

Fw: Half yearly Compliance report of Environment and CRZ Clearance for Phase III of Adani Petronet (Dahej) Port Private Limited, Dahej (Oct'19 to Mar'20)

Devendra Banthia <Devendra.Banthia@adani.com>

Thu 5/21/2020 2:40 PM

To: Dilip Kumar Moolchandani <Dilip.Moolchandani@adani.com>

1 attachments (6 MB)

EC & CRZ Compliance Report_Phase_III_APDPPL_Dahej_Oct'19 to March'20.pdf;

26/5/20
कार्यालय/OFFICE
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forests & Climate Change
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)/Regional Office (Western Zone)
भोपाल (म.प्र.)/BHOAL-462016

From: Om Prakash Yadav <OmPrakash.Yadav@adani.com>

Sent: Thursday, May 21, 2020 1:08 PM

To: Devendra Banthia <Devendra.Banthia@adani.com>

Cc: Kaushal Singh <Kaushal.Singh@adani.com>; Harsh Yadav <Harsh.Yadav@adani.com>; Shalin Shah <Shalinm.Shah@adani.com>

Subject: FW: Half yearly Compliance report of Environment and CRZ Clearance for Phase III of Adani Petronet (Dahej) Port Private Limited, Dahej (Oct'19 to Mar'20)

Dear Sir,

As discussed, please find the enclosed half yearly Environment & CRZ Clearance Compliance Reports (Phase- III) for the period: October, 2019 to March, 2020 of APDPPL, Dahej.

You are Request to please submit to APCCF, Western Regional Office, MOEF&CC, Bhopal; respectively as earliest as possible.

Thanks with regards

Om Prakash Yadav

Executive – HSE | Adani Petronet (Dahej) Port Pvt Ltd

Mob +91 6357160022 | Off Ext. - 51085 | omprakash.yadav@adani.com | www.adaniports.com

At & PO Lakhigam, Taluka Vagra, Via Dahej, Bharuch 392 130, Gujarat, India.

From: Om Prakash Yadav

Sent: Wednesday, May 20, 2020 10:37 AM

To: rowz.bpl-mef@nic.in

Cc: bharuchgpcb@yahoo.com; brnaidu.cpcb@nic.in; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; mefcc.ia3@gmail.com; monitoring-ec@nic.in; compliance.seiaa.gujarat@gmail.com; westzonecpcb@yahoo.com; Shalin Shah <Shalinm.Shah@adani.com>; Harsh Yadav <Harsh.Yadav@adani.com>; Kaushal Singh <Kaushal.Singh@adani.com>; Manoj Katar <Manoj.Katar@adani.com>

Subject: Half yearly Compliance report of Environment and CRZ Clearance for Phase III of Adani Petronet (Dahej) Port Private Limited, Dahej (Oct'19 to Mar'20)

Om Prakash Yadav

From: Om Prakash Yadav
Sent: Wednesday, May 20, 2020 10:18 AM
To: rowz.bpl-mef@nic.in
Cc: bharuchgpcb@yahoo.com; brnaidu.cpcb@nic.in; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; mefcc.ia3@gmail.com; monitoring-ec@nic.in; compliance.seiaa.gujarat@gmail.com; Shalin Shah; Harsh Yadav; Manoj Katar; Kaushal Singh
Subject: Half yearly Compliance report of Environment and CRZ Clearance for Phase I & II of Adani Petronet (Dahej) Port Private Limited, Dahej (Oct'19 to Mar'20)
Attachments: EC & CRZ Clearance Compliance_Phase_I_II_APDPPL_Dahej_OCT'19 to March'20.pdf



Ports and
Logistics

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

Date: 15.05.2020

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,

Subject: - Six Monthly Compliance Report of Environment and CRZ Clearance for the period from **October 2019 to March- 2020**

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 of conditions stipulated in the above referred letters.

Thanking you,

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


(Authorized Signatory)

Copy to:

1. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
2. The Director, Forest and Environment Department, Block-14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat-382 010.
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010

Thanks with regards

Om Prakash Yadav

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At & PO Lakhigam, Taluka Vagra, Via Dahej, Bharuch 392 130, Gujarat, India.



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

Adani Petronet (Dahej) Port Pvt Ltd
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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 Annexure – 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 Annexure – 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 Appendix – 1.
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	Complied. Sewage Treatment Plant of capacity 30KL / 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 450 ha. Details are given below. <ol style="list-style-type: none"> 100 ha near village Dandi, District Surat– 2011 50 ha near village Jakhau, District Kutch – 2011 50 ha near Padri bit, District Bhavnagar – 2011 200 ha near Malpur, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 Reports of 400 Ha 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 and Report of 50 ha Mangrove

**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
		afforestation (2017-18) was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.
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 have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done 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	Complied. Project is commissioned after obtaining permission

**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
	project are provided by the PWD/Electricity Department.	from PWD and Electricity Department. 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.	Being Complied Considering the expansion plan, Green belt is being developed on periphery of the project boundary. So far 19.3894 ha of Green belt is developed which mainly includes <i>casuarina</i> , <i>wasigtonia palm</i> , <i>cassia samiea</i> , <i>peltorum</i> , <i>delonix regia</i> , <i>ficus sps</i> . Details of green belt area are enclosed as Annexure – 5 .
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 of the port there will be no impact on the livelihood of the	Complied. There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available.

**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
	fisherman. The fisherman should be provided free access to carry out the fishing activity.	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 27.02.2020. Last revision in the DMP was done on 01.12.2019.
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 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.	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. 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. Results confirm with applicable standards.
P2(iv),	The proponent shall obtain the requisite	Complied.

**Half yearly Compliance report for Environment and CRZ Clearance for the development of
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Sr. No.	Specific Conditions	Compliance
P1(iv)	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.	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 vide No. AWH 73359 dated: 28.10.2015 which is valid up to 16.7.2020.
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.	Complied. <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'2019 – March'2020 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.	Complied. <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'2019 – March'2020 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.	Complied. <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 suggestion/representation has been received while processing the proposal.	Complied. Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no. 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	Complied. Separate budget is allocated for Environmental Management. Key components of environment

**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
	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.	budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The all location of revenue budget for Environment Cell for the FY 2019-20 was approx. Rs. 407.26 lacs. Details of the environmental budget and expenditure for the FY 2019-20 is enclosed as Annexure –6.
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 submitting six monthly compliance reports which comprises Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc. • Whenever any authorities from MoEF&CC, GPCB and GMB etc. visit APDPPL, full support is extended and APDPPL provides all additional information seek by them during the inspection. • Recent visit of Gujarat Pollution Control Board was on 27.12.2019.
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 stipulated are not complied with to the satisfaction of the Ministry.	Noted & agreed.
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

**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(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.

Appendix - 1

**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 carried out are 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 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 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.	Complied. <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.

**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(6), P1(11)	No effluent or sewage shall be discharged into the sea / creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises to the extent possible.	Complied. <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 2019 – March 2020 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.	Being Complied. 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 Chalamandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4 .
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.	Complied. <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.	Complied. <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.	Noted and agreed to comply. APDPPL is committed for the environment protection.
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 ensured that the environmental conditions are not	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

**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
	deteriorated by the construction labours.	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 27.02.2020. Last revision in the DMP was done on 01.12.2019.
P2(14),P 1(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 450 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, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 <p>Reports of 400 Ha 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 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.</p>
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 in February 2011 in compliance to the approvals.

**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(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.	<p>Complied.</p> <p>Mangrove afforestation has been carried out in an area of 450 ha. Details are given below.</p> <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, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 <p>Reports of 400 Ha 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 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.</p>
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.	<p>Complied.</p> <ul style="list-style-type: none"> All the activities on forest land have been started only after obtaining forest land clearance. Clarence 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.	<p>Complied.</p> <p>APDPPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.</p>
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.	<p>Complied.</p> <p>Alternative access to the sea is available adjoining to the project site.</p>
P1(9)	The project proponents shall ensure that the construction period shall be reduced by proper	<p>Complied.</p> <p>Construction of the project was completed in</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
	planning and executing the construction program in time-bound manner to avoid any time over-run.	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 19.3894 ha including periphery of the project boundary. Details of the green development is enclosed is Annexure – 5.
P2(19),P1(23)	The APPL shall have to be contributing financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same 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. <ul style="list-style-type: none"> • 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 2019 – 2020 was approx. Rs. 407.26lacs. Details of the environmental budget and expenditure for the compliance period October 2019 to March 2020 is enclosed as Annexure – 6. • Socio Economic activities are taken up in the areas of 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	Complied. APDPPL has a well structured Environment

**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
	environmental monitoring and management during construction and operational phases of the project.	Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 7 .
P2(22), P1(26)	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the APPL to this Department as well as to the MoEF, GOI.	Complied. Seawater and sediment is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Monitoring Report for the period October'2019 to March 2020 is enclosed in Annexure 3C & 3D . No significant changes observed.
P2(23),P 1(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.	Being Complied <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports. Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&II) dated 23.11.2019 in soft copy via mail dated 23.11.2019
P2(24), P1(29)	Any other condition that may be stipulated by this Department from time to time for environmental protection/management purpose shall also have to be complied by the APPL.	Noted and agreed to comply with any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection.
P1(27)	The APPL shall have to contribute financially to support the National Green Corps scheme being implemented in Gujarat by GEER Foundation, Gandhinagar, in consultation with Forests and Environment Department.	Complied. A request in this regard for asking for the terms of Financial Contribution submitted to the GEER Foundation vide letter dated 17th April, 2009.

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

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

S. No.	Condition	Compliance
1	The legal status of the forest land shall remain unchanged	Noted.
2(a)	Compensatory afforestation shall be taken up by the forest department over 38.00 Ha non forest land (Survey No.2, Village- Pingot, Ta. Valiya, Dist. Bharuch at the cost of the project authority.	Complied. <ul style="list-style-type: none"> • 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 Forests.	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.	Complied 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 Firefighting system

Fire Fighting Systems	Details
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	481 Nos.
Smoke Detector	144 Nos.
Fire Bucket	68 Nos.
Emergency Siren	5 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

Environment Monitoring Report for the period from October-19 to March-20
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	01-10-2019	69.51	31.58	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	46.29	23.47	30.50	18.61
2	04-10-2019	83.63	46.21	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	39.49	17.82	35.66	26.21
3	08-10-2019	92.42	53.50	0.68	BDL*	BDL*	10.32	0.93	BDL*	25.36	21.52	38.30	20.44
4	11-10-2019	88.27	49.22	BDL*	BDL*	2.78	BDL*	0.86	BDL*	34.29	19.35	41.65	29.48
5	15-10-2019	93.40	43.29	0.82	BDL*	2.96	10.85	0.78	BDL*	48.20	25.42	37.65	16.2
6	18-10-2019	74.59	35.39	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	38.37	22.31	39.30	24.43
7	22-10-2019	84.33	41.31	BDL*	BDL*	2.65	BDL*	0.77	BDL*	29.24	18.54	34.25	21.37
8	25-10-2019	90.25	52.69	0.76	BDL*	3.11	10.54	0.71	BDL*	35.43	24.27	44.54	15.57
9	29-10-2019	79.32	39.41	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	32.39	16.57	29.47	19.21
10	01-11-2019	86.39	40.25	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	43.60	18.51	39.44	13.79
11	05-11-2019	93.67	52.86	0.72	BDL*	2.46	10.39	0.81	BDL*	20.65	24.52	41.21	22.65
12	08-11-2019	88.66	46.37	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	46.32	19.35	33.45	28.57
13	12-11-2019	79.65	42.72	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	38.73	23.44	44.56	26.21
14	15-11-2019	92.69	53.67	0.59	BDL*	2.72	10.61	0.61	BDL*	16.58	20.65	38.28	17.63
15	19-11-2019	87.57	49.33	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	32.31	16.45	32.89	25.35
16	22-11-2019	95.63	55.37	0.84	BDL*	2.85	10.88	0.54	BDL*	28.60	25.66	35.95	29.28
17	26-11-2019	89.38	47.54	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	25.37	21.53	40.27	27.56
18	29-11-2019	91.52	43.50	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	40.34	26.32	37.54	24.26
19	03-12-2019	87.63	34.33	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	37.36	19.36	44.59	25.35
20	06-12-2019	92.49	54.26	0.65	BDL*	2.82	10.65	0.68	BDL*	41.50	23.44	36.34	27.57
21	10-12-2019	84.56	45.34	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	27.64	26.27	40.24	18.65
22	13-12-2019	90.23	50.55	0.76	BDL*	2.56	10.51	0.30	BDL*	44.51	20.58	43.56	15.32
23	17-12-2019	88.36	47.38	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	21.38	28.25	32.40	20.45
24	20-12-2019	95.68	53.68	0.84	BDL*	2.77	10.89	0.76	BDL*	36.56	10.57	35.34	23.47


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25	24-12-2019	79.55	33.41	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	17.54	24.54	39.55	26.39
26	27-12-2019	85.39	42.46	BDL*	BDL*	BDL*	BDL*	0.90	BDL*	20.75	17.11	30.57	24.56
27	31-12-2019	93.54	52.34	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	46.23	21.67	38.23	28.47
28	03-01-2020	85.47	41.24	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	48.25	11.57	25.30	23.52
29	07-01-2020	96.84	48.63	0.56	BDL*	2.56	10.58	0.70	BDL*	31.23	20.35	34.52	29.23
30	10-01-2020	82.44	51.61	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	43.40	23.46	42.41	27.68
31	14-01-2020	93.82	55.25	0.84	BDL*	2.62	10.37	0.22	BDL*	29.44	21.33	35.61	24.27
32	17-01-2020	74.51	33.36	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	33.42	18.70	39.43	28.48
33	21-01-2020	68.47	27.68	BDL*	BDL*	BDL*	BDL*	0.84	BDL*	41.28	13.56	44.26	26.52
34	24-01-2020	86.67	53.41	BDL*	BDL*	BDL*	BDL*	0.95	BDL*	46.58	26.54	37.61	16.92
35	28-01-2020	94.25	49.56	0.62	BDL*	2.34	10.50	0.30	BDL*	37.27	14.32	41.35	25.46
36	31-01-2020	73.67	36.56	BDL*	BDL*	BDL*	BDL*	0.93	BDL*	42.33	17.49	30.48	17.4
37	04-02-2020	90.46	52.40	0.76	BDL*	2.62	10.45	0.78	BDL*	49.47	18.58	37.27	17.54
38	07-02-2020	86.29	42.45	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	15.63	26.49	42.63	14.22
39	11-02-2020	78.59	39.19	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	42.67	20.38	39.21	25.4
40	14-02-2020	83.84	48.22	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	48.54	15.26	40.21	28.26
41	18-02-2020	92.45	54.28	0.82	BDL*	2.82	10.51	0.82	BDL*	38.44	24.30	38.51	22.89
42	21-02-2020	71.27	38.40	BDL*	BDL*	BDL*	BDL*	1.03	BDL*	29.47	19.37	34.81	24.38
43	25-02-2020	89.21	46.38	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	35.61	21.52	36.26	27.65
44	28-02-2020	93.44	53.57	0.64	BDL*	2.46	10.88	0.87	BDL*	32.43	25.69	32.56	21.49
45	03-03-2020	87.63	49.64	0.56	BDL*	2.46	BDL*	0.62	BDL*	32.47	19.55	25.72	23.56
46	06-03-2020	94.30	55.70	0.76	BDL*	2.34	BDL*	0.77	BDL*	45.43	24.26	38.44	29.61
47	10-03-2020	79.69	38.70	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	29.39	13.49	35.33	27.31
48	13-03-2020	91.52	52.63	0.65	BDL*	2.75	BDL*	0.94	BDL*	49.62	17.84	30.48	18.68
49	17-03-2020	74.27	40.26	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	42.76	20.37	40.34	13.74
50	20-03-2020	95.33	48.38	0.82	BDL*	2.64	BDL*	0.76	BDL*	39.64	22.55	37.33	25.3
51	24-03-2020	80.20	43.67	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	33.47	18.62	28.48	22.53
52	27-03-2020	76.29	37.36	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	46.32	12.33	33.64	26.59

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 5 ng/m³



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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	01-10-2019	58.32	25.63	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	32.62	17.37	27.65	13.39
2	04-10-2019	71.54	37.51	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	14.57	8.65	30.33	21.51
3	08-10-2019	56.39	23.62	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	38.22	11.45	19.46	16.83
4	11-10-2019	79.56	45.55	BDL*	BDL*	2.46	BDL*	0.36	BDL*	29.45	15.44	24.22	25.38
5	15-10-2019	84.57	41.57	0.56	BDL*	BDL*	10.28	0.46	BDL*	45.61	19.54	29.27	23.7
6	18-10-2019	63.40	33.43	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	49.57	16.25	33.64	12.49
7	22-10-2019	53.37	28.32	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	18.92	12.64	26.40	14.57
8	25-10-2019	70.57	30.38	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	23.56	21.68	35.43	20.58
9	29-10-2019	64.29	34.54	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	42.55	10.13	17.65	22.56
10	01-11-2019	56.30	23.58	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	15.43	12.60	24.35	15.61
11	05-11-2019	76.35	40.62	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	43.59	16.23	35.64	17.51
12	08-11-2019	68.60	35.50	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	19.50	22.66	41.57	10.7
13	12-11-2019	70.70	38.48	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	11.54	20.35	38.69	24.21
14	15-11-2019	60.31	31.71	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	24.84	14.68	27.55	22.35
15	19-11-2019	73.65	42.29	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	13.53	19.41	36.21	14.67
16	22-11-2019	84.38	36.46	0.65	BDL*	BDL*	BDL*	0.24	BDL*	25.44	6.85	16.51	11.56
17	26-11-2019	61.57	28.50	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	17.62	15.25	33.50	19.27
18	29-11-2019	72.30	25.90	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	32.45	11.34	30.54	13.65
19	03-12-2019	57.59	24.65	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	28.68	6.53	15.27	20.7
20	06-12-2019	64.51	32.66	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	23.40	13.55	23.30	18.22
21	10-12-2019	72.65	39.46	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	17.50	20.37	26.34	14.54
22	13-12-2019	69.20	35.33	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	26.34	16.21	31.65	12.29
23	17-12-2019	83.63	44.59	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	36.25	12.55	19.22	16.43
24	20-12-2019	79.54	41.30	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	33.27	17.21	22.26	19.54
25	24-12-2019	52.76	22.40	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	38.28	22.50	34.56	23.62
26	27-12-2019	73.68	36.58	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	14.36	10.70	27.28	21.74
27	31-12-2019	80.27	43.30	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	20.81	15.81	32.52	26.41

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28	03-01-2020	65.87	26.44	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	41.55	20.33	43.51	21.64
29	07-01-2020	77.60	41.51	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	22.45	24.39	31.50	23.48
30	10-01-2020	67.26	34.22	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	27.59	18.46	21.56	12.68
31	14-01-2020	73.44	37.25	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	23.44	23.32	42.63	16.22
32	17-01-2020	69.34	25.48	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	37.52	11.61	35.32	11.48
33	21-01-2020	76.44	20.19	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	48.32	9.53	38.23	18.35
34	24-01-2020	81.21	44.18	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	28.33	21.54	19.33	13.21
35	28-01-2020	78.62	29.41	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	45.35	19.32	37.41	15.57
36	31-01-2020	62.66	33.47	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	33.50	6.17	22.31	20.8
37	04-02-2020	70.20	36.52	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	30.27	15.84	25.67	15.68
38	07-02-2020	62.62	27.54	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	38.51	9.63	20.46	22.33
39	11-02-2020	58.25	33.47	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	21.53	12.87	23.48	20.4
40	14-02-2020	67.51	34.52	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	25.88	21.30	33.49	14.53
41	18-02-2020	82.69	45.63	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	27.51	14.58	27.66	21.12
42	21-02-2020	78.64	23.48	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	37.55	11.59	24.50	12.22
43	25-02-2020	83.76	42.67	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	42.35	13.64	32.65	25.35
44	28-02-2020	76.57	35.73	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	18.68	20.59	29.43	23.31
45	03-03-2020	82.39	45.45	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	16.67	9.33	16.66	21.57
46	06-03-2020	74.32	42.43	BDL*	BDL*	BDL*	BDL*	0.96	BDL*	31.32	15.61	32.39	27.57
47	10-03-2020	67.17	32.74	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	19.64	17.71	26.56	18.49
48	13-03-2020	55.36	35.72	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	15.49	13.50	22.49	16.68
49	17-03-2020	84.33	46.46	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	21.63	6.78	15.73	17.67
50	20-03-2020	62.68	33.49	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	29.49	12.27	25.38	20.33
51	24-03-2020	76.42	39.41	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	23.62	21.29	34.59	24.37
52	27-03-2020	66.55	31.64	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	35.47	18.48	37.63	19.28

