

Om Prakash Yadav

From: Om Prakash Yadav
Sent: Monday, May 24, 2021 5:34 PM
To: rowz.bpl-mef@nic.in
Cc: bharuchgpcb@yahoo.com; westzonepcb@yahoo.com; chairman-gpcb@gujarat.gov.in; gpcb-bha@gujarat.gov.in; mefcc.ia3@gmail.com; monitoring-ec@nic.in; compliance.seiaa.gujarat@gmail.com; ecompliance-guj@gov.in; ms-gpcb@gujarat.gov.in; Shalin Shah; Snehal Jariwala; Harsh Yadav; Kaushal Singh
Subject: Half yearly Compliance report of Environment and CRZ Clearance for Phase III of Adani Petronet (Dahej) Port Private Limited(APDPPL) From October, 2020 to March, 2021
Attachments: EC & CRZ Compliance Report_Phase_III_APDPPL_Dahej_October, 2020 to March, 2021.pdf



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

Date: 24.05.2021

To
The Deputy Director General of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WZ),
E-5, Kendriya Paryaveeran Bhawan, E-5 Arera Colony, Link Road-3,
Ravishankar Nagar, Bhopal – 462016 (M.P.)
Email: rowz.bpl-mef@nic.in

Dear Sir,

Sub.:- Six Monthly Compliance Report of Environment and CRZ Clearance for the period from **October, 2020 to March, 2021.**

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

Please find enclosed herewith point wise compliance report 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 Paryaveeran 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, Parivash 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. Integrated Regional Office, Gandhinagar, Gujarat.

Thanks with regards

Om Prakash Yadav

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

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Ports and
Logistics

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5. Integrated Regional Office, Gandhinagar, Gujarat
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat).

Adani Petronet (Dahej) Port Pvt. Ltd.
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**SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT & CRZ
CLEARANCE PHASE – III**

FOR

DEVELOPMENT OF MULTI CARGO PORT TERMINAL

AT

DAHEJ, DISTRICT: BHARUCH, GUJARAT

(FOR THE PERIOD: OCTOBER, 2020 TO MARCH, 2021)

BY

ADANI PETRONET (DAHEJ) PORT PVT. LTD

VILLAGE: LAKHIGAM, TALUKA: VAGRA,

DISTRICT: BHARUCH, GUJARAT- 392130

**LIST OF APPENDIXES**

S. No	Details
1	Environmental and CRZ Clearances for Phase-III issue by MOEF&CC vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III
2	CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG for Phase-III vide letter dated 14/03/2016 bearing No.: ENV-10-2015-171-E

List of Annexure

- Annexure 1** : Action take report on PH points
- Annexure 2** : CSR Report from October, 2020 to March, 2021
- Annexure 3** : Environment Monitoring Report
- Annexure 4** : Compliance Status of EMP As Per EIA Report
- Annexure 5** : Green Belt development plan
- Annexure 6** : Environmental Budget & Expenditure For FY 2021
- Annexure 7** : Environment Management Cell
- Annexure 8** : Consent to Establish (CTE)

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

Sr. no.	Conditions	Status/Action taken
(i)	'Consent for Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Consent to Establish (CTE) was obtained from Gujarat Pollution Control Board vide no 111311 dated 22.02.2021, valid up to 07.07.2023.
(ii)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Complied. <ul style="list-style-type: none"> All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006. No construction work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.
(iii)	The Project proponent shall ensure that there shall be no damage to the existing mangroves patches near site and also ensure the free flow of water to avoid damage to the mangroves.	Being Complied There is no damage to Mangrove due to project activity. Free flow to the mangroves near the project area is maintained.
(iv)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	Complied. Two small tidal creeks, Ban Khadi and Ghugar Khadi creeks flows at North West direction from the port. APDPPL ensured no creeks and rivers are blocked due to project activity.
(v)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring reports.	Complying with. <ul style="list-style-type: none"> No marine construction activities are carried out on marine front after September, 2019. Reclamation of the area is being done as per the approval received. There is no dumping of any material outside the project area towards the shore. National Institute of Ocean Technology, Chennai has carried out study on shoreline changes in the vicinity of Dahej Port. As per the report on shoreline change analysis using high-resolution satellite images. Since 2011 deposition along the northern sector, erosion along southern sector and almost stable along the southeastern sector is observed. The seasonal and yearly shoreline changes indicates the dynamic nature of the coastline.

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

Sr. no.	Conditions	Status/Action taken
		<ul style="list-style-type: none"> Report of shoreline change analysis was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 23.11.2019.
(vi)	The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	Complied. All the commitments made during the public hearing have been complied with. An action taken report is enclosed as Annexure 1 .
(vii)	All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.	Being Complied <ul style="list-style-type: none"> All conditions stipulated in the EC and CRZ clearances are being complied with. A separate six monthly compliance report is being submitted to MoEF&CC and other authorities. All the recommendations and suggestions given by NIO, M/s Chalamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4. APDPPL has a well-defined DMP and regular mock drills are being conducted. DMP is also reviewed at regular interval. Last Mock drill was conducted on 19.03.2021. Last revision in the DMP was done on 01.05.2020. Disaster Management Plan is submitted to District collector, Mamlatdar (Disaster) and Gujarat Maritime Board, Bharuch, vide letter no. APDPPL/EHS/DMP/Rev-07/2020-21, 123 & 124 dated 20.01.2021.
(viii)	The material for reclamation shall be sourced only through Government approved quarry. The quarried material shall be free from all kinds of contamination and high organic carbon contents. The same should be tested prior to reclamation.	Being Complied All the material for reclamation is procured through approved agency. It has been ensured that Material used for reclamation is free from high organic carbon contents.
(ix)	The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 m above the coal stock, made of fabric/HDPE, water sprinkler arrangement, green belt of	Being Complied Coal being stored at designated stock yard with dust control measures viz. wind screen made of steel of height at least 2 m above the coal stock, water sprinkler arrangement, green belt of suitable trees and scrubs.

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

Sr. no.	Conditions	Status/Action taken
	at least three layers of suitable trees and scrubs.	<p>Dust control measures details:-</p> <ul style="list-style-type: none"> • APPPL has installed wind breaking wall for dust pollution control in the open coal yard. The wind breaker wall is a porous perforated barrier. At the back of the wall, a low-velocity zone is formed. It effectively reduces the average wind speed, thereby prevents dust from moving, and achieves the purpose of dust suppression. The benefits include; <ul style="list-style-type: none"> ➤ Reduction of coal losses in open yard ➤ Saves water for dust suppression ➤ Improves the living conditions of local residents ➤ Improves the working conditions of the on-site staff <p>Wind break walls have been erected around the coal stock pile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stock piles. An amount of 58 crore is spent by APDPPL in erecting and marinating the wind breaking wall around the coal yard</p> <ul style="list-style-type: none"> • APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly • APDPPL has installed a truck tyre washing system within the port premises, which washes the tyre of trucks exiting the port

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

Sr. no.	Conditions	Status/Action taken
		<p>area.</p> <ul style="list-style-type: none"> Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
(x)	The coal from the ships shall be conveyed through closed conveyor to the coal stock yard. The conveyor shall be seamless without joints/transfer points.	<p>Noted for Compliance.</p> <p>Mechanization of South Berth is yet to be implemented. After project completion coal will be transported through closed conveyor to the coal stock yard from south berth also. The alignment of the conveyer will be based on the engineering requirement to meet the objectives.</p>
(xi)	The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.	<p>Being Complied</p> <p>Regular road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPPL.</p> <p>Road cleaning by sweeping machine: APDPPL, have 02 nos. of large capacity road sweeping machine and one tractor sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal.</p> <p>Manual Road Cleaning: In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by three team consisting of 5 members each. All the coal dust collected is sent to the coal yard.</p> <p>Regular water sprinkling is carried out by two mobile water tankers.</p>
(xii)	The mangrove plantation of 50 ha shall be under taken in consultation with	Complied.

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Sr. no.	Conditions	Status/Action taken
	Gujarat Ecology Commission / State Forest Department.	<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 (Done as compliance to Phase –I & II EC &CRZ clearance) 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &CRZ clearance) <p>Reports of 400 Ha Mangrove afforestation (Developed in Phase I & II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017</p> <p>The mangrove plantation (Phase –III) of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 29/05/2019.</p>
(xiii)	Cargo shall be unloaded directly into hopper from the ship and transported to the stack yards through closed conveyor system only. Inbuilt dust suppression systems shall be provided at hoppers and all the transfer points / storage yards. Cargo shall not be unloaded directly onto the berth. Water meters shall be provided at different locations to record the consumption of water used for dust suppression and daily log shall be maintained.	<p>Being Complied</p> <ul style="list-style-type: none"> At mechanized berth of APDPPL, cargo is handled through conveyor system. Material handling system is equipped with Dry Fog Dust Suppression System. Coal storage yard is equipped with dust suppression system. After mechanization of south berth, desired pollution control measures shall made as a part of material handling system.
(xiv)	Disposal sites for excavated material should be so designed that the revised land use after dumping and	<p>Being Complied</p> <p>All the construction activities are as per the approval received under CRZ notification 2011 and</p>

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Sr. no.	Conditions	Status/Action taken																																				
	changes in the land use pattern do not interfere with the natural drainage	EIA notification 2006. During Project (Phase III) implementation, it will be ensured that there shall not be any interference with the natural drainage of the area.																																				
(xv)	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply.																																				
(xvi)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	Complied. Sewage generated from port is being treated in designated STP of 8oKL/Day Capacity. Treated water is used for horticultural purposes. Quality of treated water confirm to the standard laid down by Gujarat Pollution Control Board. <table><tr><td>Capacity</td><td>Quantity of Wastewater (Avg. from October, 20 to March, 2021)</td><td>Type of STP</td></tr><tr><td>8oKLD</td><td>18KLD</td><td>MBR</td></tr></table> <p>The treated water from STP is being utilized on land for horticulture purpose within port premises after achieving permissible norms prescribed in CCA order. Summary of STP treated water analysis results during compliance period form October, 2020 to March, 2021 as mentioned below.</p> <table><tr><td>Parameters</td><td>Unit</td><td>Min</td><td>Max</td><td>Perm. Limit</td></tr><tr><td>PH</td><td>-</td><td>7.11</td><td>7.84</td><td>6.5- 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>6</td><td>18</td><td>30</td></tr><tr><td>BOD(3 Days @ 27 °C</td><td>mg/L</td><td>10</td><td>17</td><td>20</td></tr><tr><td>Residual Free Chlorine</td><td>mg/L</td><td>0.6</td><td>0.8</td><td>0.5(Min)</td></tr><tr><td>Oil & Grease</td><td>mg/L</td><td>2.8</td><td>4.3</td><td>-</td></tr></table> <ul style="list-style-type: none">The monitoring results of the treated wastewater from STP for the period from October, 2020 to March, 2021 are enclosed as Annexure –3F.APDPPL regularly submits report to State Pollution Control Board.	Capacity	Quantity of Wastewater (Avg. from October, 20 to March, 2021)	Type of STP	8oKLD	18KLD	MBR	Parameters	Unit	Min	Max	Perm. Limit	PH	-	7.11	7.84	6.5- 8.5	TSS	mg/L	6	18	30	BOD(3 Days @ 27 °C	mg/L	10	17	20	Residual Free Chlorine	mg/L	0.6	0.8	0.5(Min)	Oil & Grease	mg/L	2.8	4.3	-
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Oil & Grease	mg/L	2.8	4.3	-																																		
(xvii)	All the operational areas will be connected with the network of liquid waste collection corridor comprising	Complied. There is no liquid effluent generation during construction and operation of project. Separate																																				

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

Sr. no.	Conditions	Status/Action taken
	of storm water, oily waste and sewage collection pipelines.	storm water drain network have been provided. Domestic effluent is being transported from generation point to STP in close type Gully Men vehicle. Dedicated Hazardous waste storage area has provided for collection and storage of Hazardous waste.
(xviii)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan.	Complied. Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October, 2020 to March, 2021 are enclosed as Annexure 3C and 3D.
(xix)	The marine ecology management plan being drawn up with regards to the environmental impacts of natural disasters, oil spills and other wastes, dredging and dumping on marine ecology (all micro, macro and mega biotic components) shall be scrupulously implemented. It shall be ensured that the marine ecology in the area of influence is not adversely affected.	Being Complied <ul style="list-style-type: none"> No waste or dredged material is dumped so as to disturb the marine ecology Marine ecology is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October, 2020 to March, 2021 are enclosed as Annexure 3C and 3D.
(xx)	Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.	Complied. Marine ecology is being monitored through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Reports show that there are no significant changes in the marine ecology indicators. Reports for the period of October, 2020 to March, 2021 are enclosed as Annexure 3C and 3D.
(xxi)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Complied. <ul style="list-style-type: none"> Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. Resubmitted Oil Spill Contingency plan prepared and submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018

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

Sr. no.	Conditions	Status/Action taken
		<ul style="list-style-type: none"> Request letter for approval of Oil Spill Contingency plan submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar vide letter dated 16/09/2020 There is no Oil spill reported during the compliance period of October, 2020 to March, 2021. Periodic Mock drills are conducted. Latest mock drill was conducted on 19.03.2021.
(xxii)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	Being Complied All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4 .
(xxiii)	Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/ disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period.	Being Complied There is no discharge of oily bilge waste or ballast water in the sea within port limit. APDPPL is not accepting any kind of Hazardous Waste from ships/vessels.
(xxiv)	Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.	Complied. <ul style="list-style-type: none"> The D.G set are only used in case of power failure DG sets are installed as per the approval. Monitoring of DG set Stack emission & noise is being carried out M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Test reports of emission from DG sets are enclosed as Annexure 3H.
(xxv)	All the mechanized handling systems and other associated equipment's such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be	Being Complied <ul style="list-style-type: none"> APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system

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

Sr. no.	Conditions	Status/Action taken
	provided at all transfer point.	reduces the coal dust generation significantly. <ul style="list-style-type: none"> After mechanization of south berth, desired pollution control measures shall be made as a part of material handling system.
(xxvi)	No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.	Complied. APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.
(xxvii)	The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	Complied. <ul style="list-style-type: none"> Details regarding STP are given in point number- XVI (Refer above point) Monitoring Reports for the period of October, 2020 to March, 2021 is enclosed as Annexure 3.
(xxviii)	All the mitigation measures suggested in the EIA report and the marine environment study of CWPRS, Pune shall be implemented. The compliance for each of these measures shall be submitted to concerned SPCB and R.O. of this Ministry along with six monthly compliance reports.	Being Complied <ul style="list-style-type: none"> All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4
(xxix)	It shall be ensured by the Project Proponent that the activities does not cause disturbance to the fishing activity, movements of fishing boats and destruction to mangroves during the construction and operation phase.	Complied. There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity.
(xxx)	The Project Proponent shall take up and earmark adequate fund for socio-economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of October, 2020 to March, 2021 is attached as Annexure – 2 .
(xxxi)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the

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

Sr. no.	Conditions	Status/Action taken
	supervision of a Senior Executive.	Environment cell is enclosed as Annexure – 7.
(xxxii)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. <ul style="list-style-type: none"> Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6.
(xxxiii)	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Being Complied <p>All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure – 4.</p>
(xxxiv)	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system, measures to be taken for protection. One set of environmental manual shall be made available at the project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.	Complied <ul style="list-style-type: none"> APDPPL has prepared operating manual for all activities and is certified for ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007. Complete set of operating manual is available at site. Regular awareness sessions are organized for each level of employee as per the training need identification (TNI) done by HR department. All the schedules and results of environmental monitoring are available at EHS department at project site.
(xxxv)	Corporate Social Responsibility: <ol style="list-style-type: none"> The Company shall have a well laid down Environment Policy approved by the Board of Directors. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions. The hierarchical system or 	Being Complied <ul style="list-style-type: none"> Company has an Environment Policy. All the requirements mention in the condition are being met through Environment Management System (ISO 14001:2015). The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions (Environment Cell Organogram) is enclosed as Annexure – 7. APDPPL has form a management review

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

Sr. no.	Conditions	Status/Action taken
	<p>Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>d. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p>	<p>committee-comprising of various heads of departments and chaired by site head. This review committee meets once in six month to review and monitor EHS performance of the site. All action items are being recorded and implemented.</p>

B. General Conditions.

i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Being Complied No digging activities carried out during the compliance period. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through M/s Pollucon Laboratories, a NABL accredited and MoEF&CC recognised laboratory. Copies of reports are enclosed as Annexure 3B .
ii	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Being Complied <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc. Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the APDPPL full support is extended and APDPPL provides all additional information seek by them during the inspection. No officer of MoEF&CC, regional office Bhopal and CPCB visited the site during the compliance period. Latest visit of Gujarat Pollution Control Board was on 15.12.2020.
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of	Noted and Complied. APDPPL is regularly submitting six monthly compliance reports, which comprises of

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

Sr. no.	Conditions	Status/Action taken																								
	this Ministry at Bhopal regarding the implementation of the stipulated conditions.	<p>compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports and EMP Status etc.</p> <p>Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&II) dated 25.11.2020 in soft copy via mail dated 25.11.2020. Please refer below for the details regarding past 7 compliance submissions.</p> <table border="1"> <thead> <tr> <th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Apr'17 to Sep'17</td><td>28.11.2017</td></tr> <tr> <td>2</td><td>Oct'17 to Mar'18</td><td>28.05.2018</td></tr> <tr> <td>3</td><td>Apr'18 to Sep'18</td><td>23.11.2018</td></tr> <tr> <td>4</td><td>Oct'18 to Mar'19</td><td>29.05.2019</td></tr> <tr> <td>5</td><td>Apr'19 to Sep'19</td><td>20.11.2019</td></tr> <tr> <td>6</td><td>Oct'19 to Mar'20</td><td>20.05.2020</td></tr> <tr> <td>7</td><td>Apr'20 to Sep'20</td><td>25.11.2020</td></tr> </tbody> </table>	S. No	Compliance Period	Date of Submission	1	Apr'17 to Sep'17	28.11.2017	2	Oct'17 to Mar'18	28.05.2018	3	Apr'18 to Sep'18	23.11.2018	4	Oct'18 to Mar'19	29.05.2019	5	Apr'19 to Sep'19	20.11.2019	6	Oct'19 to Mar'20	20.05.2020	7	Apr'20 to Sep'20	25.11.2020
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iv	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with	Noted and Agreed.																								
v	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted & Agreed.																								
vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.	Complied There is no change in the implementation of project profile/agency.																								
vii	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied <ul style="list-style-type: none"> Financial closure date for the project is 29/10/2014. Consent for establish was obtained from Gujarat Pollution Control Board vide no 111311 dated 22.02.2021, valid up to 07.07.2023. Start of land development (23 Ha. 																								

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

Sr. no.	Conditions	Status/Action taken
		reclamation) work 17.10.2017.
viii	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	Complied Copy of the clearance letter is submitted to concern Panchayat/ local NGO by hand and by register speed post. Copy of the acknowledgement and receipt of speed post were submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
ix	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days	Complied This condition does not belong the project proponent, however, APDPPL has submitted request letter along with a copy of environment clearance letter for display to Gujarat Pollution Control Board, District Industries Centre and Collector's Office vide letter dated 27.10.2016.
11	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted & Agreed
12	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied <ul style="list-style-type: none"> For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2022 for the Class B Petroleum. Copy of the HSD license submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 22.11.2020 and there is no further change. EC Clearance from MOEF was obtained vide letter no. vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III. Fire NOC: Not Applicable. Civil Aviation: Not Applicable. Permission under Wildlife (Protection) Act, 1972: Not Applicable.

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

Sr. no.	Conditions	Status/Action taken
13	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.	Complied <ul style="list-style-type: none"> Environment clearance letter is published in "Indian Express" and "Gujarat Guardian" newspapers on dated 25th October 2016 which is within 7 days of from the date of the receipt of clearance letter. Copy of advertisement has been submitted to Regional Office MOEF on 28th October 2016 vide letter no APDPPL/MOEF-RO/01/2016. Copy of the same was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III), dated 28.11.2017.
14	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied. The status of environment clearance conditions is available on company website that i.e. www.adaniports.com/ports-downloads
16	Any appeal against this Clearance shall lie with the National 18 Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of The National Green Tribunal, Act, 2010.	Noted.
17	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied <ul style="list-style-type: none"> Copy of the clearance letter is submitted to concerned Panchayat, Zila Parishad, local body and the local NGO by hand and registers speed post. Copy of the acknowledgement and receipt of speed post was submitted along with half-yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) , dated

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

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18	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC, the respective Zonal Office of CPCB and the SPCB.	<p>Complied</p> <p>Compliance report of EC conditions is uploaded regularly.</p> <ul style="list-style-type: none"> Last Compliance report including results of monitoring data for the period of April, 2020 to September, 2020 was submitted to MoEF&CC, New Delhi, Regional Office of MoEF&CC, Bhopal, Zonal Office of CPCB, Baroda, GPCB, Gandhinagar and RO Office, GPCB, Bharuch etc. vide letter no APPPL-EHS/MOEF RO/EC Comp (I&II) dated 25.11.2020 in soft copy via mail dated 25.11.2020 Compliance reports along with monitored data are available on company website i.e. www.adaniports.com/ports-downloads Same is being regularly submitted to concerned authorities. Please refer below for the details regarding past 7 compliance submissions. <table border="1"> <thead> <tr> <th>S. No</th><th>Compliance Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1</td><td>Apr'17 to Sep'17</td><td>28.11.2017</td></tr> <tr> <td>2</td><td>Oct'17 to Mar'18</td><td>28.05.2018</td></tr> <tr> <td>3</td><td>Apr'18 to Sep'18</td><td>23.11.2018</td></tr> <tr> <td>4</td><td>Oct'18 to Mar'19</td><td>29.05.2019</td></tr> <tr> <td>5</td><td>Apr'19 to Sep'19</td><td>20.11.2019</td></tr> <tr> <td>6</td><td>Oct'19 to Mar'20</td><td>20.05.2020</td></tr> <tr> <td>7</td><td>Apr'20 to Sep'20</td><td>25.11.2020</td></tr> </tbody> </table>	S. No	Compliance Period	Date of Submission	1	Apr'17 to Sep'17	28.11.2017	2	Oct'17 to Mar'18	28.05.2018	3	Apr'18 to Sep'18	23.11.2018	4	Oct'18 to Mar'19	29.05.2019	5	Apr'19 to Sep'19	20.11.2019	6	Oct'19 to Mar'20	20.05.2020	7	Apr'20 to Sep'20	25.11.2020
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19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEFCC by email.	<p>Complied</p> <ul style="list-style-type: none"> Environment statement regularly being submitted to Gujarat Pollution Control Board. Last report was submitted dated 26.05.2020. Copy of report is also available on company website i.e. www.adaniports.com/ports-downloads Same has been sent by email to RO, GPCB, Bharuch, MS, GPCB(Gandhinagar) Regional office, Bhopal, MoEF & CC on 20.05.2020. 																								

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

Sr. no.	Conditions	Status/Action taken										
1	The provisions of the CRZ Notification of 2011 shall be strictly adhered to by M/s APDPPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by M/s APDPPL	Complied. <ul style="list-style-type: none">All the construction activities are being carried out as per the provisions of CRZ notification 2011 and EIA notification 2006.No activity or work other than those permitted in Coastal Regulation Zone Notification has been carried out in Coastal Regulation Zone area.										
2	The APDPPL shall ensure that there shall not be any blockage of creek and free flow of water is maintained	Complied. Two small tidal creeks, Ban Khadi and Ghugar Khadi creeks flows at North -West direction form port APDPPL ensured no creeks are blocked due to project activity.										
3	The APDPPL shall have to comply with the agreement made by them with GACL regarding re-routing of the pipeline of GACL and M/s APDPPL shall have to borne the cost as per agreement.	Complied. Re-routing of the pipeline of GACL has been completed and all expenditure has been borne by APDPPL.										
4	The APDPPL shall not construct any storage facilities for material/chemicals in the CRZ area except for those permissible as per Annexure – II of the CRZ Notification -2011. Also for other Hazardous chemical, outside CRZ areas, the APDPPL shall have to consult SDMA for Disaster Management Plan.	Being Complied <ul style="list-style-type: none">APDPPL is handling Multi cargo mainly coal and other bulk cargos at designated storage areas as per approval & CRZ notification 2011.APDPPL has a well-defined DMP and regular mock drills are being conducted. DMP is also reviewed at regular interval Last Mock drill was conducted on 19.03.2021. Last revision in the DMP was done on 01.05.2020. Disaster Management Plan is submitted to District collector, Mamlatdar (Disaster) and Gujarat Maritime Board, Bharuch, vide letter no. APDPPL/EHS/DMP/Rev-07/2020-21, 123 & 124 dated 20.01.2021.										
5	All necessary permission from different Government Departments / agencies shall be obtained by M/s APDPPL before commencing the activities.	Complied <ul style="list-style-type: none">During the compliance period Consent to establish was obtained from Gujarat Pollution Control Board vide no 111311 dated 22.02.2021, valid up to 07.07.2023. Copy of Consent to Establish is attached as Annexure- 8Consent to Establish (CTE) and Consent to Operate (CTO) are obtained from GPCB and renewed/ amendment form time to time as per the progress of the project activity. The present in force CTE/CTO are mentioned below <table><tr><td>S. No.</td><td>Permission</td><td>Project</td><td>Ref. No./Order No.</td><td>Valid till</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	S. No.	Permission	Project	Ref. No./Order No.	Valid till					
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Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III

Sr. no.	Conditions	Status/Action taken				
		1	CTE	APDPPL	GPCB/BRCH/ NOC/2528/80108	30/03/2011
		2	CCA	APDPPL	AWH-40224	04/07/2011
		3	CCA (Amendment)	APDPPL	GPCB/BRCH-B-CCA-06/(2)ID-31664/12315	04/07/2015
		4	CCA Renewal	APDPPL	AWH-73359	16/07/2020
		5	CTE	APDPPL Phase-III	CTE Amendments-71696	07/07/2020
		6	CTE (Amendment)	APDPPL-III	CTE Amendments-71696	07/07/2020
		7	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020
		8	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020
		9	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664	16/07/2020
		10	CCA Amendment	APDPPL	GPCB/BRCH-BCCA-06(3)ID-31664/566292	16/07/2020
		11	CCA Renewal	APDPPL	GPCB/BRCH-B/CCA-06(7)ID-31664/571845(AWH-109820)	01/11/2020
		12	CTE Validity extend	APDPPL-III	CTE Amendment No. 111311	07/07/2023
		<ul style="list-style-type: none"> For storage of HSD approval has been taken from PESO vide letter no P/WC/GJ/14/3668(P221616) and valid up to 31.12.2022 for the Class B Petroleum. A copy of the same was submitted along with the compliance report for the period of April 2020 to September, 2020 and there is no further change. Clarence form MoEF&CC was obtained vide letter dated 14/10/2016 bearing F. No.: 11-37/2007-IA-III 				
6	The APDPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	Complied There is no damage to Mangrove due to project activity. Free flow to the mangroves near the jetty approach is maintained.				
7	All the recommendation and suggestions given by Cholamanadalam MS Risk Services Limited, Chennai in their Environment Impact Assessment reports for conservation /	Being Compiled <ul style="list-style-type: none"> All the recommendations and suggestions given by NIO, M/s Cholamandalam in the EIA are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4. 				

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

Sr. no.	Conditions	Status/Action taken
	protection and betterment of environment shall be implemented strictly by M/s APDPPL.	
8	The construction and operational shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal/ marine habitats. The construction activities shall be carried out only under the guidance / supervision of the reputed institute/ organization.	Being Complied <ul style="list-style-type: none"> Construction and operation activities are being done in such a way that there is no impact on the mangroves. Free access to the "Pagadiya" fishermen is available. There is no impact on fishermen livelihood due to project activity. Gujarat Maritime Board is regularly monitoring the project progress.
9	The construction debris and/or any other type of waste shall not be disposed of into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	Complied <ul style="list-style-type: none"> No debris or other construction waste is being disposed into the sea, creek or in CRZ areas. Reclamation of the area is being done as per the approval received.
10	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	Complied <p>No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.</p>
11	M/s APDPPL shall prepare and regularly update the local oil spill contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency plan and shall submit the same to this Department after having it vetted through the Indian Coast Guard.	Complied <ul style="list-style-type: none"> Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. Resubmitted Oil Spill Contingency plan prepared and submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar for verification vide letter dated 27.07.2018 Request letter for approval of Oil Spill Contingency plan submitted to The chairman, NOS-DCP, Central Coordinating authority, Cost Guard Headquarters, National stadium Complex, New Delhi & Coast Guard, Gandhinagar vide letter dated 16/09/2020 APDPPL has a well-defined DMP and regular mock drills

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

Sr. no.	Conditions	Status/Action taken
		are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 19.03.2021. Last revision in the DMP was done on 01.05.2020. Disaster Management Plan is submitted to District collector, Mamlatdar (Disaster) and Gujarat Maritime Board, Bharuch, vide letter no. APDPPL/EHS/DMP/Rev-07/2020-21, 123 & 124 dated 20.01.2021.
12	M/s APDPPL shall bear the cost of the external agency that may be appointed by this Department for supervision /monitoring of proposed activities and the impact of the proposed activities.	Noted and shall be complied.
13	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction	Complied. Jetty approach is already operational. No new jetty is proposed under the phase III development except the widening of rubble bund.
14	The ground water shall not be tapped within the CRZ areas by the APDPPL to meet the water requirement in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is been met through GIDC water supply.
15	M/s APDPPL shall take up massive greenbelt development activities in consultation with Forest Department / GEER Foundation / Gujarat Ecology commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Complying with. Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. Detailed plan of the green belt development plan is enclosed as Annexure - 5 .
16	Mangrove plantation in 50 Ha. Shall be carried out in consultation with the Gujarat Ecology Commission/ Forest Department by M/s APDPPL within a period of two years from the date of issuance of the CRZ clearance by the MoEF&CC, GOI and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Complied. Mangrove afforestation has been carried out in an area of 450 ha. Details are given below. 5. 100 ha near village Dandi, Dist Surat– 2011 6. 50 ha near village Jakhau, Dist Kutch – 2011 7. 50 ha near Padri bit, Dist Bhavnagar – 2011 8. 200 ha near Malpur, Ta. Jambusar – 2013-14 (Done as compliance to Phase –I

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

Sr. no.	Conditions	Status/Action taken
		<p>& II EC & CRZ clearance)</p> <p>5. 50 ha Devjagan/Nada</p> <p>Ta. Jambusar – 2017 – 18 (Done as compliance to Phase – III EC & CRZ clearance)</p> <p>Reports of 400 Ha Mangrove afforestation (Developed in Phase I & II Project) were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017</p> <p>The mangrove plantation (Phase –III) of 50 ha has been completed at Village Devjagan, Jambusar taluka in consultation with M/s. Saline Area Vitalization Enterprise Limited (SAVE). Report of 50 ha Mangrove Plantation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MOEF RO/EC Comp (III) dated 29/05/2019.</p>
17	The APDPPL shall have to take up bio-shielding development programme in consultation with the Forests Department/ PCCF and an action plan in this regard shall have to be submitted to the MoEF&CC – GOI and this department.	<p>Being Complied</p> <ul style="list-style-type: none"> Area identification for Bio shield project is done at Malpur and Isanpur village, Jambusar Taluka, Bharuch district is completed. M/s. Saline Area Vitalization Enterprise Limited (SAVE) is carrying out Bio Shield development programme in collaboration with local villagers. <p>Some highlights of project are as below;</p> <ul style="list-style-type: none"> Area to be developed: 20ha Width: 200 – 300 mt. Length: 1,000 mt. (01 Km) Plants: Mangroves, Pilu (Salvadora, Unt Morad and local grass species Completion Period: 36 Months A mangrove nursery having 35150 saplings has been developed by SAVE in association with village women, these women will be executing the process of Bio shield right from plantation to gap filling and maintenance. In the period from December- January, the sapling counting of the Nursery was done and it was found that 27110 Plants are living, which is around 77% survival In the period from June – July, 2020 mangrove plants counting work done and it was found that 7430 plants are living February end total Mangrove Plantation of 8,000

Sr. no.	Conditions	Status/Action taken					
		Plants have been done <ul style="list-style-type: none"> Final report will be submitted along with compliance on completion of Bio Shield development Programme. 					
18	M/s APDPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forests and Environment Department and the District Collector / District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same for the period of October 2020 to March 2021 is attached as Annexure – 2.					
19	A separate budget shall be earmarked for environmental management and socio-economic activities including the green belt /mangrove plantation and details thereof shall be furnished to this department as well as the MoEF&CC, GOI. The details with respect to the expenditure from this budget head shall also be furnished alongwith the compliance report.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditures for the past 3 years is enclosed as Annexure –6.					
20	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project	Complied. APDPPL has a well structured Environment Management Cell, staffed with qualified manpower for implementation of the Environment Management Plan. Detail of the Environment cell is enclosed as Annexure – 7.					
21	Environmental Audit report indicating the changes, if any, with respect to the baseline environment quality in the coastal and marine environment shall be submitted every year by M/s APDPPL to this Department as well as to the MoEF&CC, GOI.	Being Complied <ul style="list-style-type: none"> The quality of ambient air, treated wastewater from STP, sea water and sediment, ground water and noise levels is being monitored through M/s Pollucon Laboratories, a NABL accredited agency. Ambient Air quality monitoring (twice in a week) and Noise level (once in a month) monitoring are being carried out. Summary of ambient air monitoring during compliance period form October, 2020 to March, 2021 as mentioned below. <table border="1"> <thead> <tr> <th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm.</th></tr> </thead> </table>	Parameter	Unit	Max	Min	Perm.
Parameter	Unit	Max	Min	Perm.			

