-19:00	54.2	52.3	56.6	51.7	40.3	65.7
19:00-20:00	45.8	44.9	42.2	58.4	43.2	50.5
20:00-21:00	60.7	63.2	59.4	62.9	68.9	66.3
21:00-22:00	58.7	49.9	50.3	63.0	51.7	56.0

Sampling Location	12 - Behind Pump House					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	17/10/2017 & 18/10/2017	14/11/2017 & 15/11/2017	14/12/2017 & 15/12/2017	14/01/2018 & 15/01/2018	15/02/2018 & 16/02/2018	14/03/2018 & 15/03/2018
22:00-23:00	44.2	42.5	45.8	41.9	52.7	53.5
23:00-00:00	49.8	40.0	42.2	44.9	41.2	43.0
00:00-01:00	49.1	52.4	43.1	45.8	42.4	50.5
01:00-02:00	43.8	46.5	47.5	40.8	48.0	56.7
02:00-03:00	47.2	43.0	41.8	53.1	40.3	54.8
03:00-04:00	42.2	44.9	49.8	46.8	50.4	57.7
04:00-05:00	39.2	54.2	52.8	50.6	51.2	55.4
05:00-06:00	52.6	53.4	55.2	59.0	46.4	62.0

*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.

Authorized Signatory



Tables - 13 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	18/10/2017	15/11/2017	15/12/2017	15/01/2018	16/02/2018	15/03/2018
6:00-7:00	55.4	51.2	50.3	57.5	56.8	52.8
7:00-8:00	53.3	46.8	44.0	56.8	51.7	58.1
8:00-9:00	50.8	47.2	48.4	49.7	60.6	46.8
9:00-10:00	44.3	48.7	51.1	46.8	54.5	43.6
10:00-11:00	60.6	61.8	62.0	52.4	58.0	45.4
11:00-12:00	49.5	50.6	55.3	61.4	62.7	42.3
12:00-13:00	65.5	45.6	49.7	58.0	48.7	47.3
13:00-14:00	57.8	56.2	61.5	59.6	63.3	54.1
14:00-15:00	54.7	64.0	53.2	55.3	47.8	56.0
15:00-16:00	51.4	70.0	65.0	69.4	46.0	59.9
16:00-17:00	58.5	43.4	41.4	60.6	61.5	62.6
17:00-18:00	58.3	68.9	67.4	62.9	59.8	66.3
18:00-19:00	55.9	54.4	56.8	53.3	57.9	40.4
19:00-20:00	56.2	39.1	43.9	41.0	42.7	44.5
20:00-21:00	65.3	41.9	45.4	47.9	50.2	48.0
21:00-22:00	56.3	49.2	52.2	51.3	55.5	53.4

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	18/10/2017 & 19/10/2017	15/11/2017 & 16/11/2017	15/12/2017 & 16/12/2017	15/01/2018 & 16/01/2018	16/02/2018 & 17/02/2018	15/03/2018 & 16/03/2018
22:00-23:00	43.3	44.3	41.1	45.9	42.0	51.9
23:00-00:00	50.4	59.8	55.0	56.5	54.0	58.0
00:00-01:00	61.3	50.0	51.0	49.4	48.7	54.3
01:00-02:00	35.5	51.9	50.1	53.0	49.2	56.3
02:00-03:00	41.1	46.0	44.7	43.0	47.7	40.8
03:00-04:00	44.5	37.6	40.1	38.3	35.0	39.9
04:00-05:00	47.1	45.4	43.3	39.2	44.6	42.6
05:00-06:00	53.5	42.3	39.1	41.1	45.5	43.2

#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.

Authorized Signatory



Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time In Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	14 - New Gate					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	19/10/2017	16/11/2017	16/12/2017	16/01/2018	17/02/2018	16/03/2018
6:00-7:00	43.3	53.3	56.3	63.9	61.2	60.1
7:00-8:00	50.6	60.6	63.7	55.8	62.2	64.4
8:00-9:00	43.6	55.8	52.2	59.7	50.9	53.2
9:00-10:00	45.9	62.1	64.9	58.8	60.8	59.2
10:00-11:00	66.4	46.3	50.7	47.4	49.0	52.1
11:00-12:00	53.5	58.8	54.7	56.6	55.7	47.5
12:00-13:00	55.5	51.6	61.1	60.0	54.4	50.4
13:00-14:00	50.5	63.7	66.3	65.9	67.7	58.8
14:00-15:00	51.5	57.3	49.6	50.3	56.5	48.5
15:00-16:00	59.9	40.0	44.4	41.7	57.3	43.4
16:00-17:00	59.8	64.6	58.2	54.9	52.5	51.8
17:00-18:00	63.3	61.4	68.2	64.1	65.7	62.6
18:00-19:00	59.7	41.9	53.2	43.4	42.5	45.4
19:00-20:00	56.1	45.4	47.8	46.9	44.7	49.2
20:00-21:00	53.4	50.9	55.0	51.9	58.7	46.1
21:00-22:00	47.8	56.3	51.1	53.7	59.1	54.4

Sampling Location	14 - New Gate					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	19/10/2017 & 20/10/2017	16/11/2017 & 17/11/2017	16/12/2017 & 17/12/2017	16/01/2018 & 17/01/2018	17/02/2018 & 18/02/2018	16/03/2018 & 17/03/2018
22:00-23:00	45.5	51.6	46.9	50.3	48.1	43.9
23:00-00:00	36.9	50.7	53.8	51.4	52.3	49.9
00:00-01:00	44.3	38.4	40.2	45.6	39.4	47.7
01:00-02:00	41.5	49.2	36.4	38.8	37.4	39.5
02:00-03:00	52.5	41.7	54.7	40.8	43.3	45.0
03:00-04:00	49.6	54.8	52.7	53.2	51.3	55.1
04:00-05:00	42.8	52.4	44.4	47.4	45.8	48.8
05:00-06:00	40.4	48.8	51.1	52.1	49.6	54.4

#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.

Authorized Signatory



Tables - 15 - Security Barrier Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	15 - Security Barrier Gate					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	20/10/2017	17/11/2017	18/12/2017	18/01/2018	19/02/2018	17/03/2018
6:00-7:00	52.8	57.6	53.0	56.7	54.7	55.8
7:00-8:00	55.8	42.3	46.1	47.4	45.1	48.9
8:00-9:00	55.7	44.8	41.9	48.9	42.5	49.5
9:00-10:00	54.6	60.4	57.3	52.0	55.1	59.7
10:00-11:00	56.8	70.7	55.1	63.1	67.4	61.7
11:00-12:00	48.8	50.6	52.4	70.2	60.7	63.4
12:00-13:00	54.4	67.6	61.2	59.1	62.1	69.0
13:00-14:00	74.5	72.8	70.4	73.4	71.9	68.6
14:00-15:00	54.5	66.6	58.2	64.8	56.2	60.2
15:00-16:00	56.9	62.1	60.8	61.8	66.2	58.2
16:00-17:00	50.7	46.4	44.3	43.1	61.3	41.4
17:00-18:00	66.6	65.5	63.0	62.6	59.2	67.4
18:00-19:00	57.3	61.9	59.8	60.3	58.4	64.1
19:00-20:00	53.1	55.2	56.3	57.8	51.4	54.3
20:00-21:00	46.3	56.9	62.4	55.3	63.1	65.9
21:00-22:00	48.7	49.4	45.6	44.5	46.3	47.2

Sampling Location	15 - Security Barrier Gate					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	20/10/2017 & 21/10/2017	17/11/2017 & 18/11/2017	18/12/2017 & 19/12/2017	18/01/2018 & 19/01/2018	19/02/2018 & 20/02/2018	17/03/2018 & 18/03/2018
22:00-23:00	46.8	38.0	39.5	42.0	41.8	56.6
23:00-00:00	43.6	53.8	51.0	50.8	49.7	54.9
00:00-01:00	41.3	39.5	43.5	51.7	42.9	44.5
01:00-02:00	45.8	36.8	37.1	40.4	43.9	39.9
02:00-03:00	46.6	43.8	50.2	45.7	40.3	47.1
03:00-04:00	40.5	42.9	45.8	43.0	48.4	46.8
04:00-05:00	44.4	48.3	42.7	52.8	50.6	57.1
05:00-06:00	42.7	47.6	40.6	48.7	44.4	49.0

#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.