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3

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

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM 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	01-10-2019	53.60	22.30	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	24.29	12.53	21.59	23.44
2	04-10-2019	65.24	27.58	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	29.76	10.61	24.56	15.22
3	08-10-2019	50.66	19.39	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	35.67	6.49	26.46	12.38
4	11-10-2019	44.20	24.31	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	18.20	17.20	37.53	16.47
5	15-10-2019	64.28	31.59	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	41.20	8.42	33.44	18.34
6	18-10-2019	58.30	17.50	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	34.39	19.46	20.56	11.57
7	22-10-2019	66.58	38.52	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	27.29	9.58	35.21	25.19
8	25-10-2019	78.63	42.54	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	30.29	15.81	25.21	13.43
9	29-10-2019	59.28	28.24	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	25.26	7.17	32.57	20.71
10	01-11-2019	61.20	29.59	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	25.65	8.64	22.31	21.56
11	05-11-2019	82.37	48.62	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	17.56	11.56	32.64	10.29
12	08-11-2019	58.67	28.63	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	33.63	13.64	18.31	13.58
13	12-11-2019	63.66	30.32	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	24.26	18.62	21.55	17.22
14	15-11-2019	86.32	45.39	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	30.91	12.35	25.32	19.5
15	19-11-2019	52.61	25.53	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	18.66	7.61	15.59	22.78
16	22-11-2019	79.23	27.54	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	21.25	10.53	19.27	15.7
17	26-11-2019	68.69	34.24	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	22.36	19.64	29.28	23.6
18	29-11-2019	55.34	22.09	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	14.58	9.53	26.84	11.53
19	03-12-2019	67.34	37.54	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	21.72	14.52	38.65	14.14
20	06-12-2019	52.66	29.32	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	31.33	9.52	20.31	20.21
21	10-12-2019	65.41	34.30	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	10.34	16.42	23.59	10.58
22	13-12-2019	78.60	42.36	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	23.53	10.26	18.34	19.46
23	17-12-2019	68.29	39.54	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	40.24	7.62	15.39	12.41
24	20-12-2019	84.50	46.51	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	20.25	13.57	32.51	15.28
25	24-12-2019	64.29	30.77	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	15.65	8.78	25.62	21.55
26	27-12-2019	56.54	26.21	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	29.20	6.53	16.55	16.84
27	31-12-2019	61.52	33.68	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	24.62	12.88	19.85	13.35



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28	03-01-2020	58.68	31.55	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	44.57	6.53	32.33	18.63
29	07-01-2020	63.46	35.38	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	35.65	14.57	25.64	16.37
30	10-01-2020	55.37	38.20	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	38.31	10.32	30.20	21.24
31	14-01-2020	68.47	25.36	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	27.64	19.52	31.22	23.42
32	17-01-2020	56.32	23.26	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	43.67	9.56	16.51	14.31
33	21-01-2020	49.34	15.33	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	37.85	12.34	23.67	12.31
34	24-01-2020	65.38	29.63	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	32.32	20.24	28.68	22.46
35	28-01-2020	72.48	36.35	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	12.44	13.26	20.32	20.53
36	31-01-2020	67.59	24.24	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	26.50	8.43	18.62	15.4
37	04-02-2020	51.50	26.75	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	16.58	8.27	15.57	19.22
38	07-02-2020	69.26	30.45	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	12.68	16.24	34.50	12.42
39	11-02-2020	53.49	22.42	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	30.42	14.34	28.49	14.12
40	14-02-2020	74.27	43.56	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	33.44	6.79	17.51	22.67
41	18-02-2020	55.62	28.25	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	24.38	10.60	20.28	15.46
42	21-02-2020	66.30	31.20	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	18.32	15.28	27.21	20.66
43	25-02-2020	58.67	24.26	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	20.45	11.41	24.35	23.54
44	28-02-2020	68.29	27.63	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	28.66	9.64	19.24	18.43
45	03-03-2020	71.64	35.51	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	19.67	14.31	19.37	10.78
46	06-03-2020	63.37	39.66	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	25.68	12.58	24.59	23.32
47	10-03-2020	84.58	44.32	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	15.71	9.62	21.53	15.33
48	13-03-2020	76.37	48.21	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	21.33	11.20	31.33	11.59
49	17-03-2020	68.32	31.30	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	26.37	16.41	26.52	24.37
50	20-03-2020	89.29	42.52	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	14.31	7.76	32.53	18.17
51	24-03-2020	54.24	19.68	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	29.54	10.32	23.63	16.74
52	27-03-2020	61.39	28.25	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	20.68	15.49	28.30	12.23

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3

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

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM 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	01-10-2019	49.33	19.57	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	35.34	15.66	25.41	21.64
2	04-10-2019	59.34	30.21	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	22.64	13.16	21.24	12.58
3	08-10-2019	63.49	25.38	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	28.20	8.54	15.49	24.81
4	11-10-2019	70.29	21.37	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	39.93	6.47	26.54	18.54
5	15-10-2019	55.62	23.22	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	31.53	12.33	18.58	20.66
6	18-10-2019	50.29	20.22	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	27.58	9.66	30.27	16.29
7	22-10-2019	77.30	34.29	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	21.66	7.25	20.30	13.53
8	25-10-2019	60.57	26.40	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	18.50	10.38	28.37	10.32
9	29-10-2019	52.39	22.53	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	37.27	14.68	23.57	17.79
10	01-11-2019	66.50	32.64	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	33.83	6.48	18.60	11.21
11	05-11-2019	56.60	36.56	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	11.24	8.33	26.39	14.24
12	08-11-2019	64.51	31.34	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	24.39	10.27	23.47	18.28
13	12-11-2019	58.39	26.33	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	31.59	12.01	35.75	12.79
14	15-11-2019	65.36	30.49	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	21.37	9.34	19.53	24.58
15	19-11-2019	78.31	37.61	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	37.52	14.22	29.45	19.47
16	22-11-2019	62.49	24.34	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	10.62	16.64	25.64	17.89
17	26-11-2019	73.46	40.36	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	13.69	13.80	22.52	13.61
18	29-11-2019	60.24	27.37	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	26.34	7.56	17.54	10.62
19	03-12-2019	73.52	31.52	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	16.84	7.24	21.57	19.27
20	06-12-2019	57.69	25.61	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	19.53	15.63	28.51	16.53
21	10-12-2019	60.21	28.48	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	20.66	12.32	33.43	13.44
22	13-12-2019	55.50	30.65	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	13.63	18.73	36.42	17.34
23	17-12-2019	63.47	35.43	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	25.33	11.57	29.49	22.43
24	20-12-2019	72.67	38.39	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	29.58	19.55	25.33	10.37
25	24-12-2019	48.38	19.53	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	31.20	13.64	37.57	18.49
26	27-12-2019	50.35	23.48	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	24.38	8.45	19.36	11.26
27	31-12-2019	69.52	36.35	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	22.53	17.81	24.23	15.45


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28	03-01-2020	53.42	22.41	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	32.55	8.50	27.56	10.17
29	07-01-2020	71.68	29.20	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	25.47	18.34	19.23	13.51
30	10-01-2020	49.26	30.53	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	31.34	13.47	29.39	16.6
31	14-01-2020	61.53	20.37	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	18.25	11.81	17.56	14.54
32	17-01-2020	50.24	15.47	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	22.52	7.57	33.37	18.57
33	21-01-2020	44.37	23.33	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	34.26	15.34	28.31	22.52
34	24-01-2020	54.54	26.51	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	36.72	12.46	24.23	15.26
35	28-01-2020	65.41	33.56	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	42.58	9.63	16.88	19.63
36	31-01-2020	51.24	18.58	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	39.32	19.26	25.47	11.67
37	04-02-2020	76.56	40.25	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	40.28	12.65	28.33	23.39
38	07-02-2020	50.57	22.65	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	26.57	19.34	26.31	17.6
39	11-02-2020	72.64	37.83	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	18.45	11.51	21.58	15.37
40	14-02-2020	60.24	28.45	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	30.52	14.76	18.24	24.57
41	18-02-2020	70.55	36.71	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	21.23	16.55	23.55	12.28
42	21-02-2020	55.41	20.23	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	14.55	7.28	15.35	16.56
43	25-02-2020	77.55	38.54	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	28.33	17.23	20.13	21.63
44	28-02-2020	58.40	24.36	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	13.54	6.17	30.52	10.2
45	03-03-2020	56.29	26.42	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	13.52	17.61	31.53	14.64
46	06-03-2020	69.64	34.26	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	22.37	20.62	27.60	18.32
47	10-03-2020	59.62	28.64	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	11.55	12.85	30.27	13.58
48	13-03-2020	71.60	41.43	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	24.66	8.59	26.35	21.69
49	17-03-2020	61.63	27.84	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	18.43	14.32	33.40	19.47
50	20-03-2020	50.32	22.62	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	35.38	9.53	28.58	12.64
51	24-03-2020	62.97	29.47	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	14.58	16.34	32.91	10.2
52	27-03-2020	57.54	25.63	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	17.37	7.35	15.94	15.29

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM 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	01-10-2019	63.51	27.66	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	26.31	10.24	16.55	16.52
2	04-10-2019	55.62	23.42	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	32.54	6.82	18.64	20.25
3	08-10-2019	77.56	29.55	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	19.26	13.26	31.27	18.44
4	11-10-2019	82.66	36.54	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	25.49	11.22	22.35	24.36
5	15-10-2019	59.37	33.23	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	35.22	17.14	35.58	15.18
6	18-10-2019	69.27	26.39	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	31.28	12.12	27.53	22.22
7	22-10-2019	57.31	30.35	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	24.57	14.57	30.52	11.3
8	25-10-2019	65.32	38.26	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	21.52	8.30	23.49	14.39
9	29-10-2019	48.58	19.23	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	17.56	18.33	36.39	25.64
10	01-11-2019	50.67	20.22	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	18.52	9.88	30.21	18.64
11	05-11-2019	68.66	39.37	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	31.64	13.26	21.69	16.49
12	08-11-2019	74.66	43.20	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	21.55	18.24	26.48	11.66
13	12-11-2019	52.62	23.49	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	15.30	14.58	29.55	20.44
14	15-11-2019	70.21	38.62	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	33.68	19.61	31.65	10.75
15	19-11-2019	58.61	34.56	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	20.38	10.62	23.63	13.48
16	22-11-2019	67.51	31.25	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	14.54	8.58	32.70	23.42
17	26-11-2019	79.58	37.56	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	28.30	11.28	16.60	17.97
18	29-11-2019	50.20	21.45	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	36.54	15.32	22.62	22.45
19	03-12-2019	62.64	28.58	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	19.26	11.33	26.54	23.22
20	06-12-2019	71.21	37.52	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	34.27	18.43	29.57	13.29
21	10-12-2019	55.48	31.27	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	14.57	9.63	18.56	16.23
22	13-12-2019	60.22	38.49	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	17.84	6.27	23.20	14.34
23	17-12-2019	72.66	27.66	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	30.41	14.20	25.27	19.31
24	20-12-2019	68.41	32.53	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	24.21	8.27	16.24	21.65
25	24-12-2019	58.64	25.39	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	20.20	16.46	19.58	25.69
26	27-12-2019	63.55	29.55	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	32.43	12.31	21.64	18.32
27	31-12-2019	74.55	40.58	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	37.54	19.67	28.26	20.34



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28	03-01-2020	71.56	29.59	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	36.36	16.29	34.37	15.63
29	07-01-2020	59.65	26.25	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	40.23	11.32	28.29	19.54
30	10-01-2020	72.46	28.53	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	23.58	8.64	24.52	23.68
31	14-01-2020	57.50	32.48	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	32.48	15.69	21.63	11.23
32	17-01-2020	61.52	18.34	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	26.39	13.59	26.23	16.53
33	21-01-2020	55.31	30.30	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	22.13	6.37	33.57	20.66
34	24-01-2020	60.25	34.56	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	19.55	18.78	20.27	10.26
35	28-01-2020	54.31	19.27	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	25.88	7.22	29.23	13.4
36	31-01-2020	45.31	15.52	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	20.33	14.40	15.31	26.25
37	04-02-2020	64.23	30.25	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	25.39	10.55	31.54	21.21
38	07-02-2020	55.31	18.26	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	35.46	14.70	30.49	10.22
39	11-02-2020	62.46	26.20	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	12.39	18.23	34.59	18.21
40	14-02-2020	56.34	23.28	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	15.36	8.72	24.23	12.64
41	18-02-2020	77.53	39.40	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	18.29	12.48	32.42	17.82
42	21-02-2020	50.23	16.56	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	20.98	9.25	20.35	14.62
43	25-02-2020	63.27	27.21	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	31.51	19.54	27.55	19.51
44	28-02-2020	53.52	20.33	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	24.20	15.03	22.57	11.65
45	03-03-2020	65.33	32.43	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	24.23	6.63	26.25	16.2
46	06-03-2020	58.29	27.29	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	18.49	17.27	29.61	21.33
47	10-03-2020	48.34	22.69	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	23.48	8.39	20.45	22.43
48	13-03-2020	86.37	46.43	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	11.39	15.20	23.53	25.45
49	17-03-2020	54.43	23.23	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	15.29	10.67	30.64	20.58
50	20-03-2020	67.35	37.69	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	17.57	13.30	18.60	15.56
51	24-03-2020	72.78	34.58	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	26.48	7.65	15.41	12.44
52	27-03-2020	50.28	21.41	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	12.49	9.37	17.68	17.72

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 $\mu\text{g}/\text{m}^3$, Carbon Monoxide as CO: 0.1 mg/m^3 , Benzene as C_6H_6 : 2 $\mu\text{g}/\text{m}^3$, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m^3 , Arsenic as As: 2 ng/m^3 , Nickel as Ni: 5 ng/m^3

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

Sr. No.	Date of Sampling	Location-6: JS – 2 Junction											
		PM 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	01-10-2019	74.52	35.70	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	41.58	20.49	36.20	22.34
2	04-10-2019	90.26	51.25	BDL*	BDL*	2.13	BDL*	0.32	BDL*	36.54	15.31	31.57	17.57
3	08-10-2019	81.36	48.51	0.56	BDL*	2.03	10.05	0.66	BDL*	23.65	17.51	28.68	26.38
4	11-10-2019	73.21	41.30	BDL*	BDL*	2.93	BDL*	0.56	BDL*	45.25	25.26	34.53	19.41
5	15-10-2019	88.66	47.93	0.76	BDL*	2.64	10.67	0.74	BDL*	52.43	21.19	32.42	24.22
6	18-10-2019	78.59	29.48	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	40.20	14.36	43.63	28.24
7	22-10-2019	71.29	46.38	BDL*	BDL*	2.55	BDL*	0.70	BDL*	35.16	23.55	38.24	23.54
8	25-10-2019	84.20	49.33	0.71	BDL*	2.76	10.39	0.62	BDL*	38.58	18.21	41.28	18.25
9	29-10-2019	69.22	31.53	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	28.53	22.21	27.30	29.30
10	01-11-2019	75.60	37.33	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	48.50	15.36	26.65	23.21
11	05-11-2019	88.66	44.48	0.68	BDL*	2.24	10.13	0.92	BDL*	39.29	20.25	38.33	25.24
12	08-11-2019	78.61	40.53	BDL*	BDL*	BDL*	BDL*	0.82	BDL*	30.37	11.31	29.31	22.46
13	12-11-2019	86.35	48.57	BDL*	BDL*	BDL*	BDL*	1.01	BDL*	33.50	10.91	32.58	14.54
14	15-11-2019	68.46	36.32	0.52	BDL*	2.58	10.53	0.88	BDL*	28.50	23.27	35.80	20.68
15	19-11-2019	80.22	46.27	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	24.61	12.48	25.49	18.50
16	22-11-2019	72.60	39.27	0.72	BDL*	2.46	10.69	0.94	BDL*	34.53	19.26	39.28	21.24
17	26-11-2019	83.58	45.68	BDL*	BDL*	BDL*	BDL*	0.70	BDL*	40.22	16.86	36.59	15.85
18	29-11-2019	78.56	29.81	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	46.82	18.34	33.64	26.33
19	03-12-2019	78.29	40.22	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	39.39	22.30	41.98	17.24
20	06-12-2019	86.24	46.26	0.52	BDL*	2.76	10.59	0.27	BDL*	44.20	19.56	32.67	24.28
21	10-12-2019	79.39	43.53	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	31.62	18.59	43.27	21.27
22	13-12-2019	84.36	47.54	0.64	BDL*	2.65	10.26	0.69	BDL*	34.51	21.20	37.40	18.54
23	17-12-2019	77.58	32.58	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	45.22	17.59	40.20	14.19
24	20-12-2019	89.27	49.61	0.72	BDL*	2.70	10.61	0.63	BDL*	38.48	15.23	28.68	25.61
25	24-12-2019	74.84	38.32	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	25.24	20.35	31.58	28.50
26	27-12-2019	67.52	33.77	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	35.62	14.38	24.59	26.55
27	31-12-2019	85.30	48.20	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	43.52	23.53	34.51	23.15


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28	03-01-2020	80.23	34.68	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	25.32	18.23	39.21	21.30
29	07-01-2020	89.34	45.61	0.72	BDL*	2.34	10.33	0.63	BDL*	38.25	9.43	42.29	27.55
30	10-01-2020	77.56	42.65	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	35.48	12.60	34.57	19.40
31	14-01-2020	87.62	59.37	0.68	BDL*	2.76	10.09	0.29	BDL*	15.68	26.33	38.62	26.39
32	17-01-2020	79.21	37.55	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	46.20	16.87	29.73	22.36
33	21-01-2020	61.45	33.13	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	28.63	24.23	41.26	16.89
34	24-01-2020	75.30	40.22	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	40.31	15.29	33.21	20.32
35	28-01-2020	85.32	44.55	0.56	BDL*	2.18	10.25	0.82	BDL*	30.12	11.39	30.19	28.52
36	31-01-2020	58.43	28.23	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	45.62	21.23	36.55	24.60
37	04-02-2020	82.67	46.26	0.64	BDL*	2.36	10.30	0.84	BDL*	46.23	14.36	34.22	25.64
38	07-02-2020	74.61	37.48	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	23.39	21.24	38.36	19.65
39	11-02-2020	67.57	29.28	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	39.44	16.43	31.29	22.41
40	14-02-2020	78.64	45.35	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	42.29	18.43	36.50	16.23
41	18-02-2020	88.48	48.41	0.74	BDL*	2.42	10.61	0.74	BDL*	33.64	22.20	33.57	24.28
42	21-02-2020	60.56	34.62	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	25.78	13.52	30.33	21.59
43	25-02-2020	70.28	35.62	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	45.54	23.55	42.35	26.30
44	28-02-2020	86.20	38.68	0.56	BDL*	2.22	10.45	0.65	BDL*	29.22	17.54	39.39	15.25
45	03-03-2020	77.59	39.75	0.72	BDL*	2.12	BDL*	0.53	BDL*	29.92	12.70	33.27	18.78
46	06-03-2020	88.45	47.47	0.68	BDL*	2.26	BDL*	0.34	BDL*	38.66	22.78	35.64	25.58
47	10-03-2020	73.54	35.71	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	26.61	15.46	38.28	20.34
48	13-03-2020	81.56	37.62	0.54	BDL*	2.52	BDL*	0.74	BDL*	27.91	20.25	34.26	13.63
49	17-03-2020	89.46	43.59	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	32.69	24.51	27.67	26.25
50	20-03-2020	75.01	30.66	0.75	BDL*	2.46	BDL*	0.65	BDL*	20.48	18.35	21.43	22.59
51	24-03-2020	67.33	36.29	BDL*	BDL*	BDL*	BDL*	1.00	BDL*	36.57	13.20	39.53	19.64
52	27-03-2020	71.58	33.20	BDL*	BDL*	BDL*	BDL*	0.86	BDL*	42.55	19.54	31.84	23.39

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

Note: BDL*: Below Detection Limit, Minimum Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5 ng/m³, Arsenic as As: 2 ng/m³, Nickel as Ni: 5 ng/m³

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3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -

Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: October-19 to March-20

3B.1 Near Sub Station-7B

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	March-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	19-03-2020
1	Temperature	°C	31	30.3	29.6	29.9	30	31.8
2	pH	--	7.96	7.98	7.72	8.57	8.14	8.13
3	Total Dissolved Solids	mg/L	1812	1904	1872	898	856	1184
4	Salinity	ppt	1.25	1.31	1.28	0.24	0.23	0.37
5	Chloride as Cl	mg/L	699	729	709	134	128	210
6	Depth of Water Level from Ground Level	meter	2	2.2	1.5	1.5	1.5	1.7
7	Status of Tide	--	High Tide	High Tide	High Tide	High Tide	High Tide	High Tide

3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	March-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	19-03-2020
1	Temperature	°C	31.2	31	29.5	29.8	30	31.9
2	pH	--	7.61	7.72	7.58	8.61	8.42	8.27
3	Total Dissolved Solids	mg/L	1856	1910	1820	879	862	1034
4	Salinity	ppt	1.35	1.36	1.35	0.22	0.21	0.3
5	Chloride as Cl	mg/L	719	794	750	124	118	170
6	Depth of Water Level from Ground Level	meter	1.8	2	2.5	2.5	2.5	2.8
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 2019 to March 2020:-