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

Sr. no.	Conditions	Status/Action taken				
						Limit
		PM10	µg/m3	96.26	43.6	100
		PM2.5	µg/m3	55.4	15.3	60
		SO2	µg/m3	27.55	6.4	80
		NO2	µg/m3	45.63	13.54	80
		<ul style="list-style-type: none"> The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise monitoring results during compliance period form October, 2020 to March, 2021 as mentioned below table. 				
		Location	Unit	Max	Min	Limit
		Behind QHSE Office	Day Time dB(A)	70.1	42.5	75
			Night Time dB(A)	61.5	41.8	70
		PMC Office Back Side	Day Time dB(A)	63.8	42.8	75
			Night Time dB(A)	62.5	42.4	70
		Sub Station - 6 Back Side	Day Time dB(A)	68.7	42.4	75
			Night Time dB(A)	64.3	40.8	70
		Sub Station - 8 (Marine Building)	Day Time dB(A)	67.3	42.8	75
			Night Time dB(A)	65.1	42.1	70
		Near Sub Station - 7B	Day Time dB(A)	68.1	42.8	75
			Night Time dB(A)	66.5	41.8	70
		JS – 1 (Nr. Lakhigam)	Day Time dB(A)	69.1	42.7	75
			Night Time dB(A)	64.9	42.3	70
		Behind S.S. - 11 (Silo)	Day Time dB(A)	68.1	42.8	75
			Night Time dB(A)	62.9	41.6	70
		Cylo Loading Point	Day Time dB(A)	69.1	42.8	75
			Night Time dB(A)	61.3	42.6	70
		GCPTL Gate	Day Time dB(A)	69.1	42.8	75
			Night Time dB(A)	69.1	42.1	70
		Lakhi Village (Primary School)	Day Time dB(A)	70.1	42.9	75
			Night Time dB(A)	62.1	41.7	70
		ERMS Workshop	Day Time dB(A)	66.5	36.9	75
			Night Time dB(A)	62.8	41.9	70
		Behind Pump House	Day Time dB(A)	68.1	36.4	75
			Night Time dB(A)	62.6	42.5	70
		Rock bond Approach (Jetty)	Day Time dB(A)	69.1	42.8	75
			Night Time dB(A)	64.2	42.1	70
		New Gate	Day Time dB(A)	69.1	43.2	75
			Night Time dB(A)	66.5	41.9	70
		Security Barrier Gate	Day Time dB(A)	69.1	42.6	75
			Night Time dB(A)	63.2	40.8	70
		JS – 2	Day Time dB(A)	64.4	42.7	75
			Night Time dB(A)	60.2	40.9	70
		Railway Dead End	Day Time dB(A)	69.1	43.9	75
			Night Time dB(A)	67.2	41.4	70
		Open	Day Time dB(A)	68.1	42.6	75

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

Sr. no.	Conditions	Status/Action taken																																
		Storage Yard -1	Night Time dB(A)	61.5	41.8	70																												
		Loco shed	Day Time dB(A)	67.6	42.6	75																												
			Night Time dB(A)	66.5	42.8	70																												
		Lakhi Village (below conveyer belt)	Day Time dB(A)	69.1	40.8	75																												
			Night Time dB(A)	60.6	41.9	70																												
		Piezometers analysis results during compliance period form October 2020 to March, 2021 as mentioned below.																																
		<table><tr><td>Test Parameter</td><td>Unit</td><td>Min</td><td>Max</td></tr><tr><td>Temperature</td><td>oC</td><td>30</td><td>30.5</td></tr><tr><td>pH</td><td>--</td><td>8.09</td><td>8.65</td></tr><tr><td>Total Dissolved Solids</td><td>mg/L</td><td>986</td><td>1810</td></tr><tr><td>Salinity</td><td>ppt</td><td>0.169</td><td>0.33</td></tr><tr><td>Chloride as Cl</td><td>mg/L</td><td>94</td><td>184</td></tr><tr><td>Depth of Water Level from Ground Level</td><td>meter</td><td>1.5</td><td>2.5</td></tr></table>					Test Parameter	Unit	Min	Max	Temperature	oC	30	30.5	pH	--	8.09	8.65	Total Dissolved Solids	mg/L	986	1810	Salinity	ppt	0.169	0.33	Chloride as Cl	mg/L	94	184	Depth of Water Level from Ground Level	meter	1.5	2.5
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<ul style="list-style-type: none">Monitoring Reports for the period of October 2020 to March, 2021 is enclosed as Annexure 3.Report confirms that there is no significant change in the quality in comparison to base line (wherever available)																																		
22	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s APDPPL on a regular basis to this Department as well as to the Ministry of Environment, Forest and Climate Change, Government of India.	Complying with. <ul style="list-style-type: none">APDPPL is regularly submitting six monthly compliance reports, which comprises of compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports, status of EMP etc.Last Compliance report including results of monitoring data for the period of April, 2020 to September, 2020 was submitted to MoEF&CC, New Delhi, Regional Office of MoEF&CC, Bhopal, Zonal Office of CPCB, Baroda, GPCB, Gandhinagar and RO Office, GPCB, Bharuch etc. vide letter no APPPL-EHS/MOEF RO/EC Comp (I&II) dated 25.11.2020 in soft copy via mail dated 25.11.2020Compliance reports along with monitored data are available on company website i.e. www.adaniports.com/ports-downloadsSame is being regularly submitted to concerned authorities.Please refer below for the details regarding past 7 compliance submissions. <table><tr><td>S. No</td><td>Compliance Period</td><td>Date of Submission</td></tr><tr><td>1</td><td>Apr'17 to Sep'17</td><td>28.11.2017</td></tr></table>					S. No	Compliance Period	Date of Submission	1	Apr'17 to Sep'17	28.11.2017																						
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**Part B: Six monthly compliance report for CRZ Clearance/recommendation for development of Multi Cargo Port Terminal Phase – III**

Sr. no.	Conditions	Status/Action taken		
		2	Oct'17 to Mar'18	28.05.2018
		3	Apr'18 to Sep'18	23.11.2018
		4	Oct'18 to Mar'19	29.05.2019
		5	Apr'19 to Sep'19	20.11.2019
		6	Oct'19 to Mar'20	20.05.2020
		7	Apr'20 to Sep'20	25.11.2020
23	Any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection / management purpose shall also have to be complied with by M/s APDPPL.	Noted and agreed to comply with Any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection.		

ANNEXURE- 1

ACTION TAKE REPORT ON PH POINTS

Annexure – 1
Action taken on PH commitments

Status of the action item of public consultation points

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
1.	Shri Manaharbhair Gohil, President Jilla Panchayat Village: Lakhigam, Taluka: Vagra, District: Bharuch	<ul style="list-style-type: none"> Participating the public hearing he said that, he has studied the EIA report which is misleading. Five notices have been issued to the unit by GPCB but the data presented in the presentation are really shocking. There is increase in noise pollution due to company. All the improvements made by the unit are only during last three months. Tyre washing of Vehicle is not carried out. Equipment's purchased for maintaining cleanliness is not used regularly and there is no proper implementation of instructions given by GPCB through the notices. Further he made following observations /suggestions: <ol style="list-style-type: none"> Company has not taken permission from village panchayat for installation of conveyor belt passing thorough the road. Transportation of coal through trucks should be stopped. Precautions should be taken to avoid fire in coal storage area. "Court Commission" should be appointed for evaluation of current 		After completing his representation, he immediately left the venue.	Reply sent on 18 th March 2015 as he immediately left the venue. No further action is required. Copy already submitted to MoEF as a part of EIA Annexure -16.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>environmental condition of the company.</p> <ul style="list-style-type: none"> Finally, he told that he does not agree with the report of the company and raised strong objection against the expansion project of the company. He also pointed out that in the past three people already died due cargo vehicles of the company. 			
2.	Shri Pushkarsinh Rana, Village Dahej	<ul style="list-style-type: none"> He raised objection for selection of location for conducting Public Hearing and asked GPCB why Public Hearing is organized in Luvara village instead of Project site or Lakhigam itself and requested to appraise the site criteria for Public Hearing He asked that how many pages are used in EIA report and in comparison how many pages are used in Executive summary. He told that Executive Summary is of only 25 pages and that are very less as compared to pages of EIA report and it shows that company has hidden many 	<ul style="list-style-type: none"> Project Proponent informed that the decision rights for selection of location for the Public Hearing are with GPCB and normally PH location is decided based on the Notification of EC of MoEF. Representative of Project Proponent replied that EIA report is in three parts. EIA report included 268 pages, Annexures include 378 pages and appendix includes 264 pages making total report of 858 pages. Executive summary includes 25 pages. Executive Summary is prepared as per the guidelines under EIA Notification. The more pages are due to various annexures. 	<p>Regional Officer, GPCB clarified that w.r.t. selection of location for public hearing, the words used in the EIA notification are "at the project site or in close proximity" with this consideration as well as the availability of large ground area suitable for parking and accommodating as many people as possible, the Luvara village is selected as preferred location for public hearing as the same is 2 km away from the project site.</p> <p>Dist. Collector has informed to Project Proponent to communicate the changes</p>	<p>No further action required.</p> <p>No further action required.</p> <p>After obtaining CRZ recommendations from GCZMA vide their letter</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>information which is not acceptable to us. He also informed that this is a draft report only but the proponent never informing us whether clarifications are included in final EIA report or not?</p> <ul style="list-style-type: none"> • He asked the clarification whether project location is on land or in sea. Whether the land is allotted or not and who is owner of land? • What is meaning of MOEF? • As per Sr. No.6 table no.1.1 of Executive habitation in the villages or big town in expansion area. What is the location of Summary there is no expansion project 	<ul style="list-style-type: none"> • Project proponent informed that our port is functional and we have shown different components of the project in map. Two jetties in sea a trestle, rubble bund and back up area are already developed. Also, there is a railway yard for transportation of cargo. • The expansion proposed for carrying out reclamation is falling in intertidal area and therefore that land do not have any survey number. We have asked for permission and reclamation will be carried out after permission from MOEF. • The Project Proponent replied that MOEF stands for Ministry of Forest and Environment, Government of India • The project proponent replied that there is no habitation in the inter tidal land, proposed for reclamation 	<p>made in the draft EIA while finalizing the EIA to the concern representative.</p>	<p>14th March 2016, we have informed the concerned person about final EIA report for the proposed project and the source of availability on the MoEF website vide letter dated 17.03.2016 . No further action is required.</p> <p>No further action required</p> <p>No further action required.</p> <p>It is verified. No changes done.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> As per Sr. No.14 of table no.1.2 of Executive Summary, it is shown that Birla Copper is located at a distance of two km in North direction and Hindalco is located at a distance of 5.1 km in the North East direction. So two different locations are shown which is one location only He pointed out that in your report Sabarmati pond is shown and asked where it is located and from where this information you have gathered? He further aggressively clarified that people are living in these villages since many years and there is no Sabarmati Pond in existence in this area. Executive Summary includes widening of the Road and he asked which roads are to be widened. The proposed expansion is for the increase of capacity from 11.7 MMTP against the current actual handling which is less than 11.7 MMTP. So how pollution will be controlled for this expansion of capacity? 	<ul style="list-style-type: none"> The project proponent replied that verification will be done for Hindalco and Birla Copper and necessary changes will be made if, any. The Project Proponent has shown Map prepared and published by Survey of India in 2007 which shows Sabarmati pond. As per the instruction of Dist. Collector same is shown to Shri Pushkarsinh Rana The project proponent replied that proposal includes widening of the existing rubble bund which is inside the port. The project proponent replied that proposed expansion is for increasing the handling capacity from 11.7 MMTPA to 23 MMTPA and by doing this there will be reduction in pollution. We are having two jetties one in North direction and another in South direction. North Jetty is mechanized 	<p>Dist. Collector informed the villagers to make to the point representation and also drew their attention that if, they make proper representation then and then only their concern will reach to the appropriate authorities and we are here for the same purpose.</p>	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> The road starting from port up to Reliance is full of coal dust. Cleaning is going on since last 5 days only. High level of pollution is created in this area. This matter should come in writing. Equipment for cleaning of dust on the road is not used regularly. It is requested to show the details of equipment used in cleaning. The same is also informed to GIDC and GPCB but complaints have remained on papers only. Is there any role of GIDC in this matter? To whom we should approach when GIDC is allotting land to industries. This is the only platform where we can make the representation. Will there be any increase of capacity of railway loading silo and related infrastructure? 	<p>whereas In South jetty transportation of coal up to storage yard is being carried out through trucks. The proposed expansion includes mechanization of south jetty and transportation of coal through conveyor. Therefore, minimal transportation will be done through tucks. Therefore, there will be overall reduction in pollution due to 75% reduction of truck movement.</p> <ul style="list-style-type: none"> The Project Proponent informed that equipment for cleaning of road is used since last 1.5 years. In addition the company has purchased second equipment and same is also functional. The Project Proponent replied that Belt conveyor capacity is adequate and silo will be developed at the same place 	<p>Regarding the role of GIDC and GPCB, Dist. Collector clarified that Govt. is working for the people only.</p>	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> No employment is given to land looser of railway yard. Company should give Assurance for employment to land losers. The responsible officers of GIDC should also be required to remain present during Public Hearing. I am unable to understand data shown in 3.1 w.r.t. ambient air quality therefore, I request to explain He pointed out that as per Executive 	<p>where one silo already exists. There is no requirement of new land for this purpose.</p> <ul style="list-style-type: none"> Shri. Amish Trivedi, Representative of the project proponent replied that GIDC has allotted land on ROU basis and land for S&S yard given on lease basis. The Land acquisition is done as per agreement between land owner and GIDC. Company representative Mr. P. N. Roy chowdhury replied that there is no employment policy for land looser of ROU land. Only GIDC can answer on this issue. The project proponent replied that in India, norms of ambient air quality are already decided and parameters like PM₁₀, PM_{2.5}, SO₂NO_x etc are measured to decide the quality of ambient air. These parameters are decided by CPCB. If, these parameters are below the standards then they are acceptable. The results found during the study are within the acceptable limit, during study. The project proponent replied that as 		<p>action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>Summary 3.7.1 there is no fisheries and requested to inform the reason behind it. Fisherman have no option left and they have become unemployed for which companies are only responsible and therefore companies should provide employment to fishermen also.</p> <ul style="list-style-type: none"> As per Executive summary it is mentioned that tyre washing of vehicles is done but same is not being carried out. Company is doing transportation of coal through rail and truck. Dahej – IPCL road used for transportation of coal is passing 	<p>per the data of Gujarat, fisheries contribution of Bharuch is only 1% which is very less. Kutch is contributing 17%. Fisheries are of two types (i) Fisheries in sea and (ii) Fisheries of Jinga and other types in inland water. Adani company is not responsible for reduction in fisheries which is also evident from the following data (Gujarat State) Presence of Adani Company is since 2011. In 2004 when Adani was not presence the fisheries production was 7489 MT, in 2005-06 it was 8743 MT, in 2009-10 it was 14810 MT and in 2011-12 It was 12914 MT.</p> <ul style="list-style-type: none"> Project proponent replied that in proposed expansion project, for air pollution control, dust suppression system will be installed during construction activities, regular water sprinkling will be carried out on roads, tyre washing facilities to be provided to avoid carry forward of dust through tyres. The tyre washing facility will become functional from 1st June, 2015. Project proponent replied that we welcome your suggestions. Necessary survey will be done and appropriate steps will be taken. 		<p>Tyre washing facility is in place and other measures will be taken during construction and operation phase.</p> <p>No change in the route is required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>through Vadia village which is residential area and hotels are also located on that road. Instead of this, it is requested to use bypass road passing near GACL for the same.</p> <ul style="list-style-type: none"> I wish good luck to company with hope to do better work for environment. 	<ul style="list-style-type: none"> Project proponent conveyed thanks for his encouraging words. 		No further action required.
3.	Shri Jayatibhai Ahir Village - Luvara	<ul style="list-style-type: none"> I am Sarpanch of Luvara village. All companies are conducting public hearing and concerns of villages are considered. Our representations during public hearing of ONGC on the issues of storm water management of village are also to be considered. ONGC has helped villages in providing disposal system of rain water from village. Adani company has also helped for renovation of houses of Adivasis. Fishing nets are provided to fishermen. Adani company has 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. 		No further action required.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		sanctioned to build 55 houses out of which 11 houses are already constructed. There is reduction in air pollution after installation of belt conveyor belt by Adani company. It is also true that regular cleaning of roads are carried out by company.			
4.	Dahyabhai Ghanabhai Patel Village – Jageshwar	<ul style="list-style-type: none"> I do agree representation made by Manhabhai and Pushkarsinh. Conveyor belt should not be allowed through Jageshwar village. I hereby submit by representation in writing. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Written representation made by Shri Dahya bhai is accepted.	No further action required.
5.	Mayurdhvajsinh Village - Dahej	<ul style="list-style-type: none"> Officers of Adani Company are fooling villagers. 			
6.	Shri Nareshbhai Village - Lakhigam	<ul style="list-style-type: none"> This is expansion proposal for phase III. I request all to stay in Lakhigam and decide about pollution control. There is high level of pollution exists. What is the reason for 46 deaths in last 4-6 months? As shown in the report, monitoring is done at which locations in the village. 	<ul style="list-style-type: none"> Project proponent replied that with respect to ambient air parameters same are as shown in the table no. 3.1 of Executive summary. Monitoring equipment were placed at the (1) residence of Shri Dilipbhai in Luvara village, (2) residence of Shri Chhotubhai in Jageshwar village, (3) Residence of Shri Ganpatgiri in Ambetha village, (4) P J Chheda High School in Dahej and (5) Primary School in Lakhigam. 		

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> Pollution reaches to our houses and dust can be seen on the utensils for drinking water. Adani has manipulated with official record. There are issues for land losers and they do not get employment. We have to protest. All these expenses are also on the head on farmers. It is requested that company should provide employment to us on their own. Company should think about high pollution levels. 	<ul style="list-style-type: none"> This is false allegation and not acceptable to us. In existing project, out of 20 land losers 10 have been already given employment and for remaining 10 we have requested the families to give their nomination which we have not received from their side. The project proponent replied that they have already replied earlier to similar question. 		<p>No further action required.</p> <p>At present no action is pending</p> <p>No further action required.</p>
7	Shri Kalidas Rayjibhai Patel Sarpanch, Village - Jageshwar	<ul style="list-style-type: none"> In this region people are speaking wrong things. I would like to inform Dist. collector that poor people are exploited. Since 35 years people of Navinagari were not able to sleep peacefully and there was no repairing work was done for their houses but Adani foundation helped in renovation of 120 houses and also supported for food arrangement to masons while constructing houses. Nobody came for help from Taluka and District level. The plaster was falling in primary school classes, which was repaired by Adani Company. Camera system is also installed in High School 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. The project proponent has expressed thanks for appreciation. 		<p>No further action required.</p> <p>No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> Training programs for beauty parlor were organized by Adani. So in general we are getting good support from the company. Pollution is of many types and local people are aware about that. It is requested to Dist. Collector to pay attention for pressured being created on local people by sarpanch for the work which is not done by them. Adani has provided fishing nets to fishermen. Adivasi's are cutting trees for their survival needs so they should be given some work. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. 		No further action required.
8	Shri Bhagwanbhai Gohil, Village Paniyadara	<ul style="list-style-type: none"> At which locations EIA reports should be made available EIA report is published on GPCB website is in English. Why it is not published in Gujarati. It should be also given in villages. What will happen If, concentration of PM₁₀ in ambient air will increase from its limit of 100 mg/cum? Who will be responsible if, health of people will deteriorate. How much pollution will increase if, handling capacity increase from 11.7 MMTA to 23 MMTA. 	<ul style="list-style-type: none"> The project proponent replied that as per guidelines EIA report is prepared in English and executive summary is prepared in English as well as in Gujarati. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. 	<p>Regional officer of GPCB replied that EIA report is made available at following offices</p> <ol style="list-style-type: none"> District collector office, Bharuch District Development office, Bharuch District Industries Centre, Bharuch Taluka Development office, Tal. VagraDist.Bharuch Chief Conservator of Forest, Bhopal Regional officer, GPCB, Bharuch 	<p>No further action required.</p> <p>No further action required.</p> <p>No further action required.</p> <p>APDPPL is committed to give priority to</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> It is shown in the presentation that employment will be given to 1000-1300 people. We request that 85% of employment should be given to locals. As per page No.53 of EIA report it is mentioned that there is no tourism place in this area. Whereas, Lakhbava temple is already exist than why it is not shown in report? It is requested to announce that problem of coal dust in Lakhbava temple should be controlled As per Sr.10 page No.53 of EIA report, it is mentioned that there are 50 fishermen 	<ul style="list-style-type: none"> The project proponent replied that any project includes various phases like construction, transportation of goods etc. during construction phase employment will be given to 1000-1300 people. As per data of earlier two phase of development as of date 2/3 people are employed for transportation of goods are from Gujarat. Suitable action will be initiated on receipt of order for 85% employment of locals. The project proponent replied that EIA report included tourism places as per records of Gujarat Govt. Lakhbava temple is not a declared tourism place as per published list of places hence not included. However, we respect the religious importance of the place. The project proponent replied that we are having sympathy with your feelings. We have already taken maximum measures for Lakhbava temple as well as carried plantations of trees and cleaning activities in that area. We accept your suggestion. The project proponent replied that we have collected these data from fisheries department. 		<p>locals.</p> <p>No further action required.</p> <p>All the suggested measures are already taken and frequent cleaning will be done as and when needed. No further action required.</p>

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		are in Jageshwar village but fishermen are exist in all villages. Govt. records are false and it is their negligence which is misused. Companies are getting information five days in advance regarding visit of GPCB.			
9	Shri Ramanbhai Patel, Village: Luvara	<ul style="list-style-type: none"> Whose development is this? Only companies are growing. It is told to youth that they are locals. Even educated people are not getting employment. 50 students of Luvara village has completed course of ITI under GOLS in 2010-11 organized by GIDC but this certificate is not accepted to companies in Dahej region. It is requested to close this GOLS ITI program because it is not recognized. 	<ul style="list-style-type: none"> The project proponent replied that they have already replied earlier to similar question. 	Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
10	Shri Dipakbhai Patel Village: Jageshwar	<ul style="list-style-type: none"> I am working in a company where candidates with ITI course completed thru GIDC are not eligible for Apprenticeship. Youth of village is not having employment. 		Dist. Collector noted the matter and informed that he will take up the matter at right level.	No action required from company.
11	Shri Niteshbhai Patel Village: Luvara	<ul style="list-style-type: none"> There are issues related to employment to land losers in this area and representation was made to previous collector madam but till date we have not received proper response. 		Dist. Collector has informed that he has come across this issue but as this is not related to this public hearing and It will be taken separately. Even instructions have also come from CMO in this regard. Regarding bogus ITI necessary actions will be taken from Dist. Collectrate Office.	No action required from company.

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
12	Shri Sanjaybhai Gohil Village: Lakhigam	<ul style="list-style-type: none"> Officers of various companies provides medical van if, they have expansion project (i.e. when such public hearing to be faced) but if, anybody died near their gate they do not provide any ambulance. Companies are working like Britishers. There are incidences of two deaths on account of brain haemorrhage. Who will be responsible for ill health of children of villages 			No action required from company.
13	Shri Yogeshbhai Patel Village: Lakhigam	<ul style="list-style-type: none"> Can an arrangement for measurement of noise pollution in presence of village people be made? Conveyor belt is located near school which may impact due to high level of noise. 	<ul style="list-style-type: none"> Standards are defined for Noise pollution and measurements are also within the limits, GPCB may also do necessary inquiry. 	Collector has informed that GPCB will arrange for measurement of noise in presence of village people	No action required from company.
14	Shri Shankarbhai Rathod Village: Lakhigam NaviNagri	<ul style="list-style-type: none"> Adani foundation has provided support for raising the level of our houses and also constructed anganwadi Due to construction of jetty approach rock bund waters by Adani Company and Birla there is difference observed in currents of Sea which is impacting fishing activities. What will be the impact on fish due to proposed project. 	<ul style="list-style-type: none"> The project proponent has expressed thanks for appreciation. There will not be any impact on fish due to this proposed expansion 		<p>No further action required</p> <p>No further action required</p>
15	Shri Kishorbhai Rana Village: Dahej	<ul style="list-style-type: none"> Fishermen of this area are uneducated. It does not make any difference to them that who is running central government. They are in need of the survival of livelihood. I have uploaded the video on you tube for pollution created by Adani Company which you can see. Within the premises of Birla Copper around 100000 	<ul style="list-style-type: none"> Project proponent replied that your representation is right but Ports are necessary for the development of country. We have not created any hindrances or restricted access for fishing. They can continue the fishing activities. 		There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. There

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>Neem tries are planted where foot prints of coal dust is being observed while going to temple.</p> <ul style="list-style-type: none"> GIDC maps are getting revised as per the needs of the companies and village people are getting answer that again maps cannot be revised. It is requested to GPCB to provide contact numbers of the concern officer who can remain present at Dahej and may inspect the site on request through phone call while accident occur. 			<p>is no impact on fishermen livelihood due to project activity.</p> <p>No action required from company.</p>
16	Shri Pradeepbhai Thaker Member of Noise Pollution Environment Committee	<ul style="list-style-type: none"> I do agree the points raised by Shri Manhar Gohil and Shri Pushkar Rana. Company is not able to control the pollution in the present handling capacity than how permission can be given for increase in capacity, Company should be instructed for the improvement in six month and thereafter public hearing should be organized Company is carrying out the transportation of coal by over loading of the rail rack. There are no established rules and regulations for this. Dusting problem in Bharuch district is due to transportation of railway rack. If GPCB and MoEF ask than company says that this is the problem of railway. Medical check-up should be conducted in this area to know how many children are malnourished as well as how much 	<ul style="list-style-type: none"> The project proponent replied that issue is pertaining to Railway authority and the importer client. You may make representation before railway authority. 		No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<p>impact is occurring to their health.</p> <ul style="list-style-type: none"> Previously during the time of flood even after the request from Collector to provide support for "Chuno" no company has given any help so how their CSR activities can be considered. How much plantation is done? Source of Water and Power is not shown. Nobody had taken care for sprinkling of water during the incident of major fire occurred before two years. As per our suggestions, problems of ambient air quality have been reduced in one of the company in Ankleshwar. We are with the project but being Gujarati businessman you should take care of Gujarat The path for Narmada Parikrama is one km away from here and many people are coming from different regions. No officers from Dahej Industries Association is present in today's public hearing File of project for producing pure water from sea water is lying on table of officer of GIDC since last two years for which even grant is approved by Government 			

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
		<ul style="list-style-type: none"> Since, the time of IPCL request for the development of Hospital is made but till date it is on the paper No additional quantity of drinking water is given to village people by GIDC but at the same time industries are provided more water There is opposing of administration done by GIDC. The file has been put up to carry out plantation at local level but till date there is no clearance in this regard 	<ul style="list-style-type: none"> The project proponent requested the representative to mention the village to which he belongs. 	Regional Officer of GPCB informed that Mr. Pradip Thaker is from Ankleshwar area but without clarifying his location in beginning he started representation.	No actions required from company.
17	Shri Dimpalben Varmora Moverix Culture and Codes foundation Village: Luvara, Dahej, Lakhigam	<ul style="list-style-type: none"> We are running sports projects with support of Adani foundation. Using this sports platform we have done many good activities and some of the children have been taken to national level for sports competition. People have also expected same level of support from Adani Group. 	<ul style="list-style-type: none"> The project proponent expressed thanks for her appreciation 		Adani foundation is continuing CSR activities in the region. Details are being regularly submitted to MoEF with compliance report and also

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
					are part of the presentation given to EAC during the meeting.
18	Shri Rakesh Gohil Village: Lahigam	<ul style="list-style-type: none"> Who has prepared the EIA report and who has certified it No physical survey is carried out and during visit permission from Sarpanch should be taken How the mistake like mentioning the name of companies Hindalco and Birla Copper? I am not aware about their visit for physical survey With the issue of passing of Conveyor belt and w.r.t. the issue of land loser the company representative Mr. Trivedi always replies that we are making communication with GIDC but do not provide clarity. 	<ul style="list-style-type: none"> The project proponent replied that EIA report is prepared by M S Chola mandalam, Chennai which is QCI and NABET accredited agency. They have valid certificates. Base line survey, marine quality, government records and permissions as well as environment management plan are studied, reviewed and accordingly report is prepared There is adequate information covered in the report and survey is done as per the required procedure. The project proponent replied that they have already replied earlier to similar question. The project proponent replied that they have already replied earlier to similar question. 	Collector replied that for the issue of 200 land losers we will meet separately to resolve the issue.	No further action required