Authorized Signatory



Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	16 - JS-2					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	23/10/2017	18/11/2017	19/12/2017	20/01/2018	20/02/2018	19/03/2018
6:00-7:00	48.3	45.3	43.4	53.0	42.2	59.9
7:00-8:00	52.2	55.8	56.4	57.0	53.9	58.5
8:00-9:00	59.6	50.4	49.9	48.9	47.6	52.6
9:00-10:00	53.2	47.3	46.2	45.8	48.6	54.0
10:00-11:00	55.3	60.2	58.8	61.3	57.4	69.4
11:00-12:00	54.8	58.9	55.8	52.2	51.8	66.1
12:00-13:00	48.7	62.6	61.1	60.3	45.9	63.8
13:00-14:00	46.3	57.3	52.3	59.7	58.9	60.9
14:00-15:00	52.7	63.2	48.0	64.0	62.9	65.6
15:00-16:00	58.4	56.1	63.4	65.7	44.8	61.1
16:00-17:00	63.5	53.3	41.2	42.8	46.8	55.8
17:00-18:00	46.6	67.9	64.9	66.4	65.1	62.6
18:00-19:00	49.2	51.8	60.9	55.7	59.8	57.1
19:00-20:00	48.8	49.8	47.9	44.5	43.6	50.6
20:00-21:00	49.8	65.2	59.2	58.6	60.6	68.4
21:00-22:00	50.7	54.6	53.0	56.4	41.3	51.9

Sampling Location	16 - JS-2					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	23/10/2017 & 24/10/2017	18/11/2017 & 19/11/2017	19/12/2017 & 20/12/2017	20/01/2018 & 21/01/2018	20/02/2018 & 21/02/2018	19/03/2018 & 20/03/2018
22:00-23:00	45.1	47.4	44.1	40.8	46.3	53.3
23:00-00:00	53.8	54.7	48.4	57.4	40.0	58.9
00:00-01:00	50.2	44.1	43.7	48.6	42.0	63.2
01:00-02:00	45.7	40.9	49.7	42.9	52.3	51.3
02:00-03:00	46.2	43.3	45.4	44.7	41.6	49.5
03:00-04:00	47.7	42.8	41.7	46.6	49.2	48.7
04:00-05:00	43.3	46.8	47.4	41.4	51.6	54.7
05:00-06:00	50.9	39.5	46.8	49.3	45.3	42.4

*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.

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

Authorized Signatory



Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	17 - Railway Dead End					
	During Day Time - Unit in dB (A)#					
	24/10/2017	20/11/2017	20/12/2017	22/01/2018	21/02/2018	20/03/2018
Date of Monitoring						
6:00-7:00	58.3	53.4	50.0	57.3	56.8	52.2
7:00-8:00	48.1	54.5	52.8	53.0	51.2	58.8
8:00-9:00	56.1	47.5	46.9	49.3	53.2	50.6
9:00-10:00	54.6	48.0	53.5	46.0	50.9	47.6
10:00-11:00	44.6	51.6	60.5	50.9	58.1	53.0
11:00-12:00	53.1	50.8	48.8	52.2	62.6	49.7
12:00-13:00	44.9	45.4	49.3	54.2	48.4	46.2
13:00-14:00	50.8	56.5	61.3	59.5	49.2	54.0
14:00-15:00	53.3	59.1	47.4	55.3	43.5	56.6
15:00-16:00	62.7	70.6	65.1	69.8	59.6	66.5
16:00-17:00	53.7	43.0	58.3	60.9	61.5	62.5
17:00-18:00	61.3	68.9	66.7	62.9	60.1	69.6
18:00-19:00	65.3	60.4	56.5	58.1	57.2	55.2
19:00-20:00	60.2	39.8	43.4	41.8	42.1	44.9
20:00-21:00	45.3	41.6	42.3	47.0	46.9	48.8
21:00-22:00	56.4	49.8	59.6	51.9	55.1	57.1

Sampling Location	17 - Railway Dead End					
	During Night Time - Unit in dB (A)#					
	24/10/2017	20/11/2017	20/12/2017	22/01/2018	21/02/2018	20/03/2018
Date of Monitoring						
	25/10/2017	21/11/2017	21/12/2017	23/01/2018	22/02/2018	21/03/2018
22:00-23:00	44.2	46.1	45.8	56.1	42.5	50.6
23:00-00:00	55.5	41.0	46.6	40.0	52.2	54.7
00:00-01:00	37.2	55.0	58.7	54.6	39.7	65.3
01:00-02:00	46.3	52.7	48.8	44.6	37.0	45.2
02:00-03:00	44.8	43.1	49.7	45.6	48.4	42.1
03:00-04:00	40.2	45.8	43.9	42.2	51.8	44.7
04:00-05:00	44.6	51.7	50.0	53.0	45.2	56.1
05:00-06:00	52.9	35.9	37.5	36.2	50.7	39.3

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

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

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

Authorized Signatory



Tables - 18 - S and S Yard (South) Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	18 - S and S Yard (South)					
	During Day Time - Unit in dB (A)#					
	Date of Monitoring	25/10/2017	21/11/2017	21/12/2017	21/01/2018	22/02/2018
6:00-7:00	64.2	57.4	48.6	50.3	49.5	47.3
7:00-8:00	50.2	64.7	69.6	60.6	61.4	62.4
8:00-9:00	49.5	66.9	63.5	64.4	60.4	65.9
9:00-10:00	56.8	54.5	53.0	55.0	52.9	67.8
10:00-11:00	54.2	67.9	60.7	53.0	57.7	51.3
11:00-12:00	55.4	53.1	50.7	51.1	68.5	58.3
12:00-13:00	45.6	58.6	59.7	61.8	48.6	52.1
13:00-14:00	54.5	56.7	55.2	57.3	58.0	59.3
14:00-15:00	51.3	55.4	56.5	52.0	50.2	53.2
15:00-16:00	54.3	65.0	62.9	70.7	63.7	66.9
16:00-17:00	56.2	60.3	46.1	54.8	59.1	61.7
17:00-18:00	63.0	59.4	58.9	46.9	53.3	57.5
18:00-19:00	57.3	63.0	66.2	68.3	67.5	69.6
19:00-20:00	57.6	61.1	54.0	58.1	51.7	64.4
20:00-21:00	57.9	48.8	47.1	49.8	56.3	55.6
21:00-22:00	55.2	68.9	65.6	67.5	66.1	63.1

Sampling Location	18 - S and S Yard (South)					
	During Night Time - Unit in dB (A)#					
	25/10/2017 & 26/10/2017	21/11/2017 & 22/11/2017	21/12/2017 & 22/12/2017	21/01/2018 & 22/01/2018	22/02/2018 & 23/02/2018	21/03/2018 & 22/03/2018
Date of Monitoring						
22:00-23:00	47.2	59.0	50.1	56.7	57.7	58.2
23:00-00:00	52.7	50.2	48.8	44.4	43.2	46.7
00:00-01:00	51.3	44.9	40.2	36.0	39.9	42.9
01:00-02:00	36.2	47.9	45.6	43.4	46.4	49.9
02:00-03:00	62.2	51.7	52.2	55.4	50.6	47.2
03:00-04:00	43.2	46.2	47.1	49.3	45.2	48.6
04:00-05:00	48.6	39.6	41.5	38.0	42.2	44.2
05:00-06:00	51.4	49.2	56.7	52.0	55.4	50.0

#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.