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			OCT-19		NOV-19		DEC-19		JAN-20		FEB-20		MARCH-20	
			18-10-2019		25-11-2019		26-12-2019		28-01-2020		11-02-2020		17-03-2020	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.27	8.15	8.17	8.09	8.1	7.97	7.8	8.12	8.25	8.12	8.14	8.07
2	Temperature	°C	29.8	29	29.6	29	29.9	29.5	29.9	29.7	29.6	29.4	30.3	30
3	Total Suspended Solids	mg/L	356	372	304	356	290	267	420	316	374	402	370	398
4	BOD (3 Days @ 27 °C)	mg/L	3.4	Not Detected	4.8	Not Detected	4	Not Detected	8	4.2	5.8	3	4.6	Not Detected
5	Dissolved Oxygen	mg/L	6	5.7	5.6	5.9	5.5	5.8	5.6	5.8	5.6	5.7	5.8	5.6
6	Salinity	ppt	30.7	31.2	30.5	31.3	31.8	32.5	28.5	29.9	29.2	29.8	30.4	30.6
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	μmol/L	1.8	1.97	2.16	2	2.67	2.1	6.28	7.42	5.9	6.19	5.17	5.11
9	Nitrite as NO ₂	μmol/L	0.21	0.13	1.14	1	0.94	0.76	1.46	1.5	1.18	1.24	1.94	1.46
10	Ammonical Nitrogen as NH ₃	μmol/L	1.58	1.77	3.24	2.98	3.56	3.29	1.91	2.18	1.74	1.89	2.93	2.73
11	Phosphates as PO ₄	μmol/L	2.1	2.36	2.76	2.51	2.64	2.57	4.19	4.53	3.86	3.97	2.64	2.38
12	Total Nitrogen	μmol/L	3.29	3.87	6.54	5.98	7.17	6.15	9.65	11.1	8.82	9.32	10.04	9.3
13	Petroleum Hydrocarbon	μg/L	7.2	Not Detected	9.6	Not Detected	11	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	32950	33468	32890	33398	34116	34364	31168	31684	30246	31540	32840	33368
15	COD	mg/L	18.6	Not Detected	21	Not Detected	25	Not Detected	31	20	25.4	17.2	25	18
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	10.8	8.32	13.9	9.36	14.4	9.45	14.85	13.5	14.17	13.27	18.45	16.2
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	3.15	2.99	3.31	2.62	2.72	2.35	3.04	2.94	3.26	2.8	3.74	3.36
17.2	Phaeophytin	mg/m ³	1.04	1.2	0.35	0.6	1.09	1.31	2.38	2.52	2.01	2.61	1.2	1.79
17.3	Cell Count	Unit x 10 ³ /L	192	82	184	78	194	84	146	90	156	104	156	104
17.4	Name of Group Number and name of group species of each group	--	Coscino discus sp. Navicul a sp. Thalassi osira sp. Biddulph hia sp.	Coscino discus sp. Navicul a sp. Nitzschi a sp. --	Thalassi onema sp. Biddulph hia sp. Coscino discus sp.	Fragilla ria sp. Nitzschi a sp. Rhizoso lenia sp.	Asterio nella sp. Nitzschi a sp. Coscino discus sp. Pleuros igma sp.	Nitzschi a sp. Navicul a sp. Thalassi osira sp. --	Navicul a sp. Nitzschi a sp. Gyrosig ma sp. Cosino discus sp.	Nitzschi a sp. Navicul a sp. Thalassi osira sp. --	Navicul a sp. Asterio nella sp. Coscino discus sp. Nitzschi a sp.	Nitzschi a sp. Synedr a sp. Cosmar ium sp. --	Biddulph hia sp. Rhizoso lenia sp. Coscino discus sp. Thalassi onema sp.	Nitzschi a sp. Navicul a sp. Fragilla ria sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			OCT-19	NOV-19	DEC-19	JAN-20	FEB-20	MARCH-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	17-03-2020
			South Side	South Side	South Side	South Side	South Side	South Side
C	Zooplanktons							
18.1	Abundance (Population)	noX10 ³ /100m ³	43	41	47	42	39	32
18.2	Name of Group Number and name of group species of each group	--	Copepods Decapods Polychaetes	Copepods Gastropods Polychaetes	Ostracods Nauplius larvae Gastropods	Polychaetes Bivalves Crustaceans	Polychaetes Nauplius larvae Ostracods	Polychaetes Crustaceans Bivalves
18.3	Total Biomass	ml/100 m ³	3.45	3.75	3.8	1.6	1.55	2.8
D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1860	1800	1820	2050	2180	1560
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

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



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Table No.: 3C.2 - Sea Water (Surface & Bottom) Quality Analysis Results of Sea Water North Side for the period: October 2019 to March 2020:-

SR. NO..	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			OCT-19		NOV-19		DEC-19		JAN-20		FEB-20		MARCH-20	
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	17-03-2020	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.2	8.13	8.14	8	8.13	8.06	7.94	8.07	8.23	8.17	8.21	8.11
2	Temperature	°C	29.8	29.1	29.6	29.2	29.9	29.6	29.8	29.6	29.8	29.7	30.4	30.1
3	Total Suspended Solids	mg/L	362	390	312	339	246	258	548	492	386	412	392	405
4	BOD (3 Days @ 27 °C)	mg/L	3.8	Not Detected	4.3	Not Detected	4	Not Detected	9.2	5.1	6.3	3.8	4.8	Not Detected
5	Dissolved Oxygen	mg/L	5.9	5.7	5.7	5.9	6	5.9	5.8	5.9	5.7	5.9	5.9	5.6
6	Salinity	ppt	30.8	31.3	30.6	31.3	32	32.8	28.8	29.5	29.4	29.7	30.4	30.5
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO ₃	µmol/L	1.84	1.9	2.1	1.91	2.56	2.13	7.9	8.2	5.82	6.1	5.28	5.16
9	Nitrite as NO ₂	µmol/L	0.23	0.16	1.26	1.14	0.87	0.7	2.18	1.49	1.28	1.39	1.7	1.58
10	Ammonical Nitrogen as NH ₃	µmol/L	1.49	1.63	3.38	3.25	3.62	3.24	1.31	1.28	1.96	2.16	2.84	2.69
11	Phosphates as PO ₄	µmol/L	2.23	2.4	2.7	2.58	2.58	2.39	4.68	3.56	3.79	3.9	2.5	2.32
12	Total Nitrogen	µmol/L	3.56	3.69	6.74	6.3	7.05	6.07	11.39	10.67	9.06	9.65	9.82	9.43
13	Petroleum Hydrocarbon	µg/L	7	Not Detected	10.3	Not Detected	14	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	32983	33234	32516	33210	33916	35180	30940	31978	31164	31736	32910	33204
15	COD	mg/L	20.6	Not Detected	19	Not Detected	27	Not Detected	39	24	30	21	27	20
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	10.75	8.1	12.69	9	13.5	11.7	15.75	13.95	15.3	14.67	16.4	15.3
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	3.31	2.61	3.36	2.67	2.83	2.45	3.25	2.83	3.04	2.99	3.31	3.5
17.2	Phaeophytin	mg/m ³	0.76	1.94	0.34	1.14	1.02	1.13	2.05	2.7	2.41	2.43	1.96	2.16
17.3	Cell Count	Unit x 10 ³ /L	198	80	180	70	186	74	152	86	146	98	146	98
17.4	Name of Group Number and name of group species of each group	--	Rhizosolenia sp. Coscinodiscus sp. Navicula sp. Gomphonema sp.	Synedra sp. Cymbella sp. Thalassiosira sp. --	Navicula sp. Biddulphia sp. Rhizosolenia sp. Nitzschia sp.	Nitzschia sp. Fragillaria sp. Coscinodiscus sp. --	Coscinodiscus sp. Nitzschia sp. Rhizosolenia sp. Thalassiosira sp.	Navicula sp. Synedra sp. Pleurosigma sp. --	Navicula sp. Melosira sp. Thalassiosira sp. Gyrosigma sp.	Navicula sp. Nitzschia sp. Fragillaria sp. --	Nitzschia sp. Asterionella sp. Coscinodiscus sp. cosmarium sp.	Navicula sp. Spirulina sp. Nitzschia sp. --	Nitzschia sp. Rhizosolenia sp. Coscinodiscus sp. Pleurosigma sp.	Nitzschia sp. Synedra sp. Cyclotella sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE					
			OCT-19	NOV-19	DEC-19	JAN-20	FEB-20	MARCH-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	17-03-2020
			North Side	North Side	North Side	North Side	North Side	North Side
C	Zooplanktons							
18.1	Abundance (Population)	noX10 ³ /100m ³	50	47	49	43	41	35
18.2	Name of Group Number and name of group species of each group	--	Chaetognathes Polychaetes Decapods	Copepods Gastropods --	Nauplius larvae Copepods Gastropods	Polychaetes Gastropods --	Decapods Copepods Polychaetes	Polychaetes Decapods Nauplius larvae
18.3	Total Biomass	ml/100 m ³	4.45	3.8	3.95	1.75	1.85	2.9
D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1100	950	1180	2210	2160	1720
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

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



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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis (South Side) Results for the period: October 2019 to March 2020

Sr. No	PARAMETERS	UNIT	OCT-19	NOV-19	DEC-19	JAN-20	FEB-20	MARCH-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	17-03-2020
1	Organic Matter	%	0.84	0.69	0.82	0.69	0.67	0.52
2	Phosphorus as P	µg/g	694	648	710	729	684	674
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.28	4.36	4.68	4.76	4.62	5.7
5.2	Total Chromium as Cr ⁺³	µg/g	210	270	210	181	153	164
5.3	Manganese as Mn	µg/g	1073	1128	1050	926	897	736
5.4	Iron as Fe	%	5.18	4.89	4.9	4.85	4.74	5.46
5.5	Nickel as Ni	µg/g	42	37	29	32.6	35.6	38
5.6	Copper as Cu	µg/g	38	58	46	41.2	32	50
5.7	Zinc as Zn	µg/g	174	230	201	210	156	136
5.8	Lead as Pb	µg/g	1.4	2.67	2.17	1.53	1.72	2.13
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	-	Polychaetes Herpacticoids --	Copepods Polychaetes	Polychaete worms Oligochaetes Mysids	Polychaete worms Gastropods --	Polychaete worms Gastropods Bivalves	Polychaetes Gastropods Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	Nematodes	Foraminiferans	Foraminiferans	--	--
6.3	Population	no/m ²	733	676	794	735	765	647

BDL* - Below Detection Limit

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



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3D. SEA SEDIMENT QUALITY ANALYSIS MONITORING: -

Table -Sea Sediment Quality Analysis Results (North Side) for the period: Oct-19 to March-2020:-

Sr. No..	PARAMETERS	UNIT	OCT-19	NOV-19	DEC-19	JAN-20	FEB-20	MARCH-20
			18-10-2019	25-11-2019	26-12-2019	28-01-2020	11-02-2020	17-03-2020
1	Organic Matter	%	0.83	0.76	0.7	0.62	0.68	0.58
2	Phosphorus as P	mg/kg	612	697	590	638	657	610
3	Texture	--	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Petroleum Hydrocarbon	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Heavy Metals							
5.1	Aluminum as Al	%	4.73	4.48	4.85	4.7	4.65	5.56
5.2	Total Chromium as Cr ⁺³	mg/kg	248	190	169	185	138	153
5.3	Manganese as Mn	mg/kg	1093	958	984	920	894	794
5.4	Iron as Fe	%	4.94	4.84	5.2	4.8	4.92	5.16
5.5	Nickel as Ni	mg/kg	38	58	39	35.8	31	32
5.6	Copper as Cu	mg/kg	57	41	53	43.6	36.2	55
5.7	Zinc as Zn	mg/kg	172	198	130	170	188	164
5.8	Lead as Pb	mg/kg	2.3	1.7	1.84	1.35	1.75	2
5.9	Mercury as Hg	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Gastropods	Polychaetes Crustaceans --	Polychaete worms Gastropods Amphipods	Polychaete worms Crustaceans --	Polychaete worms Gastropods Bivalves	Polychaetes Crustaceans Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	--	Nematodes	Nematodes	Nematodes	--
6.3	Population	no/m ²	704	647	765	588	735	618

BDL* - Below Detection Limit

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



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3E. DUMP POND WATER QUALITY ANALYSIS MONITORING: -

Table - Dump Pond Water Quality Analysis Results for the period: October-19 to March-20

Date			Nov-19	Feb-20	Feb-20
			29-11-2019	11-02-2020	11-02-2020
Sr. No.	Test Parameters	Unit	Dump Pond Discharge -J3	Dump Pond Discharge -J3	Dump Pond Discharge -SS7A
1.	pH	--	7.92	7.9	8.16
2.	Total Dissolved Solids	mg/L	1480	1584	1426
3.	Total Suspended Solids	mg/L	31	26	31
4.	Turbidity	NTU	2.69	3.8	2.7
5.	BOD (3 Days @ 27 °C)	mg/L	14	16	13.2
6.	Dissolved Oxygen	mg/L	5.9	5.8	5.9
7.	COD	mg/L	63	67	58
8.	Salinity	ppt	0.24	0.25	0.24
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO ₃	mg/L	586	560	608
11.	Fluoride as F	mg/L	0.26	0.38	0.31
12.	Chloride as Cl	mg/L	138	142	138
13.	Zinc as Zn	mg/L	0.2	0.34	0.26
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected

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.



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**3F. STP TREATED WATER QUALITY ANALYSIS MONITORING: -****TABLE - STP TREATED WATER QUALITY ANALYSIS RESULTS FOR THE PERIOD: OCTOBER-19 TO MARCH-20**

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	March-20
			18-10-2019	25-11-2019	27-12-2019	28-01-2020	11-02-2020	19-03-2020
1.	pH	--	7.48	7.68	7.42	7.5	7.1	7.2
2.	Total Suspended Solids	mg/L	14	18	12	22	25	21
3.	BOD (3 Days @ 27 °C)	mg/L	10	12	8	10	14	15
4.	Residual Free Chlorine	mg/L	0.6	0.6	0.6	0.4	0.6	0.8
5.	Oil & Grease	mg/L	1.8	2.2	1.8	3.4	2.4	2.2

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

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3G. AMBIENT NOISE LEVEL MONITORING: -

Tables - 1 - Behind QHSE Office Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	01-10-2019	01-11-2019	02-12-2019	01-01-2020	03-02-2020	02-03-2020
6:00-7:00	52.1	56.3	41.6	51.9	51.4	49.3
7:00-8:00	62.1	48.3	55.6	55.5	55.6	54.4
8:00-9:00	47.1	50.1	56.2	47.7	60.8	57.4
9:00-10:00	50.2	55.4	55.4	51.4	48.2	56.7
10:00-11:00	44.6	47.1	51.2	48.1	43.8	48.5
11:00-12:00	48.2	61.3	60.7	61.2	44.2	58.5
12:00-13:00	54.6	58.6	57.1	44.3	58.5	45.7
13:00-14:00	47.5	60.2	51.3	52.6	44.5	52.2
14:00-15:00	67.1	44.3	60.5	58.1	61.3	60.3
15:00-16:00	42.8	51.2	63.8	60.2	45.9	51.3
16:00-17:00	61.1	53.4	65.3	54.1	50.4	53.5
17:00-18:00	53.2	49.3	55.2	40.5	56.2	47.5
18:00-19:00	65.2	54.6	58.9	49.3	46.8	61.3
19:00-20:00	58.1	67.8	51.8	43.5	52.4	55.4
20:00-21:00	44.4	43.8	48.3	46.5	62.3	44.3
21:00-22:00	52.1	46.6	45.9	56.4	50.8	47.6

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	01-10-2019 & 02-10-2019	01-11-2019 & 02-11-2019	02-12-2019 & 03-12-2019	01-01-2020 & 02-01-2020	03-02-2020 & 04-02-2020	02-03-2020 & 03-03-2020
22:00-23:00	60.5	65.8	51.4	47.5	48.5	64.2
23:00-00:00	41.9	42.7	40.6	50.6	60.5	49.4
00:00-01:00	65.7	64.8	48.2	61.9	52.9	50.2
01:00-02:00	65.3	56.7	46.6	44.7	40.8	66.1
02:00-03:00	54.7	54.8	58.2	51.2	49.7	46.9
03:00-04:00	60.3	56.9	61.1	46.3	59.4	61.0
04:00-05:00	59.5	60.2	50.6	53.6	53.9	58.4
05:00-06:00	53.1	53.7	47.2	42.3	50.2	51.6

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

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

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



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Tables -2 - PMC Office Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	02-10-2019	02-11-2019	03-12-2019	02-01-2020	04-02-2020	03-03-2020
6:00-7:00	61.2	61.8	55.7	65.7	61.5	55.5
7:00-8:00	55.1	55.1	51.3	51.8	58.4	67.1
8:00-9:00	68.2	44.7	50.8	48.3	50.8	60.4
9:00-10:00	48.1	52.8	57.2	50.7	48.5	58.3
10:00-11:00	54.4	51.5	50.3	55.8	60.2	45.1
11:00-12:00	47.1	65.7	53.4	45.6	43.9	44.7
12:00-13:00	52.2	45.6	50.6	44.2	51.6	53.1
13:00-14:00	51.6	50.2	49.7	52.3	47.4	47.9
14:00-15:00	44.8	56.2	53.1	61.1	55.8	50.6
15:00-16:00	50.2	48.8	58.2	57.4	58.7	46.8
16:00-17:00	47.1	67.9	60.3	42.8	44.6	59.3
17:00-18:00	60.3	42.1	51.9	47.5	50.3	62.3
18:00-19:00	54.2	49.9	54.3	50.4	49.5	48.7
19:00-20:00	43.8	62.3	47.5	53.2	53.7	54.5
20:00-21:00	50.2	52.1	55.8	52.8	46.5	42.7
21:00-22:00	64.2	64.3	51.4	56.8	56.3	56.5

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	02-10-2019 & 03-10-2019	02-11-2019 & 03-11-2019	03-12-2019 & 04-12-2019	02-01-2020 & 03-01-2020	04-02-2020 & 05-02-2020	03-03-2020 & 04-03-2020
22:00-23:00	54.5	55.1	60.4	51.7	51.4	60.3
23:00-00:00	41.0	42.0	48.4	49.6	47.6	49.2
00:00-01:00	61.8	62.5	46.6	47.1	48.6	58.5
01:00-02:00	51.8	52.5	60.1	51.0	52.3	47.5
02:00-03:00	66.1	66.5	47.2	46.4	59.8	53.2
03:00-04:00	68.1	65.5	55.3	62.2	44.4	59.0
04:00-05:00	55.9	56.4	54.2	43.8	53.8	47.6
05:00-06:00	58.4	58.9	51.8	53.9	47.5	65.3

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

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



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Tables - 3 - Sub Station - 6 Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	03-10-2019	04-11-2019	04-12-2019	03-01-2020	05-02-2020	04-03-2020
6:00-7:00	50.0	46.2	47.5	46.2	55.1	50.2
7:00-8:00	55.1	47.2	61.3	50.3	51.8	55.7
8:00-9:00	61.2	55.2	60.6	51.7	45.3	61.5
9:00-10:00	58.1	67.6	55.7	53.1	49.3	47.1
10:00-11:00	44.4	42.8	62.1	58.2	60.3	45.8
11:00-12:00	67.2	53.1	58.3	60.8	44.7	51.1
12:00-13:00	55.2	51.6	60.8	48.7	61.5	68.3
13:00-14:00	60.1	49.2	54.1	51.1	53.2	44.2
14:00-15:00	49.2	60.4	59.3	47.6	58.3	53.6
15:00-16:00	51.6	55.3	61.7	43.6	48.6	42.2
16:00-17:00	53.1	67.4	58.6	64.1	54.4	61.5
17:00-18:00	67.6	44.2	69.5	55.2	51.4	50.5
18:00-19:00	42.8	58.7	68.1	44.5	61.1	56.7
19:00-20:00	55.2	60.3	54.3	57.1	57.5	70.1
20:00-21:00	47.2	55.9	59.2	50.8	42.6	45.9
21:00-22:00	46.2	50.0	55.1	48.6	49.4	60.0

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	03-10-2019 & 04-10-2019	04-11-2019 & 05-11-2019	04-12-2019 & 05-12-2019	03-01-2020 & 04-01-2020	05-02-2020 & 06-02-2020	04-03-2020 & 05-03-2020
22:00-23:00	66.5	66.4	44.6	55.3	58.6	49.9
23:00-00:00	56.7	55.9	47.2	48.3	60.4	50.7
00:00-01:00	60.2	66.8	60.7	60.6	59.0	58.6
01:00-02:00	52.0	57.3	48.6	61.4	47.7	42.5
02:00-03:00	62.7	62.9	55.4	51.6	68.1	48.6
03:00-04:00	67.4	50.2	46.1	50.9	54.5	54.0
04:00-05:00	40.5	42.3	58.2	68.2	42.8	47.3
05:00-06:00	50.8	50.4	59.1	56.3	61.8	55.2

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

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



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Tables - 4 -Sub Station - 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	04-10-2019	05-11-2019	05-12-2019	04-01-2020	06-02-2020	05-03-2020
6:00-7:00	67.1	50.3	48.1	58.4	50.1	49.2
7:00-8:00	44.2	49.6	50.8	43.8	48.5	50.1
8:00-9:00	50.3	60.1	48.6	51.6	60.2	53.7
9:00-10:00	58.2	47.7	45.1	46.7	70.1	45.5
10:00-11:00	68.1	51.4	46.6	60.1	44.6	58.0
11:00-12:00	48.6	45.5	55.8	48.5	51.4	47.7
12:00-13:00	44.8	42.4	50.1	51.2	58.6	43.0
13:00-14:00	69.1	64.8	58.1	50.3	61.3	53.5
14:00-15:00	64.3	69.1	60.8	41.7	49.9	58.1
15:00-16:00	42.4	44.8	55.1	47.8	62.1	45.9
16:00-17:00	45.3	48.2	61.3	57.2	45.8	42.1
17:00-18:00	51.6	68.2	68.1	65.7	64.1	56.8
18:00-19:00	47.8	58.1	58.4	56.2	53.4	43.9
19:00-20:00	60.2	50.8	56.7	49.3	47.6	59.1
20:00-21:00	49.6	44.4	52.1	52.1	56.1	64.2
21:00-22:00	50.3	67.1	50.9	50.0	58.1	60.1