Sr. No.	Name of representative and address	Points Represented during Public Hearing	Answer given by representative of project proponent	Remark	Status of action Item as on 31.03.2021
19	Shri Rekhaben Village: Jageshwar	<ul style="list-style-type: none"> We are thankful to Adani Company for providing us the training on beauty parlour. 	<ul style="list-style-type: none"> The project proponent expressed thanks for appreciation 		No further action required

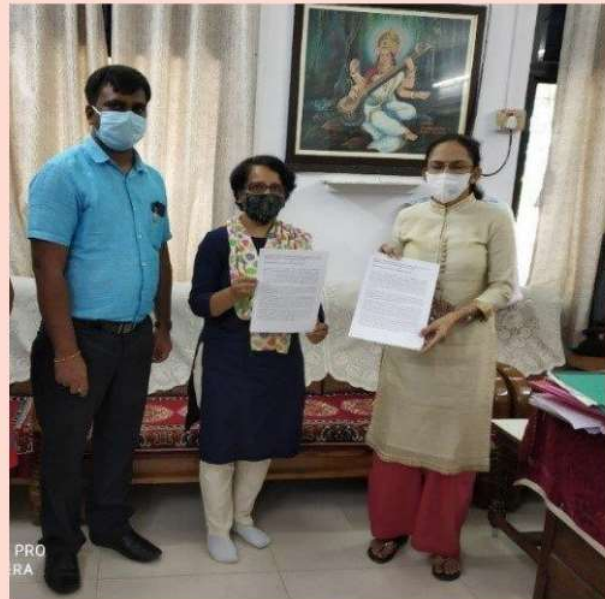
ANNEXURE- 2

CSR REPORT FROM OCTOBER, 2020 TO

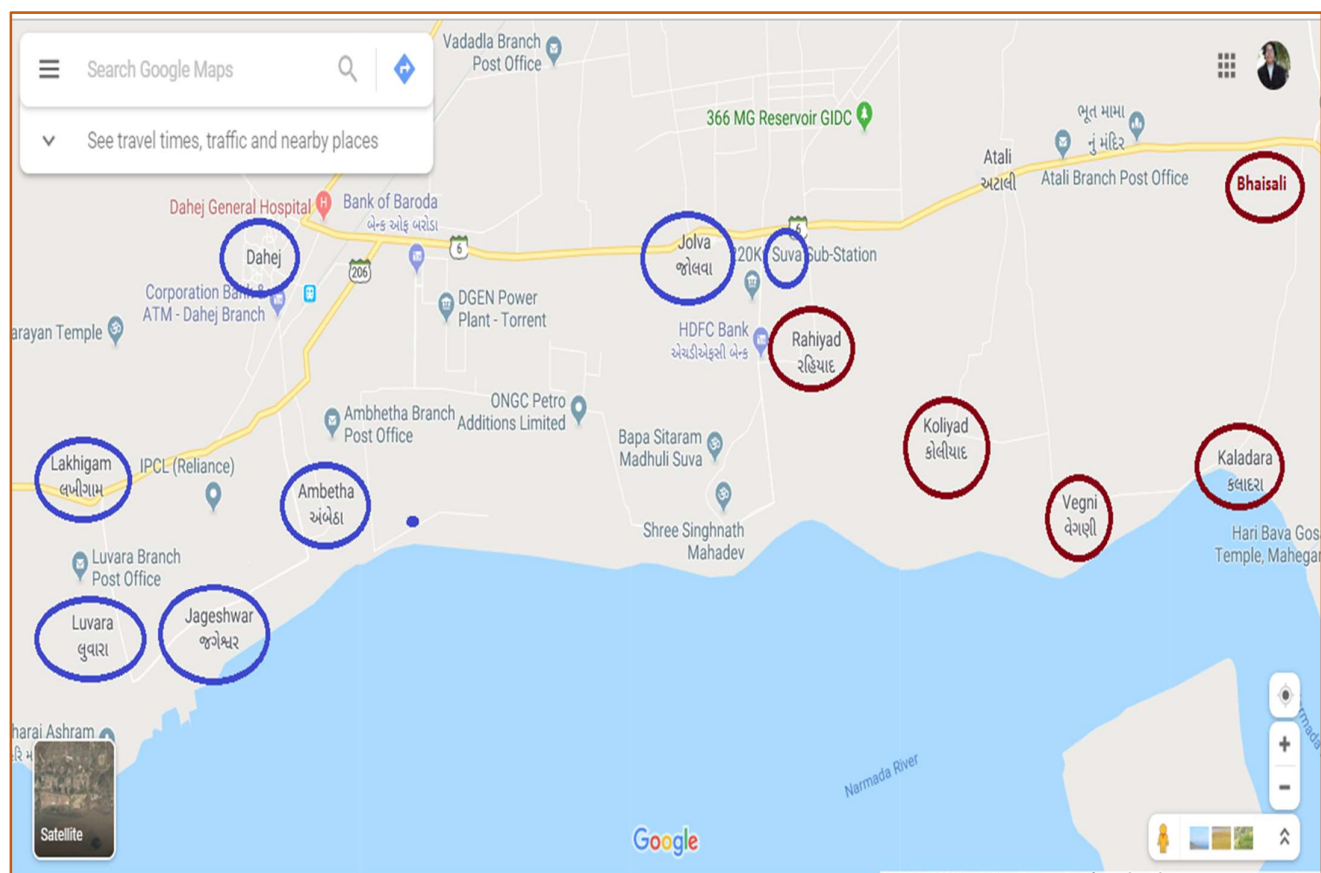
MARCH, 2021

CSR REPORT

(FOR THE PERIOD OF OCTOBER, 2020 TO MARCH, 2021)

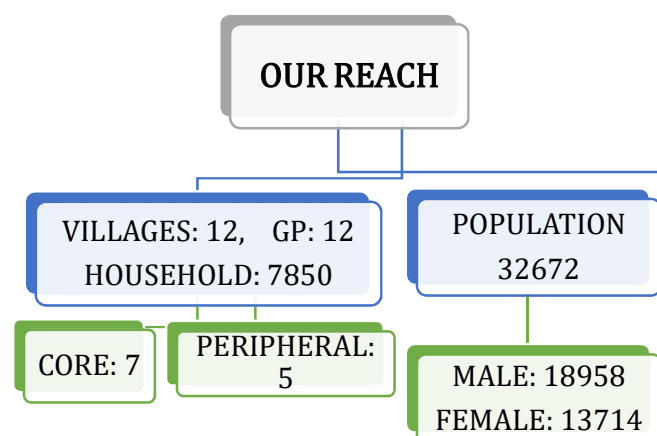


ADANI FOUNDATION, DAHEJ



CORE VILLAGES					
S.N	Village	Household	Population	Male	Female
1	Lakhigam	1217	4938	3144	1794
2	Luvara	385	1663	873	790
3	Suva	413	1920	973	947
4	Jageshwar	383	1571	818	753
5	Dahej	3426	13495	8345	5150
6	Jolwa	338	1442	807	635
7	Ambetha	347	1552	807	745
	Total	6509	26581	15767	10814

PERIPHERAL VILLAGES					
S.N	Village	Household	Population	Male	Female
1	Rahiyad	355	1694	862	832
2	Kaladara	393	1663	934	729
3	Vengani	202	908	462	446
4	Koliad	152	676	321	355
5	Atali	239	1150	612	538
	Total	1341	6091	3191	2900



Thematic Areas

1. Education
2. Community Health
3. Sustainable Livelihood Development
4. Community Infrastructure Development

SDG Alignment

Sustainable Development Goal 4

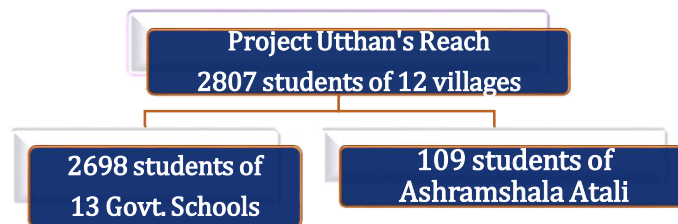
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

4.1.1 Proportion of children and young people (a) in grades 2/3; (b) at the end of primary; and (c) at the end of lower secondary achieving at least a minimum proficiency level in (i) reading and (ii) mathematics, by sex

4.2 By 2030, ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education

PROJECT UTTHAN



Selection of Utthan Sahayak: AF team met all Gram Panchayats and other stakeholders regarding vacancies of Utthan Sahayak. Stakeholders circulated the message of Utthan Sahayak in their whatsapp groups. As a result, AF got no. of CVs of the aspirants. An online interview was conducted in December 2020. On the basis of interview, candidates were shortlisted.

Support to Ashramshala Atali: Adani Foundation and Ashramshala Atali are constructing a dining hall in the campus. AF's contribution is of Rs.21 lacs and Rs.5 lacs would be bear by Ashramshala. School's old dining area is in critical condition. It's about to collapse. Assessing the severity of the situation AF & Ashramshala Atali took the decision for construction of dining hall. 200 students, teachers and other staff would avail the facility. Construction work is in progress.



Dining Hall construction work, Ashramshala Atali

Boundary Wall Construction at Kumarshala, Nabipur:

District Primary Education Officer, Bharuch requested AF team for construction of boundary wall of Kumar Prathamshala, Nabipur, Bharuch. AF team visited the school and had meetings with School Principal and teachers. This school is situated at a distance of 16 kms. from Bharuch having strength of 244 from standard 1st to 8. There was no boundary on 3 sides of the school and front side boundary was damaged. Pond at front of the school added safety concern of the students. AF Senior Management approved construction of boundary wall work. This work is under progress.



Boundary wall construction at Kumarshala, Nabipur

SPORTS

SDG Alignment

SDG 3: Good Health and Well Being Training to promote rural sports, nationally recognized sports, Paralympic sports and Olympic Sports

Lakhigam Premier League

Lakhigam Premier League 2021 cricket tournament ended on 27th February. In final match Shivam 11 won the trophy after defeating Lakhabava 11 by 6 wickets. Shivam 11 won the trophy 6th consecutive season. 30 teams of the village participated in this tournament.

Sh. Manoj Katar, COO, APDPPL, Mr. Shailesh Singh, HR Head, Mr. Jatin Bhadresra, Corporate Affairs, Lakhigam Sarpanch and other Panchayat members gave trophies and medals to winner & runner up team.

AF provided t-shirts, trousers, sports materials and a pitch developed for practice purpose in Lakhigam High School.



Inter School Volleyball Championship for Girls & Boys: AF team had meetings with Principals of all 3 high schools of project area Lakhigam, Jageshwar and Dahej for Inter Village Volleyball Championship for Boys and Inter School Championship for Girls. Gram Panchayats, School teachers and other stakeholders welcomed the initiative. Teachers of P.J.Chheda High School played the role of coach and referee. Govt. Secondary and Higher Secondary School, Lakhigam and P.J.Chheda High School, Dahej provided their ground for the championship.

Adani Foundation & Adani Petronet Dahej Port Private Limited organized Inter School Volleyball Championship for Girls and Boys with 3 High Schools of core villages. 42 girls and 98 boys participated in the tournament. Among girls Govt. Secondary & Higher Secondary won the trophy and in boys P.J.Chheda High School lifted the winner's trophy. This tournament is the first one specially organized for school students in Special Economic Zone, Dahej.

AF provided material support in form of t-shirts, trousers, shoes, net, volleyball & trophies.



Drawing Competition

On the occasion of Road Safety Week, a drawing competition was organized in 3 Primary Schools

- Govt. Primary School, Lakhigam
- Govt. Primary School, Luvara and
- Govt. Primary School, Jageshwar.

Total 60 students (20 students from each school) participated in the competition. This competition was organized by Adani Petronet (Dahej) Port Private Limited on Road Safety Closing Ceremony. In COVID phase it was a difficult task but AF team in close coordination with School Management and parents made this event successful.

In closing ceremony function winners of all 3 schools: 9 students were felicitated by Sh. Manoj Katar, COO, and APDPPL; Mr. Shailesh Singh, Head – HR, APDPPL and Mr. Ramesh Lenka, Head – Security, and APDPPL. Students' drawings were displayed on stage. These drawings were the point of attraction for all invitees – Police Personnel, port employees and village people.



COMMUNITY HEALTH

SDG Alignment

Goal 3. Ensure healthy lives and promote well-being for all at all ages

Project Swasthya

Adani Foundation supported Primary Health Centre, Dahej with HbA1C Analyzer, Bio chemistry Analyzer and multi diagnostic kits. People having complain of hypertension and diabetes undergo different tests, treatment, counselling and follow up. PHC, Dahej provides patient details to AF and AF do follow up of chronic patients.

Sh. Manoj Katar, COO, Adani Dahej Port, AF team, Dr. Pravinsig, Taluka Health Officer, vagra, Dr. Sabina, Medical Officer of Dahej PHC and other staff of PHC were present on inauguration event.

People of nearby villages undergo tests for glucose, urea, cholesterol, creatinine, SGOT, SGPT, uric acid, Alkaline phosphate, HDL, Bilirubin, CRP, triglycerides AT NO COST in PHC.

Progress so far

- PHC Dahej screening data : diabetis: 88, hypertension: 16
- Meeting with officials of Sub Centre, Ambheta regarding patients of hypertension and diabetes. 30 such patients are under treatment in this centre
- AF team along with ASHA conducted household visits and counselling of 12 patients having hypertension and 16 diabetic patients in Barad and Navinagri hamlets of Jolva village



Vehicle support in Pulse Polio Campaign

Adani Foundation is providing vehicle support to Community Health Centre, Vagra for more than six years. Cold chain management of polio vaccines is a big challenge. Due to AF support vaccines reached polio booths on time and **2417 children of 13 villages** get vaccinated. These villages are: Kalm, Limdi, Ambhel, Goladra, Narnavi, Trakal, Kesvan, Muler, Gandhar, Paldi, Chachavel, Badalpura and Aladra.



SUSTAINABLE LIVELIHOOD DEVELOPMENT

PASHUDHAN PROGRAM

SDG Alignment: 2/1.1, 2.5

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

Pashudhan Program is operational in 12 villages of project area with support of BAIF since November 2017. 1st phase of the project is completed on 31st March 2020. A new MOU is signed between Adani Foundation and BAIF for 2nd phase of the project. Project duration is of 3 years 2020 – 2023.

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



In 1st phase beneficiaries get acquainted with animal management practices and their health care, green fodder development, kitchen gardens, vermi composting. On the basis of good outcome of the program, project is extended for next 3 years.

IMPACT OF CATTLE BREEDING PROGRAM OCT 2020 TO MAR 2021

At a Glance		
S.N	Particulars	Nos.
1	Total Villages	12
2	No of Families Benefitted (Direct)	
3	No of Artificial Insemination (Cow +Buffalo)	312
4	No of Confirm Pregnancy (Cow + Buffalo)	154
5	No of female Calving (Cow+Buffalo)	81
6	No of male Calving (Cow+Buffalo)	75

S.N	Particular	Amount (in Rs.)
1	Total 81 female calves born in project villages & their age wise valuation	162000
2	Total 75 male calves born in project villages & their age wise valuation	75000
4	Wormi Compost 2.10 ton sold @ Rs.5 in industrial area Dahej	10500
5	Savings on fodder by use of Chaff Cutter	5803
6	Savings on green fodder	335200
	Total	5,88,503/-

IMPACT OF CATTLE BREEDING PROGRAM

Year 2017								Year 2020							
S. N	Village	No of House hold	Animal Holding Family	Cow	Buffalo	Animal Total	Beneficiaries in co-operative	Milk Collection of Co-operative per /day	Animal Holding Family	Cow	Buffalo	Calf	Animal Total	Beneficiaries in co-operative	Milk Collection of Co-operative per /day
1	Lakhigam	273	37	12	132	144		0	36	26	80	71	177	0	0
2	Luvara	553	41	31	152	183		0	54	43	214	126	383	0	0
3	Jageshwar	180	27	4	81	85	23	218	31	6	74	57	137	30	285
4	Ambheta	472	34	0	108	108		0	31	0	60	45	105	0	0
5	Dahej	1307	31	26	224	250		0	25	82	199	165	446	0	0
6	Jolva	637	9	124	78	202		0	5	71	1	22	94	0	0
7	Suva	332	94	22	236	258		0	57	33	104	109	246	0	0
8	Rahiyad	248	38	0	103	103		0	43	0	87	71	158	0	0
9	Koliyad	238	29	12	149	161		0	24	42	104	98	244	0	0
10	Atali	452	20	4	118	122		0	24	15	93	52	160	0	0
11	Vengni	183	49	78	108	186	41	285	48	121	74	169	364	49	396
12	Kaladra	351	77	207	440	647	54	344	57	103	176	177	456	61	429
	Total	5226	486	520	1929	2449	118	847	435	542	1266	1162	2970	140	1110

Impact

- Animal population is increased from 2449 to 2970
- No. of animals increased in Lakhigam, Luvara, Dahej, Rahiyad, Koliyad, Atali & Vengani. In other villages nos. reduced to industrialization as more land is acquired for industries.
- 1 Dairy is established by beneficiaries at Luvara Village
- Green fodder cultivation is started with available land
- Improvement in animal husbandry practices like calf caring, artificial insemination, sorted semen AI
- Vermi compost as additional source of income

Repeat Breeder Animal Report Period: Oct 2020 to Mar 2021											
S. N	No. of Beneficiaries	No. of Village	No of Animals	Average Dry Month	No of Average AI	Average Cost of Insemination in Rs.	Average Expenditure on infertility treatment in Rs.	Total expenditure in Rs.	Average Per Animal Expenditure Rs	Through Pashuon Program	Result in the Month
1	2	1	2	6	5	1400	3000	4400	366.667	1.5	3

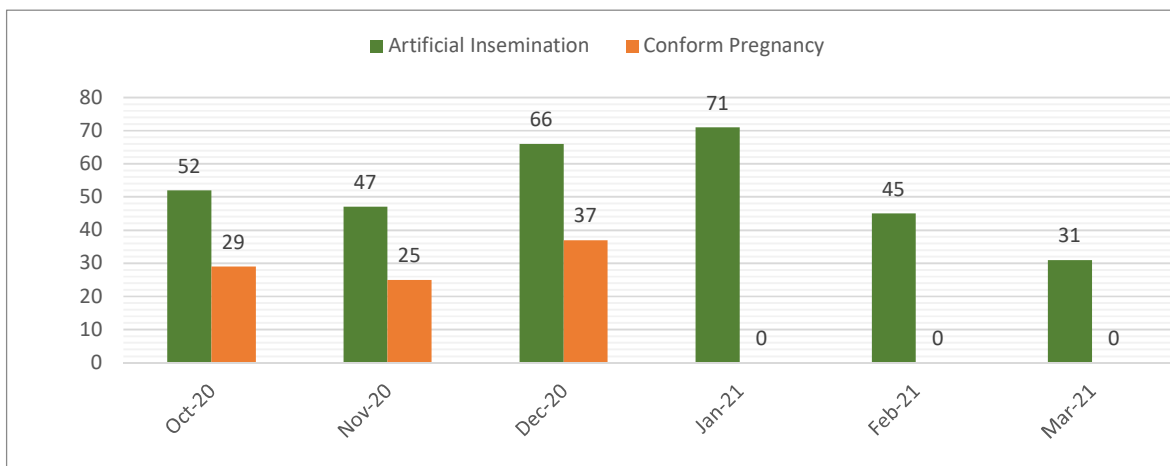
CREATED CATTLE ASSET VALUE PERIOD OCT 2020 TO MAR 2021							
S.N	Age (Month)	No of Female Calf			Market Rate (in Rs.)	Total Value (in Rs.)	Remarks
		Cows	Buffalo	Total			
1	0 To 6	27	54	81	2000	162000	
	Total	27	54	81	2000	162000	

MALE CATTLE ASSET VALUE PERIOD OCT 2020 TO MAR 2021							
S.N	Age (Month)	No of Male Calf			Market Rate (in Rs.)	Total Value (in Rs.)	Remarks
		Cows	Buffalo	Total			
1	0 To 6	31	44	75	1000	75000	
	Total	31	44	75	1000	75000	

AI performed v/s Pregnancy Detected

Sold Pregnant Animal Asset Value Period Oct 2020 To Mar 2021					
Sr. no	Animal Breed	Pregnant Animals	Market Rate Rs.	Total Asset Value Rs.	Remark
1	Bufflo	3	44000	132000	After AI 3 to 6 months Pregnant Animal
	Total			132000	

Month	Artificial Insemination			Confirm Pregnancy			Conception Rate %
	Cow	Buff	Total	Cow	Buff	Total	
Oct-20	21	31	52	10	19	29	56
Nov-20	7	40	47	3	22	25	53
Dec-20	16	50	66	7	30	37	56
Jan-21	31	40	71			0	0
Feb-21	16	29	45			0	0
Mar-21	19	12	31			0	0
Total	110	202	312	20	71	91	29



Note: The Animal Husbandry department's Bharuch district artificial insemination rate is 42%.

Linkages with Government Scheme

Objective:

- Beneficiaries avail the benefits of Govt. schemes
- Promotion of Natural Farming

Adani Foundation Dahej facilitated animal holder **4 beneficiaries of Jageshwar, Luvara and Lakhigam village** for Govt. of Gujarat's Scheme **Assistance to Pastoralists on purchase of Power Driven Chaff cutter**

Into these animal holder 2 beneficiaries Mrs. Rakshaben V. Patel and Mrs. Daxaben M. Patel got **75% subsidy** in purchase power chaff cutter. Total price of one chaff cutter is **Rs. 27950/-**.



Pashudhan Program's beneficiaries having agriculture land registered On 11th Aug under Govt. scheme are getting benefits.

Adani Foundation Dahej facilitated these **3 beneficiaries** for Govt of Gujarat's Scheme to assist a farming family engaged in **full natural farming based on indigenous cows in maintenance cost for one cow (2020-21)**.

These beneficiaries are: Shri Manjulaben Anopsinh (widow), Atali; Mr.Balvantsinh Chouhan, Atali and Mr.Yogendrasinh Chauhan, Atali. Beneficiaries are getting **Rs.900 per month** maintenance cost of cow.

Cheque No.		Withdrawal	Deposit	Balance
79-04-2019	BY CASH			
15-04-2019	SMS charges APR-2019			500.00 Cr
05-07-2019	Int Paid: 29-04-2019 TO 30-04-2019	17.70		482.30 Cr
30-08-2019	SMS charges JUL-SEP19		5.00	487.30 Cr
17-09-2019	FROM 29-04-2019 TO 28-07-2019	17.70		469.60 Cr
		54.00		415.60 Cr
	Clr Bal:	408.60	Unclr Bal:	0.00
05-10-2019	Int Paid: 01-02-2019 TO 01-02-2019			415.60 Cr
04-11-2019	SMS charges OCT-2019			394.90 Cr
18-12-2019	FROM 29-07-2019 TO 28-10-2019	54.00		340.90 Cr
02-01-2020	Int Paid: 02-10-2019 TO 31-12-2019		3.00	337.90 Cr
06-02-2020	NEFT-RBI057074012152-DISTRICT TREASURY, E		15600.00	15937.90 Cr
13-03-2020	SMS charges JAN-MAR20	17.70		15860.20 Cr
18-03-2020	FROM 29-10-2019 TO 28-01-2020	54.00		15306.20 Cr
08-04-2020	Int Paid: 01-01-2020 TO 31-03-2020		70.00	15236.20 Cr
11-04-2020	Int Paid: 01-04-2020 TO 31-05-2020		67.00	15169.20 Cr
19-06-2020	SMS charges APR-JUN20	17.70		15051.50 Cr
04-09-2020	Int Paid: 01-06-2020 TO 31-08-2020		97.00	14954.50 Cr
16-09-2020		17.70		14776.80 Cr
07-10-2020	NEFT-DUMR2020124743-PRODUCCT DIRECTOR BNY		7700.00	14006.80 Cr
27-10-2020				14006.80 Cr
				30340.80 Cr

CATTLE BREEDING CENTRE

BAIF Institute for Sustainable Livelihoods & Development (BISLD), Gujarat established Cattle Breeding Centre at Dahej village. 1 Officer in Charge and 1-part time Coordinator are appointed for the project. This centre is equipped with cryogenic containers for frozen semen and liquid nitrogen supply. Artificial insemination is provided at doorsteps of beneficiaries on participatory basis.

AI, PD, Calving Details Oct 2020 to Mar 2021													
S.N	Village	AI			Examination			Pregnant			Calving		
		Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total	Cow	Buff	Total
1	Lakhigam	1	40	41	2	24	26	2	16	18	7	20	27
2	Luvara	15	47	62	10	32	42	9	15	24	3	9	12
3	Jageshwar	0	15	15	1	9	10	1	6	7	4	6	10
4	Ambheta	0	1	1	0	0	0	0	0	0	0	2	2
5	Dahej	14	43	57	11	29	40	8	20	28	17	28	45
6	Jolva	0	1	1	0	1	1	0	1	1	0	0	0
7	Suva	0	3	3	0	2	2	0	2	2	0	0	0
8	Rahiyad	0	6	6	0	0	0	0	0	0	0	5	5
9	Koliyad	2	5	7	11	8	19	7	6	13	4	15	19
10	Atali	3	7	10	4	10	14	2	8	10	1	1	2
11	Vegni	59	5	64	52	3	55	22	3	25	19	6	25
12	Kaladra	16	29	45	8	27	35	6	20	26	3	6	9
	Total	44	121	312	41	22	244	28	13	154	26	42	156

Sex Sorted Semen Details Oct 2020 to Mar 2021												
S.N	Month	Target	Cow AI	Buffalo AI	Total AI	Cow Exam	Buffalo Exam	Total Exam	Cow PD	Buffalo PD	Total PD	No. of Beneficiaries
1	Oct	4	2	5	7	2	3	5	2	1	3	7
2	Nov	4	1	7	8	1	4	5	1	0	1	8
3	Dec	4	0	4	4	0	0	0	0	0	0	3
4	Jan	4	2	5	7	0	0	0	0	0	0	5
5	Feb	4	4	4	8	0	0	0	0	0	0	4
6	Mar	4	3	0	3	0	0	0	0	0	0	3
Total		24	12	25	37	3	7	10	3	1	4	30

CATTLE BREEDING CENTRE

BAIF Institute for Sustainable Livelihoods & Development (BISLD), Gujarat established Cattle Breeding Centre at Dahej village. 1 Officer in Charge and 1-part time Coordinator are appointed for the project. This centre is equipped with cryogenic containers for frozen semen and liquid nitrogen supply. Artificial insemination is provided at doorsteps of beneficiaries on participatory basis.



Nayanaben Jayeshbhai Ahir
Village: Rahiyad
Female calf: Gir



Ahir Dineshbhai Bhavanbhai
Village: Dahej
Female calf: Murrah



Mr. Yogendrasinh Chouhan,
Village: Atali
Female calf: Gir

INFERTILITY CAMP & GENERAL HEALTH CAMP REPORT

OBJECTIVE

- To reduce long inter-calving period by early detection of causes of infertility.
- Unproductive animals become productive.
- Better health and production by early diagnosis and treatment.

5 nos. of Infertility Camps and General Health Camps organized in Luvara, Jageshwar, Rahiyad, Koliyad & Dahej village. In these camps 162 animals of 86 beneficiaries were treated. Camps were held at 2 locations of each village. Animals were treated by Dr. AmolVagh of BAIF Institute Sustainable Livelihood Developments and Dr.Dhanajay Sinkar of KrushiVigyan Kendra, Chasvad (Bharuch). Interactive sessions were also held with beneficiaries and following points were observed.

- During rainy season grass is the main feed of animals that affects digestive system of animals and causes diarrhea.
- Due to poor post calved management Mastitis happens in new calved buffalos
- In cases of Goat there is problem of Lameness which happens due to poor bed arrangement at backyard side.
- Problem of abortion at advance stage of pregnancy happens due to fight in herd during grazing so advised to keep such animals at backyard only
- Overall Health condition of animals presented for treatment was good.
- Heifers having avg. age of 6 to 8 years are having problem of undeveloped uterine organs which is due to deficiency of Trace minerals.
- The buffalos have problem of anestrus. This might be of two factors: lack of knowledge on minerals feed and heat detection in buffalos.
- Cattle dwellers were educated about silent heat and heat sign particularly in buffalos
- Due to unavailability of veterinary aids animals are not able to get proper treatment at initial stage of disease.



S.N	Particular	Date	Village	Treated Animal	Beneficiaries
1	Infertility & General Health Treatment Camp	24-12-21	Jageshwar	36	17
2		23-01-21	Koliyad	51	15
3		25-01-21	Dahej	49	15
4		06-02-21	Rahiyad	26	21
	Total			162	68

Animal vaccination (Cows & Buffalos)

OBJECTIVE

- To increase awareness among livestock holding families for periodic deworming
- To improve health condition of milking animals for increasing productivity
- To reduce calf mortality occurred due to heavy endoparasitic infestation

Vaccination Status					
S.N	Village Name	Beneficiaries	Cow	Buffalo	Total Vaccination
1	Lakhigam	22	46	105	151
2	Luvara	54	75	319	394
3	Jageshwar	4	8	47	55
	Total	80	129	471	600

Vaccination & Deworming for Goat & Sheep

Objective

To reduce mortality and morbidity among goat and sheep and improvement in their health
 Sheep and goat component is first time introduced in Pashudhan Program. Beneficiaries shared their feedback with AF team. They are very much thankful for such initiative directly related to their livelihood.



S. N	Village	Deworming				Liver Tonic				Vaccination			
		No. of beneficiaries	Sheep	Goat	Total	Beneficiaries	Sheep	Goat	Total	Beneficiaries	Sheep	Goat	Total
1	Lakhigam	5	70	104	174	5	50	102	152	4	40	60	100
2	Luvara	15	0	107	107	15	0	95	95	0	0	0	0
3	Dahej	8	40	179	219	3	36	73	109	0	0	0	0
	Total	28	110	390	500	23	86	270	356	4	40	60	100

Calf Rearing Activity

Background

The performance of any individual animal is dependent on its genetic potential and the environment. Proper breeding has increased the yield potential of our cows and buffaloes but many of these animals are unable to express their full potential for milk production due to poor growth and nutrition. Proper management of young calf is prerequisite to the success of any dairy farm. An optimal level of nutrition in early life favors faster growth and early maturity. The health of a calf directly effects the reproductive capacity as well as the milk production. The initial months in a calf's life are of the utmost importance as it forms the foundation for a high milk-yielding animal.

Calves should be reared carefully to obtain optimum gain in body weight, so that they attain about 70-75 percent of mature body weight at puberty. Poor feeding of young calves leads to higher age at first calving and overall loss of productivity in the life span.

Growth phase of the cows & buffaloes is confine to the first two years of its life. It is important that the calf is given nutritious feed in the form of concentrates or fodder right from its 4th month of age. This will ensure good milk yield when the calf becomes a cow or buffalo. The age at which feeding starts naturally becomes important and it is recommended that right from the 4th month of age concentrate feed should be made available to the calf. If the animal is introduced into the feeding schedule after the 6 month of age the desired effect may not be to the full extent. On an average it is assumed that the calf will come to puberty around 18 - 20 months of age and will become a cow by calving for the first time around 28 - 29 month of age.