Authorized Signatory



Tables - 19 - S and S Yard (North) Boundary Wall Ambient Noise Level Monitoring Results during the Day Time and Night Time in Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	19 - S and S Yard (North) Boundary Wall					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	26/10/2017	22/11/2017	22/12/2017	22/01/2018	23/02/2018	22/03/2018
6:00-7:00	44.3	46.5	43.2	47.4	40.3	50.3
7:00-8:00	51.2	55.8	48.3	49.0	47.8	45.0
8:00-9:00	59.7	66.6	49.0	57.6	55.9	64.7
9:00-10:00	55.5	60.8	72.4	58.5	56.3	61.5
10:00-11:00	56.3	50.1	53.4	44.5	52.9	57.6
11:00-12:00	50.5	64.8	60.0	56.4	58.8	63.5
12:00-13:00	55.9	65.9	54.0	46.3	51.4	53.1
13:00-14:00	65.7	52.2	56.6	54.7	53.1	55.5
14:00-15:00	64.3	63.7	62.5	59.0	60.0	65.2
15:00-16:00	58.9	53.0	52.6	60.6	48.9	68.3
16:00-17:00	55.1	54.2	59.6	51.4	42.4	60.8
17:00-18:00	47.3	61.8	51.8	43.5	46.8	62.3
18:00-19:00	53.5	56.4	44.4	48.2	49.2	46.3
19:00-20:00	50.9	44.7	47.8	41.0	45.2	48.5
20:00-21:00	54.7	62.9	46.7	45.5	50.0	56.1
21:00-22:00	51.4	68.0	57.3	42.5	41.5	52.9

Sampling Location	19 - S and S Yard (North) Boundary Wall					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	26/10/2017 & 27/10/2017	22/11/2017 & 23/11/2017	22/12/2017 & 23/12/2017	22/01/2018 & 23/01/2018	23/02/2018 & 24/02/2018	22/03/2018 & 23/03/2018
22:00-23:00	48.2	43.0	44.2	45.7	50.7	47.0
23:00-00:00	40.6	48.3	45.6	49.0	47.1	50.5
00:00-01:00	44.1	46.9	48.9	47.3	45.0	54.6
01:00-02:00	42.2	49.4	47.8	56.3	51.8	58.8
02:00-03:00	51.8	39.5	50.3	42.7	49.4	38.7
03:00-04:00	48.7	41.1	40.1	46.4	44.3	43.6
04:00-05:00	42.8	45.9	43.5	41.0	46.6	53.1
05:00-06:00	42.3	54.7	53.1	52.2	41.2	57.4

*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.

Observations: 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 Leq. dB (A) for the period: October 2017 to March 2018:

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - Unit in dB (A)#					
Date of Monitoring	27/10/2017	23/11/2017	23/12/2017	23/01/2018	24/02/2018	23/03/2018
6:00-7:00	50.3	49.2	44.9	42.4	43.5	65.0
7:00-8:00	53.6	44.2	41.7	58.5	65.9	61.0
8:00-9:00	50.6	51.4	48.8	49.6	41.1	59.9
9:00-10:00	53.9	46.4	54.8	48.4	47.1	58.2
10:00-11:00	65.2	59.1	51.2	50.3	57.1	56.2
11:00-12:00	64.5	53.7	56.9	61.0	67.5	70.7
12:00-13:00	56.9	60.6	46.9	45.1	55.6	48.3
13:00-14:00	59.9	47.6	43.3	51.2	60.2	66.8
14:00-15:00	60.1	58.4	42.8	40.2	48.5	57.4
15:00-16:00	55.7	43.8	45.3	59.4	46.5	62.9
16:00-17:00	65.4	56.6	40.3	52.4	45.9	60.7
17:00-18:00	61.2	54.1	52.5	55.3	50.9	53.4
18:00-19:00	57.8	45.6	47.9	46.1	59.3	54.0
19:00-20:00	57.4	48.1	50.1	44.6	51.2	52.8
20:00-21:00	52.3	55.5	57.5	56.7	58.3	68.2
21:00-22:00	47.4	61.6	58.5	43.3	44.4	55.2

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - Unit in dB (A)#					
Date of Monitoring	27/10/2017 & 28/10/2017	23/11/2017 & 24/11/2017	23/12/2017 & 24/12/2017	23/01/2018 & 24/01/2018	24/02/2018 & 25/02/2018	23/03/2018 & 24/03/2018
22:00-23:00	47.8	42.6	35.3	48.6	36.3	55.9
23:00-00:00	44.3	45.9	42.7	53.6	40.6	52.7
00:00-01:00	43.1	40.5	37.8	36.1	51.5	49.0
01:00-02:00	47.5	48.8	54.2	50.2	55.1	59.3
02:00-03:00	50.6	39.4	47.5	35.4	44.6	45.5
03:00-04:00	40.5	54.6	44.2	51.3	45.4	53.9
04:00-05:00	46.8	38.2	48.7	42.6	47.4	57.2
05:00-06:00	43.6	41.0	51.6	57.8	50.5	44.6

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

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

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


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

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October 2017 to March 2018:-

Sr. No.	Parameters	Unit	DG Set # 1MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3Marine (SS8)		DG Set # 4Silo (SS11)	
			NOV-17	FEB-18	NOV-17	FEB-18	NOV-17	FEB-18	NOV-17	FEB-18
1	Particulate Matter	mg/Nm ³	17.55	24.84	23.44	20.51	21.55	26.75	19.36	21.57
2	Sulphur Dioxide	ppm	7.27	7.49	5.78	8.68	5.71	5.64	4.02	6.5
3	Oxide of Nitrogen	ppm	35.57	39.56	37.93	35.85	31.97	37.19	29.65	32.41
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Carbon Monoxide (CO)	mg/m ³	3.44	5.27	5.34	3.37	4.63	2.75	3.51	4.22

Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: October 2017 to March 2018:-

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location		At 1 m from the enclose outside
	Sampling Date		
1.	DG Set # 1MRSS (SS5)	NOV-17	FEB-18
2.	DG Set # 2 SS7B	68.9	67.8
3.	DG Set # 3Marine (SS8)	69.3	68.5
4.	DG Set # 4Silo (SS11)	68.7	67.6
		69.4	68.1