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	04-10-2019 & 05-10-2019	05-11-2019 & 06-11-2019	05-12-2019 & 06-12-2019	04-01-2020 & 05-01-2020	06-02-2020 & 07-02-2020	05-03-2020 & 06-03-2020
22:00-23:00	66.4	66.1	47.6	60.3	51.5	49.3
23:00-00:00	56.4	56.5	46.7	53.3	59.7	45.7
00:00-01:00	41.5	41.8	41.2	55.7	49.4	51.3
01:00-02:00	60.7	57.4	58.2	50.7	45.4	56.2
02:00-03:00	50.9	50.1	60.3	44.9	52.7	45.1
03:00-04:00	49.8	49.2	47.2	47.3	49.5	42.3
04:00-05:00	64.7	65.9	46.8	49.5	60.3	58.0
05:00-06:00	66.8	67.2	52.1	52.4	53.2	60.4

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

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



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Tables - 5 - Near Sub Station-7B Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	05-10-2019	06-11-2019	06-12-2019	06-01-2020	07-02-2020	06-03-2020
6:00-7:00	49.2	51.3	50.9	51.4	49.9	55.1
7:00-8:00	61.5	50.4	70.2	48.8	50.0	43.8
8:00-9:00	67.2	51.8	65.4	49.7	51.4	45.4
9:00-10:00	64.3	47.4	68.2	55.9	48.8	58.4
10:00-11:00	45.4	61.2	58.8	47.2	45.7	60.5
11:00-12:00	55.6	53.8	60.3	52.4	55.3	65.2
12:00-13:00	48.2	61.1	63.7	65.8	60.5	42.5
13:00-14:00	45.6	44.6	59.7	50.1	67.2	49.0
14:00-15:00	44.4	45.8	60.2	46.7	45.4	50.4
15:00-16:00	61.2	48.1	58.1	44.7	56.5	62.1
16:00-17:00	53.4	55.6	60.4	53.4	61.0	60.2
17:00-18:00	61.2	45.3	58.3	60.0	46.6	54.8
18:00-19:00	47.6	64.1	55.1	40.3	52.7	45.7
19:00-20:00	51.8	67.2	52.6	51.3	57.4	40.9
20:00-21:00	50.1	61.4	51.2	49.6	62.0	53.2
21:00-22:00	51.2	49.8	53.8	54.8	49.8	57.2

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	05-10-2019 & 06-10-2019	06-11-2019 & 07-11-2019	06-12-2019 & 07-12-2019	06-01-2020 & 07-01-2020	07-02-2020 & 08-02-2020	06-03-2020 & 07-03-2020
22:00-23:00	52.9	56.3	65.5	54.3	56.4	58.8
23:00-00:00	65.4	66.3	60.8	47.9	48.7	45.3
00:00-01:00	63.3	62.8	68.1	42.5	68.3	55.8
01:00-02:00	64.4	64.4	50.2	52.9	42.4	50.4
02:00-03:00	63.7	64.1	51.8	60.4	54.4	42.7
03:00-04:00	65.1	64.3	45.3	48.1	58.5	48.7
04:00-05:00	57.1	58.4	55.2	50.0	51.8	62.1
05:00-06:00	43.4	43.9	52.3	58.3	45.3	65.2

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

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



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Tables -6 - JS - 1 (Nr. Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	07-10-2019	07-11-2019	07-12-2019	07-01-2020	08-02-2020	07-03-2020
6:00-7:00	48.4	59.2	60.4	50.2	61.1	68.0
7:00-8:00	54.2	46.4	63.1	61.8	41.8	48.6
8:00-9:00	50.1	50.8	52.7	58.4	44.5	50.1
9:00-10:00	58.2	49.4	59.3	56.9	50.9	57.7
10:00-11:00	45.7	54.8	60.8	48.7	58.6	45.2
11:00-12:00	55.1	42.1	50.8	51.3	60.0	55.9
12:00-13:00	48.8	44.6	51.8	60.2	45.4	54.3
13:00-14:00	65.2	60.3	53.9	44.1	49.8	42.8
14:00-15:00	60.3	64.8	52.3	53.8	57.1	48.6
15:00-16:00	44.6	48.8	55.2	47.3	53.2	51.2
16:00-17:00	42.8	55.2	59.7	46.2	46.7	50.4
17:00-18:00	54.4	45.7	55.9	56.8	59.8	61.1
18:00-19:00	49.7	58.2	50.1	42.8	54.4	43.9
19:00-20:00	50.2	50.3	51.7	51.9	46.5	47.2
20:00-21:00	46.6	54.1	50.4	45.7	52.8	54.8
21:00-22:00	59.2	48.7	48.7	49.3	51.4	56.1

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	07-10-2019 & 08-10-2019	07-11-2019 & 08-11-2019	07-12-2019 & 08-12-2019	07-01-2020 & 08-01-2020	08-02-2020 & 09-02-2020	07-03-2020 & 08-03-2020
22:00-23:00	56.6	55.2	44.3	45.2	55.5	56.3
23:00-00:00	52.3	53.4	62.1	50.5	56.8	49.7
00:00-01:00	54.1	54.1	51.9	52.7	43.9	45.4
01:00-02:00	64.0	61.8	40.7	44.4	52.6	42.2
02:00-03:00	62.6	63.1	48.2	46.9	59.4	58.9
03:00-04:00	40.8	40.3	51.6	56.4	46.9	60.2
04:00-05:00	62.1	62.4	56.8	42.1	53.5	53.3
05:00-06:00	51.0	51.8	51.2	59.3	50.8	59.4

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

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



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Tables -7 - Behind S.S. - 11 (Silo) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	08-10-2019	08-11-2019	09-12-2019	08-01-2020	10-02-2020	09-03-2020
6:00-7:00	54.4	49.1	62.3	48.4	55.4	56.1
7:00-8:00	44.4	50.1	60.5	51.1	68.1	48.2
8:00-9:00	60.2	42.6	63.1	55.4	48.1	45.8
9:00-10:00	65.1	50.5	65.8	60.1	51.9	55.6
10:00-11:00	49.8	46.8	67.1	49.5	56.4	59.1
11:00-12:00	52.8	47.2	65.5	50.7	58.7	44.9
12:00-13:00	62.3	68.1	68.2	52.3	47.6	45.6
13:00-14:00	52.1	58.3	64.8	44.4	45.6	50.1
14:00-15:00	58.2	52.1	60.6	48.2	51.3	64.1
15:00-16:00	68.1	62.1	58.3	56.1	49.6	42.8
16:00-17:00	47.2	52.8	55.1	58.1	54.9	55.2
17:00-18:00	46.8	49.8	60.9	42.6	52.6	44.8
18:00-19:00	50.2	65.1	55.6	46.3	58.1	46.9
19:00-20:00	42.6	60.2	51.3	57.2	44.9	59.1
20:00-21:00	60.2	44.4	47.5	61.8	56.3	60.0
21:00-22:00	49.2	54.3	49.5	46.1	60.5	61.1

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	08-10-2019 & 09-10-2019	08-11-2019 & 09-11-2019	09-12-2019 & 10-12-2019	08-01-2020 & 09-01-2020	10-02-2020 & 11-02-2020	09-03-2020 & 10-03-2020
22:00-23:00	47.0	47.1	52.4	61.3	50.6	51.5
23:00-00:00	54.2	54.5	50.0	51.5	59.6	53.4
00:00-01:00	41.1	41.6	47.6	58.4	47.1	45.9
01:00-02:00	58.2	58.3	44.8	46.7	54.8	68.5
02:00-03:00	62.9	63.4	65.3	54.9	60.8	43.9
03:00-04:00	59.1	59.2	60.1	48.5	42.6	56.4
04:00-05:00	65.5	66.0	59.2	45.3	46.5	40.7
05:00-06:00	52.8	52.6	44.6	50.4	55.0	53.1

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

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



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Tables - 8 –Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	09-10-2019	09-11-2019	10-12-2019	09-01-2020	11-02-2020	10-03-2020
6:00-7:00	47.5	44.1	58.3	65.1	48.4	60.1
7:00-8:00	44.4	56.1	57.1	44.3	50.2	57.2
8:00-9:00	51.2	61.8	60.2	48.2	51.2	48.2
9:00-10:00	60.2	48.5	64.3	55.4	47.4	45.8
10:00-11:00	48.2	45.8	66.1	57.8	55.7	59.1
11:00-12:00	56.4	54.7	60.1	50.0	61.5	70.1
12:00-13:00	61.2	64.1	58.4	47.5	47.3	42.9
13:00-14:00	50.3	65.8	55.3	53.1	44.3	50.1
14:00-15:00	42.8	50.0	52.1	46.2	55.6	44.6
15:00-16:00	64.3	68.2	57.9	56.2	52.3	55.8
16:00-17:00	54.2	56.4	54.2	44.8	42.6	47.6
17:00-18:00	45.8	48.2	51.3	51.6	59.7	68.1
18:00-19:00	48.3	60.8	61.2	53.2	62.1	45.9
19:00-20:00	61.2	51.1	55.1	47.6	47.8	66.1
20:00-21:00	56.3	44.3	52.3	49.7	49.7	52.8
21:00-22:00	44.2	47.3	50.5	45.8	46.5	47.8

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	09-10-2019 & 10-10-2019	09-11-2019 & 10-11-2019	10-12-2019 & 11-12-2019	09-01-2020 & 10-01-2020	11-02-2020 & 12-02-2020	10-03-2020 & 11-03-2020
22:00-23:00	49.6	67.1	51.6	54.1	56.5	58.7
23:00-00:00	51.5	51.4	60.4	61.7	44.2	48.8
00:00-01:00	40.2	43.7	48.3	42.7	46.4	57.0
01:00-02:00	54.0	54.4	44.6	45.7	50.5	41.8
02:00-03:00	61.2	61.7	41.6	51.9	53.7	60.0
03:00-04:00	63.9	64.9	58.2	56.9	42.7	43.7
04:00-05:00	56.5	55.3	51.1	44.2	51.0	56.5
05:00-06:00	48.9	49.7	55.2	40.3	57.5	48.4

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

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



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Tables -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	10-10-2019	11-11-2019	11-12-2019	10-01-2020	12-02-2020	11-03-2020
6:00-7:00	61.2	61.2	57.2	48.8	51.0	52.1
7:00-8:00	58.4	44.8	55.3	55.3	55.1	56.2
8:00-9:00	51.2	55.8	60.1	49.1	61.2	48.8
9:00-10:00	67.3	61.1	58.4	50.1	44.6	50.1
10:00-11:00	45.4	65.2	59.2	61.2	45.8	61.2
11:00-12:00	50.2	51.0	62.3	44.5	46.9	44.9
12:00-13:00	48.6	45.9	65.2	51.3	50.1	51.2
13:00-14:00	49.3	58.5	60.7	53.6	58.2	47.9
14:00-15:00	58.4	49.6	63.1	44.9	60.8	44.6
15:00-16:00	45.5	48.4	66.8	45.6	42.9	56.2
16:00-17:00	51.6	50.8	65.4	52.6	48.2	59.1
17:00-18:00	65.4	45.4	52.8	47.3	54.1	47.9
18:00-19:00	61.1	67.1	51.3	58.2	56.0	45.8
19:00-20:00	54.2	51.2	50.3	60.0	45.3	58.2
20:00-21:00	44.8	58.1	48.7	61.5	59.1	60.0
21:00-22:00	61.3	61.7	49.3	46.8	52.6	53.1

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	10-10-2019 & 11-10-2019	11-11-2019 & 12-11-2019	11-12-2019 & 12-12-2019	10-01-2020 & 11-01-2020	12-02-2020 & 13-02-2020	11-03-2020 & 12-03-2020
22:00-23:00	66.6	66.9	57.8	45.1	54.7	49.8
23:00-00:00	58.6	57.1	47.6	52.5	49.9	68.3
00:00-01:00	60.1	60.4	56.1	61.8	51.2	51.1
01:00-02:00	42.5	42.2	51.6	47.2	57.3	57.4
02:00-03:00	65.9	66.6	40.8	44.3	55.3	48.5
03:00-04:00	60.6	61.1	47.4	56.8	44.5	42.6
04:00-05:00	57.7	58.1	58.1	51.8	49.3	57.9
05:00-06:00	58.3	58.5	56.4	57.4	54.6	59.1

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

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



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Tables - 10 - Lakhi Village (Primary School) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	11-10-2019	12-11-2019	12-12-2019	11-01-2020	13-02-2020	12-03-2020
6:00-7:00	55.2	47.1	63.8	51.2	44.8	45.9
7:00-8:00	67.2	52.2	51.1	48.1	55.5	50.1
8:00-9:00	55.3	60.4	50.4	45.7	55.3	48.2
9:00-10:00	60.1	53.4	55.3	49.6	48.6	56.2
10:00-11:00	47.6	41.3	58.4	50.3	49.4	58.1
11:00-12:00	44.8	44.2	54.2	55.1	53.2	50.3
12:00-13:00	50.2	54.2	68.3	49.2	55.2	42.9
13:00-14:00	48.6	57.1	61.6	51.8	57.6	61.2
14:00-15:00	57.4	48.6	50.8	52.4	45.8	59.2
15:00-16:00	54.2	50.2	51.3	44.6	60.1	43.9
16:00-17:00	44.6	44.9	56.8	47.8	56.1	60.1
17:00-18:00	41.3	47.6	49.2	53.4	42.8	61.2
18:00-19:00	53.4	60.1	56.1	54.0	43.9	40.9
19:00-20:00	60.1	55.3	58.1	46.5	49.8	45.6
20:00-21:00	52.3	67.2	49.7	48.6	50.0	54.2
21:00-22:00	47.4	55.1	47.2	54.9	54.4	68.1

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	11-10-2019 & 12-10-2019	12-11-2019 & 13-11-2019	12-12-2019 & 13-12-2019	11-01-2020 & 12-01-2020	13-02-2020 & 14-02-2020	12-03-2020 & 13-03-2020
22:00-23:00	66.7	64.5	60.5	49.3	42.5	56.8
23:00-00:00	57.4	59.9	44.2	50.8	50.7	42.1
00:00-01:00	52.5	53.1	65.1	56.6	61.1	45.2
01:00-02:00	39.5	40.5	50.8	60.8	45.2	40.8
02:00-03:00	52.2	53.0	44.6	54.2	49.2	51.4
03:00-04:00	63.1	63.7	52.3	48.7	58.2	58.3
04:00-05:00	55.7	60.8	47.8	42.6	56.9	46.1
05:00-06:00	61.1	62.1	43.2	57.1	53.1	54.6

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

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



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Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	12-10-2019	13-11-2019	13-12-2019	13-01-2020	14-02-2020	13-03-2020
6:00-7:00	56.2	47.9	60.2	58.6	56.7	57.1
7:00-8:00	47.2	45.2	68.2	50.4	50.8	60.1
8:00-9:00	58.6	44.3	64.5	48.7	47.5	47.9
9:00-10:00	47.5	65.8	61.8	60.2	44.3	45.8
10:00-11:00	65.1	53.2	65.2	68.1	60.5	51.0
11:00-12:00	44.2	50.6	60.4	45.2	68.4	44.9
12:00-13:00	60.1	48.8	58.2	56.8	48.2	48.5
13:00-14:00	55.6	60.8	55.4	40.2	55.5	56.3
14:00-15:00	60.1	55.6	52.4	55.4	58.4	65.4
15:00-16:00	48.8	60.1	50.3	46.8	46.8	42.8
16:00-17:00	50.0	44.2	56.7	50.9	50.7	53.4
17:00-18:00	53.1	65.1	58.6	54.6	57.4	57.2
18:00-19:00	65.2	47.1	52.1	58.4	54.6	45.8
19:00-20:00	44.2	58.7	56.1	47.8	48.7	52.6
20:00-21:00	45.2	47.2	54.6	52.6	51.8	50.0
21:00-22:00	47.8	56.1	53.1	44.4	42.4	46.9

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	12-10-2019 & 13-10-2019	13-11-2019 & 14-11-2019	13-12-2019 & 14-12-2019	13-01-2020 & 14-01-2020	14-02-2020 & 15-02-2020	13-03-2020 & 14-03-2020
22:00-23:00	58.0	58.2	44.2	49.7	61.5	65.4
23:00-00:00	60.4	60.7	48.3	52.8	46.3	43.8
00:00-01:00	55.6	64.2	40.3	53.4	53.4	54.2
01:00-02:00	53.8	54.2	58.1	46.1	59.5	59.2
02:00-03:00	42.7	40.6	50.0	59.4	42.3	49.5
03:00-04:00	62.8	64.7	55.8	58.7	47.3	55.4
04:00-05:00	51.4	51.7	51.2	42.9	51.3	58.1
05:00-06:00	58.8	59.4	56.2	45.4	49.6	41.9

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

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

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



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Tables - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	14-10-2019	14-11-2019	14-12-2019	14-01-2020	15-02-2020	14-03-2020
6:00-7:00	65.1	51.8	64.8	61.2	44.7	51.5
7:00-8:00	51.2	54.2	60.3	57.3	50.1	58.6
8:00-9:00	40.8	53.9	58.3	50.0	47.6	45.8
9:00-10:00	53.5	49.1	51.4	48.3	51.2	48.5
10:00-11:00	69.1	57.1	56.6	60.3	58.8	60.1
11:00-12:00	62.2	61.8	59.7	56.4	56.3	50.1
12:00-13:00	55.3	42.3	61.1	45.6	44.5	44.9
13:00-14:00	50.6	46.8	51.7	58.3	56.0	54.2
14:00-15:00	46.2	50.9	55.3	46.4	44.9	47.8
15:00-16:00	42.8	53.3	57.4	48.6	40.8	58.1
16:00-17:00	61.1	62.5	65.8	54.3	55.1	53.2
17:00-18:00	57.2	69.1	60.1	47.9	53.8	65.0
18:00-19:00	49.1	53.1	58.2	52.4	47.3	61.0
19:00-20:00	53.9	41.3	51.9	65.3	52.2	42.9
20:00-21:00	54.2	51.2	52.6	53.1	60.8	52.5
21:00-22:00	51.6	65.0	50.2	51.3	49.2	57.1

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	14-10-2019 & 15-10-2019	14-11-2019 & 15-11-2019	14-12-2019 & 15-12-2019	14-01-2020 & 15-01-2020	15-02-2020 & 16-02-2020	14-03-2020 & 15-03-2020
22:00-23:00	46.0	46.3	61.3	41.8	47.9	46.8
23:00-00:00	59.3	59.6	44.8	55.6	55.4	55.5
00:00-01:00	50.1	50.5	58.1	44.1	60.6	68.2
01:00-02:00	57.3	57.8	51.3	52.6	45.7	65.1
02:00-03:00	58.1	58.8	47.6	49.1	44.3	48.9
03:00-04:00	40.6	41.2	63.1	54.4	51.9	51.7
04:00-05:00	54.6	54.9	60.6	46.2	54.3	57.3
05:00-06:00	51.3	51.9	58.2	48.8	43.6	59.5

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

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



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Tables - 13 - Rock Bond Approach (Jetty) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	15-10-2019	15-11-2019	16-12-2019	15-01-2020	17-02-2020	16-03-2020
6:00-7:00	50.6	48.2	50.3	51.8	56.5	56.1
7:00-8:00	42.8	62.3	54.8	45.3	58.7	58.1
8:00-9:00	58.6	64.4	60.4	58.7	40.9	55.0
9:00-10:00	47.4	50.8	68.3	47.3	54.4	60.1
10:00-11:00	48.5	52.2	64.6	60.5	45.4	57.5
11:00-12:00	43.4	67.2	56.3	55.3	49.8	54.2
12:00-13:00	67.1	46.6	59.5	45.1	61.2	47.9
13:00-14:00	53.8	66.1	64.9	47.5	48.9	44.4
14:00-15:00	66.1	53.8	61.2	66.3	50.0	51.2
15:00-16:00	42.3	67.6	60.7	65.7	56.1	45.8
16:00-17:00	67.1	45.8	59.3	40.3	58.2	61.2
17:00-18:00	46.6	48.6	55.1	56.2	59.1	68.1
18:00-19:00	50.1	47.4	52.3	44.8	42.7	44.9
19:00-20:00	56.4	58.1	54.7	58.9	44.6	48.3
20:00-21:00	62.3	45.3	52.7	50.3	45.8	50.1
21:00-22:00	47.8	50.5	50.7	41.8	54.2	58.2