Objective of activity:

- Improving the breed and productivity of the local milch cattle
- Improving the nutritional and financial security of families engaged in dairy
- Improving the calf health

On 19th February 2021 Calf Rearing Activity held in Luvara village. Objective: Promotion of Cattle feed & mineral mixture among beneficiaries to establish an ideal management practice in animal holding families.

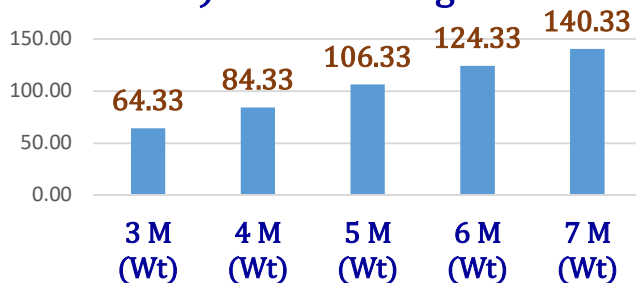
15 beneficiaries of 4 villages- Lakhigam, Luvara, Jageshwar & Dahej came to Luvara village for feed collection. Under the calf rearing activity, 334 kg feed distributed per beneficiary with 8 kg mineral mixture. Beneficiaries shared their feedback that these feed would help in animals' height & weight gain and that leads to pregnancy in 3 to 4 years. Calves of 3 to 6 months were selected for above activity. After one month of feed distribution measurement of calves would be taken to see the impact of the feed.



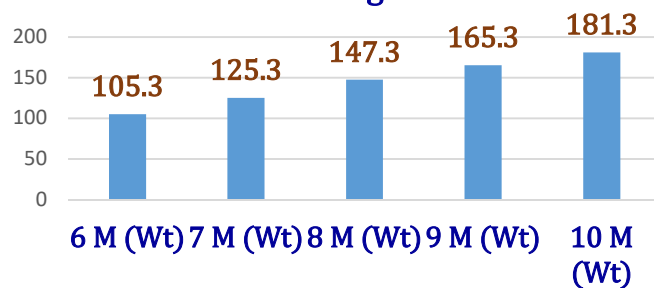
Importance of Calf Rearing Program

- **Get their heifers milk sooner:** Dairy farmers can increase the herd size with the new replacement cows grown in their farm
- **Retain and grow the animals with improved genetics:** Dairy farmers will be able to retain good quality genetics in their farm itself. No need to purchase good genetics from outside of their dairy farm.
- Farmers will get higher price for dairy cows and buffaloes due to increased demand for good quality animals.
- If the dairy producers can develop their own animals faster, then the average production per animal can be raised with improved genetics.

AVG WEIGHT GAIN IN GIR CALVES (AGE GROUP 3 -7 Months) in Succeeding months



AVG WEIGHT GAIN IN SURTI BUFF CALVES (AGE GROUP 3 -7 Months) in Succeeding months

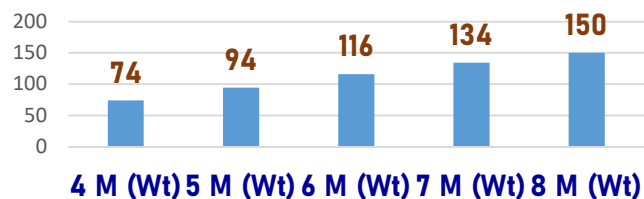


Output / Impact:

- On an average 10-15% rise in body weight was noted during the interval.

Farmers understand that balanced concentrate ration, feed supplements, and periodic deworming are prerequisite for better growth and for early maturity

AVG WEIGHT GAIN IN MEHSANI BUFF CALVES (AGE GROUP 4 -8 Months) in Succeeding months



Care & Management of Pregnant Animals

Pregnant animals require energy for growth as well as to maintain pregnancy and need to gain even more weight during the last trimester. Failure to meet these energy demands impacts the fetus in utero, colostrum production and the postpartum interval to return to estrus and rebreed. Both the growth and performance of this calf and the age (weight) of the presumptive next calf can suffer the negative consequences. During last three months of pregnancy when fetal growth is very rapid, a special pregnancy allowance of about 1-2 Kg of concentrate should be offered. Special care should be taken regarding mineral and vitamin deficiencies because they can have a serious adverse effect on the newborn calf.

Adequate health care and nutrition can ensure rapid growth of female calf as well as attaining puberty at an early age. Timely insemination of such animals can help them to calve at 2 to 2 ½ years of age. As foetus develops rapidly during last 3 months of pregnancy, adequate care needs to be taken during this time.

Background of the program area

Most of the livestock holding families prefers to provide concentrate to lactating animals only. When their animals become pregnant of 7 months they dry their animals and at the same time stop to offer concentrate. Due to negligence during last trimester of pregnancy most of the animals faces problem of Difficulty in calving, Physiological edema before pregnancy and Retention of Placenta, Milk Fever, ketosis after calving. Undernourished cows and buffaloes also gives birth of weak calves resulting increased mortality percentage in calves.

Objective

- Successful completion of pregnancy at term
- Birth of healthy and viable newborn with optimum birth and potential weaning body weight.
- To optimize health, lactation and reproductive performance of animals.

Activity Input

- Balanced Concentrate ration
- Feed Supplements (Mineral Mixture)

Beneficiaries Distributed Mineral Mixture 2020-21							
S.N	Village	Beneficiaries	Total Mineral KG	Productive Animal	Pregnant animal	Heifer Animal	Total Animal
1	Lakhigam	3	15	9	4	2	15
2	Luvara	8	44	25	19	0	44
3	Jageshwar	20	80	49	28	3	80
4	Dahej	15	74	37	27	10	74
5	Suva	1	3	3	0	0	3
6	Rahiyad	15	82	38	35	9	82
7	Koliyad	5	46	25	15	6	46
8	Vegni	9	42	26	10	6	42
9	Kaladra	8	46	24	16	6	46
	Total	84	432	236	154	42	432

Activity wise Beneficiaries Contribution

Objective

- Beneficiaries involvement
- Sustainable growth

Beneficiaries Contribution Oct 2020 to Mar 2021								
S.N	Activity	Particular	Unit	Unit cost	Unit	Contribution Per Unit	Total Contribution	Percentage %
1	Conventional AI	Door service	AI	450	147	30	4410	7.50%
2	Sorted Semen AI	Door service	SS AI	1050	33	265	8745	25.24%
3	Animal Health care	Mineral Mixture	KG	130	432	20	8640	15.38%
4	Green Fodder Cultivation	Stump(Seed)	Nos	2	14500	0.20	2900	10%
5	Calf Rearing	334 KG feed + 8 Kg Mineral Mixture	Per Calf	10000	15	2000	30000	20%
6	Additional Income Source	Vermicomposting Tools	Per Unit	5500	5	550	2750	10%
7	Kitchen Garden	Drip Irrigation	Per Unit	5000	3	500	1500	10%
		Total					58,945	

Animal Husbandry Training

OBJECTIVE

To increase awareness on animal management practices

3 nos. of trainings on Animal Husbandry were held in 2 villages Jageshwar & Rahiyad. 87 beneficiaries including 54 women participated in these 3 training programs. Dr. DhanajayShikar, Veterinary Officer of Krishi Vigyan Kendra was the resource person.

Points of Discussion in trainings

- Animal Housing
- Breed of Animals
- Importance of Artificial Insemination
- Balanced Concentrate Formulation
- Eradication of Ectoparasites
- Calf Rearing
- Care of Pregnant Animals
- Clean Milk Production
- Diseases in Bovines
- Importance of Feed Supplements

Output

- Increased awareness among farmers for scientific breeding resulted increased no of insemination
- Increased awareness for feed supplements resulted gradual increase in production
- Increased awareness for health care services resulted excellent response for breeding activity & deworming program
- Become curious to know innovative technologies helps them to improve status of their animals and production
- Concentrating on heifer rearing



Webinars: 2 nos. of webinars organized with cattle dwellers with support of District Animal Husbandry Department, Bharuch and Krishi Vigyan Kendra, Chasvad.

OBJECTIVE

To provide platform for farmers to share information about modern scientific practices in Cattle Management

Webinar with support of District Animal Husbandry Department, Bharuch organized on 6th October, 2020 with 30 beneficiaries including 15 women.

Points of Discussion

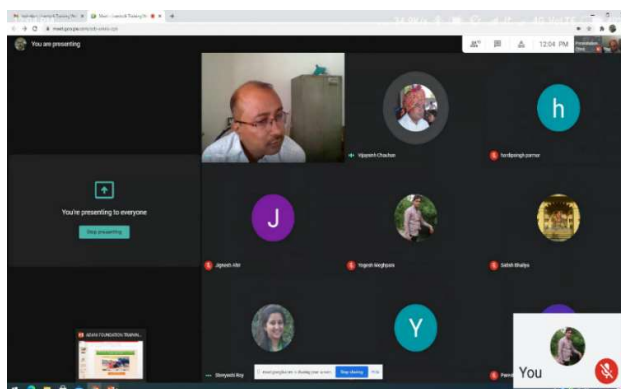
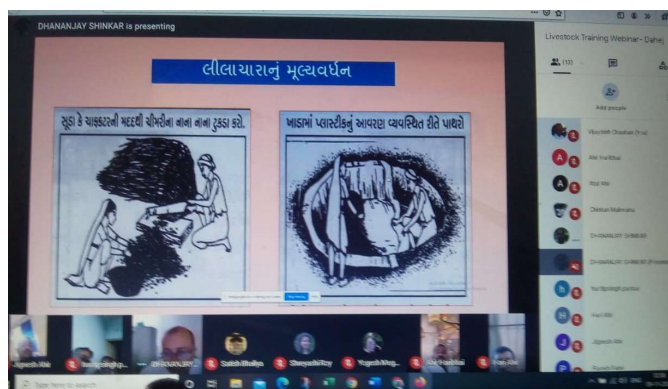
- Uses and benefits of sorted semen
- Artificial Insemination
- Significance of calf rearing program
- Procedure of green fodder storage (Sillage procedure),
- Difference between AI & Natural method
- Demerits of open grazing, relevant Govt. schemes and steps for registration in Govt schemes

Webinar with support of Krishi Vigyan Kendra, Chasvad organized on 9th November, 2020 with 22 beneficiaries.

Mode: Power point presentation & video

Points of Discussion

- Importance of drinking water for animals
- Different types of animal feeds
- Vaccination
- Methods of urea treatment
- Silage treatment
- Appropriate time for AI & PD
- Calf rearing



GREEN FODDER CULTIVATION

OBJECTIVE

- To create awareness among farmers for fodder crop varieties
- Inculcate fodder cultivation practices among cattle dwellers in available space

Green fodder availability in project villages is a big challenge. Most of the beneficiaries purchase green fodder from Bharuch. To get acquainted with fodder cultivation farmers went on an exposure visit to Krishi Vigyan Kendra, Chasvad and BAIF's Adivasi Taleem Kendra, Lachhakadi, Netrang. Fodder stumps were distributed among the beneficiaries but very few of them cultivated in their land. AF team's continuous interaction and monitoring brought a hope among them. In 2020 -21, 14500 nos. of stumps were distributed among 21 beneficiaries of 3 villages Luvara, Jageshwar and Rahiyad. Beneficiaries shared their experiences

with AF team. They said they cultivated fodder stumps in available land and now they are getting good yield. Their fodder expenses are plunging.

Savings from Green Fodder Cultivation					
S.N	Name	Village	Land in Sq.m	Quantity(in ton)	Income(in Rs.)
1	Jitubhai R. Gohil	Lakhigam	101.20	17.10	100100
2	Rakshaben V. Patel	Jageshwar	505.90	18.70	108500
3	Gema Badharbhai	Lakhigam	101.20	6.10	36100
4	Hamirsinh K. Parmar	Luvara	303.51	15.50	90500
	Total			57.40	3,35,200



Impact

- Awareness created among farmers for fodder cultivation
- Availability of green fodder helps to meet out requirement of fodder for growing and milking animals
- Health condition of animals improved
- Milk production is increased which is always reducing due to scarcity of fodder

Beneficiaries Feedback

Overall farmer's response for this initiative is found very positive. Farmers admitted that after feeding green fodder as per requirement of animals helps to increase milk production and improvement in health condition of animals.

SUCCESS STORY

Pashudhan Program gave us a new life in Lockdown

Cattleman: Sudhirbhai Patel

Age: 47 years

Family members: 5 (husband, wife, 1 daughter, 1 son & mother)

Resident: Village – Luvara, Taluka – Vagra, District: Bharuch

Profession: contractual worker with Shreeji Enterprises Private Limited, SEZ, Dahej

Livestock owned: 2 cows, 5 buffalos & 9 calves

Sudhirbhai is a progressive cattleman of Luvara. Although he is a contractual worker in a nearby company Shreeji Enterprises Private Limited but animal care is in their blood. **As Sudhirbhai says 'before Adani Foundation's project we moved distant places for animals' treatment. We lost many animals due to lack of services on time. Now we are getting Taleem & Services at our doorsteps. Our Pashudhan graph is in upward direction and so the income graph.**



Adani Foundation has given one chaff cutter machine on group basis. Sudhirbhai is using this machine happily. Now use of chaff cutter has reduced his fodder expenses by 30 per cent and chopped forage increase the utilization and digestion of animals.

Sudhirbhai shared his experiences of lock down due to COVID 19. He said "In normal days I earn Rs. 10,500/ per month from my job but in lock down it became zero. Milk selling was the only source of our bread and butter. I am very much thankful to Adani Foundation for this Animal Husbandry project. It is an alternate source of our livelihood. Now I understand the importance of cow dung too. I could never have thought that cow dung can enhance our income. My family members engage themselves not only in vermi compost production but its use in our small kitchen garden also. This project keeps me so much involved that I hardly get time to mingle with those people who have the habit of alcohol. In short, I can say Animal Husbandry Project keeps you informed, healthy and wealthy."

Sudhirbhai's family is enjoying a good socio-economic status in the village. He has his own house, motorcycle and his two children are studying in Govt. schools. His daughter is in 9th Standard and son in 7th standard.

Pashudhan Program: a bonus for livelihood

The village of Koliyad is located in the border of Bharuch district, almost 49 kms away from the district headquarter Bharuch. It is in close proximity to the river and is home to various communities like Ahir, Rajput, Koli, Patels. There is a scarcity of agricultural land in this areas due to presence of many industries and one of the main occupations of many communities is making salt from the river water.

Hardipsinh Gambhirsinh Parmar is a 32-year-old man who had studied up to 10th standard although his native is Panchmahalay, he has been residing alone in this village for 18 years. Working initially as a daily wage labourer he always desired to work for livestock development. When the entire country underwent demonetisation in 2016 he had 5 buffaloes and 5 cows gave 9 litres of milk daily. Lacking proper knowledge and skill about cattle development he was unable to make much profit from this. He would earn around 15,000 each month from a combination of labour work and selling milk.



The

Pashudhan project was started in the year 2017-18 with support of BAIF. It was then that Hardipsinh came to their centre to take information and guidance from the centre in charge about livestock. He was also involved in the various trainings and exposure visits conducted by the project team. After a thorough understanding he availed the Artificial Insemination facility, as he was convinced that it would lead to a better breed of calves. At present he has 4 heifers which will be calving in some time and altogether he has around 25 cattle. He has availed AI services a total of 15 times and also used the Sex-Sorted Semen which gave him a healthy female calf which is at present 6 months old.



He also avails other facilities of the project like mineral mixture to feed his animals, treating his animals at the health camps, vaccinating them on time, etc. At present, he earns around Rs. 15,000-20,000 from just livestock, and Rs. 10,000 from his job at the Asiatic Company.

The calf rally organised in 2019-20 fetched him the 3rd prize for his calf. This is why he is extremely grateful to this project and he inspires the other villagers to also avail the facilities that is being offered by the project.

SHG/Women Empowerment

Objective

- To make women self-dependent
- To make their family confident
- To improve quality of life of the community

Shiv Shakti Sakhi Mandal, Jageshwar

Skill Enhancement Training Program

Adani Foundation organized skill upgradation training for SHG Shiv Shakti Sakhi Mandal, Jageshwar. This one-month training Program was from 15th September 2020 to 15 October 2020.

On 20th September 2020 Mr. Shailesh Singh, HR & Admin Head of Adani Dahej Port visited Shiv Shakti Sakhi Mandal. He appreciated SHG members' efforts.

During training, members upgraded their skills for different types of bags from daily utility bags to traveler's bags. They sold 22 nos bags in Jageshwar village. Now they focus on marketing strategies – demand, production, publicity. Resource person was Deepak Bhai of Bharuch. He himself runs a bag making unit named URVI BAG. Objective of this training is to prepare SHG as per market needs & attain sustainability.



Earning of Shiv Shakti Sakhi Mandal October 2020 to March 2021

S.N	Particular	Unit cost	Qty	Sale Price	Product cost	Net Profit
1	Cotton Face Mask	15	1045	15675	12246	3429
		17	1540	26180	9240	16940
		20	200	4000	1200	2800
	Face Mask Total		2785	45855	22686	23169
2	Cotton Bag	120	2	240	96	144
3	Purse	125	11	1375	550	825
4	ladies purses	130	10	1300	520	780
		150	1	150	52	98
		200	13	2600	1040	1560
5	Travel Bag	250	3	750	300	450
6	Laptop Bag	400	2	800	320	480
	Bags Total		42	7215	2878	4337
	Grand Total			53070	25564	27506

Linkages with Government Scheme

Objective: SHGs avail the benefits of Govt. schemes & enhance their income

Shiv Shakti Sakhi Mandal, Jageshwar got

- **COTTON WICK (Pooja Batti) MAKING MACHINE**
- **Rs.12000/- Revolving fund**

on 26th December 2020 from District livelihood mission, Bharuch (Mission Mangalam).

- **Sadhdada Mahila Sakhi Mandal, Lakhigam and Mahadev Mahila Sakhi Mandal, Luvara** got a revolving fund of **Rs.10000/-** each from District Livelihood Mission, Bharuch.



Entrepreneurship Awareness Workshop

10 members of Sadhdada Mahila Sakhi Mandal, Lakhigam attended Entrepreneurship Awareness Workshop organized by Center for Entrepreneurship Development (CED), Ahmedabad. This online workshop was conducted by Mr. Dharmendra Patel (Sr.Training Coordinator) of CED.

Topics covered: Introduction of CED, Objective of CED, Necessary requirements for training, and Benefits of CED certification two types of training: part 1 is of 30 days and part 2 is of 15 days of training



Entrepreneurship Development Training Program

10 members of **Sadhdada Mahila Sakhi Mandal, Lakhigam** has completed through Entrepreneurship Development Training program. This training program is organized by **Centre for Entrepreneurship Development (CED), Ahmedabad**. This online training is of 15 days **23rd November to 07 December 2020**.



Topics covered

✚ What is entrepreneurship	✚ Personnel Management
✚ Business opportunity guidance	✚ Experience sharing of succeed Entrepreneurs
✚ Important aspects for selecting business	✚ Financial Management
✚ Scheme for other financial institutions	✚ Fixed & Working Capital
✚ Loan applications & disbursement	✚ Computer in Business
✚ Marketing research & survey	✚ Project report preparation
✚ Marketing management	
✚ Whom to contact & where to contact	
✚ Project report preparation	
✚ Accounting Management	
✚ General Management	

Output

Sadhdada Mahila Sakhi Mandal became confident for IG activity. Members are going to start Amul parlour at Lakhigam with a contribution of Rs. 75000. AF provides a support of Rs.3.50 lacs in form of cabin, furniture, fridge and freezer.

- Group has started snacks making IG activity and completed an order of 2600 packets of snacks @ Rs.30/- and 300 packets of snacks @ Rs.40/- by Adani Foundation

Mahadev Mahila Sakhi Mandal, Luvara

Income Generation from Vermi Compost

Mahadev Mahila Sakhi Mandal, Luvara members first time sold to vendor on August, 2020. Vendor supplies vermi compost in nearby companies.

SHG members had **earned Rs.1,11,240/-** in last six months. This is the only SHG of Bharuch District who has opted Vermi compost production as their INCOME GENERATION ACTIVITY. Taluka Livelihood Manager Mrs. Jyotiben & their team highly appreciated the members. Livelihood Mission has acclaimed Adani Foundation for their sustainable livelihood initiatives in project villages.



Month wise earning

Sr. N	SHG Name	Oct-20		Nov-20		Jan-21		Feb-21		Mar-21		Total Qty	Total Income
		Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
1	Mahadev Mahila Sakhi Mandal	1.50	9000	2.00	12000	1.02	6120	3.12	18720	3.10	18600	10.74	64440

Formation of New SHG

Meetings with women held in Jolva villages for formation of new SHGs. These women have been not associated with any SHG so far. We have conducted 4th meeting with women group.

Points of discussion

- Adani Foundation's CSR activities in villages
- What is SHG and how it is related to women empowerment
- Process of SHG formation
- Interest areas of women for income generation activities

Outcome of the meetings

- 10 women agreed to form an SHG in Jolva village.
- Women group decided name of SHG is Ekta Mahila Sakhi Mandal, Jolva



Linkages with Government Office

Field visit of Kushi Vigyan Kendra(KVK) Team

Mr. Mahendra Patel (Senior Scientist, KVK) and Mr. Lalit Patil (Agronomist Scientist) and AF team conducted field visit on 26th October 2020 for core village Suva and peripheral villages Kaladra and Atali.

Objectives

- Explore scope of agriculture project in peripheral villages.
- Revive agriculture practices in industrial zone
- Changes in crop pattern as per the climatic conditions
- Development of green fodder in Gau Sewa Trust, Suva. This trust has 2 acres of land & 40 cows.

After field visit KVK team had a discussion with AF team on identification of 25 progressive farmers for soil testing, crop pattern. KVK will submit a proposal regarding agriculture and Suva Gawshala development.



WOMEN'S DAY CELEBRATION

International Women's Day Celebrated at Dahej site with village women's, grass root Workers-Asha, Aanganwadi worker and assistants Sanginis. ANM, Primary & High School Teacher and Panchayat members. on this occasion sport events organized in 3 villagers Lakhigam, Luvara, Jageshwar.

Total 158 women of Lakhigam, Luvara and Jageshwar Village Participation in Kabaddi Kho-Kho Spoon race and musical Chair race .AF team honored all grass root workers of Health Department, Women & Child welfare Department Female teachers of primary School and High School and Female Sarpanch Sangini Vidhyaben of Lakhigam and Vanitaben of Luvara Village honored with certificate, shawl and Memento for their contribution in eradication of malnourishment.

Closing ceremony organized at assembly hall of Govt. Secondary & Higher Secondary School Lakhigam on 8th March 2021 Ms. Alkaben Bhatt School Principal Welcomed the Participants and briefed on women's Day history she encouraged women to Provide opportunity of higher studies to their daughters. On this platform She announced that now girls can enroll in classes 11th & 12th in Lakhigam School. Earlier Girls have to P.J Chheda High School, Dahej for 11th & 12th.

- Total-45 Females felicitated by AF.
- Asha: Lakhigam – 2 , Luvara-1
- Awws: Lakhigam -2, Luvara -1, Jageshwar -1
- Primary teachers: Lakhigam -11, High School: 6: Luvara-7, Jageshwar -6
- ANM-1
- Sarpanch: Jageshwar
- Sanginis: 2

Winners and runners up of kabaddi and Kho -Kho were felicitated by trophies and medals. winner of spoon race and musical chair got prizes. Referee Mr. Kiran gohil was also honoured for his valuable contribution in organized the event.

Women highly enjoyed sports event some senior women of Luvara village also Participation in spoon race- Jasuben (63), Bhanuben (54). Nanduben (55) and Savitaben (51).

In Jageshwar Village's felicitation event Mr. Sanjaybhai Chavda Taluka Panchayat Member; Mr. Vitthalbhai Patel, SMC Member, Jageshwar, Mrs. vilasben Patel, Sarpanch, Jageshwar, Mr. Jaideepbhai Talati were mainly present.

Stakeholders' highly appreciated AF for their community initiatives.

Village	Kabaddi	Kho-Kho	Spoon race	Musical Chair	Total
Jageshwar	14	18	8	10	50
Luvara	14	18	7	6	45
Lakhigam	20	18	10	15	63



COMMUNITY ENGAGEMENT

Support to Suva Gaushala

Under Community Engagement we are proposing to develop an Integrated model of fodder cultivation, vegetables cultivation, income generation activities and animal husbandry at GAUSHALA, Suva. This Gaushala is managed by a youth group of Suva. This youth group has 50 members. Gaushala has 49 cows, 10 calves and 1 bull and 2.8 acres' land for farming activities. In this land youths do fodder cultivation in traditional method. They do not get fodder round the year. As a result, they have to spend a big chunk on purchase of green fodder. Their problem gets escalated as in absence of boundary fodder/vegetables are destroyed by Blue Bull (Nilgai). Youth group of Suva is engaged in income generation activities – phenyl making, agarbatti/ dhoop making, gau ark, jivamrit, soaps, shampoo, hand wash. These all products are organic products. They want to escalate their skills in a professional manner. Therefore, they have requested Adani Foundation to support in fencing, soil filling and levelling of the land, seeds for fodder cultivation and vegetable cultivation and dry dhoopbatti making machine. Vegetable cultivation would be done on GANGA MA MODEL.

On Adani Foundation's request 2 scientists of Krishi Vigyan Kendra, Chasvad Mr. Mahendra Patel and Mr. Lalit Patil visited GAUSHALA and they also conducted a meeting with youth group members. These scientists have suggested to develop an integrated model. Members of the youth group are land looser. Their land is acquired by Adani Power Private Limited in 2012. Since farming and animal husbandry were main occupation so they started GAUSHALA in 2014 on Gram Panchayat's land.

Objective

- Develop integrated model of farming, animal husbandry and income generation activities through youth engagement.

Interventions	Outputs	Short-term Outcome (01-year)	Intermediate Outcome (1-2 Years)	Long-term Outcomes/Impact (2+ years)	Indicators/ data Sources
Resources support to Gaushala: Fencing of 2.8 acres' land, seeds support and dhoopbatti making machine	2.8 acres' land & fodder/vegetables would be safe and youths will start dhoopbatti production in bulk	-Getting green fodder throughout the year -Youth's skill would be enhanced and so the income	-Improvement in animals' health - Trust would be built with the community	An integrated model of farming, animal husbandry & cottage industry would be developed	Health of animals, income of youth group

Progress so far:

- Fencing work is going on
- Ploughing work completed by Gaushala Sewa Trust
- Preliminary IN FIELD training by KVK scientists
- Youth group's had an exposure visit to KVK, Chasvad



EMPLOYEE VOLUNTEERING PROGRAM

Adani Foundation initiated Employee Volunteering Programme to provide better voluntary service of employees to the community at large.

BLOOD DONATION CAMP: Adani Power Private Limited (APPL) and Adani Petronet Dahej Port Private Limited every year arrange Blood Donation Camp with support of Red Cross Society, Bharuch. APPL mobilized 74 youths for blood donation. The camp was organized on 24th January 2021 in APPL campus, Suva. All youths received certificate, token gift LED Lamp with logo of Adani Foundation.



EMERGENCY PREPAREDNESS: On the occasion of 49th National Safety Month Mr. Anirudhsinh Jethava and Mr. Dharm of EHS department conducted an awareness session on emergency preparedness with 74 students of P.J.Chheda High School, Dahej.

Session conducted on 10th March 2021 on following

- Basic firefighting knowledge
- Classification of fire
- Electric short circuit
- Cyclone, flood, earthquake
- Gas leakage by nearby industries



In SEZ, Dahej there are a lot of petro chemical industries. Incidents of fire and gas leakage are happened. Being coastal area it is prone to cyclone & flood.

DAYS CELEBRATION

WORLD DISABILITY DAY: AF team visited 2 organizations Asmita Vikas Kendra, Tralsa, Bharuch and KALRAV, Bharuch. These organizations are working on DIVYANG. Asmita Vikas Kendra has rehabilitation facilities for DIVYANG. Social Defense Department, Bharuch has given the responsibility to Asmita Vikas Kendra for registration of all Diyang of the district under Govt. schemes. KALRAV is a day care centre for intellectually challenged persons with well-equipped facilities – from treatment, counselling and skill development. AF team has established a good rapport with these 2 organizations.

On World Disability Day, a PDF booklet on govt schemes for Diyang circulated among employees of Dahej Port.

3 beneficiaries of Lakhigam village: Ishwarbhai Gohil, Lakshmanbhai Rathod and Gohil Premiben registered under Govt. scheme for Bus Pass



APPRECIATION

પ્રતિશ્રી,

તા. ૨૦/૧૦/૨૦૨૦

સી. એસ.આર.હેડ યુનિટ, દહેજ
અદાણીફાઉન્ડેશન, દહેજ

વિષય:

પ્રાથમિક આરોગ્ય કેન્દ્ર, દહેજ એચ.બી.એ.વન સી એનેલાઇઝર/સેમી ઓટો બાયોકેમેસ્ટ્રી એનેલાઇઝર તથા લિકવિડ કિટ વ્લડપ્રેશર/ડાયાબીટીસ ચકાસણી અંગેના મશીન આપવા અંગે અદાણીફાઉન્ડેશન નો આભાર બાબત...

સવિનય સહ પ્રાથમિક આરોગ્ય કેન્દ્ર, દહેજ વ્લડપ્રેશર/ડાયાબીટીસ અંગે નુ અમારા વિસ્તાર ને દયાનમાં લેતા એચ.બી.એ.વન.સી. એનેલાઇઝર/સેમી ઓટોબાયોકેમેસ્ટ્રી એનેલાઇઝર તેમજવિવિધ લિકવિડકિટ અદાણીફાઉન્ડેશન, દહેજ તરફથી આપેલ છે. જે આજુબાજુ ના દહેજ વિસ્તારના માટે ઉપયોગી નીવડશે દહેજમાં ફક્ત એક જ પ્રાથમિક આરોગ્યકેન્દ્ર આવેલ છે. દહેજ આજુબાજુ વિસ્તારના તથા ગામના લોકો સુધી આરોગ્ય અંગેની સુવિધા વ્લડપ્રેશર/ડાયાબીટીસ, કોલેસ્ટ્રોલ, ગ્લુકોઝ, હિમોગ્લોબીન અંગેની તપાસ/ ચકાસણી વિના મુલ્ય કરી આપવામાં આવશે

ભરુચ સુધી પહોંચવા ની અગવડ તથા ટેસ્ટીંગ ચાર્જ પણ વધુ લાકોને ચુકવવો પડતો ને આવવા-જવાનો સમય પણ વધુ જતો સગર્ભા મહિલાને તથા વ્લડપ્રેશર/ડાયાબીટીસ ના ઉમરલાયક પેશન્ટ, તથા કિશોરી આ એચ.બી.એ.વન.સી. મશીનનો લાભ લઈ શકશે દર્દી માટે ચકાસણી હવે સુલભ-અને સરળ સુવિધા મળી રહેશે. અદાણીફાઉન્ડેશન તરફથી સાથ-સહકાર મળ્યો તે બદલ અમારી પી.એચ.સી, સી.એચ.સી ટીમ તરફથી ખુબ-ખુબ આભાર...