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Annexure – 4

Green Zone Details

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

Annexure-5: Environment Budget and Expenditure for the FY: 2017-18

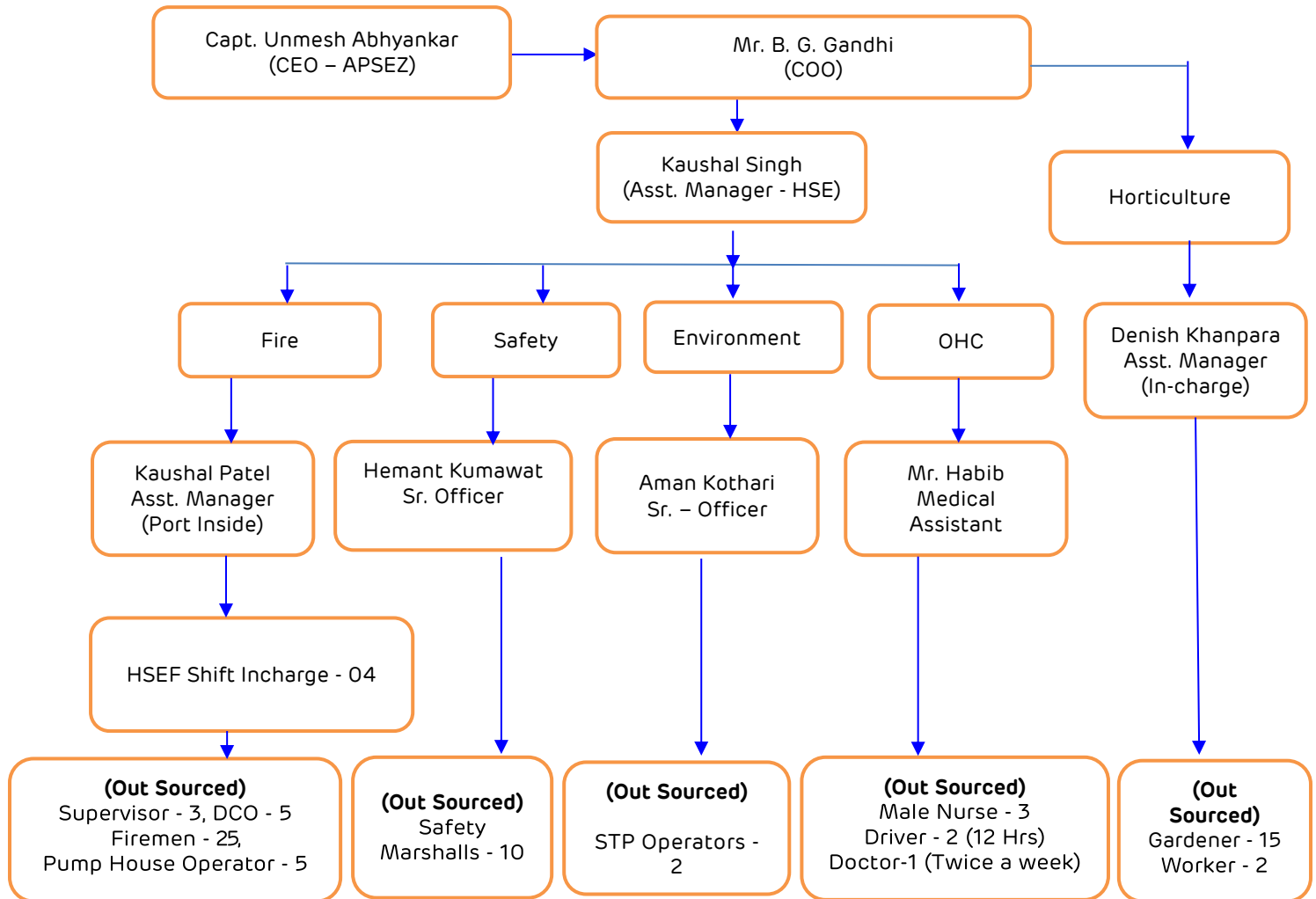
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	EHS Manpower	15.5	15.5
2.	Legal & Statutory Expenses	1.50	0.22
3.	Environmental Monitoring Services	19.0	18.62
4.	Water Consumption	75.5	33.78
5.	Hazardous Waste Management & Disposal	0.80	1.05
6.	Greenbelt Development and Plantation	22.70	22.70
7.	O&M of Pollution control measures	6.40	6.15
8.	Environment Day Celebration	0.25	0.25
9.	Treatment and Disposal of Bio-Medical Waste	2.16	1.92
10.	Operation and Maintenance of Road Cleaning equipment and manpower	17.41	17.41
11.	Operation and Maintenance of Fire staff	49.50	49.50
TOTAL AMOUNT (IN LACS)		210.72	167.10

CAPITAL EXPENDITURE			
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	Horticulture Development	26.36	26.36
2.	EHS Display Board	5.0	5.0
TOTAL AMOUNT (IN LACS)		31.36	31.36

Annexure - 6: Organogram of APPPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT PVT. LTD.

Dept.: QHSE Management Cell



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Asst. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	10 Years
2.	Denish Khanpara	Asst. Manager	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	10 Years
3.	Kaushal Patel	Asst. Manager	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT) pursuing	12 Years
4.	Hemant Kumawat	Sr. - Officer	Dip – Mech, Dip. In Fire & Safety, NEBOSH	8 Year
5.	Aman Kothari	Sr. - Officer	M.Sc. Environment Science & Technology, PDIS	6 Years

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

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 artillery roads.
	Vehicle tyre washing facilities will be provided at the entrance to prevent spillover of dust sticking on tyre outside the facility.	Complied with. Vehicle tyre washing system has been provided.
	Construction materials kept in open area will be provided with barrier in order to prevent wind carryover of dust.	Complying with. Construction material is being kept in a secure area.
	Construction materials transportation in and outside the port will be appropriately covered to prevent fugitive dust emissions.	Complying with. Material transportation is being done through trucks covered with tarpaulin.
	Civil and Mechanical fabrication works will be carried out within the port facility at an appropriate location to avoid impact on the local air quality at project construction site.	Complying with. Civil and Mechanical fabrication is being done within the port premises.
	All construction equipments at site will be subjected to regular maintenance to minimize the vehicle exhaust.	Complying with. All vehicles are being checked for PUC.
	All trucks deployed at site will be provided with fitness and pollution under control certificate.	Complying with. All vehicles are being checked for PUC.
	DG set with appropriate stack height as per CPCB guidelines for effective dispersion of pollutants shall be provided.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
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 equipments should be repaired to meet the compliance noise level.	Complying with. Noise generating equipments are provided with acoustic enclosures.
	No activity involving with high intensity and magnitude of operation should be deployed. Silencers will be provided in Vehicle exhaust.	Complying with. <ul style="list-style-type: none"> 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, A 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 equipments 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 2017 – March 2018 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 to DG sets to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
	Existing Port has installed robust dry fog dust suppression system (DFDS) at the Jetty, conveyor belt, transfer tower, and discharge point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	Complying with. All dust control systems are maintained and operating well.
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	Complying with. <ul style="list-style-type: none"> • At coal stack yard, 100 sprinklers and 4 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.
2.2	Noise Control Management Plan	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will	Shall be complied.