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	15-10-2019 & 16-10-2019	15-11-2019 & 16-11-2019	16-12-2019 & 17-12-2019	15-01-2020 & 16-01-2020	17-02-2020 & 18-02-2020	16-03-2020 & 17-03-2020
22:00-23:00	50.4	50.8	52.3	48.4	54.9	60.5
23:00-00:00	53.3	53.8	50.1	48.0	51.7	59.3
00:00-01:00	52.7	57.2	48.6	47.7	46.2	47.9
01:00-02:00	59.9	60.9	44.8	54.6	48.3	45.6
02:00-03:00	63.6	63.5	43.3	44.5	50.1	50.8
03:00-04:00	48.8	49.3	61.2	64.3	60.2	52.3
04:00-05:00	53.4	54.3	60.5	48.2	45.9	60.6
05:00-06:00	38.9	44.3	56.1	43.5	53.0	44.9

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

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



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Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	16-10-2019	16-11-2019	17-12-2019	16-01-2020	18-02-2020	17-03-2020
6:00-7:00	52.4	52.7	52.2	46.9	61.4	48.9
7:00-8:00	50.8	50.7	50.6	60.8	50.3	45.6
8:00-9:00	47.2	49.8	65.7	48.5	48.6	58.1
9:00-10:00	62.6	46.3	69.7	64.1	45.8	56.2
10:00-11:00	47.8	42.8	65.1	44.2	55.4	68.1
11:00-12:00	59.2	61.1	55.2	54.8	57.5	50.0
12:00-13:00	55.4	44.6	58.7	47.4	60.1	58.1
13:00-14:00	68.6	46.4	52.1	48.8	44.9	44.5
14:00-15:00	46.6	68.1	62.4	52.8	47.9	47.9
15:00-16:00	44.8	55.0	64.7	50.8	57.9	51.2
16:00-17:00	61.1	59.8	61.8	55.1	59.2	55.3
17:00-18:00	42.6	47.3	54.3	65.4	54.3	58.4
18:00-19:00	46.4	62.1	52.6	70.1	55.0	42.8
19:00-20:00	49.2	47.8	50.4	48.4	49.9	49.8
20:00-21:00	50.0	50.2	49.3	50.1	52.0	52.8
21:00-22:00	52.6	52.6	51.3	52.3	54.8	54.1

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	16-10-2019 & 17-10-2019	16-11-2019 & 17-11-2019	17-12-2019 & 18-12-2019	16-01-2020 & 17-01-2020	18-02-2020 & 19-02-2020	17-03-2020 & 18-03-2020
22:00-23:00	47.3	47.9	60.1	51.4	40.8	47.7
23:00-00:00	58.9	59.1	58.1	45.8	48.9	51.0
00:00-01:00	61.9	62.3	46.2	69.1	50.9	48.2
01:00-02:00	42.1	42.6	44.2	45.5	56.3	50.9
02:00-03:00	64.9	65.4	51.3	55.9	60.9	55.9
03:00-04:00	68.3	67.9	61.3	44.8	55.9	56.9
04:00-05:00	64.6	65.6	48.2	65.8	47.4	57.6
05:00-06:00	60.0	60.0	50.1	55.8	44.8	60.7

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

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



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Tables - 15 - Security Barrier Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	17-10-2019	18-11-2019	18-12-2019	17-01-2020	19-02-2020	18-03-2020
6:00-7:00	47.5	50.1	67.5	45.5	48.8	60.1
7:00-8:00	58.2	57.2	66.1	48.2	51.2	61.2
8:00-9:00	67.7	59.1	60.3	58.1	56.4	47.9
9:00-10:00	48.6	49.2	65.1	47.2	53.1	58.1
10:00-11:00	50.1	51.6	59.7	65.1	43.2	60.1
11:00-12:00	52.4	48.7	58.8	66.1	42.9	48.2
12:00-13:00	46.8	60.0	61.8	50.2	53.6	58.1
13:00-14:00	44.2	52.8	63.4	55.2	47.8	55.3
14:00-15:00	51.6	44.8	59.4	51.4	61.0	45.9
15:00-16:00	60.3	46.2	60.4	60.1	58.1	42.9
16:00-17:00	48.8	52.3	68.1	68.2	55.6	53.3
17:00-18:00	51.6	50.3	65.7	45.8	68.1	57.1
18:00-19:00	49.2	48.4	58.7	47.1	52.3	58.1
19:00-20:00	59.9	67.1	55.2	58.2	61.1	60.1
20:00-21:00	57.2	58.2	52.4	52.7	42.8	51.2
21:00-22:00	50.1	47.6	51.2	62.2	57.1	52.3

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	17-10-2019 & 18-10-2019	18-11-2019 & 19-11-2019	18-12-2019 & 19-12-2019	17-01-2020 & 18-01-2020	19-02-2020 & 20-02-2020	18-03-2020 & 19-03-2020
22:00-23:00	56.0	56.6	50.1	47.4	55.2	45.5
23:00-00:00	59.6	60.1	61.2	53.8	51.6	61.1
00:00-01:00	64.8	65.7	60.1	65.2	45.6	50.0
01:00-02:00	55.1	56.0	48.8	52.1	56.1	53.6
02:00-03:00	60.9	61.5	40.6	51.1	46.7	42.4
03:00-04:00	51.6	51.6	58.1	56.5	50.0	49.0
04:00-05:00	49.0	49.8	47.2	41.9	52.4	61.1
05:00-06:00	42.3	44.6	48.1	49.8	49.1	57.2

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

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



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Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	18-10-2019	19-11-2019	19-12-2019	18-01-2020	20-02-2020	19-03-2020
6:00-7:00	54.6	55.3	68.4	60.2	51.6	51.2
7:00-8:00	55.6	59.4	60.8	48.3	61.4	58.1
8:00-9:00	42.6	50.7	65.3	45.2	45.7	60.1
9:00-10:00	45.3	51.9	61.4	55.3	50.3	47.9
10:00-11:00	57.2	60.4	59.1	53.3	47.6	45.9
11:00-12:00	48.8	46.6	53.1	51.4	51.7	55.6
12:00-13:00	46.9	50.3	58.6	65.9	55.4	50.3
13:00-14:00	52.4	56.6	65.1	48.2	56.4	56.0
14:00-15:00	56.6	52.3	60.1	60.1	49.8	57.2
15:00-16:00	50.2	46.9	59.4	44.2	52.4	42.9
16:00-17:00	46.6	48.8	54.8	48.8	47.4	49.5
17:00-18:00	60.1	57.5	55.3	50.4	51.5	54.8
18:00-19:00	51.4	45.4	50.2	55.4	57.8	56.2
19:00-20:00	50.5	42.9	48.1	44.9	44.5	45.8
20:00-21:00	59.4	55.7	45.3	51.9	53.5	40.9
21:00-22:00	50.2	50.9	44.2	50.6	50.8	65.3

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	18-10-2019 & 19-10-2019	19-11-2019 & 20-11-2019	19-12-2019 & 20-12-2019	18-01-2020 & 19-01-2020	20-02-2020 & 21-02-2020	19-03-2020 & 20-03-2020
22:00-23:00	54.8	55.4	48.2	65.1	61.2	54.7
23:00-00:00	53.0	53.5	40.1	59.1	52.5	37.0
00:00-01:00	50.3	60.3	61.2	58.2	58.3	61.5
01:00-02:00	39.6	40.2	60.3	50.3	56.7	47.2
02:00-03:00	58.7	59.3	44.8	61.2	45.1	56.7
03:00-04:00	55.8	57.5	51.1	48.9	48.2	43.1
04:00-05:00	51.1	57.0	46.2	50.1	51.1	45.8
05:00-06:00	53.9	53.9	50.3	53.2	59.2	50.1

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

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



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Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	19-10-2019	20-11-2019	20-12-2019	20-01-2020	21-02-2020	20-03-2020
6:00-7:00	51.4	58.7	70.8	50.7	56.8	58.1
7:00-8:00	60.1	54.4	66.3	46.4	49.2	47.9
8:00-9:00	55.6	55.9	63.8	53.8	48.9	42.8
9:00-10:00	46.4	58.1	68.8	58.1	55.2	55.3
10:00-11:00	47.2	48.6	61.3	62.6	59.8	48.4
11:00-12:00	57.1	43.5	65.1	58.3	45.4	56.2
12:00-13:00	61.4	54.2	59.1	44.6	44.7	60.1
13:00-14:00	58.2	51.8	56.7	48.7	55.6	58.1
14:00-15:00	50.2	58.3	51.8	56.4	50.7	65.1
15:00-16:00	54.2	61.2	50.1	52.3	50.4	44.9
16:00-17:00	43.3	57.3	55.3	59.1	46.9	49.9
17:00-18:00	48.6	47.9	58.2	41.8	56.7	50.0
18:00-19:00	58.1	46.4	60.4	59.4	40.9	53.1
19:00-20:00	50.0	55.4	56.4	56.8	43.9	57.3
20:00-21:00	54.4	60.2	53.8	47.2	53.2	46.4
21:00-22:00	58.1	51.4	50.6	41.6	56.5	51.0

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	19-10-2019 & 20-10-2019	20-11-2019 & 21-11-2019	20-12-2019 & 21-12-2019	20-01-2020 & 21-01-2020	21-02-2020 & 22-02-2020	20-03-2020 & 21-03-2020
22:00-23:00	45.4	45.8	40.3	50.2	54.2	61.2
23:00-00:00	57.6	58.0	48.2	40.1	48.1	56.0
00:00-01:00	60.8	61.0	51.4	68.1	44.9	57.1
01:00-02:00	44.6	42.8	56.8	42.8	50.3	61.4
02:00-03:00	54.9	59.5	60.1	55.1	59.1	46.2
03:00-04:00	42.6	55.7	52.6	60.9	60.1	50.5
04:00-05:00	59.7	60.5	48.6	45.9	55.8	47.8
05:00-06:00	59.8	55.5	45.2	54.8	47.2	42.8

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

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



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Tables -18 - S and S Yard (South) and Open Storage Yard – 1 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	21-10-2019	21-11-2019	21-12-2019	21-01-2020	22-02-2020	21-03-2020
6:00-7:00	58.4	50.8	66.2	46.8	44.6	65.1
7:00-8:00	46.2	61.4	68.3	42.3	61.8	58.2
8:00-9:00	55.1	59.3	62.1	54.4	51.9	47.8
9:00-10:00	47.2	49.6	63.1	55.1	56.1	45.6
10:00-11:00	51.6	45.8	65.4	59.6	42.3	57.1
11:00-12:00	60.2	68.1	60.9	47.9	50.5	55.2
12:00-13:00	57.1	50.2	58.1	44.5	45.8	44.8
13:00-14:00	53.6	48.2	56.3	68.3	49.7	53.1
14:00-15:00	47.2	43.8	59.1	52.1	52.6	57.1
15:00-16:00	50.3	57.1	58.9	56.9	47.2	61.2
16:00-17:00	68.1	60.1	55.8	50.5	51.3	60.0
17:00-18:00	45.6	51.6	59.2	48.9	57.6	47.9
18:00-19:00	49.8	47.4	57.4	51.1	44.3	56.1
19:00-20:00	58.1	55.0	55.7	62.3	49.1	50.1
20:00-21:00	61.4	46.2	52.8	51.2	58.2	46.9
21:00-22:00	50.8	58.9	50.8	49.2	53.4	49.1

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	21-10-2019 & 22-10-2019	21-11-2019 & 22-11-2019	21-12-2019 & 22-12-2019	21-01-2020 & 22-01-2020	22-02-2020 & 23-02-2020	21-03-2020 & 22-03-2020
22:00-23:00	59.4	59.8	62.8	64.1	50.4	47.1
23:00-00:00	63.5	63.8	60.1	48.6	55.1	68.1
00:00-01:00	59.2	59.7	48.8	53.5	53.6	58.2
01:00-02:00	52.1	52.7	47.6	47.6	42.9	56.1
02:00-03:00	45.1	43.6	55.2	56.0	46.6	55.3
03:00-04:00	49.7	67.3	51.2	60.5	57.1	42.9
04:00-05:00	57.5	57.9	46.4	56.7	57.2	55.0
05:00-06:00	50.2	50.9	53.1	46.8	48.8	49.1

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

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



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Tables -19 -S & S Yard (North) Boundary Wall Loco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	22-10-2019	22-11-2019	23-12-2019	22-01-2020	24-02-2020	23-03-2020
6:00-7:00	47.4	55.1	69.1	50.1	48.2	50.1
7:00-8:00	57.1	53.8	65.1	55.9	55.3	58.2
8:00-9:00	51.1	56.1	68.1	51.5	60.1	61.0
9:00-10:00	50.6	48.9	70.3	48.4	58.7	65.1
10:00-11:00	69.1	42.6	58.2	47.8	45.6	68.2
11:00-12:00	48.6	54.6	60.8	53.9	55.1	55.3
12:00-13:00	42.6	52.4	61.2	49.4	46.9	47.4
13:00-14:00	47.6	50.4	56.1	51.0	44.2	48.5
14:00-15:00	50.1	47.6	54.3	56.3	51.8	57.1
15:00-16:00	52.4	45.5	50.2	53.4	42.8	55.3
16:00-17:00	54.6	48.7	56.3	70.1	58.0	42.9
17:00-18:00	42.4	69.1	51.6	52.8	54.8	45.8
18:00-19:00	48.8	50.5	50.8	68.1	44.9	68.1
19:00-20:00	56.6	51.2	48.2	50.9	51.0	51.0
20:00-21:00	53.2	57.2	53.1	45.2	47.8	54.1
21:00-22:00	55.1	47.2	49.2	40.8	50.1	57.2

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	22-10-2019 & 23-10-2019	22-11-2019 & 23-11-2019	23-12-2019 & 24-12-2019	22-01-2020 & 23-01-2020	24-02-2020 & 25-02-2020	23-03-2020 & 24-03-2020
22:00-23:00	56.8	55.6	55.3	56.1	60.0	52.1
23:00-00:00	66.9	67.0	53.9	46.6	52.8	50.6
00:00-01:00	56.9	57.6	47.4	44.6	48.4	48.1
01:00-02:00	68.4	68.8	50.1	60.1	49.6	55.1
02:00-03:00	41.2	39.6	58.1	62.3	58.1	51.2
03:00-04:00	64.5	65.2	44.2	45.6	46.8	40.9
04:00-05:00	65.0	65.3	56.2	40.2	56.0	54.3
05:00-06:00	55.5	56.1	61.1	63.1	54.1	60.1

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

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



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Tables - 20 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2019 to March 2020

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	23-10-2019	23-11-2019	24-12-2019	23-01-2020	25-02-2020	24-03-2020
6:00-7:00	57.4	45.3	71.6	55.0	51.2	61.0
7:00-8:00	50.6	54.3	69.8	48.6	55.8	47.9
8:00-9:00	61.1	44.4	65.1	50.3	61.1	45.8
9:00-10:00	47.3	57.6	67.9	47.4	48.4	55.6
10:00-11:00	44.8	47.8	63.1	55.2	44.8	48.1
11:00-12:00	46.6	55.2	61.2	44.8	52.8	56.1
12:00-13:00	50.2	50.1	68.7	42.9	49.9	49.8
13:00-14:00	62.3	48.3	66.8	61.1	52.1	53.1
14:00-15:00	42.3	52.2	58.4	46.6	46.6	58.1
15:00-16:00	50.4	52.9	60.3	59.2	41.9	42.8
16:00-17:00	55.2	46.7	59.1	62.1	54.1	47.9
17:00-18:00	47.8	44.9	62.2	45.9	47.5	50.1
18:00-19:00	44.4	47.3	54.1	51.6	53.1	53.8
19:00-20:00	57.6	63.9	52.7	53.7	56.2	47.4
20:00-21:00	41.2	50.6	58.1	56.9	51.4	51.2
21:00-22:00	54.3	57.4	50.4	48.1	52.0	55.0

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	23-10-2019 & 24-10-2019	23-11-2019 & 24-11-2019	24-12-2019 & 25-12-2019	23-01-2020 & 24-01-2020	25-02-2020 & 26-02-2020	24-03-2020 & 25-03-2020
22:00-23:00	61.4	62.2	51.2	47.8	61.3	47.4
23:00-00:00	56.1	56.2	55.3	53.1	47.8	55.6
00:00-01:00	40.7	43.5	47.2	40.8	44.6	48.3
01:00-02:00	56.2	56.8	42.8	52.3	58.7	57.8
02:00-03:00	52.6	52.9	55.6	60.2	52.9	50.3
03:00-04:00	58.5	59.0	42.3	49.2	55.6	53.9
04:00-05:00	55.5	61.3	52.8	51.3	49.8	46.0
05:00-06:00	57.8	58.6	50.7	56.2	45.8	40.6

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

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



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

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October-19 to March-20

Sr. No.	Parameters	Unit	DG Set # 1 MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3 Marine (SS8)		DG Set # 4 Silo (SS11)	
			NOV-19	FEB-20	NOV-19	FEB-20	NOV-19	FEB-20	NOV-19	FEB-20
1	Particulate Matter	mg/Nm ³	24.86	18.76	22.36	20.82	18.61	22.65	20.76	15.37
2	Sulphur Dioxide	ppm	8.12	7.85	6.29	5.2	7.73	8.57	5.25	4.77
3	Oxide of Nitrogen	ppm	40.31	32.73	34.6	32.83	31.82	35.44	37.48	30.62
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide (CO)	mg/m ³	3.44	9.64	6.03	6.87	4.74	8.44	2.33	6.13

Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: October-19 to March-20

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
	Sampling Date	NOV-19	FEB-20
1.	DG Set # 1MRSS (SS5)	70.2	68.4
2.	DG Set # 2 SS7B	69.6	67.5
3.	DG Set # 3Marine (SS8)	71.8	72.6
4.	DG Set # 4Silo (SS11)	72.7	73.4



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Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., March -2020

S. No.	EMP Conditions	Compliance Status
A.	ENVIRONMENTAL MANAGEMENT PLAN (CONSTRUCTION PHASE)	
1.1	Air Quality Management Plan	
	Dust suppression systems will be installed for fugitive dust emission control while undertaking civil works.	Complying with. Water sprinkler and mist canon is being used to suppress the fugitive dust during construction activity.
	Regular wetting of roads will be undertaken on the paved and unpaved artillery roads.	Complying with. Regular wetting of roads is undertaken on the paved and unpaved arterial roads.
	Vehicle tyre washing facilities will be provided at the entrance to prevent spillover of dust sticking on tyre outside the facility.	Complied Vehicle tyre washing system has been provided.
	Construction materials kept in open area will be provided with barrier in order to prevent wind carryover of dust.	Complying with. Construction material is being kept in a secure area.
	Construction materials transportation in and outside the port will be appropriately covered to prevent fugitive dust emissions.	Complying with. Material transportation is being done through trucks covered with tarpaulin.
	Civil and Mechanical fabrication works will be carried out within the port facility at an appropriate location to avoid impact on the local air quality at project construction site.	Complying with. Civil and Mechanical fabrication is being done within the port premises.
	All construction equipment's at site will be subjected to regular maintenance to minimize the vehicle exhaust.	Complying with. All vehicles are being regularly maintained to minimize the vehicle exhaust.
	All trucks deployed at site will be a provided with fitness and pollution under control certificate.	Complying with. All vehicles are being checked for PUC.
	DG set with appropriate stack height as per CPCB guidelines for effective dispersion of pollutants shall be provided.	Complying with. All DG sets (standby source) are provided with stack height in compliance to the CPCB standards.
1.2	Noise Quality Management Plan	
	DG set with acoustic enclosure will be installed for power supply to construction activities.	Complying with. All DG sets (standby source) are provided with acoustic enclosures.
	All high decibel noise generating equipment's should be repaired to meet the compliance noise level.	Complying with. Noise generating equipment's are provided with acoustic enclosures.
	No activity involving with high intensity and magnitude of operation should be deployed. Silencers will be provided in Vehicle exhaust.	Complying with. <ul style="list-style-type: none"> All construction and operation activities are in compliance with the Noise level Norms. Monitoring of noise level is being done by M/s Pollucon Laboratories, NABL accredited and MoEF&CC recognized laboratory. Monitoring reports are presented in the Annexure 3G.

S. No.	EMP Conditions	Compliance Status
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none"> There is no occasion till date for exceeding the noise level at the port boundary. Persons working in the fabrication yard are provided with PPEs.
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipment's are provided with acoustic enclosures.
1.3	Sewage Management Plan	
	Sewage generated from the construction site will be treated in existing STP of 27 m ³ capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October 2019 to March 2020 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	Complying with. All dust control systems are maintained and operating well.