સહી

Pravin Kumar

....Taluka Health Officer.....
Taluka Health Office
Vagra, Dist. Bharuch

પ્રતિ શ્રી,

તા. ૩૦/૧/૨૦૨૧

સી.એસ.આર.હેડ યુનિટ, દહેજ

અદાણી ફાઉન્ડેશન, દહેજ

વિષય: વાગરા તાલુકામાં પોલિયો કેમ્પ કુલ-૩ દિવસ કાર્યક્રમ હોવાથી અદાણી ફાઉન્ડેશન તરફથી વહિકલ આપવા બાબત આભાર પત્ર.

સવિનય સહ લખવાનું કે વાગરા તાલુકામાં પોલિયો કેમ્પ કુલ-૩ દિવસ નો કાર્યક્રમ તા. ૩૧/૧/૨૦૨૧ થી ૨/૨/૨૦૨૧ સરકારશ્રી નો પોગ્રામ હોય છે જેમાં વાગરા તાલુકા માં અમારી માંગણી ને દયાનમાં લઈ અદાણી ફાઉન્ડેશન તરફથી વહિકલ આપવા બાબત નો જે સાથ-સહકાર આપેલ છે આપના તરફથી દરેક વર્ષે વહિકલ અંગેનો સહકાર મળતો રહે છે, તે બાબતે અદાણી ફાઉન્ડેશન નો ખુબ-ખુબ આભાર...

સહી
Pravin Kumar

Taluka Health Officer
Taluka Health Office
Vagra, Dist. Bharuch

પ્રતિ શ્રી,

તા. ૨૭/૩/૨૦૨૧

યુનિટ સી.એસ.આર.હેડ

અદાણી ફાઉન્ડેશન, દહેજ

વિષય: - અદાણી ફાઉન્ડેશન, દ્વારા વિશ્વ મહિલા દિવસ -૨૦૨૧ લખીગામની મહિલાઓ માટે રમતોત્સવ કાર્યક્રમ યોજવામાં આવેલ બાબત નો આભાર પત્ર...

સવિનય સહ અદાણી ફાઉન્ડેશન, દ્વારા રમતોત્સવ કાર્યક્રમ લખીગામની બહેનો માટે યોજવામાં આવ્યો જેમાં કુલ-૬૩ બહેનોએ રમત માં ભાગ લીધો હતો, વિવિધ રમતો કબડ્ડી, ખો-ખો, લીબુચમચી, સંગીત પુરશી જેવી રમતો રમાડવામાં આવી. બહેનો ને રમતો અંગે ની પ્રેરણા મળી. રમત રમવામાં ઉત્સાહ આવ્યો અદાણી ફાઉન્ડેશન તરફથી રમત રમનાર કબડ્ડી, ખો-ખો વિજેતા બહેનોને ટ્રોફી તથા લીબુચમચી, સંગીત પુરશી રમનાર બહેનોને ઇનામ વિતરણ કરવામાં આવેલ, તથા પ્રાથમિક શાળાના તથા માધ્યમિક શાળાના મહિલા શિક્ષકો આંગણવાડી વર્કર -હેલ્પર, આશા વર્કર સુપોષણ સંગીની બહેનો ને સાવ ઓઢાડી સન્માન કરવામાં આવ્યું તે બદલ અદાણી ફાઉન્ડેશન નો ખુબ-ખુબ આભાર...

સહી:

સહી
ગ્રામ પંચાયત-લખીગામ
તા. વાગરા, જ. ભરૂચ

સરખંડ શ્રી, ગ્રામ પંચાયત લખીગામ
તા. વાગરા, જ. ભરૂચ



સરકારી માધ્યમિક અને ઉચ્ચતર માધ્યમિક શાળા, લખીગામ

મુ.પો.લખીગામ, તા.વાગરા, જી.ભરૂચ, પીનકોડ નં. - ૩૯૨૧૩૦
નોંધણી નં. (માધ્યમિક) સમશ/૧૦૧૧-૧૬૮-ગ-૧, તા. ૧૩/૦૬/૨૦૧૧
(ઉ.માધ્યમિક) ઉમબ /ઉમા-૩/વ.વ./સ.એ./૨૦૧૮-૧૯/ ૩૩૮૦-૮૧
તા.૩/૭/૨૦૧૮



S.S.C. INDEX NO. 61.304

H.S.C. INDEX NO.11.235

જા.નં. - ૨૦૨૦/૫૧ ૮

તારીખ-૨૭/૦૩/૨૦૨૧

પ્રતિ શ્રી,

યુનિટ C.S.R. હેડ

અદાણી ફાઉન્ડેશન દહેજ.

વિષય - વિદ્યાર્થીઓને માટે વોલીબોલ ટુર્નામેન્ટનું આયોજન કરવામાં
આવ્યું તે બદલ આભાર પત્ર.

સવિનય સહ ઉપરોક્ત વિષય અનુસંધાને જણાવવાનું કે અત્રેની શાળાના
વિદ્યાર્થીઓ અને વિદ્યાર્થિનીઓ માટે અદાણી ફાઉન્ડેશન દહેજ દ્વારા ઇન્ટરસ્કૂલ
વોલીબોલ ટુર્નામેન્ટનું આયોજન કરવામાં આવ્યું જેમાં વિદ્યાર્થીઓ અને
વિદ્યાર્થિનીઓની વિજેતા ટીમને ટ્રોફી અને પ્રોત્સાહક ઈનામ આપી સન્માનિત કર્યા તે
બદલ અમારી શાળા આપશ્રીનો આભાર વ્યક્ત કરે છે.

આભાર સહ...

Signature
Principal
Government Secondary School
Lakhtigaon Tal. Vagra,
Dist. Bharuch

AMBHETA Gram Panchayat

અંભેટા ગ્રામ પંચાયત

At.Po.-Ambheta, Tal.-Vagra, Bharuch.

મુ.પો.-અંભેટા, તા.-વાગરા, જિ.-ભરૂચ

Mo. :- 99090 15134

મો. :- ૯૯૦૯૦ ૧૫૧૩૪

તા.:- ૧૨/૦૩/૨૦૨૧

પ્રતિશ્રી,

મેનેજર સાહેબશ્રી,

યુનિટ સી.એસ.આર. હેડ,

અદાણી ફાઉન્ડેશન,

દહેજ.

વિષય :- અંભેટા ગામમાં આર્થિક રીતે પછાત કુટુંબોમાં મચ્છરદાની તથા
પ્લાસ્ટીકની ચતાઈનું વિતરણ કરવા બદલ આભાર દર્શાવે.

સવિનય જય ભારત સહ ઉપરોક્ત વિષયના અનુસંધાને સરપંચશ્રી અંભેટાનું આપ સાહેબશ્રી
ને જણાવવાનું કે,

મોજે :- અંભેટા, તા. :- વાગરા ગામમાં અદાણી ફાઉન્ડેશન દ્વારા આર્થિક રીતે પછાત કુટુંબોમાં
મચ્છરદાની તથા પ્લાસ્ટીકની ચતાઈ નું વિતરણ કરવામાં આવેલ છે. જે ખુબ પ્રશંસનીય છે. જે બદલ અંભેટા
ગ્રામ પંચાયતના સરપંચશ્રી તથા ગ્રામજનો તરફથી આપ સાહેબશ્રીને તથા અદાણી ફાઉન્ડેશન નો ખુબ ખુબ
આભાર માનીએ છીએ.

વધુમાં ભવિષ્યમાં પણ આવા સામાજિક સહાયના કાર્યો આપની કંપની તરફથી ગામને મળતો રહે તેવી
અભ્યર્થના સહ.

p.jelundh

સરપંચશ્રી

ગ્રામ પંચાયત અંભેટા

મુ.પો.અંભેટા, તા.વાગરા



અદાણી ફાઉન્ડેશન દ્વારા લુવારા ગામમાં દુધાળા પ્રાણીઓ માટે જનરલ હેલ્થ અને વંધ્યત્વ નિવારણ કેમ્પનું આયોજન



આધુનિક યુગમાં પણ દુધના એક્ટીવીટી ચલાવવામાં આવી રહી બીમાર ૩૬ પ્રાણીઓની સારવાર ઈપીડી ક્રીટ ઉપયોગ અને તેના ફાયદા ઉપયોગ માનવ જીવન માટે અતી છે. જેના ભાગરૂપે લુવારા ગામમાં કરવામાં આવી હતી. બીએઆઈએફ વિશે સરળ રીતે સમજાવ્યું. આવશ્ય છે. તેમ છતાં પણ આપણે પ્રાણીઓ માટે જનરલ હેલ્થ અને સંસ્થા સસ્ટેઈનેબલ આજીવિકા લાભાર્થીઓએ કહ્યું 'ગર્ભવતી પ્રાણીઓ કાળજી લેવાની તકલીફ વંધ્યત્વ નિવારણ કેમ્પનું આયોજન વિકાસ વડોદરાના ડો.અમોલ વાધ પ્રાણીઓની સંભાળ રાખવામાં તે ઉદાત્તા નથી. તેવા સમયમાં અદાણી તારીખ ૦૭/૦૮/૨૦ નારોજ દ્વારા પ્રાણીઓની સારવાર કરવામાં સારું ઉપયોગી સંબિત થાય છે. ફાઉન્ડેશન દ્વારા છેલ્લા ત્રણ વર્ષથી કરવામાં આવ્યું હતું. જે ગામમાં બે આવી હતી. કેમ્પમાં લુવારા ગ્રામ પંચાયતના દહેજ આસપાસના ૧૩ ગામમાં અલગ અલગ વિસ્તાર જેવાકે અહિર પ્રારંભિક ગર્ભાવસ્થા નિદાન સરપંચ શ્રી રામસુંગભાઈ રાઠોડ પણ પ્રાણીઓ માટે પશુધન પ્રોગ્રામ ફળીયા તેમજ મહાદેવ મદિરની (ઈપીડી) ક્રીટ સત્રમાં શ્રી શંભુભાઈ ઉપસ્થિત રહ્યા હતા. તેમણે અદાણી ચાલાવવામાં આવી રહ્યો છે. પશુધન બાજુમાં કેમ્પનું આયોજન કરેલ હતું. દેસાઈ, જિલ્લા સંયોજક - બીએએફ ફાઉન્ડેશનના પશુધન કાર્યક્રમની ખૂબ પ્રોગ્રામમાં અલગ અલગ પ્રકારની આ કેમ્પમાં ૨૪ લાભાર્થીઓના દ્વારા રજૂ કરવામાં આવી હતી. તેમણે પ્રશંસા કરી.

અદાણી ફાઉન્ડેશન દહેજ દ્વારા પ્રોત્સાહિત મહાદેવ મહિલા સખી મંડળ, લુવારા દ્વારા વર્મીકંપોશ્ટ ખાતર વેચાણ



મહાદેવ મહિલા સખી મંડળ, લુવારા દ્વારા તાજેતરમાં વર્મીકંપોશ્ટ ખાતર વેચી આવકનો એક નવો સ્રોત ઉભો કરેલ છે. ઉપરાંત આસ-પાસની કંપનીઓમાં લુવારા ગામની ૧૧ બહેનોએ તેમના ઘરમાં થતા પશુપાલન તથા ઘરનાં કચરાનો ઉપયોગ કરી તેમાંથી વર્મી કંપોશ્ટ ખાતર બનાવવાની શરૂઆત કરી હતી. આ ખાતર દહેજ વિસ્તારમાં આવેલ વિવિધ કંપનીઓને વેચાણ કરી તેમાંથી આવક મેળવવાની શરૂઆત કરી હતી. અદાણી ફાઉન્ડેશન, દહેજ દ્વારા આ બહેનોને જરૂરી એવી તાલિમ, માર્ગદર્શન તેમજ આ માટે જરૂરી સાધનો પણ પુરા પાડવામાં આવેલ હતા. આ ઉપરાંત આસ-પાસની કંપનીઓમાં ખાતરનાં વેચાણ માટે જાહેરાત કરી હતી. તેમને લુવારા ગામના સભ્યોનો સાથ સહકાર પણ સારો એવો મળી રહેલ છે. નજીકના ગામનાં દલસુખભાઈ કે જે આસપાસની કંપનીઓમાં ખાતર પહોંચાડવાનું કામ કરે છે. તેને ૩.૩ ટન વર્મી ખાતર વેચવામાં આવ્યું હતું અને મંડળની બહેનોને વળતરરૂપે રૂપિયા ૧૮૮૦૦ મળ્યા હતા.

અદાણી ફાઉન્ડેશન દહેજના સહયોગ અને પ્રોત્સાહનથી આ સેલ્ફ હેલ્પ ગ્રુપની રચના ડેબ્રુઆરી ૨૦૨૦માં કરવામાં આવી હતી. તેમણે એકવાર નવસારીના લડવાખાડી આદિવાસી તાલીમ કેન્દ્રની મુલાકાત પણ કરાવવામાં આવી હતી અને મુલાકાત બાદ તેઓએ તેમના ઈન્કમ જનરેશન માટે વર્મી કંપોશ્ટ ખાતર પેસંદ કર્યું હતું. આના પહેલા તેઓ ગોબર ફેંકી દેતા હતા અને હવે તેઓ કંપનીઓમાં વર્મીખાતર વેચી રહ્યા છે અને ગામની અન્ય મહિલાઓ માટે પ્રેરણારૂપ બન્યા છે.

અદાણી ફાઉન્ડેશન - દહેજ દ્વારા

૧૩ ગામોના પશુપાલકો માટે ઓન લાઈન તાલીમનું આયોજન કરાયું

પશુપાલન પર નભતા પરિવારો માટે અદાણી ફાઉન્ડેશનનું પ્રશસ્ત કદમ

સમયસર ન્યુઝ, જંબુસર ગ્રામ્ય વિસ્તારોમાં પશુપાલક વ્યવસાય લોકોએ પુરક વ્યવસાય તરીકે સ્વીકાર્યો છે. પોતાનાં અમુલ્ય પશુધનને કેમ જાળવવું? તે અંગેની જાગૃતિ માટે દહેજ સ્થિત અદાણી ફાઉન્ડેશન દ્વારા સમયાંતરે વિવિધ કામો હાથ ધરાય છે. તદ્દનુસાર તાજેતરમાં પશુપાલન વિભાગ જિલ્લા પંચાયત-ભરૂચના નેતૃત્વમાં દહેજ વિસ્તારના ૧૩ જેટલા ગામોમાં પશુપાલક ભાઈ-બહેનોને માટે સૌ પ્રથમવાર ઈન્ટરનેટના માધ્યમથી પશુપાલન અંગેની તાલીમનું આયોજન કરવામાં આવ્યું હતું. માનવ માટે દુધ એ આવશ્યક પૌષ્ટિક આહાર ગણાય છે. દુધ વિનાના માનવ જીવનની કલ્પના કરવી મુશ્કેલ છે. ગ્રામ્ય સ્તરે પશુપાલન થકી દુધ ઉત્પાદન રોજગારીનું પુરક સાધન ગણાય છે.

આજના સમયમાં સમાજમાં ઘણો ખરો ભાગ પશુપાલન ઉપર નિર્ભર છે. ત્યારે પશુધનની સાર-સાંભળ પણ એટલી જ મહત્વની બની રહે છે. આ બાબતને ધ્યાનમાં લઈ દહેજના અદાણી ફાઉન્ડેશન દ્વારા છેલ્લા ત્રણ વર્ષથી દહેજ અને આજુબાજુના ૧૩ જેટલાં ગામોમાં પશુધન પ્રોગ્રામ ચલાવાય છે. જે અંતર્ગત અલગ અલગ પ્રકારની પ્રવૃત્તિઓ કરવામાં આવી રહી છે. સમયની માંગને અનુસરી કોવિડ-૧૯ના સમયમાં પશુપાલકો એકસાથે એકત્ર નહિં કરતાં કોરોના ગાઈડલાઈન અનુસાર અદાણી ફાઉન્ડેશન દ્વારા તાજેતરમાં ડો.આર.એન.નાઈ પશુપાલન નિયામકશ્રીની રાહબરી હેઠળ પશુપાલકો માટે ઓનલાઈન તાલીમનું આયોજન કરવામાં આવ્યું હતું. જેમાં યુનિટ સી.એસ.આર. વડા ઉષાબેન

મિશ્રા તેમજ તેમની ટીમ અને ૩૦ લાભાર્થીઓ (૧૫ પુરુષ ૫ સ્ત્રીઓ અને ત્રણ જુથોમાં ૧૦ મહિલાઓ) જોડાયાં હતાં. પશુપાલન તકનીકી પદ્ધતિની તાલીમ આપવામાં આવી હતી. જેમાં કૃત્રિમ બીજદાન (એ.આઈ.)નો ઉપયોગ અને લાભ, વાછરડાં ઉછેરનું મહત્વ, લીલો ઘાસચારો સંગ્રહની પ્રક્રિયા (સાઈલેજ પ્રક્રિયા), એ.આઈ. અને કુદરતી પદ્ધતિનું મહત્વ, પશુધનને ખુલ્લામાં રાખવું કેટલું સલામત છે, સરકારની યોજના અંગે સમજૂતિ અને કઈ રીતે રજીસ્ટ્રેશન કરી શકાય જેવી તાલીમના મુદ્દા વણી લેવામાં આવ્યા હતા. આ તાલીમમાં ડો. આર.એન.નાઈ પશુપાલન નિયામકશ્રીએ રસપ્રદ માહિતી આપી હતી. તેમ ફાઉન્ડેશનના જતિન ભદ્રેશાએ જણાવ્યું હતું.

અદાણી ફાઉન્ડેશન દ્વારા દહેજ વિસ્તારમાં સામાજિક વિકાસની પ્રવૃત્તિ હેઠળ લાભાર્થીઓને સરકારી યોજનાઓનો લાભ અપાયો

અદાણી ફાઉન્ડેશન દ્વારા દહેજ વિસ્તારમાં સામાજિક જવાબદારીના ભાગરૂપે અસરગ્રસ્ત લાભાર્થીઓને વિશાળની પ્રવૃત્તિ પોર્ટની નજીકના ગામોમાં કરી રહીયા છે. જે પ્રવૃત્તિમાં ભારતીય સરકારી યોજનાઓનો લાભ લેવામાં આવ્યો છે. જે અખી મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા છે. જેમાં નિમ્ન પ્રમાણના છે. લાભાર્થીઓને મળ્યા છે.

૧. ભરૂચ જિલ્લા રોજગાર મિશન દ્વારા જાહેર ગામના ધીર શકતી મહિલા સમી મંડળ ને રોજગારી ના ભાગરૂપે ૨૦ મહિલા વાટ (પુષ્કા બહી) બનાવવાનું એક મહિલા મંડળને મળ્યું છે. જે અખી મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા છે. જેમાં નિમ્ન પ્રમાણના છે.

૨. ભરૂચ જિલ્લા રોજગાર મિશન દ્વારા જાહેર ગામના ધીર શકતી મહિલા સમી મંડળ ને રોજગારી મળ્યું છે. જે અખી મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા છે. જેમાં નિમ્ન પ્રમાણના છે.

૩. ભરૂચ જિલ્લા રોજગાર મિશન દ્વારા જાહેર ગામના ધીર શકતી મહિલા સમી મંડળ ને રોજગારી મળ્યું છે. જે અખી મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા છે. જેમાં નિમ્ન પ્રમાણના છે.

૪. ભરૂચ જિલ્લા રોજગાર મિશન દ્વારા જાહેર ગામના ધીર શકતી મહિલા સમી મંડળ ને રોજગારી મળ્યું છે. જે અખી મંડળ લાભાર્થીઓને મળે તેવા પ્રયત્નો કરવામાં આવ્યા છે. જેમાં નિમ્ન પ્રમાણના છે.



નબીપુર પ્રાથમિક કુમારશાળાની કમ્પાઉન્ડ દીવાલ અને પ્રવેશદ્વારના કામનું ખાતમુહૂર્ત



ભરૂચ જિલ્લાના નબીપુર ખાતે આવેલી પ્રાથમિક કુમાર શાળામાં કમ્પાઉન્ડ દીવાલ અને પ્રવેશદ્વાર જઈ રહી હાલમાં થઈ ગયું હતું જેનો જીર્ણોદ્ધાર કરવા માટે અદાણી ફાઉન્ડેશન આગળ આવ્યું હતું. જે સ્વરૂપે આજરોજ અદાણી ફાઉન્ડેશન તરફથી ઉદ્ઘાટન મિશ્ર તથા મહેન્દ્રસિંહ સિંઘા ઉપસ્થિત રહ્યા હતા. આ પ્રસંગે શાળાની એસએમસીના પ્રમુખ સલીમભાઈ કડુજી, કમિટીના સભ્યો, પ્રા.કુમારશાળા નબીપુરના આચાર્ય ઈલાબેન રાણા, શાળાનો સમગ્ર સ્ટાફ, નબીપુર ગામના સરપંચ, તલાટી, ગામ પંચાયતનો સભ્યો તથા ગામના આગેવાનો પણ હાજર રહ્યા હતા. અદાણી ફાઉન્ડેશન દ્વારા ગામના વિકાસમાં ભાગીદાર બનતા ગામમાં ખુશીનો માહોલ જોવા મળ્યો હતો.

વાગરાના લખીગામ ખાતે ક્રિકેટ ટુર્નામેન્ટનું આયોજન



(ક્રિકેટ ટુર્નામેન્ટ) ના દરમિયાનમાં ફાઉન્ડેશન દ્વારા મદદ કરીયુવાનો કરવામાં આવે છે. આ ટુર્નામેન્ટમાં મનોજ કટાર COO, અદાણી પેટ્રોનેટ જુસ્સો વધારવામાં આવ્યો છે. યુવાનોનો ઉત્સાહ વધારવા ગામના (દહેજ) પોર્ટ પ્રા.લી., લખીગામના લખીગામના યુવાનો દ્વારા વીલો દ્વારા સીનીયર સીડીઝની સરપંચ સતીષ ગોસ્વિ, ગ્રામ કોરોનાની ગાઈલાઈનનું પાલન એક ક્રિકેટ ટીમ બનાવીને ક્રિકેટ પંચાયતના સભ્યો, એચ.આર. હેડ કાવવામાં પણ આવે છે. જે પ્રમાણે ટુર્નામેન્ટમાં ભાગ લીધે હતો.

શૈલેષ સિંઘ, ઉષા મિશ્રા, દહેજ મેલાડીઓને તેમજ ટ્રાંસિમિશને અદાણી ફાઉન્ડેશન દ્વારા સી.એસ.આર. હેડ અને અદાણી ફાઉન્ડેશન માલિકા ઉપયોગ કરવો, બનાવવામાં આવેલ સમદાદા

વાગરા તાલુકાના લખીગામ ભાગ લીધે હતો. જે ટુર્નામેન્ટને ફાઉન્ડેશનની ટીમ ઉપસ્થિત હતી. ભોડી ટેમ્પેરેચર માપવામાં આવે છે. મહિલા સમી મંડળ દ્વારા તૈયાર થયેલ મંડળ દ્વારા લખીગામમાં ક્રિકેટ અદાણી ફાઉન્ડેશન અને અદાણી હી. આ ટુર્નામેન્ટમાં લખીગામની તેમજ સેનેટરીઝરનો ઉપયોગ અને કાચેલ નાસ્તો ક્રિકેટ ટુર્નામેન્ટના ટુર્નામેન્ટની સહાયતા કરવામાં આવી પેટ્રોનેટ (દહેજ) પોર્ટ પ્રા.લી. દ્વારા ૩૦ ટીમો ભાગ લઈ રહી છે. વર્ષ સામાજિક અંતરની જાળવણી દરમિયાનમાં સંસ્કરણમાં આવ્યો હતો. હી. ગામના વિવિધ કોમિયુનિટી સહયોગ કરવામાં આવ્યો હતો. ૨૦૨૧માં ટુર્નામેન્ટનું શરૂ થયું છે. — ૩૦ ટીમોના ૩૬૦ મેલાડીઓએ લખીગામ પ્રીમીયર લીગ સીઝન ૬ જેમાં દર વર્ષની જેમ અદાણી

અદાણી ફાઉન્ડેશન દ્વારા ઈન્ટર વિલેજ વોલિબોલ ટુર્નામેન્ટ યોજવામાં આવી



અને દહેજ ઉચ્ચતર માધ્યમિક શાળાની યુવતીઓની ટીમ ઉપસ્થિત હતી જેમાં યુવકોમાં દહેજ ઉચ્ચતર માધ્યમિક શાળાની યુવકોની ટીમ અને જોલવા ઉચ્ચતર માધ્યમિક શાળાના યુવકોની ટીમ ઉપસ્થિત હતી. વિજેતા અને ઉપવિજેતા ટીમને અદાણી ફાઉન્ડેશન દ્વારા ટ્રોફી તેમજ ઈનામ આપી ટીમ ના ખેલાડીઓને પ્રોત્સાહિત કર્યા હતા.

અદાણી ફાઉન્ડેશન પ્રયાશો થી રીતની ટુર્નામેન્ટનું આયોજન પ્રથમ અદાણી પોર્ટનાં આજુ-બાજુનાં વખત થતુ હોઈ યુવાનો - યુવતીઓને ગામોની માધ્યમિક અને ઉચ્ચતર પ્રથમ તજજ્ઞ દ્વારા વોલીબોલ માધ્યમિક શાળાના યુવક અને રમવાની તાલીમ આપવામાં આવી. મેચમાં મનોજ કટાર (COO- યુવતીઓની ઈન્ટર વિલેજ વોલિબોલ અદાણી ફાઉન્ડેશન દ્વારા અદાણી ટુર્નામેન્ટ ૨૦૨૧ સીઝન ૦૧ નું પોર્ટનાં આજુ-બાજુનાં સાત ગામોની આયોજન કરવામાં આવ્યું. ગામના માધ્યમિક અને ઉચ્ચતર માધ્યમિક યુવકો તેમજ યુવતીઓ માં રમત- શાળાની ૨૦ જેટલી ટીમો (યુવકોની ૧૬ અને યુવતીઓની ૬ ટીમો) હાજરી આપી ખેલાડીઓનો ઉત્સાહ વધારવામાં આવ્યો હતો. કેળવવાના હેતુથી ઈન્ટર વિલેજ હતી. આ ટુર્નામેન્ટની ફાઈનલ સમગ્ર ટુર્નામેન્ટ દરમિયાન દરેક વોલિબોલ ટુર્નામેન્ટ સીઝન ૦૧ નું મેચમાં લખીગામ ઉચ્ચતર માધ્યમિક શાળાના શિક્ષકો અને આચાર્ય દ્વારા આયોજન કરવામાં આવ્યું હતું. આ શાળાની યુવતીઓની ટીમ વિજેતા ખુબ સારો સાથ સહકાર મળ્યો હતો.

અદાણી ફાઉન્ડેશન તથા અદાણી પોર્ટ દહેજ દ્વારા આંતરરાષ્ટ્રીય મહિલા દિવસ-૨૦૨૧ની ઉત્સાહભરે ઉજવણી



સીએસઆર હેડ ઉષા મિશ્રાએ મહિલાઓનું સન્માન કર્યું

આંતરરાષ્ટ્રીય મહિલા દિવસની ઉજવણીના ભાગરૂપે અદાણી ફાઉન્ડેશન દ્વારા કુલ-૩ ગામો જાગેશ્વર, લુવારા,

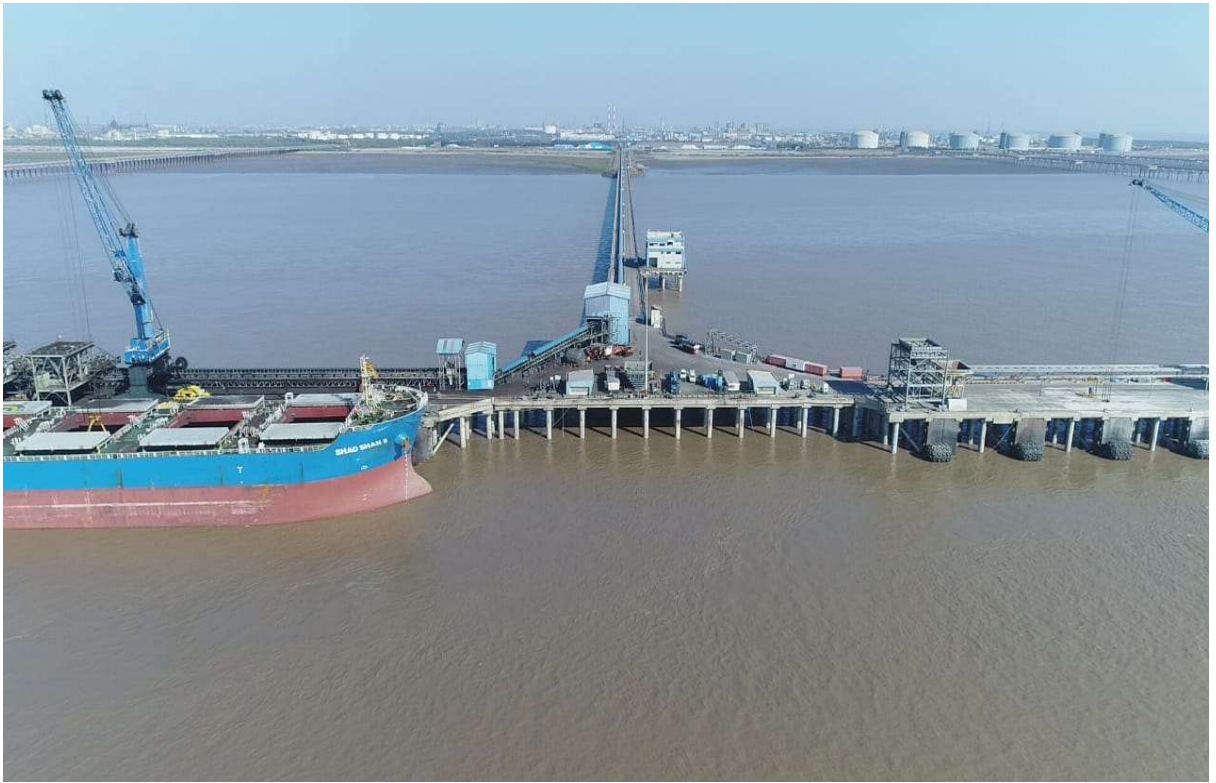
લખીગામ રમતોત્સવનું આયોજન કરવામાં આવ્યું જેમાં કુલ-૩ દિવસ દરમિયાન રમતો રમાડવામાં આવી કબડી, ખો-ખો, સંગીત ખુરશી લીજુ-ચમચી રમતમાં કુલ-૧૫૮ બહેનો એ ભાગ લીધો જેમાં ૩ ગામના કબડીના વિજેતા ટીમને વિનર, રનર્સઅપ તથા ખો-ખોની વિજેતા ટીમને વિનર, રનર્સઅપ ટ્રોફી આપવામાં આવ્યા. સંગીત ખુરશી લીજુ-ચમચીના વિજેતા ટીમને ઈનામ આપી પ્રોત્સાહિત કરવામાં આવ્યા. આંતરરાષ્ટ્રીય મહિલા દિવસની ઉજવણીના ભાગરૂપે સ્વાસ્થ્ય વિભાગ આશાવર્કર-૩, એ.એન.એમ-૨, મહિલા પરિવાર કલ્યાણ વિભાગ દ્વારા આંગણવાડી વર્કર-જ, હેલ્પર-જ, શિક્ષા વિભાગ પ્રાથમિક-માધ્યમિક મહિલા



શિક્ષક-૨૮, સુપોષણ સંગીની-૨, અદાણી ફાઉન્ડેશન યુનિટ લખીગામ-લુવારા, જાગેશ્વર ગામના મહિલા સરપંચ, તમામ મહિલાઓને પ્રોત્સાહન રૂપે સાલ ઓઢાડી આપી સન્માનિત કર્યા.