	be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	Complying with. DG sets installed in open area will be provided with acoustic enclosure
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	Complying with. Compressor and DG sets are installed in separate building and provided with acoustic enclosures.
	Movement of vehicles within the port will be restricted with speed control measures	Complying with. <ul style="list-style-type: none"> • Speed is limited within the port premises. • Proper signage also provided with the premises.
	Using silent exhaust pipes for major diesel engine vehicles and heavy trucks operated inside the port	Complying with. All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.
	Planting trees which acts as barrier to arrest dispersion of noise levels along the internal roads and port boundary	Complying with. Green belt is being developed in an area of 8.0 ha including periphery of the project boundary.
	Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible	Complying with. Liebherr & Gottwald Crane, Stacking & Reclaiming Conveyor, BWSR equipment are using electricity powered instead of diesel powered inside the port.
	Change management process will be implemented to modify operation to address noise pollution if occurs	Complying with. APDPPL is certified with the ISO 14001:2015. A proper change management process in place for any kind of deviation. However, there is no occurrence of noise level exceeding norms.
2.3	Storm Water Management Plan	
	Following areas will be provided with storm water drainage systems to prevent any surface run-off in to the sea. <ul style="list-style-type: none"> • 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.
	• 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 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	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.

	anchored for collection of waste due to windblown in to the sea.	
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	Complying with. All the wastes are being managed in compliance to the respective waste management rules as amended in 2016.
	Solid Waste generated during port operations will be disposed as per Solid Waste (Management & Handling) Rules 2000. Wherever possible the recycle and reuse will be explored for possibilities of recovery of any useful material. Option for recycle/reuse if not economical, then the waste will be disposed as per the SWM Rules, 2000.	
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 8.0 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	
	<p>The proposed CSR programs are based on the needs felt and socioeconomic indicators of the study. The proposed CSR programs can be initially implemented in the five villages of the study area that is Lakhigam, Luvara, Jageshwar, Ambetha and Dahej. Based on the outcome of the CSR programs, it can be expanded to the other villages apart from the study area. The proposed CSR Programs can be grouped into the following subheadings.</p> <p>Health Promotions Programs</p> <ul style="list-style-type: none"> ✓ 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 .
	<p>Education Promotion Programs</p> <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> <tr> <td>8.</td><td>Study Area Villages</td><td>Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.</td></tr> <tr> <td>9.</td><td>Study Area Villages</td><td>Developing Safe Drinking facilities at Schools in the study area.</td></tr> </tbody> </table>	S. No.	Village	Programs	1.	Luvara	Developing proper drainage system in the village.	2.	Dahej	Providing Safe Drinking water Facilities in the schools	3.	Dahej	Developing medical facilities in the PHC such as facilities for storage of perishable medicines,	4.	Jageshwar	Developing Drainage System	5.	Lakhigam	Developing Drainage System	6.	Lakhigam Luvara Jageshwar	Developing Solar Street Light and Internal Village Roads	7.	Ambetha	Developing Drainage System	8.	Study Area Villages	Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.	9.	Study Area Villages	Developing Safe Drinking facilities at Schools in the study area.	
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	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.	
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 - 6.
	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 environmental pollution control measures and environmental management programs.			Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. • Key components of environment budget are environmental Monitoring, STP's (O&M), Closed Conveyor System Maintenance and etc. The allocation of revenue budget for Environment Cell for the FY 2017-18 was approx. Rs. 210.72 lacs. Details of the environmental budget and expenditure for the October, 17 to March, 18 is enclosed as Annexure - 5.

Annexure – 8 **Corporate Social Responsibility Report**

Half Yearly Report- Adani Port- Dahej (Oct -2017 to Mar-2018)

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

INTRODUCTION

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

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

Name of Villages	Total House Hold	Total Population	Male	Female	Children 0-6 Year	Boy	Girl	Total SC	Male SC	Female SC	Total ST	Male ST	Female ST
Dahej	3426	13495	8345	5150	1604	840	764	542	279	263	2090	1097	993
Lakhigam	1217	4938	3144	1794	566	296	270	87	52	35	584	308	276
Luvara	385	1663	873	790	202	112	90	109	56	53	963	488	475
Jageshwar	383	1571	818	753	155	80	75	18	8	10	146	73	73
Ambheta	347	1552	807	745	167	89	78	67	37	30	261	137	124
Jolva	338	1442	807	635	210	105	105	239	137	102	199	98	101
Suva	413	1920	973	947	238	126	112	63	28	35	354	193	161
Rahiad	355	1694	862	832	252	132	120	105	51	54	104	51	53
Koliad	152	676	321	355	92	39	53	57	27	30	323	150	173
Kaladara	393	1663	934	729	205	93	112	108	54	54	570	294	276
Vengani	202	908	462	446	135	66	69	40	18	22	279	136	143
Total	7611	31522	18346	13176	3826	1978	1848	1435	747	688	5873	3025	2848

(Ref: Census Data: 2011, http://censusindia.gov.in/pca/cdb_pca_census/Houselisting-housing-Gujarat.html)

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 2017-18, 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.

Domains of CSR Framework

EDUCATION

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

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

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

[1] Pragna Material Support: Under this initiative, AF engages with the schools positioned in these villages by providing amenities/supplies for betterment of students.

As a part of this activity we decided to distribute "Pragna Book" to 1200 students which covered 09 nos. different villages school. The benefits & outcomes are as under:



Easily identify the words & numbers;

Improve writing capability;

Strengthen basic skill of reading;

[2] Learning Enrichment Programme: This programme we have started this year, under this initiative we have focused on helping directly weak students. Math and Gujarati (medium of language) are the basic subjects to learn the other subjects and the proficiency in language and math support us in our day to day activity till the life end. The students of Govt. School are very poor in language and math.



So, they do not cope up with their curriculum. So, we have specially designed a Learning Enrichment Program to enrich their learning level in the math and Gujarati language. Selection of 7 Teachers and 1 Coordinator for seven Schools for 5th, 6th, 7th, 8th have been done for this project, also total 228 students identified as "Priya Student" (Weak).

The progress is shown in the below table for Gujarati Subject:

Sr. No.	Level	Oct	Nov	Dec	Jan	Feb	Mar
1	0	18	8	4	4	3	2
2	1	147	123	88	66	48	37
3	2	45	41	45	42	38	31
4	3	8	32	41	37	29	30
5	4	0	3	16	26	30	20
6	5	0	3	10	22	19	18
7	Absent	7	15	24	31	35	35
8	Left	0	0	0	0	0	0
9	Mainstream		-	-	-	26	55
	Total	225	225	228	228	228	228

The progress is shown in the below table for Mathematic Subject:

Sr. No.	LEVEL	DEC	JAN	FEB	MAR
1	0	39	51	48	57
2	1	16	32	29	27
3	2	0	3	13	14
4	3	0	0	0	6
5	4	0	0	0	0
6	Absent	0	0	1	2
7	Left	0	0	0	0
8	Main Stream	0	0	0	0
	TOTAL	55	86	91	106



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.

General Health Camps organised at PHC Dahej area: Two mega camps were conducted for seven village community. Total – 580 people benefited from the camps. We provided them medicines with no cost. Specialist doctors such as gynaecologist, paediatrician, physician, skin specialist and dentist were present from Orchid Hospital and Mother Care hospital Bharuch. We did general check-up and gynaecological check up in the camp.



Nos. Of Camps	Nos. of Village	No. of total beneficiaries
2	Dahej, Lakhigam, Luvara, Jageshwar, Ambheta, Jolva, Suva	580

De-Addiction Poster Exhibition in High schools: De-Addiction posters were exhibited in Jageshwar, Lakhigam and Dahej high schools. This program was facilitated by Brahma Kumari, Bharuch. Total 2112 students attended the program. 3500 village community people were also benefited from the program.