S. No.	EMP Conditions	Compliance Status
	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	
	At coal stack yard, 100 sprinklers have been installed to control fugitive coal dust emissions. At a time 4 sprinklers will be operated and consumes water around 3600 LPM. Similarly, for the proposed expansion of port from 11.7 to 23 MMTPA such a robust DFDS and Sprinklers will be installed and maintained with maximum efficiency.	Complying with. <ul style="list-style-type: none"> At coal stack yard, 100 sprinklers are maintained and operating well. Pavement of the additional storage area is completed. Installation of water sprinklers and other DSS measures will be complete before storage of coal.
	To prevent wind carryover of dust from coal stack yard, wind barrier have been erected around the coal stock pile area at a height of 14m from the ground level. The wind barrier is of galvanized sheet with perforated holes to withstand high velocity wind has been fitted in the structural beams and erected in solid foundation thereby effectively control the wind carryover of dust from the stock piles.	Shall be complied. Wind breaker of the same specification shall be provided in the additional storage area once completed.
	Road sweeping of dust is being undertaken using mobile van thereby preventing settled dust gets airborne due to movement of vehicles and high wind velocity and the same is recommended	Complying with. Two dust sweeping machines (mobile van) are working at site.
	High capacity vacuum cleaning machine installed at mobile truck is deployed for removal of dust settled on roads and the same practices will be implemented in the proposed project.	
	Regular wetting of the roads is undertaken through dedicated truck mounted spray arrangement with least water consumption. The same will be implemented in the proposed activities.	Complying with. Sprinkling of water is being done on the roads to control the dust.
2.2	Noise Control Management Plan	
	High speed rotating equipments such as gantry cranes motors, hydraulic systems will be installed within-built acoustic systems to maintain the noise decibel as per the manufacturer specifications	Shall be complied. Mechanization of the south jetty is yet to be done.
	DG sets installed in open area will be provided with acoustic enclosure	Complying with. DG sets installed in open area will be provided with acoustic enclosure
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	Complying with. Compressor and DG sets are installed in separate building and provided with acoustic enclosures.
	Movement of vehicles within the port will be restricted with speed control measures	Complying with. <ul style="list-style-type: none"> Speed is limited within the port premises. Proper signage also provided within the premises.

S. No.	EMP Conditions	Compliance Status
	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 19.3894 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 anchored for collection of waste due to windblown in to the sea.	Complying with. A waste management plan is in place and a boat is provided to collect the waste blown due to high wind into the sea.
	In addition to the plan, the wastes that are expected to be generated will be disposed accordingly. The hazardous waste generated from the port operation will be disposed as per the HWM Rules 2008.	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	Complying with.

S. No.	EMP Conditions	Compliance Status					
	project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	Three tier Green belt is being developed in an area of 19.3894 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 	<p>Complied.</p> <p>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>					
	<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 						
	<p>Economic Development Programs</p> <ul style="list-style-type: none"> ✓ Knowledge centre regarding various government schemes and latest technology ✓ Skill Development Training Programs 						
	<p>Women Empowerment</p> <ul style="list-style-type: none"> ✓ Sanitation Promotion Programs ✓ Construction and Maintenance of Sanitation complex ✓ Awareness Programs 						
	<p>Infrastructure development Programs</p> <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> </tbody> </table>		S. No.	Village	Programs	1.	Luvara
S. No.	Village	Programs					
1.	Luvara	Developing proper drainage system in the village.					

S. No.	EMP Conditions			Compliance Status
	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.	
	10.	Jageshwar	Providing training programs on latest technology of fishing, free fishing equipments and providing vocational training programme for alternate income source.	
	2.8	Environmental Management Cell		
	APPPL has already established and maintained an Environmental Management Cell (EMC) with Head of Department (EHS), supported by field level executives and horticulturist for implementation of the compliance conditions as per Environmental Clearance obtained and GPCB Consent Conditions. Periodical monitoring activities are being undertaken by MoEF recognized and NABL accredited environmental laboratories. Environmental compliance reports are regularly submitted to MoEF regional office, Vadodara and New Delhi.			Complied. APDPPL has a well structured Environment Management Cell with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 7.
	EMC will be further strengthened in view of the proposed expansion by augmenting resources such as manpower and field equipments, for effective compliance of environmental clearance conditions. Environmental monitoring program will be undertaken by MoEF recognized and NABL accredited environmental laboratories as part of compliance report preparation and its			

S. No.	EMP Conditions	Compliance Status
	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.	<p>Complied.</p> <p>Separate budget is allocated for Environmental Management and Socio Economic activities.</p> <ul style="list-style-type: none"> • Key components of environment budget are environmental Monitoring, STP's (O&M), Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2019-20 was approx. Rs. 407.26lacs. Details of the environmental budget and expenditure for the period October 2019 to March 2020 is enclosed as Annexure – 6.

Annexure - 5 Green Zone Details - APDPPL,Dahej

Sr.no.	Location	Area in (Hect.)	Tree (No.)	Tree Spp.	Shrubs (Sq. Mt.)	Green Carpet (Sq.Mt.)	Palm	Remarks	FY
1	PMC office area Landscape / old pump house /Road side	0.45	500	Delonix regia/ Peltoforum /casurina (3 x3 m)	1000	1500	25	Implemented	2010-11
		0.23	250	Cassia semia/peltoforum/conocarpus (3 x3 m)					
		0.20	450	Coconut spp./ fruit trees / Dragon fruit /boganvallia (1.5 x 3 m)					
	Back side lakhibaba temple &Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia (1.5x 2 m)	0	0			
	Back side lakhibaba temple &Boundry site plantation (phase -1 a)	0.27	600	Casurina Equisitifolia (1.5x 3 m)	0	0	0	Implemented	2011-12
	Total	1.54	3100		1000	1500	25		
2	Gcptcl boudry wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia (1.5x 1.5 m)				Implemented	2011-12
	APPPL office area (SS-7)	0.32	400	Delonix regia /peltoforum/conocarpus/neem (2x4 m)	800	8000	200	Implemented	
	Gcptcl boudry wall site plantation (phase-1 a)	0.11	500	eucalyptus/ conocarpus (1.5x 1.5 m)	0	0	0	Implemented	
	Total	1.78	6900		800	8000	200		
3	LNG Site Boundry wall site plantation	0.90	4000	Casurina Equisitifolia /conocarpus(1.5x 1.5 m)	0		500	Implemented	2012-2013
4	Stack yard	0.68	3000	Casurina Equisitifolia/Eucalyptus /conocarpus(1.5x 1.5 m)	0	0	0	Implemented	
	Total	1.58	7000		0	0	500		
5	Road site Avenue tree plantation	0.68	1500	Casurina Equisitifolia/Conocarpus (1.5x 3 m)	3000	200	200	Implemented	2013-2014
		1.44	1600	Conocarpus (3x3 m)					
		0.90	1500	Conocarpus (2x3m)					
	Total	3.02	4600.00		3000	200	200		
6	Main gate Area Perifery /EHS/Road side	0.24	525.00	Casurina Equisitifolia (1.5x 3 m)	3450	2500		Implemented	2014-15 2015-16
		0.35	220.00	Conocarpus (4x4 m)				Implemented	
		0.23	500.00	Golden Bamboo (1.5x 3 m)				Implemented	
		0.60	500	Azardirecta indica /peltoforum/ Casurina (3x 4 m)				Implemented	
		0.256	320	Conocarpus /Casurina/forest trees (2x4 m)				Implemented	
		0.324	810	Conocarpus /Casurina (2x 2 m)				Implemented	
	Total	2.0	2875.0		3450	2500	0		
7	Coal yard area /Railway yard	0.15	255	Conocarpus /Casurina (2x 3 m)	0	0			2016-17 2017-18
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x1.5 m)	0	0	2000	Implemented	
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x 1.5m)		0		Implemented	
		2.40	10255.00		0	0			
	Permenant Godown area	0.36	1380	Shrubs and forest tree plantation	1500	2100	100	Implemented	2018-19
	Coal Yard Area	1.14	2861	Conocarpus /Casurina (2x 2 m)	1200	0	0	Implemented	
	Perifery road side	0.68	3000	eucalyptus /conocarpus(1.5x 1.5 m)	0	0		Implemented	
	Total	2.18	7241.00		2700.00	2100.00	2000.00		
8	Near J10 Junction	0.05	120	Conocarpus /Casurina (1 x 1 m)					2019-20
	Sea side New Development	0.27	1480	eucalyptus /conocarpu/ Bouganvallia/ shrubs (1x 1 m)	500				
	Marine Police Station	0.17	250	Azardirecta indica /peltoforum/ Casurina (3x 4 m)	200				

	Old pump house /silo area	0.11	480	Azardirecta indica /peltoforum/ Casurina (1.5x 1.5 m)					
	Port Yard Area	0.12	400	eucalyptus /conocarpus(0.80x 0.80m)					
	Ramji Temple Area / Lakhigam school	0.49	820	Azardirecta indica /peltoforum/ Casurina/conocarpus					
	Total	1.21	3550						
Trees Total Green Zone Area (Ha)		15.694450	45521.00		10950.00	14300.00	2925.00		
Shrub/carpet /palm Total Green Zone Area (Ha)		3.695			1.095	1.43	1.17		
Total Green Zone Area (Ha)		19.38945							

Annexure – 6: Environment Budget and Expenditure for the FY: 2019-2020

S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	EHS Manpower	7.12	3.56
2.	Legal & Statutory Expenses	2.00	0.20
3.	Environmental Monitoring Services	23.10	9.78
4.	Cost for Water Consumption and use dust suppression	61.20	35.84
5.	Hazardous Waste Management & Disposal	3.00	2.12
6.	Greenbelt Development and Plantation	50.59	20.00
7.	O&M of Sewage Treatment Plant	7.05	2.79
8.	Environment Day Celebration	0.50	0.00
9.	Treatment and Disposal of Bio-Medical Waste	1.92	0.96
10.	Operation and Maintenance of Road Cleaning equipment and manpower	45.66	17.97
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	83.98	32.81
12.	Marine Ecology / Shoreline Monitoring	15.0	10.35
13.	Ergonomics and Health-hygiene Survey	1.50	0.0
14.	Environmental Study / Audit and Consultancy (Biodiversity – First Season Study)	15.0	9.18
15.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	27.14	13.57
TOTAL AMOUNT (IN LACS)		344.76	159.13

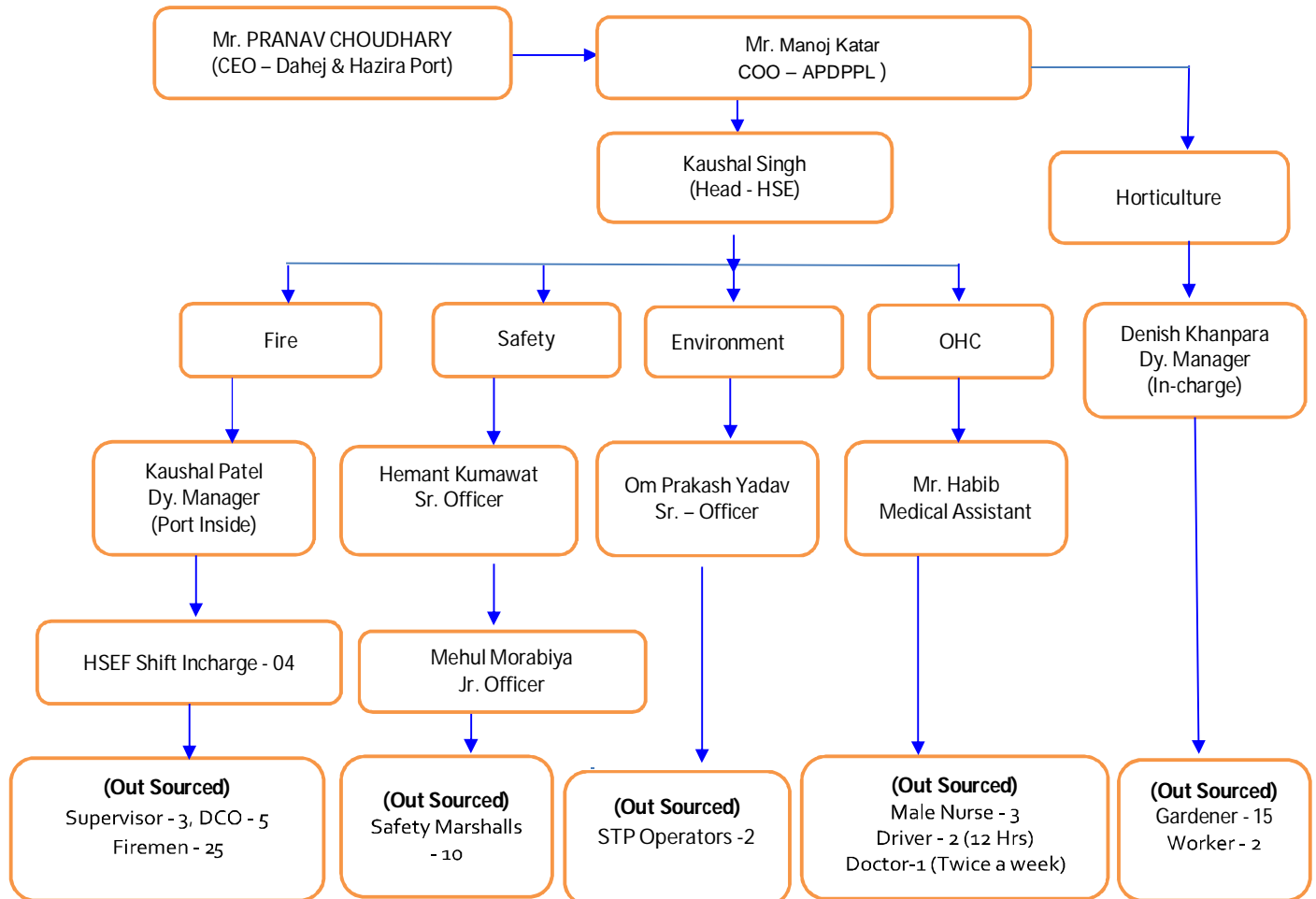
CAPITAL EXPENDITURE			
S. NO.	ACTIVITY/ CATEGORY	BUDGET (IN LAC)	EXPENDITURE (IN LAC)
1.	Horticulture Development	22.50	8.00
2.	EHS Display Board	5.00	2.50
3.	Sewage Treatment Plant (STP -50KL (Membrane Biological Reactor (MBR) Technology)	35.00	20.50
TOTAL AMOUNT (IN LACS)		62.50	31.00

TOTAL AMOUNT (IN LACS)	407.26	190.13
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Annexure - 7: Organogram of APDPPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT PVT. LTD.

Department: QHSE Management Cell



Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	13 Years
2.	Denish Khanpara	Dy. Manager (Horticulture)	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	13 Years
3.	Kaushal Patel	Dy. Manager (Fire)	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	15 Years
4.	Hemant Kumawat	Sr. Officer (Safety)	Dip – Mech, Dip. In Fire & Safety, NEBOSH	10.5 Years
5.	Om Prakash Yadav	Sr. Officer (Environment)	M.Sc. Environment Science	6.0 Years
6.	Mehul Morabiya	Jr. Officer	B.Sc. Fire & Safety, Advance Diploma in Industrial Safety, NEBOSH	10 Years

Annexure – 8

Corporate Social Responsibility Report

Half Yearly Report- Adani Port- Dahej (October to March, 2019- 20)

Education

Learning Enrichment Program

Learning Enrichment Program (LEP) implemented by Vidhya Bharati Foundation, Ahmedabad in 8 Govt. schools of Lakhigam, Suva, Luwara, Dahej, Jolwa, Jageshwar and Atali. Objective of this program is to filling the gap of minimum level of learning in Gujarati language and Arithmetic. 350 students of standard 3rd to 5th were enrolled under this program. Life skills training were also imparted to 813 students of std.6th to 8th of these schools.

In Learning Enrichment Program students were categorized into 10 levels as per the guidelines of Gujarat Education Department. Remedial classes, activity based, periodical evaluation & appreciation encouraged students to do better. As a result, out of 180 students enrolled in Gujarati language moved to the next level and in Arithmetic 108 promoted to next level.

No. of students in remedial classes:

Sr.	School	Remedial (Gr. 3 to 5)
1	Dahej Kumar School	22
2	Dahej Girls School	24
3	Primary Mix School, Lakhi village	19
4	Primary Mix School, Luvara	19
5	Primary Mix School, Jageshwar	28
6	Primary school, Jolva	19
7	Primary school, Suva	29
8	Ashramshala, Atali	20
	Total No. of Students	180

S.N	Level	OCT`19	NOV`19	DEC`19	JAN`20	FEB`20	MAR`20
1	0	53	53	31	25	19	19
2	1	46	46	30	29	29	26
3	2	41	40	38	32	23	18
4	3	27	27	33	29	17	16
5	4	9	9	36	19	21	15
6	5	0	0	8	32	23	15
7	6	0	0	1	13	24	11

8	7	0	0	0	0	19	27
9	8	0	0	0	0	4	19
10	9	0	0	0	0	0	10
11	10	0	0	0	0	0	3
12	Main Stream	0	0	0	0	0	0
13	Absent	3	4	2	0	0	0
14	Left	1	1	1	1	1	1
15	Total	180	180	180	180	180	180

ARITHMETIC : PROGRESS OF LEARNING LEVEL

S.N	Level	OCT`19	NOV`19	DEC`19	JAN`20	FEB`20	MAR`20
1	0	129	130	116	95	76	70
2	1	45	45	34	36	34	30
3	2	0	0	18	30	22	13
4	3	0	0	8	12	15	15
5	4	0	0	0	4	22	16
6	5	0	0	0	1	5	12
7	6	0	0	0	0	3	15
8	7	0	0	0	0	1	4
9	8	0	0	0	0	0	2
10	9	0	0	0	0	0	1
11	10	0	0	0	0	0	0
12	Main Stream	0	0	0	0	0	0
13	Absent	5	4	3	1	1	1
14	Left	1	1	1	1	1	1
15	Total	180	180	180	180	180	180

Success Stories:



Teacher, I don't like to study. - Tushar

Tushar is a hyperactive student. He is always found occupying the last benches of the class doing pranks. He was least concerned whether the teacher is present or not, or what is being taught in the

class. He was always busy playing the fool and least interested in studies. Neither does he study nor does he allow anyone else to do so and if he is called he does not respond.

To understand his strange behaviour once I asked him why he does not study. He replied "Teacher, I do not like study." From his reply I realised that the activity called Study did not interest him at all. It was for him real hard work. He was a bundle of energy which is spent having fun. All he was interested was to play mischief all day long enjoying himself and make everyone around him laugh.

To make any changes in students it is important for the teacher to start from the position where the student is and then move forward. Tushar is a student whose existence is to have fun. I realised that if we can introduce the element of fun into studies the teaching game can be won.

From the next class onwards I turned all teaching into games which Tushar and then all his class mates enjoyed. Day by day the students made good progress learning their lesson the "Playing way". Soon all were happy. The students realised that they are indeed "clever" and the teacher was happy for the changes he had made in the student.

Tushar was now, not a back bencher but an active participating student. Beginning with the identification of the alphabet, he gradually began to read, write words, sentences and paragraphs. His mischief making days were over and to everyone's shock he became a lover of studies. The kid who didn't even stand up and speak his name in class, now leads the games and sings the Barakshari. He does homework regularly.

Tushar also find the teacher's new approach to teaching is encouraging. What he could not learn earlier is learnt by him now faster. His class teacher now praises him by saying "Tushar is responding in studies and has become a wise boy".

Due to his participation in various activities in school, the principal has called me during the teachers meet and honoured by three steps clapping.

I said, "Sir, Tushar has played an important role for his own transformation. No one can change without their own acceptance. Many possibilities are hidden and unexplored in him. I request that you come to our class and encourage him. "

When the Principal has praised him in front of class, I saw the expression on his face and remembered his words "Teacher, I don't like to study".

- LEP Teacher

VIRAL



Class of Learning Enrichment Program started at school. The 'PRIYA (favourite)' students (Weak in academics) playing educational game called 'Khul Ja Sim Sim' with teacher. Viral came to the door and said "Main Aau Teacher?". Teacher said "Why is it late, Son?" Viral said in his Gujarati-Hindi mix language "Mai, Moda Ho Gaya, Teacher" And whole class laughed loudly, Tears were in his eyes because he became fun factor of his class.

Viral is a very sensitive boy, if someone speaks loudly with him, he starts weeping.

Teacher has made the class quiet, called Viral near to her and made him calm with love and asked to the students "Why you all laughed? Then students told "Viral always speaks in Hindi & Gujarati mix". Teacher said "It happens, if somebody belongs to other state and studying in Gujarati School, so those people can't speak properly, there is no point to laugh on it."

Everybody replied, "Teacher, he is Gujarati but because most of the time he is watching Hindi Serials in TV ". Teacher makes viral understand "Beta, we should watch the program which one likes the most. If we watch TV whole day, we can harm our eyes as well as our time. But why is it that you are so late in the class?"

Before Viral say something, all said "He would be drawing picture". Teacher said "Drawing picture? Viral becomes quiet and calm and to say yes nodded his head only. Teacher said "Would you like to draw pictures?" Students said "Yes Teacher, He always draws". Viral gained courage and said "No Teacher, Not all the time but whenever I get the time then only" Teacher said "so, what is wrong in that? This is your own skill. Please show me your pictures"

Viral has opened a treasure trove of pictures from his drawing book. Teacher surprises while observing his art of drawing and passion. Teacher said "Wow, wonderful, how beautiful pictures you can draw!!!, You are so talented my dear son!!!" His sad face became the nail rose with proud smile and said "But Teacher, I do not know to read, write and calculate, I am far behind in the class". Teacher said "Don't worry Beta, Now this is my responsibility, I will teach you everything and you will also draw pictures".

Whole class said "Teacher, secretly, Viral has also drawn your picture". Teacher said, "Wow, let me see Beta". Teacher hugged him by seeing her picture. Then Viral became a regular student of the class and playing all the academic games. At the end of the year Viral learned all the necessary things with his passion of drawing.

On the last day of school, Viral has wrapped a small box of gift from the discarded one, picked up a flower from the garden of school and presented to his teacher. Teacher eagerly opened and looked inside a small box, there is a small eraser, a cartoon portrait of a mischievous child wrapped with dupatta of teacher. And 'THANK YOU TEACHER' was written in a small chit.