અદાણી ફાઉન્ડેશન યુનિટ આશાવર્કર, આંગણવાડી વર્કર, એ.એન.એમ, રેફરી તથા અદાણી ફાઉન્ડેશન ટીમ તરફથી કાર્યક્રમ ને સફળ બનાવવામાં સહકાર મળ્યો.

BENEFICIARIES FY 2020 - 21				
S.N	Description	No. of Beneficiaries	No. of Indirect Beneficiaries	Remarks
I	Education initiatives			
1	Project Utthan	2807	14035	14 schools of Project Utthan
2	Sports Enhancement	500	0	
	i. Lakhigam Cricket Tournament	360	0	30 teams of Lakhigam village
	ii. Volleyball Tournament for Girls	42	0	6 teams of 3 High Schools participated
	iii. Volleyball Tournament for Boys	98	0	14 teams of 7 villages participated
3	Construction of boundary wall, Nabipur, Bharuch	244	1220	
II	Community Health Initiatives			
4	Project Swasth	3670	14680	A project on awareness, screening & treatment of Life Style Diseases
5	Vehicle Support in Pulse Polio Campaign	2417	9668	Vehicle provided to CHC, Vagra team for immunization on time.
III	Sustainable Livelihood Initiatives			
6	Pashudhan Program	31400	0	Livestock management program
7	Skill Development Support	10	250	Skill development training, material support to Shiv Shakti Sakhi Mandal, Jageshwar
8	Community Engagement			
	i. Covid support	2000	10000	Ration kits, masks, soaps
	ii. Support to Suva Gaushala	50	200	Integrated model of agriculture, animal husbandry & skill development
	iii. Women's day celebration	158	790	Sports tournament for women
9	SHG Formation/Women Empowerment	33	2185	Training & material support



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

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ANNEXURE- 3

ENVIRONMENT MONITORING REPORT
(OCTOBER-2020 TO MARCH-2021)

Environment Monitoring Report for the period from October-20 to March-21

3A. AMBIENT AIR QUALITY MONITORING: -

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

Sr. No.	Date of Sampling	Location-1: Near Marine Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2020	86.22	41.55	ND*	ND*	ND*	ND*	0.71	ND*	30.23	13.72	31.59	18.37
2	06/10/2020	96.26	53.21	0.82	ND*	2.62	10.67	1.02	ND*	38.66	18.14	36.54	29.95
3	09/10/2020	87.26	50.24	ND*	ND*	ND*	ND*	0.81	ND*	24.13	25.48	39.53	25.21
4	13/10/2020	94.29	55.38	0.90	ND*	2.58	10.43	1.00	ND*	32.85	21.23	43.57	27.58
5	16/10/2020	85.30	46.28	ND*	ND*	ND*	ND*	0.62	ND*	35.46	23.40	45.35	15.15
6	20/10/2020	77.59	37.58	ND*	ND*	ND*	ND*	0.94	ND*	27.39	20.13	37.46	24.31
7	23/10/2020	88.62	48.62	ND*	ND*	ND*	ND*	0.84	ND*	39.29	27.20	42.85	22.31
8	27/10/2020	80.21	44.25	ND*	ND*	ND*	ND*	0.54	ND*	25.65	14.72	38.70	30.4
9	30/10/2020	93.39	52.40	0.65	ND*	2.36	10.34	0.69	ND*	42.34	19.21	33.78	20.76
10	03/11/2020	80.24	39.37	ND*	ND*	ND*	ND*	0.58	ND*	27.54	25.67	42.57	26.36
11	06/11/2020	90.31	43.39	ND*	ND*	ND*	ND*	0.86	ND*	36.46	21.47	34.78	23.42
12	10/11/2020	95.65	53.43	0.83	ND*	2.62	10.56	0.66	ND*	29.41	24.63	37.67	29.4
13	13/11/2020	89.66	46.85	ND*	ND*	ND*	ND*	0.95	ND*	24.90	18.38	32.46	25.47
14	17/11/2020	96.20	55.40	0.92	ND*	2.46	10.33	0.74	ND*	32.86	26.13	44.55	20.32
15	20/11/2020	79.35	44.54	ND*	ND*	ND*	ND*	0.41	ND*	42.69	22.63	41.51	27.54
16	24/11/2020	87.83	50.35	ND*	ND*	ND*	ND*	0.44	ND*	38.41	20.52	38.29	15.41
17	27/11/2020	94.22	54.45	0.80	ND*	2.76	10.35	0.89	ND*	34.50	23.48	31.38	28.25
18	01/12/2020	94.39	52.64	0.70	ND*	2.32	10.32	1.05	ND*	28.55	17.52	33.53	28.38
19	04/12/2020	84.35	46.51	ND*	ND*	ND*	ND*	0.97	ND*	31.50	23.82	37.54	20.78
20	08/12/2020	96.18	54.27	0.76	ND*	2.52	10.88	0.79	ND*	27.66	20.65	41.55	27.6
21	11/12/2020	85.67	39.33	ND*	ND*	ND*	ND*	0.80	ND*	20.48	25.26	38.41	23.78
22	15/12/2020	90.59	51.52	0.82	ND*	2.46	10.61	0.89	ND*	39.53	22.15	42.39	21.3
23	18/12/2020	76.58	32.39	ND*	ND*	ND*	ND*	0.71	ND*	29.37	19.30	39.26	26.28
24	22/12/2020	82.36	30.52	ND*	ND*	ND*	ND*	0.65	ND*	32.42	24.12	44.26	24.86



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25	25/12/2020	93.92	50.24	0.65	ND*	2.65	10.73	0.69	ND*	35.38	21.25	40.20	29.27
26	29/12/2020	83.67	47.83	ND*	ND*	ND*	ND*	0.94	ND*	40.26	15.31	32.48	22.83
27	01/01/2021	78.26	42.36	ND*	ND*	ND*	ND*	0.44	ND*	30.45	19.52	28.66	25.64
28	05/01/2021	86.21	34.67	ND*	ND*	ND*	ND*	0.97	ND*	35.66	22.48	40.30	30.68
29	08/01/2021	94.33	52.66	0.70	ND*	2.22	10.67	0.72	ND*	22.42	25.44	45.35	22.53
30	12/01/2021	88.67	45.56	ND*	ND*	ND*	ND*	0.80	ND*	31.51	23.27	41.25	24.13
31	15/01/2021	79.68	48.37	ND*	ND*	ND*	ND*	0.93	ND*	25.78	16.96	37.56	29.67
32	19/01/2021	90.25	54.23	0.82	ND*	2.18	10.39	0.68	ND*	20.76	26.23	32.49	20.7
33	22/01/2021	81.51	41.60	ND*	ND*	ND*	ND*	0.86	ND*	37.63	18.27	39.28	21.9
34	26/01/2021	70.60	32.41	ND*	ND*	ND*	ND*	0.70	ND*	29.37	20.76	42.34	27.59
35	29/01/2021	93.61	49.30	0.92	ND*	2.60	10.36	0.81	ND*	34.53	24.24	36.55	23.26
36	02/02/2021	86.62	50.50	ND*	ND*	ND*	ND*	0.96	ND*	36.34	25.49	44.35	30.54
37	05/02/2021	79.67	42.36	ND*	ND*	ND*	ND*	0.85	ND*	29.30	17.69	41.21	23.51
38	09/02/2021	90.53	55.37	0.88	ND*	2.46	10.76	0.64	ND*	38.29	21.37	36.46	17.5
39	12/02/2021	82.62	46.27	ND*	ND*	ND*	ND*	0.77	ND*	33.47	26.31	43.65	29.63
40	16/02/2021	78.37	38.40	ND*	ND*	ND*	ND*	1.00	ND*	40.28	23.35	39.24	24.34
41	19/02/2021	93.55	53.61	0.76	ND*	2.62	10.59	1.07	ND*	35.35	13.42	34.57	27.52
42	23/02/2021	80.66	47.29	ND*	ND*	ND*	ND*	0.57	ND*	25.38	20.26	32.58	25.4
43	26/02/2021	92.68	54.58	0.66	ND*	2.84	10.41	0.87	ND*	45.38	24.35	35.63	28.19
44	02/03/2021	89.62	52.36	ND*	ND*	ND*	ND*	1.05	ND*	26.68	21.71	36.58	26.34
45	05/03/2021	93.65	55.36	0.85	ND*	2.23	10.39	0.65	ND*	36.23	27.55	39.25	28.41
46	09/03/2021	84.21	41.28	ND*	ND*	ND*	ND*	0.80	ND*	24.31	16.86	42.54	16.31
47	12/03/2021	94.56	54.25	0.76	ND*	2.42	10.88	0.97	ND*	22.42	25.70	37.61	25.34
48	16/03/2021	88.60	47.09	ND*	ND*	ND*	ND*	0.85	ND*	35.48	20.34	40.31	21.52
49	19/03/2021	80.27	38.49	ND*	ND*	ND*	ND*	0.92	ND*	25.61	17.90	30.68	23.39
50	23/03/2021	92.50	53.29	0.65	ND*	2.36	10.43	0.98	ND*	29.43	26.20	45.63	29.46
51	26/03/2021	73.63	36.26	ND*	ND*	ND*	ND*	0.61	ND*	34.56	22.40	41.22	24.14
52	30/03/2021	86.38	45.43	ND*	ND*	ND*	ND*	0.78	ND*	30.26	15.36	35.46	30.37

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

Note: ND*: Not Detected, 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.: 1.2 - Ambient Air Quality Monitoring Results At Near PMC Building

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/10/2020	66.33	28.67	ND*	ND*	ND*	ND*	0.41	ND*	27.68	18.46	18.88	13.89
2	06/10/2020	78.27	44.40	ND*	ND*	ND*	ND*	0.46	ND*	31.54	11.26	33.56	21.62
3	09/10/2020	83.61	47.30	ND*	ND*	ND*	ND*	0.61	ND*	19.81	23.91	36.48	27.75
4	13/10/2020	60.28	35.64	ND*	ND*	ND*	ND*	0.80	ND*	24.76	13.59	27.63	23.42
5	16/10/2020	80.37	40.40	ND*	ND*	ND*	ND*	0.53	ND*	17.83	19.27	40.29	19.53
6	20/10/2020	69.26	32.66	ND*	ND*	ND*	ND*	0.65	ND*	11.66	10.54	26.43	22.4
7	23/10/2020	82.66	42.60	ND*	ND*	ND*	ND*	0.66	ND*	26.16	16.51	35.17	16.52
8	27/10/2020	74.31	39.27	ND*	ND*	ND*	ND*	0.48	ND*	16.33	20.30	28.44	20.2
9	30/10/2020	64.27	36.46	ND*	ND*	ND*	ND*	0.50	ND*	32.49	14.92	22.46	18.28
10	03/11/2020	58.64	33.78	ND*	ND*	ND*	ND*	0.30	ND*	19.41	20.70	33.87	12.68
11	06/11/2020	62.52	28.64	ND*	ND*	ND*	ND*	0.37	ND*	28.63	14.50	28.71	19.28
12	10/11/2020	73.51	39.43	ND*	ND*	ND*	ND*	0.56	ND*	12.60	12.31	23.68	24.23
13	13/11/2020	56.31	26.80	ND*	ND*	ND*	ND*	0.76	ND*	16.26	15.64	25.45	11.65
14	17/11/2020	83.11	47.54	ND*	ND*	ND*	ND*	0.22	ND*	23.55	18.45	30.64	28.3
15	20/11/2020	52.36	23.80	ND*	ND*	ND*	ND*	0.45	ND*	29.81	16.39	29.21	17.84
16	24/11/2020	78.55	30.47	ND*	ND*	ND*	ND*	0.73	ND*	33.51	11.28	21.62	26.2
17	27/11/2020	65.22	35.37	ND*	ND*	ND*	ND*	0.62	ND*	18.50	13.60	19.41	23.59
18	01/12/2020	76.10	38.67	ND*	ND*	ND*	ND*	0.74	ND*	14.55	6.62	15.60	26.32
19	04/12/2020	60.27	24.79	ND*	ND*	ND*	ND*	0.82	ND*	16.52	9.59	22.64	17.97
20	08/12/2020	88.27	46.35	ND*	ND*	ND*	ND*	0.47	ND*	20.33	15.53	34.32	19.56
21	11/12/2020	71.59	33.49	ND*	ND*	ND*	ND*	0.40	ND*	13.86	19.47	30.29	13.25
22	15/12/2020	89.37	49.33	0.62	ND*	2.36	10.26	0.36	ND*	27.32	14.31	26.85	27.54
23	18/12/2020	51.60	20.33	ND*	ND*	ND*	ND*	0.78	ND*	18.57	12.27	32.27	11.27
24	22/12/2020	64.22	25.68	ND*	ND*	ND*	ND*	0.48	ND*	24.36	20.88	41.34	18.88
25	25/12/2020	87.37	47.59	0.55	ND*	2.42	10.46	0.50	ND*	26.80	23.40	38.62	22.69
26	29/12/2020	73.25	35.26	ND*	ND*	ND*	ND*	0.66	ND*	33.44	13.55	21.56	20.42
27	01/01/2021	62.34	30.66	ND*	ND*	ND*	ND*	0.17	ND*	22.60	14.88	20.63	19.96



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28	05/01/2021	74.64	38.59	ND*	ND*	ND*	ND*	0.92	ND*	29.69	19.62	37.68	23.11
29	08/01/2021	80.20	44.60	ND*	ND*	ND*	ND*	0.47	ND*	14.26	22.31	33.60	25.43
30	12/01/2021	78.67	40.89	ND*	ND*	ND*	ND*	0.46	ND*	18.11	17.23	22.41	15.12
31	15/01/2021	64.23	37.64	ND*	ND*	ND*	ND*	0.38	ND*	21.66	12.85	34.17	26.23
32	19/01/2021	73.55	48.81	ND*	ND*	ND*	ND*	0.55	ND*	15.49	21.89	28.28	16.54
33	22/01/2021	67.53	31.57	ND*	ND*	ND*	ND*	0.66	ND*	32.55	15.31	35.44	13.67
34	26/01/2021	58.32	26.34	ND*	ND*	ND*	ND*	0.57	ND*	36.71	11.53	32.66	18.69
35	29/01/2021	81.62	45.66	ND*	ND*	ND*	ND*	0.39	ND*	19.67	20.65	29.63	12.73
36	02/02/2021	69.59	36.33	ND*	ND*	ND*	ND*	0.55	ND*	27.61	20.21	41.58	25.32
37	05/02/2021	57.58	34.28	ND*	ND*	ND*	ND*	0.76	ND*	24.50	8.71	26.37	26.37
38	09/02/2021	70.64	43.85	ND*	ND*	ND*	ND*	0.37	ND*	22.68	14.21	28.45	15.33
39	12/02/2021	58.32	23.41	ND*	ND*	ND*	ND*	0.30	ND*	15.28	21.57	31.33	18.32
40	16/02/2021	72.67	33.39	ND*	ND*	ND*	ND*	0.82	ND*	34.66	16.34	25.84	20.48
41	19/02/2021	83.49	51.19	ND*	ND*	ND*	ND*	0.25	ND*	17.84	17.37	37.52	14.51
42	23/02/2021	74.37	38.62	ND*	ND*	ND*	ND*	0.39	ND*	21.50	10.38	23.18	11.38
43	26/02/2021	81.23	50.21	ND*	ND*	ND*	ND*	0.45	ND*	42.67	19.36	27.68	21.73
44	02/03/2021	75.62	41.53	ND*	ND*	ND*	ND*	0.86	ND*	20.53	19.51	29.51	29.23
45	05/03/2021	82.67	47.01	ND*	ND*	ND*	ND*	0.34	ND*	23.24	17.25	32.69	18.48
46	09/03/2021	52.51	29.35	ND*	ND*	ND*	ND*	0.64	ND*	12.65	10.27	35.30	20.63
47	12/03/2021	69.33	38.68	ND*	ND*	ND*	ND*	0.29	ND*	16.85	23.61	34.51	24.22
48	16/03/2021	78.67	44.26	ND*	ND*	ND*	ND*	0.42	ND*	10.60	14.54	24.25	16.46
49	19/03/2021	70.57	35.64	ND*	ND*	ND*	ND*	0.38	ND*	13.69	11.42	27.55	17.6
50	23/03/2021	81.24	43.87	ND*	ND*	ND*	ND*	0.84	ND*	22.54	24.21	40.22	19.67
51	26/03/2021	54.58	23.69	ND*	ND*	ND*	ND*	0.66	ND*	25.43	18.23	37.51	25.63
52	30/03/2021	73.56	42.48	ND*	ND*	ND*	ND*	0.49	ND*	14.31	9.59	33.69	23.73

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: ND*: Not Detected, 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	02/10/2020	75.64	33.21	ND*	ND*	ND*	ND*	0.47	ND*	14.21	16.70	15.60	15.93
2	06/10/2020	68.25	41.24	ND*	ND*	ND*	ND*	0.76	ND*	16.57	6.54	30.24	13.36
3	09/10/2020	74.56	36.30	ND*	ND*	ND*	ND*	0.23	ND*	11.25	10.96	25.36	18.54
4	13/10/2020	55.26	29.37	ND*	ND*	ND*	ND*	0.73	ND*	12.31	7.69	35.33	19.21
5	16/10/2020	72.57	32.57	ND*	ND*	ND*	ND*	0.45	ND*	22.64	11.46	29.39	27.22
6	20/10/2020	58.66	28.59	ND*	ND*	ND*	ND*	0.57	ND*	15.75	17.77	21.34	11.27
7	23/10/2020	63.58	24.50	ND*	ND*	ND*	ND*	0.37	ND*	21.21	13.37	26.31	25.87
8	27/10/2020	54.23	21.68	ND*	ND*	ND*	ND*	0.64	ND*	13.43	9.66	22.81	17.14
9	30/10/2020	82.65	48.48	ND*	ND*	ND*	ND*	0.44	ND*	17.28	12.15	28.21	12.63
10	03/11/2020	53.53	22.61	ND*	ND*	ND*	ND*	0.14	ND*	16.59	15.72	30.51	17.57
11	06/11/2020	72.62	30.29	ND*	ND*	ND*	ND*	0.25	ND*	12.74	12.84	25.38	11.82
12	10/11/2020	62.47	26.49	ND*	ND*	ND*	ND*	0.38	ND*	15.81	8.57	20.31	20.41
13	13/11/2020	77.50	33.48	ND*	ND*	ND*	ND*	0.69	ND*	13.22	11.53	17.81	13.43
14	17/11/2020	58.69	28.57	ND*	ND*	ND*	ND*	0.34	ND*	11.21	14.27	22.64	16.33
15	20/11/2020	74.54	42.62	ND*	ND*	ND*	ND*	0.60	ND*	20.50	9.53	18.32	22.6
16	24/11/2020	69.59	38.34	ND*	ND*	ND*	ND*	0.52	ND*	14.29	18.24	34.23	10.61
17	27/11/2020	83.61	41.35	ND*	ND*	ND*	ND*	0.53	ND*	25.31	16.18	24.83	15.83
18	01/12/2020	63.62	42.52	ND*	ND*	ND*	ND*	0.23	ND*	17.83	11.55	24.66	18.64
19	04/12/2020	71.28	36.42	ND*	ND*	ND*	ND*	0.61	ND*	22.60	7.57	18.30	15.86
20	08/12/2020	82.68	40.52	ND*	ND*	ND*	ND*	0.41	ND*	13.65	12.61	27.33	13.32
21	11/12/2020	62.69	28.30	ND*	ND*	ND*	ND*	0.32	ND*	18.22	14.54	23.45	11.57
22	15/12/2020	79.62	35.60	ND*	ND*	ND*	ND*	0.26	ND*	30.28	16.29	19.87	23.53
23	18/12/2020	65.33	27.23	ND*	ND*	ND*	ND*	0.21	ND*	14.39	8.60	15.31	19.82
24	22/12/2020	70.62	21.89	ND*	ND*	ND*	ND*	0.64	ND*	12.52	15.25	35.68	14.5
25	25/12/2020	69.39	39.44	ND*	ND*	ND*	ND*	0.44	ND*	20.25	17.36	26.23	12.88
26	29/12/2020	54.60	26.22	ND*	ND*	ND*	ND*	0.57	ND*	25.26	6.64	14.37	20.53
27	01/01/2021	55.10	28.50	ND*	ND*	ND*	ND*	0.21	ND*	18.32	6.88	17.54	12.64

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28	05/01/2021	62.31	25.36	ND*	ND*	ND*	ND*	0.53	ND*	32.42	11.17	23.44	18.71
29	08/01/2021	69.22	23.66	ND*	ND*	ND*	ND*	0.74	ND*	12.37	15.63	26.53	15.61
30	12/01/2021	71.55	34.26	ND*	ND*	ND*	ND*	0.30	ND*	27.67	13.55	28.37	21.84
31	15/01/2021	56.38	24.28	ND*	ND*	ND*	ND*	0.15	ND*	10.57	8.51	20.46	13.74
32	19/01/2021	68.52	32.23	ND*	ND*	ND*	ND*	0.52	ND*	19.38	17.59	25.38	23.57
33	22/01/2021	54.63	22.66	ND*	ND*	ND*	ND*	0.25	ND*	24.32	10.26	22.64	20.26
34	26/01/2021	65.67	29.58	ND*	ND*	ND*	ND*	0.45	ND*	26.37	7.62	19.46	11.55
35	29/01/2021	74.54	40.57	ND*	ND*	ND*	ND*	0.26	ND*	22.87	9.49	16.55	25.23
36	02/02/2021	46.35	25.28	ND*	ND*	ND*	ND*	0.86	ND*	20.41	18.21	23.68	22.3
37	05/02/2021	51.68	26.83	ND*	ND*	ND*	ND*	0.40	ND*	14.34	13.42	33.49	24.63
38	09/02/2021	64.57	37.54	ND*	ND*	ND*	ND*	0.32	ND*	11.52	11.46	24.83	19.63
39	12/02/2021	76.52	31.59	ND*	ND*	ND*	ND*	0.62	ND*	22.71	17.26	30.42	13.65
40	16/02/2021	52.63	21.35	ND*	ND*	ND*	ND*	0.31	ND*	19.63	19.59	37.43	16.3
41	19/02/2021	63.60	38.26	ND*	ND*	ND*	ND*	0.16	ND*	24.67	6.75	18.56	21.21
42	23/02/2021	58.37	33.72	ND*	ND*	ND*	ND*	0.48	ND*	10.27	12.69	26.92	18.77
43	26/02/2021	75.60	45.34	ND*	ND*	ND*	ND*	0.23	ND*	33.55	10.41	20.10	15.77
44	02/03/2021	82.42	44.76	ND*	ND*	ND*	ND*	0.41	ND*	12.85	16.61	25.25	19.59
45	05/03/2021	68.58	41.32	ND*	ND*	ND*	ND*	0.72	ND*	20.43	14.65	26.27	23.6
46	09/03/2021	74.32	35.50	ND*	ND*	ND*	ND*	0.53	ND*	17.51	12.70	18.72	13.63
47	12/03/2021	63.20	30.41	ND*	ND*	ND*	ND*	0.48	ND*	13.20	19.35	21.29	18.29
48	16/03/2021	72.55	40.57	ND*	ND*	ND*	ND*	0.57	ND*	16.33	10.83	27.26	24.3
49	19/03/2021	53.43	20.36	ND*	ND*	ND*	ND*	0.73	ND*	15.34	8.25	24.68	11.66
50	23/03/2021	62.69	36.79	ND*	ND*	ND*	ND*	0.19	ND*	11.39	20.40	30.38	17.25
51	26/03/2021	59.29	25.96	ND*	ND*	ND*	ND*	0.36	ND*	23.47	13.65	23.52	12.65
52	30/03/2021	67.68	38.61	ND*	ND*	ND*	ND*	0.60	ND*	19.45	7.58	17.25	16.58

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: ND*: Not Detected, 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	02/10/2020	56.25	30.31	ND*	ND*	ND*	ND*	0.29	ND*	21.53	12.50	21.51	12.34
2	06/10/2020	73.44	35.86	ND*	ND*	ND*	ND*	0.39	ND*	19.22	9.26	17.35	15.39
3	09/10/2020	58.38	27.56	ND*	ND*	ND*	ND*	0.63	ND*	28.52	17.62	33.18	11.09
4	13/10/2020	66.23	32.45	ND*	ND*	ND*	ND*	0.60	ND*	29.35	10.33	30.89	13.7
5	16/10/2020	59.25	28.35	ND*	ND*	ND*	ND*	0.31	ND*	15.61	16.24	37.26	21.6
6	20/10/2020	43.63	18.49	ND*	ND*	ND*	ND*	0.17	ND*	13.27	18.60	35.40	16.28
7	23/10/2020	70.28	37.42	ND*	ND*	ND*	ND*	0.33	ND*	18.52	22.32	29.14	19.42
8	27/10/2020	60.25	29.59	ND*	ND*	ND*	ND*	0.52	ND*	11.38	13.26	34.30	14.28
9	30/10/2020	76.20	44.50	ND*	ND*	ND*	ND*	0.14	ND*	24.59	8.26	31.21	23.2
10	03/11/2020	75.67	35.70	ND*	ND*	ND*	ND*	0.42	ND*	14.51	11.35	25.87	14.26
11	06/11/2020	52.50	21.69	ND*	ND*	ND*	ND*	0.17	ND*	10.37	8.66	19.32	21.81
12	10/11/2020	79.82	42.58	ND*	ND*	ND*	ND*	0.47	ND*	25.43	15.34	28.64	18.68
13	13/11/2020	65.39	39.88	ND*	ND*	ND*	ND*	0.55	ND*	21.24	9.20	22.54	16.5
14	17/11/2020	72.51	36.53	ND*	ND*	ND*	ND*	0.63	ND*	13.63	17.30	27.51	13.66
15	20/11/2020	48.62	26.34	ND*	ND*	ND*	ND*	0.82	ND*	33.84	14.48	31.23	25.38
16	24/11/2020	54.52	30.57	ND*	ND*	ND*	ND*	0.88	ND*	24.29	12.62	26.21	23.85
17	27/11/2020	59.37	25.37	ND*	ND*	ND*	ND*	0.81	ND*	12.87	7.67	15.40	17.21
18	01/12/2020	82.38	34.69	ND*	ND*	ND*	ND*	0.30	ND*	13.53	8.41	20.86	24.25
19	04/12/2020	65.36	27.35	ND*	ND*	ND*	ND*	0.68	ND*	18.64	15.90	28.34	22.33
20	08/12/2020	59.36	24.51	ND*	ND*	ND*	ND*	0.38	ND*	10.39	10.18	24.32	17.53
21	11/12/2020	48.52	21.20	ND*	ND*	ND*	ND*	0.46	ND*	16.81	21.52	35.29	21.68
22	15/12/2020	63.68	29.46	ND*	ND*	ND*	ND*	0.18	ND*	20.92	19.46	30.58	18.31
23	18/12/2020	46.56	16.68	ND*	ND*	ND*	ND*	0.31	ND*	12.38	16.32	23.59	13.54
24	22/12/2020	52.27	19.56	ND*	ND*	ND*	ND*	0.93	ND*	21.81	13.49	32.33	16.21
25	25/12/2020	62.55	26.82	ND*	ND*	ND*	ND*	0.25	ND*	17.63	9.62	17.53	20.24
26	29/12/2020	58.29	22.35	ND*	ND*	ND*	ND*	0.86	ND*	30.68	11.26	19.11	11.63
27	01/01/2021	50.62	21.55	ND*	ND*	ND*	ND*	0.27	ND*	28.35	12.37	24.53	10.59



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28	05/01/2021	67.51	29.40	ND*	ND*	ND*	ND*	0.23	ND*	21.57	7.74	27.57	14.65
29	08/01/2021	72.68	18.52	ND*	ND*	ND*	ND*	0.56	ND*	17.60	17.14	21.52	12.53
30	12/01/2021	57.63	27.55	ND*	ND*	ND*	ND*	0.33	ND*	23.36	10.37	25.43	17.21
31	15/01/2021	49.23	20.58	ND*	ND*	ND*	ND*	0.22	ND*	16.49	6.94	15.66	19.3
32	19/01/2021	62.67	28.21	ND*	ND*	ND*	ND*	0.41	ND*	13.44	11.83	19.50	26.71
33	22/01/2021	43.60	15.36	ND*	ND*	ND*	ND*	0.71	ND*	30.22	8.28	13.54	22.89
34	26/01/2021	53.69	19.38	ND*	ND*	ND*	ND*	0.19	ND*	22.73	15.91	26.30	16.74
35	29/01/2021	68.26	35.71	ND*	ND*	ND*	ND*	0.50	ND*	27.87	14.18	22.09	18.22
36	02/02/2021	52.63	28.77	ND*	ND*	ND*	ND*	0.46	ND*	17.56	15.36	30.34	15.65
37	05/02/2021	62.40	32.39	ND*	ND*	ND*	ND*	0.49	ND*	20.20	11.37	21.56	18.54
38	09/02/2021	80.52	47.54	ND*	ND*	ND*	ND*	0.47	ND*	29.47	18.63	33.61	13.49
39	12/02/2021	70.29	34.57	ND*	ND*	ND*	ND*	0.58	ND*	12.19	12.37	36.25	16.55
40	16/02/2021	64.31	26.36	ND*	ND*	ND*	ND*	0.73	ND*	23.43	13.50	23.48	11.58
41	19/02/2021	72.36	43.46	ND*	ND*	ND*	ND*	0.50	ND*	21.22	10.27	22.38	24.85
42	23/02/2021	53.62	30.34	ND*	ND*	ND*	ND*	0.36	ND*	13.65	7.41	16.90	14.29
43	26/02/2021	65.55	35.44	ND*	ND*	ND*	ND*	0.29	ND*	30.37	14.49	31.23	19.37
44	02/03/2021	48.27	25.51	ND*	ND*	ND*	ND*	0.33	ND*	18.24	9.58	20.24	14.26
45	05/03/2021	54.67	31.90	ND*	ND*	ND*	ND*	0.50	ND*	15.56	18.49	35.52	12.54
46	09/03/2021	68.28	26.46	ND*	ND*	ND*	ND*	0.25	ND*	19.26	15.61	31.28	19.23
47	12/03/2021	83.42	46.21	ND*	ND*	ND*	ND*	0.11	ND*	10.92	11.32	27.64	13.4
48	16/03/2021	56.32	33.49	ND*	ND*	ND*	ND*	0.69	ND*	13.56	16.41	34.55	26.21
49	19/03/2021	66.35	29.43	ND*	ND*	ND*	ND*	0.23	ND*	17.36	7.62	18.31	20.22
50	23/03/2021	55.39	32.95	ND*	ND*	ND*	ND*	0.14	ND*	26.45	12.60	26.47	11.31
51	26/03/2021	49.51	20.75	ND*	ND*	ND*	ND*	0.55	ND*	11.65	8.62	19.50	15.38
52	30/03/2021	61.29	34.69	ND*	ND*	ND*	ND*	0.37	ND*	16.48	17.41	28.53	18.19