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.

Table showing number of patients treated during the year.



Village	Months					
	Oct	Nov	Dec	Jan	Feb	Mar
Lakhigam, Navinagri & Adani Port	297	447	433	329	294	275
Luwara	72	195	105	133	129	125
Ambheta	115	171	176	93	127	165
Jageshwar	104	125	121	97	99	130
Dahej	134	156	177	229	122	223
Jolva	80	89	111	166	90	110
Suwa	128	115	107	139	76	130
Rahiyad	174	170	115	110	210	115
Koliyad	151	230	241	178	142	165
Vyangini	152	168	130	169	168	170
Kaladra	145	185	123	125	147	143
Total	1552	2051	1839	1768	1604	1751

Sustainable Livelihood Development

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

Due to land acquisition by GIDC and being densely covered by industry hubs the livelihood options become very limited for the villagers. A preliminary analysis of the household survey data reveals that labour and service are the primary occupations. Some of the families are also dependent on seasonal occupations such as agriculture, fisheries and animal husbandry but these are not viable throughout the year. Most of the villagers prefer contract jobs offered by companies and don't want to do the unskilled labour work. It was also observed that opportunities for the youth are limited because of the limited education

facilities like lack of ITI, diploma, and vocational training institutes. This creates a vacuum, which is an opportunity for the labour population of other states, as there is high demand for labour in the companies. The local population, with the compensation they received from selling their land, is moving to other places for better education, health and livelihood opportunities. It was observed that the floating population is putting extra burden on the already existing deprived natural resources.

To counter this situation, we have been implementing sustainable livelihood programmes through SHG model to eradicate poverty and empowering rural women by skill enhancement and income generation programmes.

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

Skill Development Programme – SHG Group

Under skill development initiative Adani Foundation, Dahej initially used to conduct training programmes on beauty parlour, tailoring etc. for rural women as a people connect tool especially rural women mass with financial constraint. Since it was conducted with training model now we proposed to convert this model into sustainable model for various livelihood activities. Based on communities' requirement and women interests, we have developed an SHG group with name **"Shiv Shakti Sakhi Mandal"**. This women are making school bags, Jute Bags, Travel Bags, and sell this bags and earn their living. The detail of the project is as under:

Project – 'Udgam' – "Shiv Shakti Sakhi Mandal"

Project Udgam is the brainchild of Adani Foundation, Dahej who identified a way of providing a source of income to the women in the different villages of the Vagra district.



After conducting a market survey, we identified that every year approximately 5000 school bags are needed by different schools and industries for their CSR activity of 'Shala Pravetsosav'. These same bags could be made by the women instead of procuring them from suppliers at Bharuch City.

The pilot project has been initiated with 10 women in the village of Jageshwar (the most responsive women during

need assessment survey of this project in 7 Villages) from May 2017 with the support of Smt. Vilasben, Sarpanch of Jageshwar village.

Future Planning: Target Consumers:

1. CSR Units of Corporates:

Most companies have active CSR units which procure bags for different purposes. The first step will be to reach out to these companies and procure orders

2. Employees of Companies:

The employees working in all these companies may also purchase bags for personal use and gifting purposes. We can target these consumers through stalls in their respective companies

3. Individual Customers:

The plan in the second phase would be to directly reach individual customers in other towns and cities through participation in the exhibitions & fairs.

Product & Brand Recognition:

- **Trademark the logo** of Shiv Shakti Sakhi Mandal to avoid duplication.
- **Procure a printing machine** to finish the existing order of bags from Adani.
- **Print banner, business cards, receipt books, badges** with the group logo.
- Focus on attaining highest level of craftsmanship on **5-6 critical designs**, only.
- **Avoid further line extensions** for the next 2 years at least.
- Introduce a **unique design element** in each of the Sakhi Mandal bags to create a brand identity.
- **Build relationships with 1-2 key suppliers** to ensure smooth functioning of supply chain and avoid getting material from new suppliers each time.
- **Create a Facebook page** for the Shiv Shakti Sakhi Mandal group and upload all photos of products with relevant information.

Sustainability of the Project:

- **List down companies** in and around Dahej based on their net profit, as higher profit indicates higher CSR spending and better chances of getting bulk orders.
- Gather **information of the selling price of different bags** purchased by companies in & around Dahej.
- **Contact CSR Heads** of the companies with the highest net profits and procure annual contracts with them.
- Once 1-2 large contracts have been procured, then **approach the other companies on the list** to explain the cost.

- Advantage they will gain by procuring cheaper but good quality bags from the Sakhi Mandal. Show examples of the big clients Sakhi Mandal already has.
- **Print the Brand Book** for the group and present it to CSR Heads and other important personnel with every presentation.
- Undertake **active marketing** of the Sakhi Mandal **within the Jageshwar village** to convince fellow residents to purchase bags from them rather than spending double the amount outside.
- If the group wishes to expand, the **experts in the group should be given certain designations** and the responsibility to train the new members. These designations will serve as motivators for the others to excel in the craft as well.

Feasibility of the Project:

Currently, the SHG has already booked in house order from Adani Foundation as below:

Sr. No.	Bag Type	Size	Cost to Group (Rs./unit)	Sales Price (Rs./unit)	Quantity (Nos.)	Cumulative Profit (Rs.)
1	School Bag (S) (Landscape)	15" x 3" x 12"	148	210	50	3100
2	School Bag (M)	12" x 4" x 14"	195	300	950	99750
3	Laptop bag	13" x 6" x 18"	280	500	50	11000
4	Jute Bag (Portrait)	11" x 3" x 14"	78	125	98	4606
5	Jute Bag (Landscape)	15" x 3" x 12"	82	125	80	3440
6	Canvas Material Bag	15" x 4" x 15"	120	200	10	800
Net Profit (Rs.)						1,22,696

The long term vision of the project is to make these women self-reliant in the next 1-2 years, so that they can procure raw material, manufacture and sell the bags on their own as mentioned above.

Animal Husbandry Project:

Adani Foundation in partnership with BAIF organisation has started a new initiative from November, 2017 under the thrust area of Sustainable livelihood. The project mainly caters the needs of animal husbandry in 11 villages of nearby Dahej port.

NEED Assessment:

Farmers of Vagra taluka of Bharuch district follows to rear cows and buffaloes as secondary source of income but prefers traditional management practices. Due to improper breeding and traditional management practices, cows are able to produce 3 to

4 litres per day and buffaloes on an average producing 2 to 3 litres per day which is too less and they are not able to meet out expenses on concentrate and fodder. Due to improper knowledge of breeding, feeding and routine management productivity of dairy animals is less.

As a source of dry fodder local grass and dry '*jowar*' which they offer as such (without urea treatment) having low nutritive value. Due to insufficient availability of nutritious green fodder, farmers are not able to meet out the requirement of green fodder to their animals resulted underfeeding, nutritional deficiency. Most of the animals are thrive on grasses on road side and on farm bunds due to insufficient knowledge regarding practices to improve nutritional value in available feed/fodder.

Most of the farmers are small and marginal. Productivity of their land is not as per the standard protocol due to indiscriminate use of chemical fertilizer, unawareness about selection of variety, rotation of crop, insecticide and pesticide application not able to produce as per expectation.