Today, Teacher was not in position to control her tears....

- **LEP Teacher**

LIFE SKILL EDUCATION:

Objective:

Under the Learning Enrichment Program, a life-skills and character-building curriculum is running along with remedial education. Including various skills that can withstand practical life challenges, as well as the morale value of being a responsible citizen.

The teacher who is appointed in the school by the institute for remedial teaching education in grades 3 to 5 also teaches a life skill course in the free period to grades 6 to 8. So that the regular course of this standard is not disturbed. Since students are very interested in these various activities and fun way method, there is a willingness in them to participate.

Syllabus & approach of implementation:

This course is designed for students in grades 6 to 8. It includes activity based 30 lessons yearly for each standard. Each term has 15 lessons to teach. There is a total of 90 lessons course for grades 6 to 8.

Life skills have been defined by the World Health Organization (WHO) as “abilities for adaptive and positive behavior that enable individuals to deal effectively with the demands and challenges of everyday life”.

The syllabus is designed based on the following topics:

- Self-Awareness (2)
- Communication (3)
- Problem solving Capability
- Critical Thinking
- Emotional intelligence
- Sensitivity
- Interpersonal relation
- Decision Making
- Creative Thinking
- Stress Management Capability

This course is designed specifically for students in the age group of 10 to 18 years to live a meaningful life as a future citizen. So that they have a sense of purpose, self-esteem, goals, ambition, higher vision etc. towards the country.

There is no specific tool to measure the level of understanding and sensitivity developed in the students. So we have not compelled any examination of it.

No. of Students in Life Skill Education:

Sr.	School	Life Skill (Gr. 5 to 8)
1	Dahej Kumar School	160
2	Dahej Girls School	135
3	Primary Mix School, Lakhi Village	190
4	Primary Mix School, Luvara	84
5	Primary Mix School, Jageshwar	64
6	Primary School , Jolva	61
7	Primary School , Suva	65
8	Ashram School , Atali	54
	Total No. of Students	813

Success Stories:**Teacher, now I don't eat outside food ...**

As a part of Life Skill education course, I taught 3 lessons of 'Eating Habits of Good Food' in Std. 6th.

I observed, a student Vrushali was learning with full of concentration in the class.

A few days later, she meets me in the recess and shows her lunch box. I asked, what is it? She replied, "Teacher, see and have a homemade breakfast. I told my mom that the teacher always tells that if we eat outside food we would get sick. So now my mom makes breakfast every day at home. "

I know that most of the children use to eat packed food available outside the school during the recess like wafers etc.

I was very happy to see the smiley face of Vrushali. I felt that what a positive impact was on an innocent mind by the power of our words.

The Life Skill education creates an understanding of small but meaningful things in our life. In the long term, it forms habit and makes our life very successful.

The motivated face of Vrushali and her trust inspires me towards my work with more enthusiasm.

- LEP Teacher
Kanyashala, Dahej

Harpaksh**An aroma of understanding**

There was a deep thought in my mind that while teaching and learning process of each and every values of life skill education gives me something missing somewhere in my life. Various aspects of value education such as self-awareness, creativity, communication, identifying and bringing out the talent, development of thoughtfulness, etc. taught a lot in life.

Learning was more fun during one-on-one activities than just teaching. I become as curious as children. The petals began to grow from each bud of understanding while thinking with kids about each activity and scent of the floral of understanding began to spread.

A question raised in mind if I learned it in my childhood? But I am blessed because this is not too late.

Harpaksh Lathia, a student of Std.7th who grew up like flower in the garden while conducting the activity. It is felt that his laughter spreads the aroma of understanding. In the activity of each chapter his enthusiastic involvement is very noticeable, He absorbs a lot from small things and one can see it in his behaviour. I have observed expanding horizon of his understanding.

His strong self-confidence, sweet speech with the sense of how much and how to speak and where to keep silence. In front of audience, he can effectively deliver the thoughts with free flow speech.

All of this makes him a winner of the debate competition of Group Schools of Dahej area.

In the primary education, if a child's conceptual power develops the complexity of life become clear. Lead the life with true understanding; he can evaluate himself at each and every step of life.

On behalf of Adani Foundation and Vidyabharti Foundation, when I participate in such activity at School, I feel peace and calm in the stressful life.

- LEP Teacher,

Primary Mishra School, Lakhigam

Glimpses of Life Skill Education:





Teachers Training

07 days training for the teachers conducted during at Kumarshala, Dahej. All the teachers with coordinator have participated with very enthusiasm. The sessions conducted by Mr. Jayesh Rathod and Mrs. Jeeta Trivedi.

. Particulars of Teachers Training:

Sr.	From	To	Days	Participants
1	28-11-2019	30-11-2019	3	9
2	26-02-2020	29-02-2020	4	9
Total Days			7	18

Topics covered:

- New Evaluation System of Remedial Education
- Orientation & Implementation of remedial classes for new teachers
- Syllabus of Life Skill Education Semester 1st & 2nd.
- Orientation of Joyful Learning of Social Science subject.

**JOYFUL LEARNING CAMP:**

Date: 3rd to 7th February , 2020,

Subject: Social Science

Joyful Learning (Fun education) Camp at Government Primary School in Dahej Cluster is organized by Vidyabharti Foundation for the children of grades 6 to 8. This is a one day camp. During 3rd to 7th February, 2020, it was done in 5 schools. Keeping the social science subject as the core part in mind, through various activities in-depth content for understanding the subject was given, so that children would enjoy variety of activities. Activities that develop understanding with fun were organized covering the various lessons of social science from grades 6 to 8.

The students, teachers and principal of every school participated enthusiastically in this camp and responded positively. They too saw flashcards and monitored and appreciated the activity. They said that excellent content of the subject is given in the card. Tough content of activity, maps, sample of things, various educational materials like game and flash card, through the module and techniques of learning the children participated peacefully and learnt a lot of new things. By this way of teaching children could remember for a long time the activities taught to them.

Facilitators of the camp: Jayesh Rathod, **Collaboration:** Ms. Krupali Parmar as well as LEP teacher appointed by the Vidyabharti and Adani Foundation.

Details of the number of children attending the camp and their school name:

No .	Date	Name of the School	Subject	Grade	Number of students
1.	03-02-2020	Ashram school, Atali	Social Science	6,7,8	68
2.	04-02-2020	Primary School, Jolva	Social Science	6,7,8	62
3.	05-02-2020	Primary School, Suva	Social Science	6,7,8	87
4.	06-02-2020	Primary School, Jageshwar	Social Science	6,7,8	74

5.	07-02-2020	Primary School, Luvara	Social Science	6,7,8	63
Total					354

Activities conducted for the different grades:

No.	Std.	Activity
1.	6	Lets play with maps
2.	6	Lets assume
3.	6	Hey there it is!
4.	7	Learn to fill the information
5.	7	Along with time
6.	8	Let's play the court
7.	8	India's today & tomorrow



Community Health

13897 patients were treated at Mobile Healthcare Unit in the period October 2019 to March 2020.

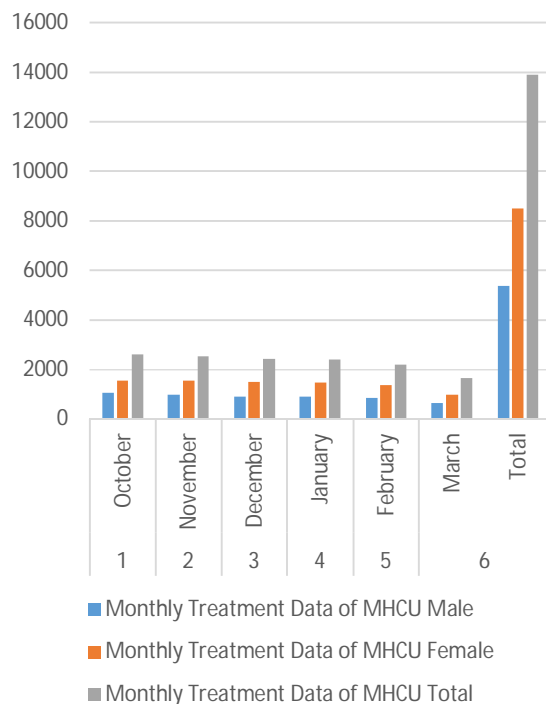
Monthly Treatment Data of MHCU

S.N	Month	Male	Female	Total
1	October	1070	1565	2635
2	November	971	1573	2544
3	December	918	1519	2437
4	January	904	1500	2404
5	February	865	1359	2224
6	March	656	997	1653
	Total	5384	8513	13897

General Health Camp Details

S.N	Village	Month	Total
1	Dahej	October	112
2	Lakhigam	October	25
3	Ashram shala Atali	November	53
4	Dahej	November	76
5	Ambheta	December	60
6	Jageshwar	December	48
7	Dahej	December	40
8	Jolva	January	42
9	Ashram shala Atali	January	52
10	Koliyad	February	48
11	Ashram shala Atali	March	31
	Total		587

Chart Title



Health Awareness Camp Details

S.N	Topic	Village	Date	Participants
1	Arthritis	Dahej	12-10-2019	112
2	Water Borne Diseases	Vengni	16-10-2019	37
3	Water Borne Diseases	Lakhigam	17-10-2019	26
4	Water Borne Diseases	Ambheta	18-10-2019	31
5	Sanitation	Lakhigam	19-10-2019	47
6	other	kaladara	21-10-2019	23
7	other	Jolva	22-10-2019	30
8	Sanitation	Lakhigam	24-10-2019	53
9	Hyper-Tension	kaladara	11-11-2019	31
10	Hyper-Tension	Suva	12-11-2019	42
11	Sanitation	Koliyad	13-11-2019	24
12	Diabetes	Lakhigam	14-11-2019	31

13	Diabetes	Ambheta	15-11-2019	45
14	other	Dahej	30-11-2019	33
15	Sanitation	Ambheta	06-12-2019	40
16	Sanitation	Jageshwar	07-12-2019	48
17	Sanitation	Dahej	28-12-2019	40
18	Sanitation	Jolva	11-01-2020	41
19	Sanitation	Atali Ashram Shala	29-01-2020	98
20	Sanitation	Koliyad	26-02-2020	53
			Total	885

Referral Details

S.N	Month	Total
1	October	58
2	November	14
3	December	14
4	January	10
5	February	10
6	March	5
	Total	111

Specialized Health Camp

A specialized health camp was organized on 9th February, 2020 in Govt. Primary School, Lakhigam. This camp was based on diagnostic pattern of patients treated at Mobile Healthcare Unit. **357** patients of 5 villages Lakhigam, Luvara, Jageshwar, Dahej and Ambheta were treated.

These patients were treated by Dr.Lukhman Seth (Orthopaedic Surgeon), Dr.Sohel Vajha (General Physician) and Dr.Rajat Bhatia (Dermatologist).

Some patients were common in all categories.

S.N	Disease/Treatment	No. of Patients
1	Skin disease	152
2	Arthritis	108
3	Hypertension & diabetes check	57
4	General complain	197
5	ECG	12



WORLD DIABETES DAY

World Diabetes Day was held on 14th November 2019 in Lakhigam & Ambheta villages. 109 people underwent blood sugar test. Awareness sessions were also organized. Dr. Pipalia and his team aware on hypertension, diabetes & complications.

All 109 people's weight and blood pressure were taken.



CLEANLINESS DRIVE



Pre-Condition: Dirty Lane



Post Drive: Clean Lane

Adani Foundation in association with Lakhigam Gram Panchayat, Helpage India and Narrotam Lal Foundation launched a cleanliness drive on 19th October, 2019 in Rathod Falia of Lakhigam village. School children were enthusiastically participated in this drive.

In August month there was heavy rainfall in project area. Lakhigam village was flooded as all drains, ponds and other potholes were choked with plastics. As a result, water entered in their houses. An awareness session was also held to encourage people to keep their water source clean.

Case Study

Name : Chhitubhai khushalbai Parmar
Age : 80 Years old
Gender: Male
Village : Jageshwar
Disease: Bronchial Asthama With Hyper-Tension

Family History: - Chhitubhai is 80 years old living in Jageshwar village located in Vagra Taluka. He had one son who expired in road Accident 25 years ago. His daughter got married and staying very far from this village and settled with her own family. Currently Chhitubhai and his wife (75 years) live together. Both are support of each other now.



Previously he was having temporary service in semi government to inspect the crop of cottonseed for 12 years and then he started his own farm in the year 1985. He did not find any profit from this farming hence given up the farming job. Now at present he is getting some nominal amount from some investment and leading his life. He does not have any other sources of income.

Medical History and Diagnosis: - Before 4 years he was suffering from chronic bronchial asthma. He took treatment from local Dr. Subhashbhai Dahej. He was having some urinary complaints and not recovered by local treatment and referred to Bharuch hospital. There he was operated, and recovered from the disease. After some days he got hypertension and it was not controlled. Then he went to Palm Land Hospital, Bharuch. His recovered from urinary tract problem but COPD was not recovered. He started treatment at MHU since 2 years. He was under regular check-up.

Current Status: - At present he feels better and performs his daily routine work. A good & regular counselling and medical advice can cure even the chronic disease. He is very happy for the treatment given by MHU and conveys warm regards to Adani Foundatuib & HelpAge India for treatment

Mr. Chhitubhai is thankful to ADANI Foundation and Help Age India for such a good service.

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Sustainable Livelihood Development

PASHUDHAN PROGRAM

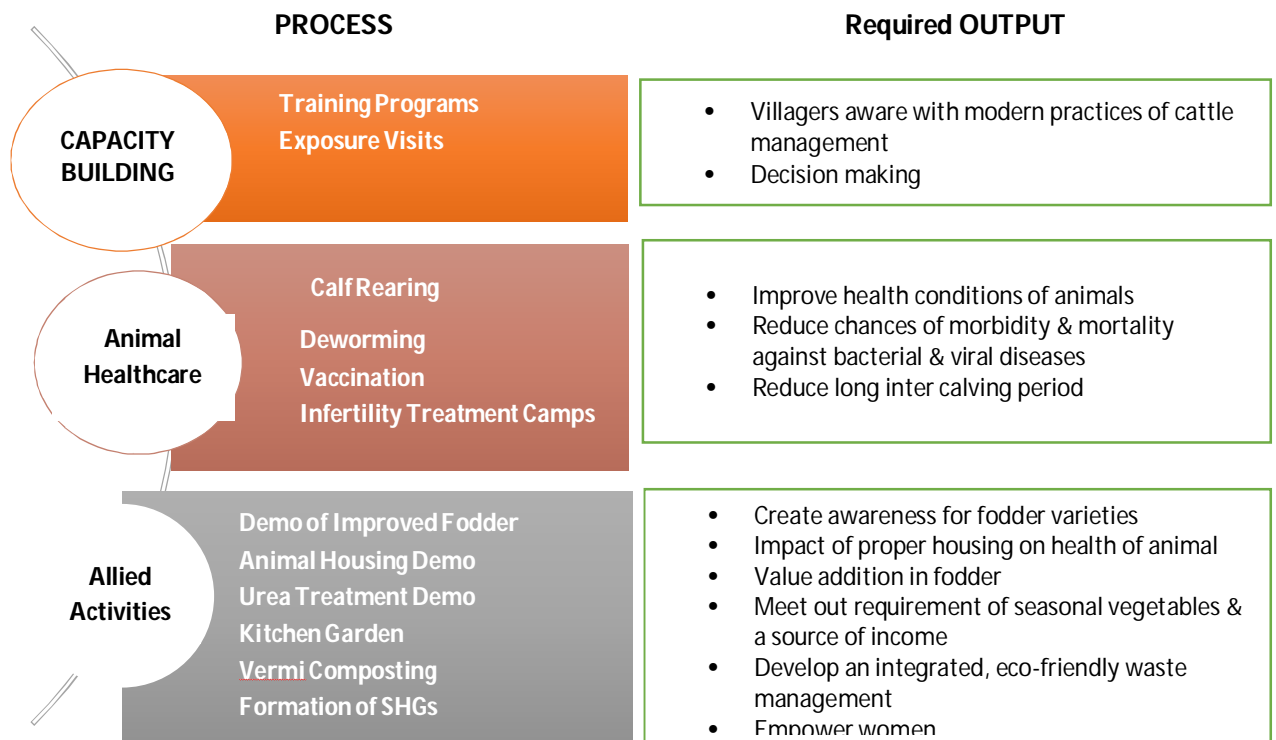
Adani Foundation in partnership with BAIF institute for Sustainable Development (BISLD) is implementing Cattle Breeding Centre (CBC) i.e. Animal Husbandry Project (Pashudhan Program) and vegetable cultivation in 12 villages surrounding Adani Port, Dahej.

Specific Objective

Create self-employment/ supplementary income through animal livestock development in project villages of Special Economic Zone, Dahej

Other Objectives

- Increase awareness among villagers for livestock development through trainings & exposure visits
- Provide preventive health care services
- Organize infertility treatment camps for timely diagnosis & treatment of infertile animals
- Provide door to door insemination services



Pashudhan Program Status as on 31st March, 2020

S.N	Village	Animal Population			During the month: March			During 2019 - 20		
		Cow	Buffalo	Total	AI	PD	Calving	AI	PD	Calving
1	Dahej	37	224	261	16	9	6	127	58	39
2	Lakhigam	13	132	145	9	7	1	68	30	26
3	Luvara	39	152	191	6	3	3	51	32	24
4	Jageshver	9	81	90	6	1	0	15	8	1
5	Ambheta	0	108	108	0	1	0	2	5	0
6	Suva	31	236	267	0	0	1	3	3	5
7	Rahiyad	0	103	103	1	1	0	8	4	7
8	Jolava	142	78	220	0	0	1	1	1	2
9	Koliyad	19	149	168	3	4	1	62	34	28
10	Vagani	166	108	274	16	5	0	130	81	91
11	Kaladara	207	440	647	1	1	11	92	54	43
12	Atali	4	118	122	1	0	0	11	7	2
		0	0	0	0	0	0	0	0	0
	Total	667	1929	2596	59	32	24	570	317	268

Project Activities : Planning vs Achievement

S.N	Project Activities	Plan		Achievement		SINCE INCEPTION	
		Unit	No.	Unit	No.	Unit	No.
1	Livestock Training	5	150	5	258	23	1122
2	Exposure Visit	2	100	2	95	4	201
3	Calf Rearing	49	49	49	49	76	125
4	Deworming	3044	3044	2173	2173	7231	7358
5	Infertility Treatment Camps	8	150	8	274	18	609
6	Fodder Demo Beni./Demo Plot	6	15	21	21	36	36
7	Cattel Shed Beni/Shed	3	3	0	0	2	2

8	Chaffcutter Demo in SHG Member	1	20	1	10	2	20
9	Kitchen Garden/ Beni	250	250	103	103	353	353
10	Vermicomposting Beni/Beds	5	5	5	5	20	20
11	Pregnant Animal Feed Support	34	34	34	34	34	34
12	Travis (Animal Treatment Work)	5	5	5	5	5	5
13	Sorted Semen	80	80	49	62	49	62
14	Calf Rally	1	70	1	1	1	1

PROJECT HEROS



Haribhai Buddhabhai Ahir, 44 years old lives in Lakhigam village. He works in Hindustan MI Sakva Private Limited, SEZ I, Dahej. His wife Jasuben is a housewife. He has one daughter Shraddha and one son Mitesh, a student of Class X in Patanjali Vidyalaya, Kamrej (Surat).

Animal husbandry is his family business. In 2001, GIDC acquired land of Lakhigam for SEZ, Dahej. Due to industrialization, cultivable land decreased and animal husbandry affected a lot. Haribhai joined a company but he used to keep himself engaged with cattle (whatever he had) in morning & evening.

In 2017, Project of Livestock Management launched by Adani Foundation in partnership with BAIF. Team visited his house for baseline survey. He came to know the objectives of the project. He got a chance of reviving his passion of livestock management. Now he took part in every project activity. His wife also gets involved. They started taking care of their cattle, stopped open grazing, started giving green fodder & feed as suggested by the team. Haribhai avails benefits of AI as he understands that genetically improved breed would boost his milk selling business. Due to AF's project, Haribhai is getting additional income apart from his monthly salary. This income supports him in son's education, daughter's treatment and purchase of new cattle



Pashudhan : Our Livelihood



Mrs. Jaguben wife of Kundanbhai Gohil says ' Pashudhan is our only source of income. They have two children one daughter and one son studying in class 5th and 3rd. They have 34 animals. Kundanbhai and Jaguben spend maximum time of their daily routine with their cattle. Before Adani Foundation's intervention Kundanbhai was worried about cattle's health as unavailability of green fodder and lack of knowledge of animal healthcare. Adani Foundation – BAIF's Pashudhan Project proved a boon for them. They avail project's benefits. They sell 45 litres milk per day in Aditya Birla Township. Their net income is Rs.23600 per month. They are thankful to Adani Foundation for such a meaningful project

COMMUNITY PARTICIPATION IS THE SUCCESS OF THE PROJECT

S.N	Particular	Total Amount	AF's contribution	Beneficiary's contribution per unit
1	Sorted semen	Rs.1500/-	Rs.1200/-	Rs.300/-
2	Feed	Rs.1950/-	Rs.1550/-	Rs.400/-
3	Vermi compost (2 beds)	Rs.3000/-	Rs.2400/-	Rs.600/-
4	Chauff cutter (group basis)	Rs.30000/-	Rs.25500/-	Rs.4500/-
5	Cattle shed construction	Rs.45000/-	Rs.36000/-	Rs.9000/-
6	Exposure visit			Rs.200/-

EVENT

Under Pashudhan Program Calf Rally was organized in Luvara village on 25th February 2020

105 calves of 88 beneficiaries of Lakhigam, Luvara, Dahej, Jageshwar, Vegani, Rahiyad and Kaladra villages participated in this event.