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: ND*: Not Detected, 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	02/10/2020	50.69	22.55	ND*	ND*	ND*	ND*	0.70	ND*	17.13	10.20	24.59	10.27
2	06/10/2020	61.47	27.63	ND*	ND*	ND*	ND*	0.26	ND*	26.21	13.31	20.79	19.82
3	09/10/2020	68.71	33.61	ND*	ND*	ND*	ND*	0.42	ND*	21.38	14.36	16.20	14.33
4	13/10/2020	71.72	42.49	ND*	ND*	ND*	ND*	0.36	ND*	14.50	9.55	22.33	17.21
5	16/10/2020	52.47	20.44	ND*	ND*	ND*	ND*	0.24	ND*	12.89	11.32	34.63	23.03
6	20/10/2020	48.59	24.36	ND*	ND*	ND*	ND*	0.30	ND*	18.25	8.62	29.46	18.42
7	23/10/2020	55.24	28.42	ND*	ND*	ND*	ND*	0.27	ND*	15.36	18.30	33.43	24.67
8	27/10/2020	45.39	19.24	ND*	ND*	ND*	ND*	0.19	ND*	19.66	7.56	19.26	25.65
9	30/10/2020	58.36	25.46	ND*	ND*	ND*	ND*	0.32	ND*	27.50	16.45	25.78	29.43
10	03/11/2020	63.68	27.58	ND*	ND*	ND*	ND*	0.23	ND*	12.53	18.61	22.33	22.43
11	06/11/2020	59.60	24.51	ND*	ND*	ND*	ND*	0.33	ND*	22.81	15.55	21.85	17.61
12	10/11/2020	67.55	31.76	ND*	ND*	ND*	ND*	0.27	ND*	18.64	6.52	29.53	13.87
13	13/11/2020	73.43	35.80	ND*	ND*	ND*	ND*	0.24	ND*	13.52	13.20	19.50	19.63
14	17/11/2020	64.20	40.25	ND*	ND*	ND*	ND*	0.40	ND*	17.22	20.68	35.28	21.55
15	20/11/2020	58.59	28.32	ND*	ND*	ND*	ND*	0.48	ND*	23.69	11.39	24.50	10.25
16	24/11/2020	62.62	37.83	ND*	ND*	ND*	ND*	0.32	ND*	20.78	9.63	31.51	12.41
17	27/11/2020	71.24	32.33	ND*	ND*	ND*	ND*	0.57	ND*	10.62	19.64	26.32	20.27
18	01/12/2020	69.32	29.67	ND*	ND*	ND*	ND*	0.33	ND*	24.69	19.84	27.55	20.83
19	04/12/2020	57.61	21.67	ND*	ND*	ND*	ND*	0.14	ND*	27.54	21.38	33.87	12.52
20	08/12/2020	72.54	35.54	ND*	ND*	ND*	ND*	0.34	ND*	17.56	7.36	31.57	23.66
21	11/12/2020	67.58	26.35	ND*	ND*	ND*	ND*	0.45	ND*	10.14	11.35	20.42	14.89
22	15/12/2020	70.22	37.53	ND*	ND*	ND*	ND*	0.60	ND*	22.52	12.85	23.35	25.4
23	18/12/2020	56.51	23.86	ND*	ND*	ND*	ND*	0.16	ND*	25.39	14.29	19.56	16.49
24	22/12/2020	49.80	15.30	ND*	ND*	ND*	ND*	0.53	ND*	18.39	17.87	26.48	22.71
25	25/12/2020	55.38	28.39	ND*	ND*	ND*	ND*	0.24	ND*	23.47	13.67	21.33	18.51
26	29/12/2020	68.29	31.48	ND*	ND*	ND*	ND*	0.22	ND*	16.31	9.35	16.22	13.82
27	01/01/2021	67.94	24.56	ND*	ND*	ND*	ND*	0.16	ND*	14.31	8.61	14.51	17.54



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28	05/01/2021	49.52	17.53	ND*	ND*	ND*	ND*	0.61	ND*	25.36	12.26	30.37	24.6
29	08/01/2021	56.31	27.66	ND*	ND*	ND*	ND*	0.34	ND*	10.27	10.51	23.69	19.42
30	12/01/2021	63.58	23.50	ND*	ND*	ND*	ND*	0.54	ND*	15.25	7.39	33.42	13.47
31	15/01/2021	68.30	33.41	ND*	ND*	ND*	ND*	0.18	ND*	18.59	13.42	25.73	15.53
32	19/01/2021	52.42	22.34	ND*	ND*	ND*	ND*	0.37	ND*	11.26	15.20	20.28	18.14
33	22/01/2021	61.26	26.51	ND*	ND*	ND*	ND*	0.63	ND*	21.72	6.61	28.41	16.29
34	26/01/2021	48.66	16.58	ND*	ND*	ND*	ND*	0.73	ND*	16.31	9.88	35.27	14.59
35	29/01/2021	62.53	32.94	ND*	ND*	ND*	ND*	0.31	ND*	13.54	11.67	19.81	11.3
36	02/02/2021	58.65	33.59	ND*	ND*	ND*	ND*	0.60	ND*	13.22	13.62	20.30	12.23
37	05/02/2021	67.57	35.73	ND*	ND*	ND*	ND*	0.24	ND*	26.31	6.40	29.35	20.34
38	09/02/2021	53.53	30.26	ND*	ND*	ND*	ND*	0.65	ND*	18.37	9.63	21.35	11.62
39	12/02/2021	64.57	27.60	ND*	ND*	ND*	ND*	0.34	ND*	25.20	14.33	17.61	21.37
40	16/02/2021	57.93	23.79	ND*	ND*	ND*	ND*	0.56	ND*	15.31	11.20	31.56	23.45
41	19/02/2021	49.36	34.66	ND*	ND*	ND*	ND*	0.66	ND*	12.32	8.92	26.55	13.53
42	23/02/2021	63.35	24.58	ND*	ND*	ND*	ND*	0.22	ND*	19.28	12.17	19.68	15.41
43	26/02/2021	70.30	29.69	ND*	ND*	ND*	ND*	0.38	ND*	24.33	16.49	22.65	22.44
44	02/03/2021	55.29	29.30	ND*	ND*	ND*	ND*	0.21	ND*	15.61	11.52	18.64	11.25
45	05/03/2021	61.27	34.10	ND*	ND*	ND*	ND*	0.17	ND*	11.27	13.59	22.63	21.3
46	09/03/2021	57.25	21.57	ND*	ND*	ND*	ND*	0.47	ND*	21.21	7.41	15.59	14.6
47	12/03/2021	79.65	43.58	ND*	ND*	ND*	ND*	0.16	ND*	18.64	16.28	19.25	16.24
48	16/03/2021	50.29	26.60	ND*	ND*	ND*	ND*	0.32	ND*	29.35	12.51	20.60	18.61
49	19/03/2021	58.63	23.38	ND*	ND*	ND*	ND*	0.44	ND*	10.30	14.88	21.61	15.23
50	23/03/2021	49.27	28.47	ND*	ND*	ND*	ND*	0.39	ND*	14.25	18.35	24.29	23.44
51	26/03/2021	44.29	17.52	ND*	ND*	ND*	ND*	0.24	ND*	17.45	15.27	28.41	17.86
52	30/03/2021	54.31	31.05	ND*	ND*	ND*	ND*	0.54	ND*	24.27	10.49	23.76	22.67

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: ND*: Not Detected, 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	02/10/2020	80.31	38.45	ND*	ND*	ND*	ND*	0.38	ND*	25.26	20.56	28.58	19.38
2	06/10/2020	91.82	48.20	0.72	ND*	2.42	10.52	0.82	ND*	34.25	15.20	39.27	25.37
3	09/10/2020	78.67	40.27	ND*	ND*	ND*	ND*	0.68	ND*	31.88	22.43	30.42	21.23
4	13/10/2020	84.25	46.33	0.81	ND*	2.36	10.35	0.95	ND*	17.56	19.65	24.68	24.56
5	16/10/2020	90.23	49.20	ND*	ND*	ND*	ND*	0.58	ND*	27.10	26.52	31.15	29.34
6	20/10/2020	63.55	35.73	ND*	ND*	ND*	ND*	0.40	ND*	24.27	13.20	26.30	20.33
7	23/10/2020	75.23	45.69	ND*	ND*	ND*	ND*	0.74	ND*	35.25	24.83	38.31	28.27
8	27/10/2020	68.65	33.54	ND*	ND*	ND*	ND*	0.90	ND*	22.26	16.78	42.56	22.19
9	30/10/2020	87.55	39.43	0.53	ND*	2.12	10.17	0.34	ND*	29.59	21.68	37.84	14.41
10	03/11/2020	69.58	31.56	ND*	ND*	ND*	ND*	0.49	ND*	23.41	22.52	36.35	24.56
11	06/11/2020	78.28	38.43	ND*	ND*	ND*	ND*	0.78	ND*	31.21	18.59	31.66	27.23
12	10/11/2020	90.28	48.31	0.68	ND*	2.42	10.45	0.54	ND*	20.60	21.68	34.54	22.55
13	13/11/2020	82.40	43.59	ND*	ND*	ND*	ND*	0.85	ND*	19.28	15.44	27.25	20.65
14	17/11/2020	91.26	52.25	0.78	ND*	2.34	10.38	0.68	ND*	28.27	24.18	37.43	26.89
15	20/11/2020	68.57	33.87	ND*	ND*	ND*	ND*	0.36	ND*	38.24	20.25	35.66	30.22
16	24/11/2020	83.66	46.51	ND*	ND*	ND*	ND*	0.64	ND*	30.50	23.53	42.41	21.61
17	27/11/2020	88.62	50.40	0.65	ND*	2.65	10.23	1.05	ND*	33.44	17.86	28.56	25.53
18	01/12/2020	89.61	47.56	0.63	ND*	2.15	10.53	0.17	ND*	21.54	10.61	30.64	22.49
19	04/12/2020	77.66	39.64	ND*	ND*	ND*	ND*	0.92	ND*	35.27	13.18	25.29	24.68
20	08/12/2020	92.64	49.44	0.84	ND*	2.18	10.72	0.72	ND*	29.63	18.79	37.69	15.32
21	11/12/2020	78.65	30.85	ND*	ND*	ND*	ND*	0.58	ND*	24.53	16.84	33.32	18.22
22	15/12/2020	84.35	46.20	0.76	ND*	2.27	10.41	0.95	ND*	33.69	20.56	38.27	16.36
23	18/12/2020	71.26	36.25	ND*	ND*	ND*	ND*	0.62	ND*	22.38	22.38	34.82	28.79
24	22/12/2020	68.30	28.60	ND*	ND*	ND*	ND*	0.42	ND*	27.81	15.70	29.29	26.58
25	25/12/2020	82.30	43.68	0.60	ND*	2.36	10.64	0.55	ND*	32.89	11.61	32.82	23.84
26	29/12/2020	79.51	45.21	ND*	ND*	ND*	ND*	0.49	ND*	20.60	17.80	27.80	19.29
27	01/01/2021	71.65	34.52	ND*	ND*	ND*	ND*	0.24	ND*	36.20	21.32	31.24	25.38



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28	05/01/2021	80.54	31.84	ND*	ND*	ND*	ND*	0.42	ND*	18.66	17.29	34.25	21.52
29	08/01/2021	89.23	47.53	0.58	ND*	2.32	10.37	0.36	ND*	26.25	19.32	42.67	26.49
30	12/01/2021	83.51	37.28	ND*	ND*	ND*	ND*	0.49	ND*	29.42	20.37	35.68	19.53
31	15/01/2021	73.81	44.30	ND*	ND*	ND*	ND*	0.48	ND*	34.29	14.37	28.63	23.70
32	19/01/2021	85.37	51.42	0.68	ND*	2.12	10.16	0.62	ND*	24.27	23.53	36.29	27.24
33	22/01/2021	76.64	35.60	ND*	ND*	ND*	ND*	0.79	ND*	28.29	11.44	30.27	29.29
34	26/01/2021	52.68	23.74	ND*	ND*	ND*	ND*	0.82	ND*	19.53	18.43	38.36	24.55
35	29/01/2021	88.69	49.91	0.82	ND*	2.40	10.20	0.76	ND*	30.87	16.19	26.67	28.86
36	02/02/2021	80.35	46.34	ND*	ND*	ND*	ND*	1.01	ND*	23.64	23.47	35.35	18.66
37	05/02/2021	73.43	38.28	ND*	ND*	ND*	ND*	0.79	ND*	17.60	19.66	38.31	28.35
38	09/02/2021	85.33	50.38	0.73	ND*	2.24	10.28	0.54	ND*	34.57	17.66	30.20	24.51
39	12/02/2021	53.51	20.32	ND*	ND*	ND*	ND*	0.89	ND*	28.67	24.58	39.57	26.23
40	16/02/2021	60.26	29.42	ND*	ND*	ND*	ND*	0.70	ND*	37.50	21.61	34.57	29.56
41	19/02/2021	76.54	47.36	0.72	ND*	2.46	10.50	0.98	ND*	31.68	15.66	31.37	16.14
42	23/02/2021	69.53	43.38	ND*	ND*	ND*	ND*	0.84	ND*	16.61	18.55	28.86	22.21
43	26/02/2021	86.34	40.22	0.56	ND*	2.56	10.39	0.61	ND*	38.60	22.37	37.24	25.62
44	02/03/2021	70.28	36.57	ND*	ND*	ND*	ND*	0.93	ND*	22.34	14.29	32.47	22.43
45	05/03/2021	87.64	49.75	0.72	ND*	2.16	10.32	0.30	ND*	30.46	23.42	42.60	30.40
46	09/03/2021	79.60	38.29	ND*	ND*	ND*	ND*	0.46	ND*	28.27	21.21	38.43	18.22
47	12/03/2021	88.27	50.23	0.65	ND*	2.12	10.15	0.58	ND*	20.32	13.45	29.57	28.38
48	16/03/2021	65.65	35.21	ND*	ND*	ND*	ND*	0.68	ND*	23.51	18.67	31.55	20.33
49	19/03/2021	75.68	32.51	ND*	ND*	ND*	ND*	0.77	ND*	18.50	20.28	33.58	24.59
50	23/03/2021	86.38	48.26	0.58	ND*	2.22	10.24	0.52	ND*	17.28	22.53	37.69	26.82
51	26/03/2021	64.20	29.03	ND*	ND*	ND*	ND*	0.71	ND*	31.24	19.48	34.24	21.45
52	30/03/2021	77.55	40.76	ND*	ND*	ND*	ND*	0.82	ND*	27.52	12.35	30.54	19.84

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: ND*: Not Detected, 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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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: October-20 to March-21****3B.1 Near Sub Station-7B**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1	Temperature	°C	30.3	30.4	30	30.1	30.3	30.3
2	pH	--	8.4	8.23	8.48	8.29	8.09	8.35
3	Total Dissolved Solids	mg/L	1810	1526	1673	1730	1156	1768
4	Salinity	ppt	0.27	0.23	0.25	0.27	0.198	0.294
5	Chloride as Cl	mg/L	149	129	138	148	110	163
6	Depth of Water Level from Ground Level	meter	1.5	2	2.5	1.5	1.5	1.5
7	Status of Tide	--	High Tide	High Tide	Low Tide	High Tide	Low Tide	Low Tide

3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1	Temperature	°C	30.5	30.3	30	30.2	30.3	30.3
2	pH	--	8.42	8.47	8.65	8.59	8.2	8.62
3	Total Dissolved Solids	mg/L	992	986	1356	1586	1218	1673
4	Salinity	ppt	0.21	0.169	0.29	0.31	0.22	0.33
5	Chloride as Cl	mg/L	119	94	154	170	124	184
6	Depth of Water Level from Ground Level	meter	1.5	1.5	1.5	1.5	2	2
7	Status of Tide	--	High Tide	High Tide	Low Tide	High Tide	Low Tide	Low Tide

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3C. SEA WATER (SURFACE & BOTTOM) QUALITY ANALYSIS MONITORING:-
Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period: October 2020 to March 2021:-

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			OCT-20		NOV-20		DEC-20		JAN-21		FEB-21		MARCH-21	
			23/10/2020		28/11/2020		30/12/2020		05/01/2021		18/02/2021		25/03/2021	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.94	7.91	8.11	8.06	8.26	8.21	8.21	8.17	8.28	8.23	8.27	8.24
2	Temperature	°C	29.2	29	29.1	28.9	29.9	29.5	29.7	29.5	30.4	30.2	30.4	30.2
3	Total Suspended Solids	mg/L	316	293	386	264	368	270	328	287	351	319	312	278
4	BOD (3 Days @ 27 °C)	mg/L	2.3	Not Detected	2.9	Not Detected	3.1	Not Detected	3.4	Not Detected	3.6	Not Detected	3.4	Not Detected
5	Dissolved Oxygen	mg/L	5.9	5.8	5.8	5.6	5.9	5.7	5.8	5.6	5.9	5.7	5.9	5.8
6	Salinity	ppt	29.5	29.9	30.4	30.7	30.7	31.1	30.8	31.3	31.8	32.5	32.1	32.6
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	µm ol/L	2.58	2.4	2.36	2.28	2.48	2.23	2.69	2.43	3.37	3.21	2.93	2.76
9	Nitrite as NO ₂	µm ol/L	0.61	0.39	0.74	0.59	0.68	0.45	0.96	0.85	0.61	0.48	0.59	0.43
10	Ammonical Nitrogen as NH ₃	µm ol/L	2.43	2.4	2.26	2.1	1.87	1.68	2.28	2.16	2.57	2.36	2.37	2.26
11	Phosphates as PO ₄	µm ol/L	1.58	1.34	1.93	1.84	1.61	1.52	2.39	2.27	2.6	2.47	2.41	2.18
12	Total Nitrogen	µm ol/L	5.62	5.19	5.36	4.97	5.03	4.36	5.93	5.44	6.55	6.05	5.89	5.45
13	Petroleum Hydrocarbon	µg/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
14	Total Dissolved Solids	mg/L	31440	31816	32296	32598	32576	32968	32686	32730	33689	34370	34108	34406
15	COD	mg/L	21.3	Not Detected	25	Not Detected	27	Not Detected	25	Not Detected	29	20	25	19
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	3.04	2.78	2.83	2.46	2.99	2.72	3.1	3.04	3.26	3.15	2.79	2.42
16.2	Phaeophytin	mg/m ³	1.11	2.08	1.32	2.4	1.12	1.69	1.87	1.74	2.42	1.78	0.26	0.03
16.3	Cell Count	Unit x 10 ³ /L	158	104	144	98	184	102	146	98	178	130	156	128
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Rhizosolenia sp. Nitzschia sp. Thalassionema sp.	Navicula sp. Fragillaria sp. Biddulphia sp. --	Pleurosigma sp. Navicula sp. Rhizosolenia sp. Odontella sp.	Thalassiosira sp. Ceratiurn sp. Nitzschia sp. --	Coscinodiscus sp. Rhizosolenia sp. Pleurosigma sp. Skeletonema sp.	Nitzschia sp. Navicula sp. Cyclotella sp. --	Rhizosolenia sp. Ceratiurn sp. Odontella sp. Ankistrodesmus sp. Pleurosigma sp.	Synedra sp. Navicula sp. Nitzschia sp. Pleurosigma sp. --	Chaetognathes sp. Pleurosigma sp. Ceratiurn sp. Coscinodiscus sp.	Navicula sp. Nitzschia sp. Odontella sp. --	Rhizosolenia sp. Odontella sp. Chaetognathes sp.	Pleurosigma sp. Nitzschia sp. Ceratiurn sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
			South Side	South Side	South Side	South Side	South Side	South Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	20	24	22	31	36	29
17.2	Name of Group Number and name of group species of each group	--	Gastropods Isopods Ostracodes Polychaetes	Crustaceans Copepods Bivalves	Polychaetes Copepods Decapods --	Bivalves Copepods Mysids Crustaceans	Mysids Polychaetes Gastropods Isopods	Copepods Bivalves Polychaetes --
17.3	Total Biomass	ml/100 m ³	2.95	2.85	2.35	3.15	3.4	3.05
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2130	2240	2290	2150	2240	2310
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

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 2020 to March 2021:-

SR. NO	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			OCT-20		NOV-20		DEC-20		JAN-21		FEB-21		MARCH-21	
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.99	7.95	8.15	8.1	8.27	8.25	8.22	8.19	8.27	8.2	8.29	8.23
2	Temperature	°C	29.4	29.9	29.2	29	29.8	29.6	29.6	29.4	30.3	30.1	30.4	30.2
3	Total Suspended Solids	mg/L	310	296	359	270	324	258	309	286	334	356	312	283
4	BOD (3 Days @ 27 °C)	mg/L	2.16	Not Detected	2.9	Not Detected	3.2	Not Detected	3.3	Not Detected	3.5	Not Detected	3.3	Not Detected
5	Dissolved Oxygen	mg/L	5.9	5.7	5.8	5.6	5.9	5.7	5.8	5.6	5.7	5.5	5.9	5.8
6	Salinity	ppt	29.7	30.1	30.5	30.8	30.8	31.2	30.6	31.2	31.5	32.2	31.9	32.4
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	2.56	2.37	2.45	2.31	2.3	2.19	2.73	2.39	3.29	3.17	2.86	2.71
9	Nitrite as NO ₂	µmol/L	0.48	0.39	0.68	0.5	0.76	0.57	0.86	0.72	0.57	0.43	0.61	0.53
10	Ammonical Nitrogen as NH ₃	µmol/L	1.76	1.53	2.34	2.1	1.9	1.81	2.35	2.21	2.46	2.39	2.39	2.28
11	Phosphates as PO ₄	µmol/L	1.12	1	1.87	1.7	1.59	1.37	2.24	2.1	2.68	2.41	2.46	2.21
12	Total Nitrogen	µmol/L	4.8	4.29	5.47	4.91	4.96	4.57	5.94	5.32	6.32	5.99	5.86	5.52
13	Petroleum Hydrocarbon	µg/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
14	Total Dissolved Solids	mg/L	31640	31906	32406	32694	32670	33058	32493	33114	33465	33698	33768	34296
15	COD	mg/L	20.3	Not Detected	22	Not Detected	25	Not Detected	24	Not Detected	32	21	28	19.2
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.93	2.83	2.88	2.72	3.04	2.62	3.09	2.93	3.25	3.04	2.75	2.4
16.2	Phaeophytin	mg/m ³	1.17	1.58	1.23	1.69	1.07	2.24	1.69	2	1.53	1.89	0.54	0.51
16.3	Cell Count	Unit x 10 ³ /L	156	98	152	102	178	98	140	90	186	110	172	106
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Thalassionema sp. Rhizosolenia sp. Navicula sp.	Nitzschia sp. Synechodra sp. Fragillaria sp. --	Pleurosigma sp. Skeletonema sp. Thalassiosira sp. Navicula sp.	Nitzschia sp. Fragillaria sp. Rhizosolenia sp. --	Rhizosolenia sp. Ceratiurn sp. Pleurosigma sp. coscinodiscus sp.	Nitzschia sp. Chaetoceros sp. Fragillaria sp. --	Rhizosolenia sp. Coscinodiscus sp. Skeletonema sp. Pleurosigma sp. Pleurosigma sp. Nitzschia sp.	Navicula sp. Biddulphia sp. Nitzschia sp. Synedra sp. --	Nitzschia sp. Coscinodiscus sp. Ceratiurn sp. Rhizosolenia sp.	Navicula sp. Odontella sp. Pleurosigma sp. --	Trichodesmium sp. Chaetoceros sp. Coscinodiscus sp. Odontella sp. Ceratiurn sp.	Nitzschia sp. Rhizosolenia sp. Pleurosigma sp. Navicula sp. --

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE					
			OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
			North Side	North Side	North Side	North Side	North Side	North Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	19	23	18	33	36	31
17.2	Name of Group Number and name of group species of each group	--	Polychaetes Mysids Bivalves Decapods	Bivalves Isopods Copepods Crustaceans	Copepods Bivalves Crustaveans --	Copepods Crustaceans Polychaetes --	Copepods Mysis Polychaetes Isopods	Polychaetes Gastropods Bivalves --
17.3	Total Biomass	ml/100 m ³	2.1	2.7	2.4	3.35	3.55	3.25
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2310	2290	2330	2280	2150	2240
18.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Present
18.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

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 2020 to March 2021

Sr. No	PARAMETERS	UNIT	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
1	Organic Matter	%	0.4	0.43	0.52	0.47	0.61	0.52
2	Phosphorus as P	µg/g	536	630	694	638	714	618
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	%	4.6	4.4	4.7	4.84	5.26	4.36
5.2	Total Chromium as Cr ⁺³	µg/g	147	139	164	159	139	119
5.3	Manganese as Mn	µg/g	704	610	570	683	587	512
5.4	Iron as Fe	%	4.53	4.28	4.36	4.46	4.53	4.36
5.5	Nickel as Ni	µg/g	58	47	61	57	68	59
5.6	Copper as Cu	µg/g	23	32	39	48	35.4	27.6
5.7	Zinc as Zn	µg/g	164	158	141	163	129	148
5.8	Lead as Pb	µg/g	2.23	1.94	1.58	2.19	1.56	2.29
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 Crustaceans Bivalves	Polychaete worms Oligochaetes Amphipods	Polychaetes Gastropods Crustaceans	Polychaetes Molluscs Decapods	Polychaetes Bivalves Crustaceans	Polychaetes Gastropods --
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Nematodes	Nematodes	Foraminiferans Nematodes
6.3	Population	no/m ²	351	292	382	529	559	412

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-20 to March-2021:-

Sr. No..	PARAMETERS	UNIT	OCT-20	NOV-20	DEC-20	JAN-21	FEB-21	MARCH-21
			23/10/2020	28/11/2020	30/12/2020	05/01/2021	18/02/2021	25/03/2021
1	Organic Matter	%	0.41	0.46	0.53	0.47	0.59	0.48
2	Phosphorus as P	mg/kg	509	634	674	628	693	635
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	%	4.53	4.36	4.69	4.7	5.18	4.45
5.2	Total Chromium as Cr ⁺³	mg/kg	161	132	153	168	147	138
5.3	Manganese as Mn	mg/kg	720	758	596	613	556	507
5.4	Iron as Fe	%	4.76	4.28	4.48	4.69	4.43	4.26
5.5	Nickel as Ni	mg/kg	53	39	57	53	61.5	49.2
5.6	Copper as Cu	mg/kg	27	36	45	49	38.2	31.5
5.7	Zinc as Zn	mg/kg	143	193	156	173	113	127
5.8	Lead as Pb	mg/kg	2.16	1.84	1.37	2.28	1.93	2.15
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)	--	Gastropods Crustaceans	Polychaete worms Herpacticoids Amphipods	Polychaetes Gastropods Bivalves	Polychaetes Annelids Crustaceans	Polychaetes Crustaceans --	Polychaetes Gastropods --
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferans	Nematodes	Foraminiferans	Nematodes	Nematodes	Foraminiferans
6.3	Population	no/m ²	380	263	292	499	528	440

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-20 to March-21

Date			Nov-20	Nov-20	Feb-21	Feb-21
			28/11/2020	28/11/2020	18/02/2021	18/02/2021
Sr. No.	Test Parameters	Unit	Dump Pond Discharge -J3	Dump Pond Discharge – SS7A	Dump Pond Discharge -J3	Dump Pond Discharge – SS7A
1.	pH	--	8.02	8.28	8.73	8.75
2.	Total Dissolved Solids	mg/L	1184	1870	1589	2356
3.	Total Suspended Solids	mg/L	19	25	21	31
4.	Turbidity	NTU	2.43	2.78	2.34	2.96
5.	BOD (3 Days @ 27 °C)	mg/L	15	15	11.4	13.4
6.	Dissolved Oxygen	mg/L	6	6.1	6.1	6
7.	COD	mg/L	72	68	67	71
8.	Salinity	ppt	0.21	0.216	0.25	0.23
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO ₃	mg/L	598	570	612	593
11.	Fluoride as F	mg/L	0.39	0.32	0.48	0.42
12.	Chloride as Cl	mg/L	118	120	139	129
13.	Zinc as Zn	mg/L	0.21	0.19	0.23	0.28
14.	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
15.	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
16.	Mercury as Hg	mg/L	Not Detected	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-20 TO MARCH-21

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	March-21
			23/10/20	28/11/20	30/12/20	30/01/21	18/02/21	16/03/21
1.	pH	--	7.75	7.84	7.25	7.68	6.83	7.11
2.	Total Suspended Solids	mg/L	6	8	18	15	13	14
3.	BOD (3 Days @ 27 °C)	mg/L	15	10	16	13	17	7.8
4.	Residual Free Chlorine	mg/L	0.6	0.8	0.6	0.8	0.6	0.8
5.	Oil & Grease	mg/L	4.3	2.8	3.5	4.1	3.7	3.1

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 2020 to March 2021

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	02/10/2020	02/11/2020	01/12/2020	01/01/2021	01/02/2021	02/03/2021
6:00-7:00	45.9	60.5	51.2	59.8	59.8	54.5
7:00-8:00	50.0	44.4	57.6	48.6	56.3	48.9
8:00-9:00	47.6	53.2	60.2	50.0	54.4	50.4
9:00-10:00	42.6	50.8	55.4	51.4	55.7	61.1
10:00-11:00	59.3	49.0	59.7	58.6	52.2	48.6
11:00-12:00	47.8	49.9	48.6	47.5	51.6	53.8
12:00-13:00	55.8	59.7	50.4	50.2	56.8	57.6
13:00-14:00	50.1	42.5	48.5	48.8	53.7	58.7
14:00-15:00	52.4	56.3	68.1	52.4	50.7	48.5
15:00-16:00	49.2	50.7	49.4	49.6	48.7	50.9
16:00-17:00	50.1	53.9	57.2	54.1	52.3	51.7
17:00-18:00	51.1	59.3	53.1	57.5	49.7	53.7
18:00-19:00	50.0	49.7	70.1	51.8	46.5	59.2
19:00-20:00	45.8	51.7	44.3	47.2	45.8	47.9
20:00-21:00	44.8	59.9	54.0	49.2	52.6	55.4
21:00-22:00	43.8	49.8	48.7	53.2	54.8	51.0

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	02/10/2020 & 03/10/2020	02/11/2020 & 03/11/2020	01/12/2020 & 02/12/2020	01/01/2021 & 02/01/2021	01/02/2021 & 02/02/2021	02/03/2021 & 03/03/2021
22:00-23:00	48.5	58.7	58.7	56.8	52.7	56.4
23:00-00:00	56.4	41.8	61.5	52.6	50.6	57.3
00:00-01:00	60.1	54.4	55.6	46.5	53.9	55.3
01:00-02:00	49.5	45.6	42.5	50.9	58.7	43.5
02:00-03:00	47.8	52.7	59.8	51.7	56.5	57.8
03:00-04:00	54.4	50.2	50.9	54.7	50.9	56.1
04:00-05:00	51.8	51.5	51.8	55.9	41.9	59.8
05:00-06:00	58.1	50.6	53.4	56.4	42.8	55.8

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

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

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



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Tables -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 2020 to March 2021