As the villages are very close to industry, the men folk have abundant opportunities for employment as unskilled labours. Most of men are going to work in the factory. Women in the area have very limited opportunities for self-employment. The major tribe in the area is '*Darbar*' community which culturally very conservative and limited exposure of outsides. Particular to women have many restrictions to go outside and engaged in only household works. They are taking care of their cattle as mentioned above. Considering this situation, we are focusing on this women group as our target population for Animal Husbandry Programme because at the time of need-assessment study, they had already shown enthusiasm and readiness to take up this project for livestock management as well as better production of milk and allied products.

Project Objective:

The overall objective of the program is to provide gainful self-employment to the rural families through dairy husbandry and livestock development in the operational villages as the CSR Initiative.

The specific objectives are:

1. To create opportunities of self-employment at local village level;
2. To provide door to door insemination services;
3. To increase awareness among farmers for modern scientific management practices through training programme and exposure visit;
4. To increase area under fodder cultivation by developing demo plots of high yielding fodder crop varieties;
5. To provide preventive health care services by effective vaccination and deworming;
6. To organize infertility camps for timely diagnosis and treatment of infertile animals;



We are serving the community with various activities under the project as below:

Sr. No	Activities	Achievements
1	Artificial insemination	218
2	Animal husbandry training program	7
3	Exposure visit of farmers	1
4	Calf rearing model demonstration	7
5	Vaccination	1540
6	Infertility camp	4
7	Fodder demonstration	15
8	Cattle shed construction	2
9	Chaff cutter demonstration	1
10	Urea treatment demonstration	25
11	Compost pit preparation	5
12	Vermicomposting	10

We have been able to reach 340 families during November 2017 to March 2018 under this project.

Project Key Result Areas:

- 1) Good quality milking animals having higher genetic potential will be produced.
- 2) Age at first calving and long inter-calving period will be reduced by timely treatment of infertile animals.
- 3) Adoption of scientific management practices helps to increase production of milking animals and reduce economic burden for rearing infertile animals.
- 4) Reducing chances of incidence of disease outbreak after timely vaccination.
- 5) Mind set of local community will be changed.
- 6) Youth will be attracted in Dairy business as an opportunity for self-employment at native place.

- 7) This programme will improve economic condition of livestock holding families.
- 8) Additional income source particularly to women;
- 9) Developed the model of organic milk production will be used valuable ingredient for medicines.

Moringa Project:

The Moringa project started in November 2017 and it is under process of development. We are now at the stage of developing nursery at Dahej village. We will grow 50,000 Moringa plants in the Nursery and it will be distributed to the interested individuals in the 11 villages. We will collect the Moringa leaves and do processing of it. There will be marketing and selling of dry Moringa leaves. In future it will be earning source for the community staying in surrounding villages of Dahej port.

The Moringa Tree is one of the most incredible plants, this may sound sensationalist, but its Nutritional and medicinal properties has the potential to end malnutrition, starvation, as well as prevent and heal many diseases and maladies worldwide. Moringa is truly a miracle plant, and a divine gift for the nourishing and healing of man. The most incredible thing about Moringa is the amount of nutritional and medicinal chemicals and compounds found in this plant. Moringa contain vitamin A, vitamin C, Calcium, Potassium, Iron, and Protein, it contains it in high amounts that are easily digested and assimilated by the human body, also it contains some of the commonly known nutrients needed by the human body Moringa also contains, not one, not two, not three, but over 40 antioxidants. Moringa is said to contain 539 known compounds which according to traditional African and Indian medicine (Ayurveda) is said to prevent of 300 diseases and maladies.



Nutrition value of Dried (Green)



Moringa Cultivation in Polly House:

For doing the moringa Leaves cultivation, we are going to develop Moringa Nursery in polly house, once the plants will be ready then we will distribute them to women SHG groups and individual to grow them further.

We will give 50 plants to each member of the SHG Group, which they can take home and grow up to 5 ft. height and maintain the same height for easy cultivation. We will give in-

depth training to each and every member. Also we will be giving organic fertilizer that we will made in our composting units, which they can use regularly to give proper nutrition to the plant.

First harvesting comes after 90 days and then after every 45 days, they can harvest this Moringa leaves and dry them by the method we will teach them, once they are ready we will again purchase this leaves from them. This leaves can be further processed in 300 to 400 mash powder or can be packed as it is.

Market Research:

External market links available to sustain the project and SHG Group strengthening. The list of potential buyers from different agro-processing SMSE is as under:

Potential List of Buyers

Sr. No.	Name And Address and Contact	Product
1	Earth Expo Company Mr. Pravin Valanki 107, Nomoney Complex, Near Meghdood Cinema, Mahuva- Gujarat- 364290. Contact No: 9898419831 Email: info@earthexpocompany.com	-Moringa Powder -Moringa Tea Cut leaves - Seeds - White Seeds
2	Aum Agree Freeze Foods Mr. Prashant Shah 3/10 BIDC Estate, Gorwa- Vadodara – 390016 Contact No: 9426416804 Email: prashant@aumfresh.com	Moringa Leave
3	Adinath Trading Company Mr. Vineet Jain Mandi Prangan, Neemuch – 458441 Madhya Pradesh – India. Contact No: 09425106479/ 09977807979 Email: adinathherb@yahoo.co.in	Moringa Leaves and Seeds
4	Raj & Company Mr. Vijay Kumar Behind Katju Market, Near Parsi Mandir Neemuch – 458441 M.P. India. Contact No: 09826021601 Email: raispice@sancharnet.in	Moringa Leaves and seeds
5	Mansi – Bio Vermi Tech Mr. Manibhai Patel Satya Narayan Temple, Lunawada, Dist. Mahisagar. Gujarat. Contact No: 9427813542 Email: mansibiovermitech@gmail.com	Moringa Leaves
6	Genius Nature Herbs Pvt. Ltd. Dr. Eshwar Iyappan (CEO) 268/1B, Siruvani Main Road, Madhampatti Post, Coimbatore – 641010. Contact No: 09894246446 Email: ceo@geniusherbs.com Mr. Sanjay Kumar Singh	Moringa Leaves

	Asst. Production Manager. Contact No: 09677525663 Email: geniusapm@gmail.com	
7	Srinivas Reddy and Company. Mr. Soma Reddy Shop.No. 7 – Gudimalkapur, Hyderabad – 500028 Contact No: 09426222953	Moringa Sticks
Sr. No.	Name And Address and Contact	Product
8	PSK Mr. Satish Kumar Dr. B.R. Ambedkar Vegetable Market Yard, Bowenpally, Secunderabad – 500009 Contact No: 09963474809/ 09391135937	Moringa Sticks
9	M. Ravichandran - ARC Mr. Ravichandran K- AU/14, Periyar Vegetable Market, Koyambedu, Chennai – 600092	Moringa Sticks
10	Padra market Mr. Manish and Mr. Vijay Bhai Padra Market – Vadodara Contact No: 9898404876	Moringa Sticks
11	Gunvant and Company Mr. Gunvant Patel Baroda Market Contact No: 9825036708	Moringa Sticks
12	LKS and PRP Mr. Lalan Kumar At- Lalgipura, Post – Sokhada, Dist – Baroda- Gujarat Pin. Code – 391745 Bombay Kolkata Trak Termingal, New Sabji Mandi Shop No: D 20, Dhulagarh (Hawrah). West Bengal.	Moringa Sticks
13	M/S. Becharadas Shamladas Mr. Bhavik Patel Shop No:3, Sardar Patel Market, Jamalpur, Ahmedabad – 380022 Contact No: 9825955733	Moringa Sticks
14	A.M. Vegetable and Company Mr. Arif Menon Nr. Tellya Mill, Kalupur keri pitha, Ahmedabad – 380002 Contact No: 9824153198	Moringa Sticks
15	Manojkumar Jivanlal Sons Mr. Prajesh Patel 8, Sardar Patel Vegetable Market – Ahmedabad. Contact No: 9825050934	Moringa Sticks