To encourage the practices of animal husbandry calves were selected among different age group by a panel of experts and prizes given to beneficiaries. On this occasion Shri Ishwarbhai Patel (President of Vagara Taluka), Shri Manoj Katar (COO) Adani Port –Dahej, Mr. Shailesh Singh (HR Head- Adani Dahej Port), Mr. J R Mori (Chief Program Executive –BAIF), Mr. A M Kanani (Advisor-BAIF), Mr. Mahendra Patel (KVK, Chaswad) & villagers were present.

S.N	Village	Calf (Cow)	Calf (Buffalo)
1	Lakhigam	8	8
2	Luvara	7	13
3	Jageshwar	2	8
4	Dahej	15	19
5	Vengani	6	0
6	Koliyad	4	6
7	Kaladra	2	7
	Total	44	61



Women Empowerment

SHIVSHAKTI SAKHI MANDAL, Jageshwar

Members: 10

Income Generation Activities

- School bags stitching
- Jute bags stitching
- Cloth bags stitching

Income Generation Activities Details

S.N	Activity	Order	Unit Cost (in Rs.)	Quantity	Selling Unit Price (in Rs.)	Total Cost Price	Total Selling Price (in Rs.)	Profit (in Rs.)
2	Jute bag stitching	Birla Copper	155	135	180	20925	24300	3375
3	Jute bag stitching	Adani Dahej Port	155	100	180	15500	18000	2500
4	Jute bag stitching	Local shopkeepers	145	60	165	8700	9900	1200
5	Cloth bag stitching	Adani Dahej Port	43	700	55	30100	38500	8400
6	Blanket tag stitching	Adani Foundation	10	700	20	7000	14000	7000
	Total					82225	104700	22475

- **Skill Based Training:** Shiv Shakti Sakhi Mandal, Jageshwar members got one-day training on skill enhancement on proper measurement and cutting of materials.



Meeting with Livelihood Mission Officials

Adani Foundation team had a meeting with Mrs. Jyotiben (DLM District Livelihood Manager) and Mr. V S Rathod (TLM Taluka Livelihood Manager) at District Development office, Bharuch on 27th November, 2019.

Points of discussion

- Adani Foundation's CSR activities
 - Shiv Shakti Sakhi Mandal's income generation activities
 - Livelihood mission's support in formation of new SHGs, strengthening of present SHGs and their linkage to income generation activities
 - Collective efforts to revive defunct SHGs
- Officials provided list of SHGs of project villages.



Formation of New SHGs

2 new SHGs are formed in January 2020. These are:

- ✓ Mahadev Mahila Sakhi Mandal, Luvara : 11 members and
- ✓ Sadhadadh Mahila Sakhi Mandal, Lakhigam: 11 members

Activities

- Regular Meetings
- Both SHGs have started monthly savings from January 2020. Mahadev Mahila Sakhi Mandal, Luvara has decided monthly savings of Rs.100 per member whereas Sadhadadh Sakhi Mandal's per member saving is Rs.200
- Mahadev Mahila Sakhi Mandal has decided vermi compost production & selling as their income generation activity. On the other hand, Sadhadadh Sakhi Mandal, Lakhigam has chosen snacks preparation & selling as source of their income generation.
- **Exposure Visit:**
20 members of Sadhadada Mahila Sakhi Mandal, Lakhigam & Mahadev Mahila Sakhi Mandal, Luvara went on an exposure visit to Adivasi Taleem Vikas Kendra, Lachhakadi (Navsari). These women got training on income generation activities & record keeping. They got an opportunity to visit women cooperatives' production units, warehouses and shops.
- **Capacity Building of SHG:**
Mahadev Mahila Sakhi Mandal, Luvara has opted vermi compost production as an income generation activity. AF in association with BAIF organized a skill based training for SHG members on vermi compost bed preparation, care, quality check and record keeping of production vs income. 22 beds distributed among 11 members of SHG.



Exposure visit



Vermibed distribution

Community Infrastructure Development



Overhead Water Tank, Jageshwar

CAPACITY: 35000 Litre
Direct Beneficiaries: 1571



Lakhabawa Campus

Direct beneficiaries: 4938

Indirect beneficiaries: 20000



RO Plant, Ashramshala Atali
Direct beneficiaries: 205



Ashramshala Atali road



Jageshwar bus stand
Direct beneficiaries: 1571



Ambheta Community Hall
Direct beneficiaries: 1330,
Indirect beneficiaries: 12000



Dahej Pond



Suva Gaushala

KICK OFF MEETING WITH CONTRACTORS

Objective: Maintain necessary compliances in infrastructure work of Adani Foundation

A meeting with contractors engaged in Community Infrastructure Development work was held in Dry Cargo Department, Dahej Port. In this meeting Safety, Security, Engineering Services, HR & Admin, Adani Foundation, contractors of M/S Vrajvasi Construction & M/S J T Enterprise. It was chaired by Sh. Sandip Shah, AGM, Dry Cargo, Dahej Port.

Meeting of Minutes

- Safety Induction is mandatory for all staff who will work at site.
- Job specific PPEs to wear during execution of job.
- All PPEs should be of IS standard.
- Informed about action to be taken in case of emergency / assembly points
- Share emergency contact no. to site supervisor.
- Submission of pending medical fitness report of deployed staff to OHC by 20th Nov.
- Following Adani lifesaving rules.
- Contractor has to conduct TBT on daily basis prior to starting of work.
- Working area to be properly barricaded with pipe / barricading tap.
- Proper housekeeping to maintain at work place.
- Underground pipe / cable to be verified prior to excavation work.
- In case of carrying out hot work, arrangement for fire extinguisher should be done.
- Height work (above 1.8 mtrs) to be done with scaffolding using proper harnessing.
- Good quality Safety net to be tied up during construction at height.
- During construction at height, overhead elect cables to be taken care.
- Near miss, unsafe condition should be reported immediately to EIC.
- Prior to starting of work, site visit to be done by Safety person along with concerns.
- Proper lighting arrangement to be done in case of night work.
- Supervisor should be available at location whenever any critical working is under execution



PROJECT SuPoshan

A

unique community based intervention to

- **Reduce the occurrence of malnutrition in children (0-5years)**
- **Reduce occurrence of malnutrition & anaemia in adolescent girls & women in reproductive age group**
- **Create a pool of resource at community level, especially SuPoshan Sanginis**
- **Support Government's efforts in reducing IMR & MMR**

COVERAGE

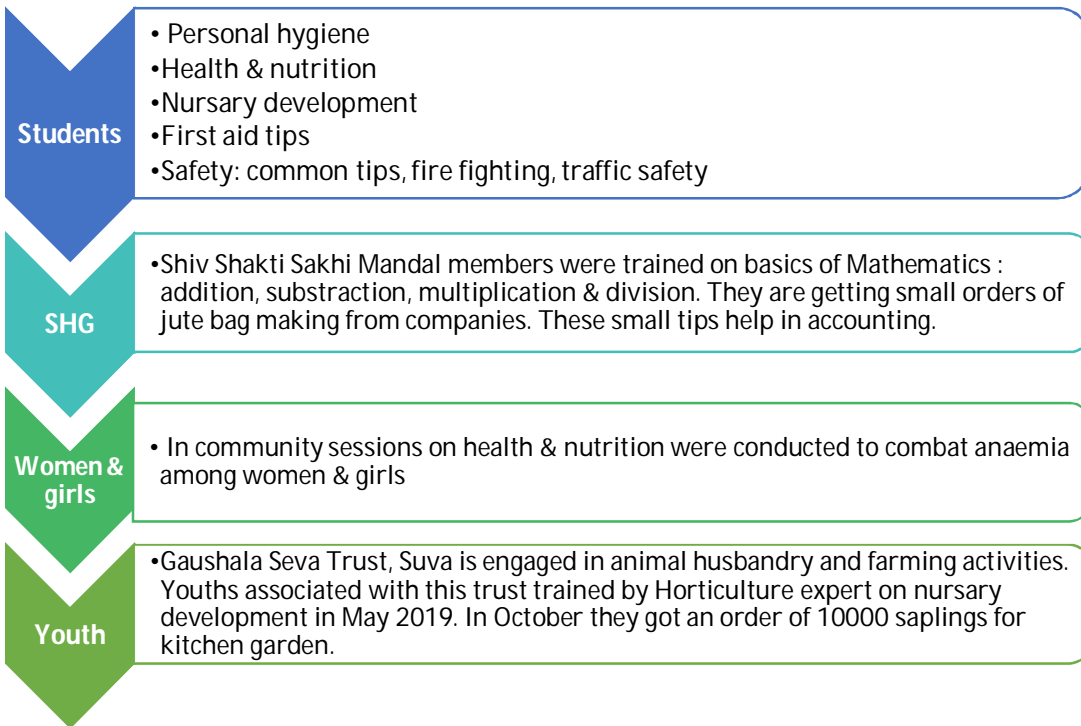
- **Total no. of Anganwadis covered: 13**
- **Total Population Covered: 24820**
- **Total no. of villages Covered: 7**
- **Total no. of SuPoshan Sanginis: 8**

S.N	Community Engagement and other Activities	Numbers
1	Focus Group Discussion	503
2	Family Counselling	823
3	Village level Events	32
4	No of SAM children referred to CMTC	0
5	No of SAM children provided with Energy Dense Food (Only New children)	0
6	No of total Hb & BMI screening - Women in reproductive age	1196
7	No of total Hb & BMI screening - Adolescent girls	254
8	No of women in reproductive age provided with IFA Tablets	19
9	No of adolescent girls provided with IFA Tablets	0

S.N	Project Achievement	Numbers
1	SAM to MAM	25
2	MAM to Healthy	107
3	Severe to Moderate shifting	30
4	Moderate to Healthy shifting	121
5	Severe to moderate anaemia	9
6	Moderate to mild anaemia	43
7	Mild to no anaemia	9



EMPLOYEE VOLUNTEERING



EVP SESSION AT ASHRAMSHALA ATALI



EVP Session at Ashramshala Atali

On 4th December 2019 a session on Personal Hygiene & First Aid Tips was held with students of Ashramshala Atali. This session was led by Mr. Naim Patel, male nurse of QHSE. During the session, 2 children suffering from fever got medicines and 2 children got first aid.

Ashramshala Atali is a residential school for children of migrant laborers. Students and teachers of this school found EVP session very productive. They request for more such sessions in future.

ROAD SAFETY WEEK

Adani Petronet Dahej Port Private Limited celebrated Road safety week from 11th to 16th January 2020. On this occasion a drawing competition was organized in two schools of project area – Govt. Primary School, Luwara and Govt. Primary School, Jageshwar. Students of Class 6th, 7th and 8th participated in this competition.

Theme: Road safety

Total participants: 130

Jageshwar School: 47 & Luwara School: 83

Winners were felicitated in concluding ceremony of safety week at Dahej Port by Sh. Manoj Katar, COO, Dahej Port and other seniors of different departments.



Community Engagement

Women's Day celebrated with good nos of women participation with great enthusiasm and zeal. 159 women of 3 villages Lakhigam, Luvara and Jageshwar participated in different sports events: Kabaddi, Kho-kho, Musical Chair and Spoon race. In Special Economic Zone this is the first occasion when sports events organized in villages. 1000 women celebrated the event.

Winners were felicitated by trophies and prizes. On the eve of women's day front line health workers, Aanganwadi workers & Women PRI members were all honoured by Adani Foundation for their contribution to nation building.



LAKHIGAM CRICKET

TOURNAMENT

Objective: Promotion of sports among village youths

Adani Foundation in association with Lakhigam Gram Panchayat and Adani Dahej Port organized Lakhigam cricket tournament at Lakhigam. Total 30 teams participated in this tournament.

Final match was played between Shivam 11 and Shiv Shakti on 26th January 2020. Shivam 11 emerged as a winner. They defeated Shiv Shakti by 6 wickets.

Trophies were given in following categories in presence of Adani Dahej Port officials, Adani Foundation and Sarpanch, Deputy Sarpanch of Lakhigam Gram Panchayat and other distinguished persons of the village.

Winners, runner up, man of the series, man of the match, best bowler, best batsman.

- During the tournament villagers highly appreciated CSR activities implemented by AF in Lakhigam.
- A group of young school boys of 9-11 years approached Adani Foundation & requested to organize School level cricket tournament.





વાગરા તાલુકાના લુવરા ગામ ખાતે અદાણી ફાઉન્ડેશન દ્વારા સંકર વાહરડી-પાડી નિદર્શન કાર્યક્રમ યોજાયો



૮૮ પશુપાલકોએ ભાગ લઈ સંકર વાહરડી-પાડી ઉછેર અને માર્ગદર્શન મેળવ્યું

મુરતઃ ભરૂચ જિલ્લાના વાગરા તાલુકાના લુવરા ગામ ખાતે અદાણી ફાઉન્ડેશન દ્વારા ૮૮૫ પુરસ્કૃત બી.આઈ.એલ.એલ. (બીપીકે) વહેરના સંચાલિત પશુવિકાસ કેન્દ્ર દ્વારા સંકર વાહરડી

વાડી નિદર્શન કાર્યક્રમ યોજાયો હતો. જેમાં લુવરા ગામના ૮૮૫ પશુપાલકોએ ભાગ લઈ સંકર વાહરડી/ પાડી ઉછેર અને માર્ગદર્શન મેળવ્યું હતું. કાર્યક્રમમાં સારા ગાયોના ધૂનિય વિર્પણથી બે વર્ષમાં તેમજ સ્થૂંચ વાહરડી/વાડી ૬૫ બ્રમ્માં અને કાઠમેરીના ૪૦ બ્રમ્માં મળી કુલ ૧૦૫ બ્રમ્માં નિદર્શન કરાયું હતું. જે બ્રમ્માં સારી તદ્દરસી થરવાના હોઈ તેના માલિકોને ઉનામ દ્વારા

પ્રોત્સાહિત કરવા હતાં. આ પ્રસંગે અદાણી ફાઉન્ડેશન દ્વારા મનોજ કટારે જણાવ્યું હતું કે, સમૂહ અને સહાય છે એમ જણાવ્યું હતું. આ કાર્યક્રમને સફળ બનાવવા અદાણી ફાઉન્ડેશનના સી.એલ.આર. હેડ ઉપાધ્યક્ષ મિશ્રા, આપકના શ્રી જે.આર.મોટી, ચીફ પ્રોગ્રામ એક્ઝિક્યુટીવ વાસવદાના મહેન્દ્રભાઈ પટેલ, પશુચિકિત્સક ડો.વાવડાએ જાહેરાત ઉઘાડી હતી.

સંદેશ 01.02.20

SATURDAY, 01•02•2020

સંક્ષિપ્ત સમાચાર

લખીગામમાં અદાણી ક્રિકેટ ટુર્નામેન્ટનું આયોજન



હાલેજ આઝાદી ફાઉન્ડેશન તેમજ ગામ પંચાયત લખીગામ દ્વારા લખીગામે ક્રિકેટ ટુર્નામેન્ટનું આયોજન કરાયું હતું. જેમાં લખીગામની વિવિધ ટીમોએ ભાગ લીધો હતો. ફાઈનલ મેચ કિલ્લમ ઉલેરન અને કિલ્લમ ટીમ વચ્ચે યોજાઈ હતી જેમાં કિલ્લમ ઉલેરન વિજેતા થઈ હતી. આ પ્રસંગે સરપંચ સંજીવ પોઠિય, તથા ટીમ પ્રતિનિધિ, આઝાદી ફાઉન્ડેશનના રેડ ઉપાધ્યક્ષ, કમ્પાઉન્ડ, આજના અને મેજાસ્ટ્રીઓ ઉપસ્થિત રહ્યા હતા. વિજેતા અને ઉપવિજેતા ટીમને ટ્રોફી આપી સન્માનિત કરાયું હતું.

ગુજરાત ટેકના. યુનિ.ના ટોપટોનમાં SRCTના ૫ વિદ્યાર્થીઓ ઝળક્યા

અંકલેશ્વર SRCT ૭ મા સેમેસ્ટર પરિણામમાં કાઠીયુ ટોપ ૧૦માં મેકઅરમાઈનીટીય ૫ વિદ્યાર્થીઓ આજ યુનિવર્સિટીના નવાજ વિદ્યાર્થીઓમાં સૌથી ઓછા મુજબન ટોપ ૧૦માં આગાં છે. આ વિદિ ખોટી હતી તથામ કેસીએ નીચે મનુભાનું છે. ટોપ ૧૦ના પાંચ વિદ્યાર્થીઓ પૈકી ક્રિષિક મેનિનિયરિયસ ૩ વિદ્યાર્થીઓ કાઠીયુના ૫૫ ક્રિષિક મેનિનિયરિયસ વિદ્યાર્થીઓમાં ટોપ ૧૦ માં છે. કામદારીયુ મેનિનિયરિયસ ૧૧૪ કોલેજોમાંથી મેકઅરમાઈનીટીયે ૪૫૦ કમ આવકમાં આગાં છે. પદ્મસારીય રેડનોલોજિ વિભાગના કુખ્યામ મોન્ડરીએ ૭ મા સેમેસ્ટરના કાઠીયુ પરિણામમાં મેકઅરમાઈ ૧૦ મેકઅગ છે. ક્રિષિક રેડનોલોજીના પુલરાજ કુમારે ૭ મા સેમેસ્ટરમાં કાઠીયુ પરિણામમાં સૌથી ઓછા મુજબનને કમ કમ કમ છે. જેમાં કે એ ક્રિષિક મેનિનિયરિયસ નીચ પોંચે કાઠીયુ પરિણામમાં ખોનું સ્થાન મેળવ્યું છે.

વાલિયામાં જિલ્લા પ્રધાની સચિવના

Appreciation

Dilipkumar Thakor



No.Min/L&E/D.M./Y.V./ /2019
Minister of Labour & Employment, Disaster
Management, Yatradham Vikas,
Government of Gujarat
Swarnim Sankul-1, 1st Floor,
Sachivalaya, Gandhinagar.
Phone : 079-232 50128, 232 50129,
Fax : 232 50306
E-Mail : min-labour@gujarat.gov.in
min.labouremployment@gmail.com
Date: 23 / 12 / 2019

MESSAGE

It is a matter of great pleasure for me to learn the significant and commendable contributions by Adani Hazira & Adani Dahej Port through Adani Foundation in the areas of Education services, Community health and development activities, Sustainable livelihood activities and Rural Infrastructure development activities, Special flagship projects for National development. This creates great opportunities and livelihoods that benefit millions of people. I congratulate and appreciate for deep commitment to community for the Nation building process.


(Dilipkumar Thakor)

To,
Shri Pranav Choudhary
CEO - Adani Hazira & Dahej Ports
Head - Adani Foundation

Dilipkumar Thakor



No.Min/L&E/D.M./Y.V./ 4676 /2019
Minister of Labour & Employment, Disaster
Management, Yatradham Vikas,
Government of Gujarat
Swarnim Sankul-1, 1st Floor,
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Date: 30 / 12 / 2019

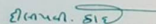
MESSAGE

Namaskar,

It is a matter of great pleasure for us to know the various CSR initiatives running at many locations of South Gujarat by Adani Hazira Port & Adani Dahej Port through "Adani Foundation" under your leadership. It was nice to interact and discuss with your young motivated team member on dated 23 Dec 2019. Today, India has expectation from this type of motivated youth. I appreciate the dedication, zeal, energy level and enthusiasm of your team member. It conveyed us glorious history of Adani Foundation and contributions to humanity in the interest of our society and nation at large. I am deeply touched and impressed.

We are witnessed of the contributions of "Adani Foundation" in the areas of Education services, Community health and Sustainable livelihood activities, Rural Infrastructure development and Special flagship projects for National development. This creates a great opportunities and livelihoods that benefit millions of people for their positive transformation. Adani Foundation helped them become self-dependent and created opportunity for their family. Today, these families have improved their standard of living and raised prosperity, self-reliance and lead a dignified life. Your team member of Hazira conveyed us many examples of people, benefited by these initiatives. These initiatives have instilled a new confidence and bring smiles on the faces of people.

On behalf of the Government of Gujarat, we congratulate you for deep commitment towards "Nation Building" and creating "New India" by 2022.


(Dilipkumar Thakor)

To,
Dr. Priti G. Adani
The Chairperson, Adani Foundation
8th floor, Shikhar Building,
Nr. Mithakhali Circle, Navrangpura, Ahmedabad.



Sh. Manoj Katar	Chief Operating Officer
Ms. Usha Mishra	Unit CSR Head
Ms. Varsha Pandit	Project Officer
Mr. Mahendrasinh Sindha	Project Officer
Mr. Yogesh Meghpara	Project Officer

Partners

The Helpage India

Vidhya Bharati Foundation

BAIF

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