	Email: info@micapsicum.com	
16	Lalbai And Sons Mr. Lalabhai 4, Sardar Patel Vegetable Market – Ahmedabad Contact No: 8488935114	Moringa Sticks
17	Patel & Brothers Mr. Patel Bhai and Mr. Samadbhai Shop No – 16, Kalupur Market, New keri Pitha – Ahmedabad – 380002, Contact No: 9998329457	Moringa Sticks
Sr. No.	Name And Address and Contact	Product
18	Shree Laxminarayan Oil Mill Mr. Priyank Patel Saidivasan Road, Kawant – 391170 Chodaudepur – Gujarat Contact No: 9426599323/9825297497	-Moringa Seeds and -Morina Leaves
19	Dominate Industries Palak Patel 301/26, V.K. Estate, Nr. Gota Railway Station Crossing, Ahmedabad – 382481, Gujarat – India. Contact No: 9924922049 Email: palak.dominante@gmail.com	Moringa Leaves
20	MUMBAI: HKD Bhauji Shop No. D – 664, V-1051, APMC, Vegetable Market, Sector -19, Turbhe, Vashi, Navi Mumbai – 400705 Contact: Harkesh: 09920107296 Bhauji: 09820164297 Office: 022-27834294	Moringa Drumsticks
21	Vijay Tiwar Vijayji Vashi Market Contact: 09833182109	Drumsticks
22	BPM Bipin Bhai Shop No. C- 559 - Vashi Vegetable Market Contact: 09892205970	Drumsticks
23	Ashvina Trading Co. Riday Bhuptani Shop- 9 Hastagiri Apt. Ashok Chakravarti Road, Kandivali (E), Mumbai – 400101. Contact: 09819449477 Kirtibhai Bhuptani: 09820046578	Drumsticks
24	SNS : Sadananda Saha and Son	Drumsticks (Thin Size only)

	OMIO and Komal Shah 144, Bipin Bihari Ganguly Street, Calcutta – 700012. Contact: 09804549115 Office: 033 2275225	
25	DS: Dasharath Shaw Anupji 144, Bipin Behari Ganguly Street (Nafar Babu's Bazar) Kolkata- 700012 Contact: 09830944942	Drumsticks

Rural Infrastructure Development (RID)

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

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

APDPPL took significant steps to build and/or improve the rural infrastructure, thereby alleviating critical issues faced by the local communities, for the purpose of rural development. The following works have been completed from **Oct – 2017 to Mar - 2018**.

Sr. No.	Name of Work
1	Bitumen Road at crematorium at Lakhigam village
2	Construction of 8 new houses of Aavas Yojana at Lakhigam village
3	Repairing of 6 houses of Sardar Aavas Yojana at Navinagari (Lakhigam) village
4	Bus Stand at Dahej village
5	Construction of Toilet Block at Dahej Bus Stand
6	R. O water ATM plant at Dahej village
7	Community Hall at Luwara village
8	Washing Platform with underground water tank at Luwara village
9	Construction of store room at crematorium Jageshwar village
10	Renovation temple at Suva Village
11	R.O. Water Plants at 2 Primary Schools of Boys & Girls at Dahej Village

1. Construction of Bitumen Road at crematorium at Lakhigam:

For Fisherman community '*pagadiya*', it was difficult every day to reach at sea for fishing business because of bad condition of the road. People of Lakhigam were also facing

problems of easy going to crematorium placed on the same road. Construction of new road was felt need of the community which was well addressed by bitumen road.



2. Construction of 8 new houses of Aavas Yojana at Lakhigam village:

AF-Dahej took the initiative of building housing facilities to economically backward communities that would withstand heavy rains and other similar harsh climatic conditions thus enabling them to focus on their routine livelihood. In last six months, we have constructed 8 new Houses of Aavas Yojana at Lakhigam Village.



3. Repairing of 6 houses of Sardar Aavas Yojana at Navinagari (Lakhigam) village:

AF-Dahej took the initiative of repairing housing facilities to fisherman community that would withstand heavy rains and other similar harsh climatic conditions thus enabling them to focus on their routine livelihood. In last six months, we have repaired 6 new Houses of Sardar Aavas Yojana at Lakhigam village.



4. Construction of Bus Stand at Dahej Village:

We took this initiative to construct bus stand at the Dahej village, as Dahej being one of the prime location for most of the travelers coming from the surrounding villages, this bus stand provided to be helpful for all commuting from Dahej to different locations. It will provide proper sitting and waiting arrangements for the travelers during their commute.



5. Construction of Toilet Block at Dahej Bus Stand:

With Bus Stand, sanitation is basic amenity for comfort of the travelers. Thus, we have also constructed toilet block at Dahej Bus Stand to relax the students, workers and other daily travelers from this bus stand.



6. R.O. Water ATM Plant in Dahej Village:

At Dahej village we have provided R.O water ATM system along with attached room. 13495 nos. of Dahej Village population can be direct beneficiaries of safe & potable drinking water, which is very essential for human lives.



7. Construction of Community Hall at Luwara Village:

There was a request from the Gram Panchayat of Luwara to construct the community hall in their village. The purpose of the community hall to provide place to the community for various social gatherings, festivals celebrations and organise village level meetings and trainings. 1663 population of the villages will get benefit of this facility.



8. Washing Platform with U/G water Tank at Luwara Village:

Dhobighat with facility of underground water tank was much essential for the women to wash the clothes. There was no hygienic and clean facility for women to clean the clothes of their family. With the purpose to provide hygienic condition for washing, we constructed Dhobighat with providing services of enough water through **underground water tank**.



9. Construction of Store Room Crematorium Jagehwar Village:

The community of Jageshwar village approached to Adani Foundation with request to construct a small store room for firewood nearby their crematorium. They were facing difficulties to carry firewood every time whenever there is death in the village. The current store room construction will help the villagers to store their firewood and also it will be safe during monsoon season.

10. Renovation Temple at Suva Village:

There is a historical temple in the village of Suva. All people are celebrating their festivals and other social functions nearby temple. There was existing structure for gathering in very bad condition. Therefore it was required to do some renovation work in the existing

structure. We did renovation of the structure which will help the whole community of Suva village.



11. R.O. Water Plants at 2 Primary Schools of Boys & Girls, Dahej Village:

Safe and clean drinking water facility plays key role in students' health and as a result in increasing attendance in the school. Keeping this objective in mind, we helped Girls School of Dahej village to build R.O in the school. R.O. plant of capacity of 100 L /H is installed the school. 386 girl students will get benefit of safe and clean drinking water.

12. Utilization of fund – During 2017-18:

Sr. No.	Budget Areas	Budget Allocation for F.Y 2017-18	Budget Utilized up to Oct 2017 to Mar 2018
1.	Education	17.5	17.11
2.	Community Health	44	43.59
3.	Sustainable Livelihood Development	28.6	29.69
4.	Rural infrastructure development	175	174.71
Total		265.1	265.1