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	03/10/2020	03/11/2020	02/12/2020	02/01/2021	02/02/2021	03/03/2021
6:00-7:00	46.8	50.9	61.6	62.6	60.3	51.4
7:00-8:00	54.2	58.3	56.8	61.8	58.2	58.8
8:00-9:00	55.1	47.5	54.3	58.9	56.5	60.5
9:00-10:00	50.1	55.8	59.4	59.5	54.3	62.5
10:00-11:00	45.9	50.6	60.5	57.4	50.8	50.8
11:00-12:00	46.8	52.6	48.4	56.8	53.9	59.7
12:00-13:00	50.0	51.8	55.9	55.4	58.5	56.2
13:00-14:00	47.9	59.4	47.4	52.6	57.2	53.4
14:00-15:00	58.2	60.2	50.6	50.1	55.9	57.2
15:00-16:00	52.4	45.8	57.4	51.3	52.4	62.2
16:00-17:00	44.9	54.7	44.8	58.7	60.5	56.8
17:00-18:00	49.2	56.8	52.3	63.8	57.9	49.2
18:00-19:00	56.9	46.6	49.7	62.7	56.9	52.3
19:00-20:00	53.1	54.4	62.3	61.3	53.8	56.9
20:00-21:00	54.6	56.5	56.2	60.8	50.3	50.6
21:00-22:00	57.8	42.8	47.3	56.4	54.1	59.4

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	03/10/2020 & 04/10/2020	03/11/2020 & 04/11/2020	02/12/2020 & 03/12/2020	02/01/2021 & 03/01/2021	02/02/2021 & 03/02/2021	03/03/2021 & 04/03/2021
22:00-23:00	57.4	57.5	60.4	62.5	51.9	58.4
23:00-00:00	62.1	48.6	58.3	61.9	53.6	52.8
00:00-01:00	42.9	47.2	42.4	60.5	58.0	48.5
01:00-02:00	58.1	51.3	55.3	58.5	52.8	53.5
02:00-03:00	54.4	58.6	58.9	57.5	50.5	52.6
03:00-04:00	48.4	45.3	53.8	56.0	51.8	58.5
04:00-05:00	56.8	58.2	45.7	52.7	48.3	54.4
05:00-06:00	51.4	45.4	50.2	49.7	46.7	57.9

[#]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 - 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 2020 to March 2021

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	05/10/2020	04/11/2020	03/12/2020	04/01/2021	03/02/2021	04/03/2021
6:00-7:00	51.1	47.4	55.8	60.4	61.5	56.5
7:00-8:00	47.2	51.2	61.4	57.6	59.2	60.2
8:00-9:00	51.2	59.6	47.6	55.6	58.4	57.8
9:00-10:00	49.8	49.6	58.4	58.8	57.3	55.7
10:00-11:00	45.9	55.4	60.1	56.2	55.3	51.2
11:00-12:00	57.8	51.9	44.6	54.4	52.9	60.6
12:00-13:00	52.8	53.8	57.3	53.4	61.2	58.6
13:00-14:00	44.9	52.4	58.0	57.3	60.4	52.6
14:00-15:00	55.8	47.6	68.0	60.9	58.7	64.8
15:00-16:00	50.1	49.4	47.5	61.7	54.9	68.7
16:00-17:00	51.0	56.9	59.6	64.4	52.5	56.7
17:00-18:00	53.9	52.1	50.3	60.3	58.0	57.1
18:00-19:00	42.9	59.8	51.4	58.1	50.1	58.3
19:00-20:00	56.3	56.4	46.5	55.8	51.9	59.6
20:00-21:00	55.0	52.7	42.4	53.8	57.8	63.4
21:00-22:00	52.1	58.9	54.1	54.9	59.4	67.1

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	05/10/2020 & 06/10/2020	04/11/2020 & 05/11/2020	03/12/2020 & 04/12/2020	04/01/2021 & 05/01/2021	03/02/2021 & 04/02/2021	04/03/2021 & 05/03/2021
22:00-23:00	51.4	45.8	57.6	51.6	56.7	64.3
23:00-00:00	55.8	59.4	56.5	53.6	55.6	62.5
00:00-01:00	44.9	50.8	59.4	61.8	60.8	53.2
01:00-02:00	49.4	51.8	54.3	57.2	53.7	59.4
02:00-03:00	58.2	53.4	50.8	55.7	56.4	54.7
03:00-04:00	60.1	49.3	52.4	56.9	55.7	55.4
04:00-05:00	57.5	53.9	60.8	50.5	49.4	54.9
05:00-06:00	47.8	49.8	40.8	58.6	59.8	48.6

[#]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 - 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 2020 to March 2021

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	06/10/2020	05/11/2020	04/12/2020	05/01/2021	04/02/2021	05/03/2021
6:00-7:00	57.1	42.9	52.1	57.1	62.1	66.1
7:00-8:00	45.8	55.2	47.7	60.5	57.5	58.9
8:00-9:00	50.8	49.3	61.1	58.3	59.5	56.3
9:00-10:00	44.9	59.1	59.2	57.7	60.2	54.7
10:00-11:00	59.1	53.4	58.7	52.8	58.3	53.1
11:00-12:00	57.1	60.1	49.6	53.0	56.1	52.7
12:00-13:00	46.8	52.9	50.1	58.4	53.5	54.4
13:00-14:00	50.1	49.1	53.4	55.9	66.3	60.8
14:00-15:00	51.2	56.1	47.2	62.4	59.1	65.1
15:00-16:00	58.1	47.9	57.1	60.6	61.1	63.9
16:00-17:00	59.9	57.2	42.9	57.2	57.4	54.1
17:00-18:00	42.8	46.8	48.9	59.1	50.5	58.1
18:00-19:00	50.1	54.9	51.9	65.9	67.3	57.5
19:00-20:00	56.3	57.1	59.9	62.8	50.9	59.8
20:00-21:00	55.0	46.9	49.8	56.1	54.2	57.3
21:00-22:00	59.8	56.7	44.5	52.7	56.2	52.5

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	06/10/2020 & 07/10/2020	05/11/2020 & 06/11/2020	04/12/2020 & 05/12/2020	05/01/2021 & 06/01/2021	04/02/2021 & 05/02/2021	05/03/2021 & 06/03/2021
22:00-23:00	61.1	45.7	48.5	64.4	54.3	62.3
23:00-00:00	57.5	55.3	51.6	62.7	60.5	61.6
00:00-01:00	48.5	42.1	58.8	60.8	58.5	59.6
01:00-02:00	56.4	53.7	47.3	58.7	55.4	56.2
02:00-03:00	65.1	46.2	56.2	61.4	57.8	60.3
03:00-04:00	44.8	50.9	49.3	57.9	60.9	62.6
04:00-05:00	53.4	45.9	54.7	56.5	61.5	54.3
05:00-06:00	50.0	50.4	42.6	52.3	46.5	50.7

[#]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 - 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 2020 to March 2021

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	07/10/2020	06/11/2020	05/12/2020	06/01/2021	05/02/2021	06/03/2021
6:00-7:00	60.2	46.7	51.1	64.8	64.1	64.5
7:00-8:00	48.9	54.6	58.1	58.2	52.8	58.2
8:00-9:00	50.3	44.6	46.9	54.3	63.2	60.3
9:00-10:00	55.4	58.1	58.5	59.2	56.4	58.4
10:00-11:00	59.2	68.1	48.8	60.1	62.8	53.2
11:00-12:00	49.4	50.1	51.0	58.5	60.8	57.4
12:00-13:00	51.0	48.9	47.9	55.3	60.9	59.1
13:00-14:00	57.3	55.6	65.1	53.7	57.1	53.5
14:00-15:00	65.1	43.8	61.2	50.3	61.3	52.8
15:00-16:00	44.9	54.2	47.8	57.4	53.2	60.1
16:00-17:00	48.8	50.0	55.1	54.6	55.8	56.4
17:00-18:00	53.9	52.3	50.0	52.3	66.7	64.4
18:00-19:00	58.1	45.9	44.9	48.9	68.1	63.2
19:00-20:00	64.2	50.4	59.1	47.6	55.2	55.8
20:00-21:00	54.9	51.4	49.9	51.9	60.1	62.6
21:00-22:00	64.2	45.4	42.8	54.8	53.1	63.1

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	07/10/2020 & 08/10/2020	06/11/2020 & 07/11/2020	05/12/2020 & 06/12/2020	06/01/2021 & 07/01/2021	05/02/2021 & 06/02/2021	06/03/2021 & 07/03/2021
22:00-23:00	58.1	58.4	41.8	58.0	60.2	51.3
23:00-00:00	47.4	42.7	54.0	56.7	57.6	59.7
00:00-01:00	56.5	62.7	44.3	60.2	56.3	54.5
01:00-02:00	44.8	57.9	46.5	62.4	52.4	52.7
02:00-03:00	54.9	44.2	57.1	61.5	54.2	55.2
03:00-04:00	48.9	54.7	52.8	54.5	60.6	58.7
04:00-05:00	51.8	44.8	51.7	46.3	66.5	52.9
05:00-06:00	59.1	52.8	50.3	48.3	58.6	54.2

[#]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 2020 to March 2021

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	08/10/2020	07/11/2020	07/12/2020	07/01/2021	06/02/2021	08/03/2021
6:00-7:00	55.1	58.5	59.2	60.2	58.8	49.5
7:00-8:00	61.2	48.7	54.1	61.8	57.6	53.8
8:00-9:00	49.9	51.0	69.1	57.6	55.7	47.6
9:00-10:00	58.4	47.5	46.7	58.4	54.4	53.2
10:00-11:00	60.1	65.1	52.5	62.5	62.8	50.8
11:00-12:00	44.9	61.5	44.6	60.6	53.7	58.8
12:00-13:00	57.1	47.6	58.7	57.5	52.6	55.4
13:00-14:00	58.0	55.8	62.1	58.3	59.9	46.8
14:00-15:00	54.2	50.9	50.5	56.5	56.5	60.5
15:00-16:00	59.1	44.3	48.9	55.9	54.3	54.8
16:00-17:00	50.3	59.8	55.8	59.4	50.8	57.1
17:00-18:00	51.4	49.6	43.7	56.4	52.3	53.5
18:00-19:00	46.9	46.7	54.2	53.2	60.5	52.4
19:00-20:00	42.8	59.6	50.9	50.8	59.5	48.9
20:00-21:00	42.8	49.5	52.9	51.3	58.3	49.4
21:00-22:00	54.1	42.7	45.9	54.1	54.2	50.3

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	08/10/2020 & 09/10/2020	07/11/2020 & 08/11/2020	07/12/2020 & 08/12/2020	07/01/2021 & 08/01/2021	06/02/2021 & 07/02/2021	08/03/2021 & 09/03/2021
22:00-23:00	50.1	47.0	61.7	53.8	57.5	58.6
23:00-00:00	49.8	50.3	57.5	55.6	59.2	56.9
00:00-01:00	57.7	42.3	48.6	59.5	56.8	52.3
01:00-02:00	45.8	52.6	47.2	56.3	54.7	53.7
02:00-03:00	48.9	64.9	51.9	58.9	53.5	50.9
03:00-04:00	59.1	57.1	60.6	60.1	51.6	57.5
04:00-05:00	60.1	64.8	43.4	52.9	50.4	42.6
05:00-06:00	46.8	57.3	51.5	49.9	54.9	46.1

[#]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 -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 2020 to March 2021

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	09/10/2020	09/11/2020	08/12/2020	08/01/2021	08/02/2021	09/03/2021
6:00-7:00	46.5	59.5	46.5	52.1	53.2	64.4
7:00-8:00	54.8	58.1	54.8	60.3	52.5	68.1
8:00-9:00	58.1	49.8	58.1	61.1	59.8	50.2
9:00-10:00	42.9	50.1	42.8	59.9	58.7	59.6
10:00-11:00	55.2	53.4	55.9	58.8	56.4	60.3
11:00-12:00	49.3	47.2	49.3	56.2	55.8	56.4
12:00-13:00	59.1	57.8	59.7	53.8	54.7	53.6
13:00-14:00	53.4	45.9	60.6	52.6	51.3	59.5
14:00-15:00	60.1	48.4	52.6	54.4	58.5	63.2
15:00-16:00	52.8	51.2	49.1	50.9	60.8	60.7
16:00-17:00	49.1	58.3	66.7	49.8	57.5	57.8
17:00-18:00	56.1	49.9	47.9	51.2	53.9	56.1
18:00-19:00	47.9	47.3	57.9	58.6	54.1	55.6
19:00-20:00	57.1	56.7	46.9	52.4	52.7	56.2
20:00-21:00	46.9	52.6	50.4	54.8	51.9	61.9
21:00-22:00	50.4	50.5	57.1	58.9	49.7	64.1

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	09/10/2020 & 10/10/2020	09/11/2020 & 10/11/2020	08/12/2020 & 09/12/2020	08/01/2021 & 09/01/2021	08/02/2021 & 09/02/2021	09/03/2021 & 10/03/2021
22:00-23:00	45.8	56.8	62.9	57.4	58.9	54.8
23:00-00:00	54.8	55.9	48.9	56.6	56.2	53.9
00:00-01:00	51.2	49.6	58.2	55.5	55.9	52.1
01:00-02:00	50.1	45.1	54.4	54.9	52.3	49.9
02:00-03:00	46.9	50.7	59.5	53.7	50.7	50.6
03:00-04:00	49.2	54.9	48.3	48.9	48.7	60.8
04:00-05:00	44.8	50.0	60.5	54.0	46.8	62.4
05:00-06:00	56.9	59.1	41.6	59.8	50.2	61.5

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

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



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Tables - 8 –Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	10/10/2020	10/11/2020	09/12/2020	09/01/2021	09/02/2021	10/03/2021
6:00-7:00	59.2	58.4	56.5	51.5	60.3	62.5
7:00-8:00	54.1	60.9	50.3	57.4	62.4	61.3
8:00-9:00	69.1	51.9	58.5	47.2	61.9	58.7
9:00-10:00	46.7	57.3	47.6	53.6	56.2	57.5
10:00-11:00	52.8	58.0	51.8	51.8	59.7	61.1
11:00-12:00	44.9	59.7	59.8	50.6	62.3	60.4
12:00-13:00	62.1	47.8	49.6	48.5	58.6	58.6
13:00-14:00	50.1	59.4	55.4	54.3	55.9	57.6
14:00-15:00	48.9	50.7	44.8	60.9	54.8	55.7
15:00-16:00	55.6	51.4	53.2	62.6	59.1	54.4
16:00-17:00	43.8	46.8	52.4	58.2	62.1	58.9
17:00-18:00	54.2	53.8	44.4	55.7	60.4	59.8
18:00-19:00	50.0	54.8	49.4	52.7	53.8	60.2
19:00-20:00	52.8	46.9	56.7	50.7	55.4	62.8
20:00-21:00	45.9	44.8	52.7	49.9	56.1	62.3
21:00-22:00	51.5	54.1	59.6	42.8	57.8	59.4

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	10/10/2020 & 11/10/2020	10/11/2020 & 11/11/2020	09/12/2020 & 10/12/2020	09/01/2021 & 10/01/2021	09/02/2021 & 10/02/2021	10/03/2021 & 11/03/2021
22:00-23:00	50.8	48.3	58.4	61.1	61.3	56.8
23:00-00:00	42.8	55.7	51.2	60.6	58.2	58.3
00:00-01:00	52.0	58.9	56.8	57.3	57.9	56.7
01:00-02:00	43.2	56.4	58.6	53.4	56.9	55.6
02:00-03:00	53.4	42.6	46.9	55.0	55.5	59.3
03:00-04:00	44.9	51.6	42.7	54.4	53.3	56.6
04:00-05:00	59.1	44.9	54.6	50.8	58.3	58.2
05:00-06:00	46.8	49.4	53.6	55.4	53.2	53.8

[#]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 -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	12/10/2020	11/11/2020	10/12/2020	11/01/2021	10/02/2021	11/03/2021
6:00-7:00	51.5	59.3	67.1	66.5	64.3	54.1
7:00-8:00	58.1	61.9	49.7	68.7	60.7	58.5
8:00-9:00	46.9	48.8	58.4	69.1	61.2	49.6
9:00-10:00	58.5	55.4	50.1	60.8	58.9	52.8
10:00-11:00	48.8	47.4	58.3	58.7	57.2	54.3
11:00-12:00	51.0	50.3	47.4	57.2	56.3	52.7
12:00-13:00	47.9	57.5	55.6	61.9	58.4	55.1
13:00-14:00	65.1	44.6	50.6	62.1	60.2	59.2
14:00-15:00	61.2	52.3	44.5	56.7	53.5	50.9
15:00-16:00	47.8	42.9	51.2	58.5	52.1	49.8
16:00-17:00	55.1	62.3	59.9	55.6	62.6	60.8
17:00-18:00	55.0	56.2	60.2	53.7	54.6	62.1
18:00-19:00	44.9	47.9	43.8	54.2	60.9	58.1
19:00-20:00	59.1	62.8	54.3	51.9	53.4	56.5
20:00-21:00	49.9	56.4	56.1	47.5	57.9	63.1
21:00-22:00	42.8	53.9	52.3	45.9	62.7	51.9

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	12/10/2020 & 13/10/2020	11/11/2020 & 12/11/2020	10/12/2020 & 11/12/2020	11/01/2021 & 12/01/2021	10/02/2021 & 11/02/2021	11/03/2021 & 12/03/2021
22:00-23:00	69.1	57.4	61.8	58.4	62.8	51.8
23:00-00:00	42.1	58.5	55.9	47.4	55.3	47.6
00:00-01:00	54.4	57.7	57.9	58.2	54.1	59.5
01:00-02:00	43.9	42.5	52.7	42.4	55.8	58.0
02:00-03:00	46.9	60.1	61.1	68.1	51.0	55.9
03:00-04:00	45.8	54.8	54.9	57.1	54.8	49.5
04:00-05:00	42.8	59.8	53.9	48.0	52.0	52.5
05:00-06:00	51.1	54.1	42.9	52.8	55.2	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 - 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 2020 to March 2021

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	13/10/2020	12/11/2020	11/12/2020	12/01/2021	11/02/2021	12/03/2021
6:00-7:00	61.1	59.2	49.5	62.3	63.9	50.7
7:00-8:00	58.2	48.9	58.8	59.8	62.5	57.3
8:00-9:00	54.3	50.4	60.1	58.1	60.6	60.1
9:00-10:00	59.2	53.7	44.9	57.8	57.3	58.4
10:00-11:00	60.1	68.1	53.4	55.2	56.8	59.1
11:00-12:00	48.8	49.4	50.8	60.4	52.4	57.2
12:00-13:00	55.3	57.2	47.1	59.1	50.9	55.3
13:00-14:00	47.4	53.6	54.4	61.3	49.8	50.6
14:00-15:00	50.3	59.1	59.1	60.1	53.1	52.6
15:00-16:00	57.4	70.1	42.9	56.8	58.1	53.4
16:00-17:00	44.9	48.6	56.3	54.9	56.7	57.4
17:00-18:00	42.9	54.4	50.2	52.8	54.9	50.1
18:00-19:00	62.3	52.9	50.0	57.1	57.1	55.2
19:00-20:00	56.2	44.9	52.8	54.6	56.6	49.2
20:00-21:00	47.3	54.0	59.4	53.9	60.1	56.3
21:00-22:00	58.0	46.2	49.8	48.6	57.0	50.4

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	13/10/2020 & 14/10/2020	12/11/2020 & 13/11/2020	11/12/2020 & 12/12/2020	12/01/2021 & 13/01/2021	11/02/2021 & 12/02/2021	12/03/2021 & 13/03/2021
22:00-23:00	57.1	42.8	56.4	54.3	52.5	49.1
23:00-00:00	60.0	48.5	52.3	58.3	50.1	50.8
00:00-01:00	44.9	61.1	59.7	54.1	48.4	55.7
01:00-02:00	45.9	58.1	48.8	55.3	54.5	48.2
02:00-03:00	57.8	53.1	47.5	42.6	52.1	51.1
03:00-04:00	52.4	50.5	53.1	53.1	56.0	54.6
04:00-05:00	56.9	53.8	41.7	45.6	60.7	49.6
05:00-06:00	54.6	50.1	52.6	50.3	62.1	50.2

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

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

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



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Tables -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	14/10/2020	13/11/2020	12/12/2020	13/01/2021	12/02/2021	13/03/2021
6:00-7:00	46.8	50.2	45.8	57.8	56.9	50.7
7:00-8:00	54.2	45.5	58.1	58.4	58.7	56.5
8:00-9:00	55.1	46.4	42.4	56.5	63.9	61.3
9:00-10:00	50.1	50.0	47.6	51.4	62.5	58.2
10:00-11:00	45.9	47.2	52.8	55.8	54.4	57.3
11:00-12:00	46.8	57.9	46.6	53.6	53.2	66.5
12:00-13:00	50.0	58.2	47.5	52.8	52.8	63.5
13:00-14:00	47.9	52.4	51.8	50.9	51.9	65.4
14:00-15:00	57.8	44.5	44.7	58.8	50.7	64.3
15:00-16:00	58.2	49.2	47.2	62.1	54.7	60.3
16:00-17:00	52.4	46.0	53.9	64.4	53.9	58.5
17:00-18:00	44.9	56.8	52.6	60.3	50.4	62.5
18:00-19:00	49.2	53.2	46.5	58.7	56.8	60.7
19:00-20:00	36.9	46.7	42.8	56.6	60.3	57.5
20:00-21:00	53.1	56.9	44.6	54.4	54.1	52.6
21:00-22:00	54.6	53.1	46.3	50.3	59.7	56.3

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	14/10/2020 & 15/10/2020	13/11/2020 & 14/11/2020	12/12/2020 & 13/12/2020	13/01/2021 & 14/01/2021	12/02/2021 & 13/02/2021	13/03/2021 & 14/03/2021
22:00-23:00	45.9	47.5	49.5	45.9	59.3	57.1
23:00-00:00	50.0	41.9	54.6	50.2	57.2	50.2
00:00-01:00	47.6	46.9	55.7	47.6	53.0	47.9
01:00-02:00	51.1	57.2	46.4	51.9	48.2	48.3
02:00-03:00	45.4	54.3	56.9	45.4	53.6	59.6
03:00-04:00	42.8	52.3	55.4	42.3	61.8	57.2
04:00-05:00	53.2	55.7	42.2	53.5	62.8	46.5
05:00-06:00	51.1	50.6	49.6	51.7	53.4	46.2

[#]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 - 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 2020 to March 2021

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	15/10/2020	14/11/2020	14/12/2020	14/01/2021	13/02/2021	15/03/2021
6:00-7:00	60.0	51.8	45.4	55.6	66.5	63.9
7:00-8:00	50.1	54.6	57.6	52.6	68.2	62.4
8:00-9:00	54.8	59.5	51.7	51.3	64.4	60.5
9:00-10:00	51.2	48.4	59.9	47.5	63.2	58.7
10:00-11:00	44.9	56.1	47.4	50.8	61.7	53.8
11:00-12:00	59.1	54.2	51.6	52.4	58.4	52.3
12:00-13:00	46.2	51.9	50.8	51.8	56.7	56.8
13:00-14:00	56.1	47.3	53.6	54.3	55.4	59.5
14:00-15:00	54.2	57.2	52.1	57.4	59.8	61.4
15:00-16:00	51.1	48.5	48.9	56.8	57.9	58.3
16:00-17:00	47.9	49.7	48.4	55.7	56.2	54.7
17:00-18:00	48.9	56.5	59.7	53.8	54.6	53.2
18:00-19:00	45.9	57.4	44.5	54.2	53.7	50.6
19:00-20:00	36.4	44.8	45.5	52.1	51.3	54.3
20:00-21:00	57.8	56.4	59.8	50.4	58.9	50.1
21:00-22:00	48.9	57.6	69.1	48.6	50.8	49.5

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	15/10/2020 & 16/10/2020	14/11/2020 & 15/11/2020	14/12/2020 & 15/12/2020	14/01/2021 & 15/01/2021	13/02/2021 & 14/02/2021	15/03/2021 & 16/03/2021
22:00-23:00	53.2	51.5	56.6	53.2	61.9	62.2
23:00-00:00	46.4	51.4	52.0	46.4	62.6	50.0
00:00-01:00	42.8	42.7	54.5	42.5	43.8	58.4
01:00-02:00	49.4	55.2	43.2	49.6	54.4	60.6
02:00-03:00	55.8	50.4	59.6	54.8	59.0	48.9
03:00-04:00	50.0	54.1	59.3	48.7	57.0	58.5
04:00-05:00	44.9	50.9	57.4	50.7	50.0	45.5
05:00-06:00	56.1	54.8	47.0	56.1	47.6	54.0

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

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

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



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Tables - 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 2020 to March 2021

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	16/10/2020	16/11/2020	15/12/2020	15/01/2021	15/02/2021	16/03/2021
6:00-7:00	57.1	48.7	46.8	69.1	61.8	65.1
7:00-8:00	45.8	59.2	54.8	68.7	59.2	61.9
8:00-9:00	50.8	57.1	55.1	66.5	60.1	56.7
9:00-10:00	44.9	47.9	50.4	64.3	58.3	57.8
10:00-11:00	59.1	46.8	43.7	60.5	56.4	54.9
11:00-12:00	57.1	50.6	46.4	58.6	54.5	59.4
12:00-13:00	47.9	52.6	50.0	55.1	64.8	60.4
13:00-14:00	46.8	58.9	47.9	59.8	60.5	59.1
14:00-15:00	50.1	59.9	58.2	58.5	57.8	53.5
15:00-16:00	51.2	57.5	52.4	57.3	56.3	57.6
16:00-17:00	58.1	47.6	49.8	54.5	58.2	67.1
17:00-18:00	59.9	51.7	46.9	54.1	57.4	59.7
18:00-19:00	42.8	50.9	49.7	51.9	55.8	51.2
19:00-20:00	47.4	47.4	56.9	48.7	52.3	57.2
20:00-21:00	51.2	51.2	52.7	52.3	54.2	61.5
21:00-22:00	50.8	50.8	56.3	55.9	57.6	54.2

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	16/10/2020 & 17/10/2020	16/11/2020 & 17/11/2020	15/12/2020 & 16/12/2020	15/01/2021 & 16/01/2021	15/02/2021 & 16/02/2021	16/03/2021 & 17/03/2021
22:00-23:00	59.3	53.6	54.2	45.2	63.5	64.2
23:00-00:00	47.8	42.9	45.3	47.3	55.0	46.3
00:00-01:00	55.8	49.1	53.7	58.8	57.3	52.2
01:00-02:00	50.1	52.2	48.0	48.6	49.8	63.3
02:00-03:00	52.4	55.5	57.3	53.6	44.9	63.1
03:00-04:00	47.9	54.7	52.1	51.5	48.1	62.6
04:00-05:00	49.2	55.6	49.9	53.9	55.3	57.5
05:00-06:00	50.1	47.8	42.1	43.4	48.3	51.4

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

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

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



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Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	17/10/2020	17/11/2020	16/12/2020	16/01/2021	16/02/2021	17/03/2021
6:00-7:00	59.1	44.3	52.2	56.1	55.9	59.6
7:00-8:00	52.2	45.8	44.3	60.8	53.6	52.5
8:00-9:00	56.4	48.9	50.9	57.9	52.6	60.9
9:00-10:00	44.9	50.7	53.4	56.4	58.1	61.8
10:00-11:00	45.8	52.7	51.9	58.9	51.2	57.9
11:00-12:00	48.9	53.4	54.6	54.8	56.5	60.6
12:00-13:00	50.7	58.1	47.3	53.7	60.7	55.1
13:00-14:00	52.1	49.9	43.2	51.6	52.9	49.2
14:00-15:00	53.4	56.3	59.5	48.4	59.4	58.6
15:00-16:00	58.1	55.0	53.7	43.9	58.6	64.6
16:00-17:00	50.1	52.9	50.2	46.5	62.3	69.1
17:00-18:00	50.2	59.6	52.0	50.7	60.8	53.4
18:00-19:00	56.3	51.5	49.2	47.8	58.5	56.2
19:00-20:00	55.0	52.1	44.8	51.2	53.4	50.4
20:00-21:00	52.1	59.8	51.0	54.9	63.8	58.1
21:00-22:00	59.8	51.6	53.2	50.6	62.9	54.8

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	17/10/2020 & 18/10/2020	17/11/2020 & 18/11/2020	16/12/2020 & 17/12/2020	16/01/2021 & 17/01/2021	16/02/2021 & 17/02/2021	17/03/2021 & 18/03/2021
22:00-23:00	58.1	47.1	50.7	57.0	62.5	54.7
23:00-00:00	56.2	54.5	53.5	45.8	58.4	50.1
00:00-01:00	47.5	48.4	59.2	54.7	53.5	47.1
01:00-02:00	44.9	51.9	45.0	44.8	50.5	64.4
02:00-03:00	56.8	44.4	41.9	54.6	60.2	57.7
03:00-04:00	57.8	42.6	56.3	43.8	49.9	65.6
04:00-05:00	55.1	44.7	48.1	48.9	58.7	66.5
05:00-06:00	50.6	42.5	48.2	44.6	53.7	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 - 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 2020 to March 2021

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	19/10/2020	18/11/2020	17/12/2020	18/01/2021	17/02/2021	18/03/2021
6:00-7:00	45.8	49.6	56.1	47.6	61.1	61.1
7:00-8:00	58.1	45.9	45.9	48.8	54.3	58.4
8:00-9:00	47.5	57.8	50.6	51.1	59.3	57.4
9:00-10:00	51.2	52.8	43.8	53.4	56.1	60.1
10:00-11:00	55.0	44.9	50.1	56.7	50.3	56.4
11:00-12:00	45.8	55.8	54.2	55.4	53.1	64.1
12:00-13:00	44.9	50.1	51.4	50.1	54.8	62.6
13:00-14:00	50.1	51.0	55.2	59.1	49.8	66.7
14:00-15:00	52.2	53.9	53.1	53.1	57.1	63.4
15:00-16:00	62.1	42.6	43.9	50.2	64.1	56.6
16:00-17:00	69.1	60.8	46.7	52.0	48.9	59.2
17:00-18:00	42.9	46.5	56.2	49.2	61.2	44.9
18:00-19:00	54.1	42.7	47.8	48.5	59.1	56.1
19:00-20:00	45.9	59.7	51.2	51.0	64.2	50.3
20:00-21:00	47.8	46.9	59.6	53.2	53.8	54.4
21:00-22:00	50.3	42.8	44.9	58.2	51.0	51.7

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	19/10/2020 & 20/10/2020	18/11/2020 & 19/11/2020	17/12/2020 & 18/12/2020	18/01/2021 & 19/01/2021	17/02/2021 & 18/02/2021	18/03/2021 & 19/03/2021
22:00-23:00	50.6	59.1	58.1	59.3	54.7	53.3
23:00-00:00	47.9	46.8	43.4	47.4	47.9	55.5
00:00-01:00	47.8	48.0	52.9	55.9	48.5	47.4
01:00-02:00	51.4	52.1	49.7	50.9	58.3	53.6
02:00-03:00	48.1	49.8	45.6	52.4	60.5	58.8
03:00-04:00	55.2	40.8	46.8	47.2	63.2	43.6
04:00-05:00	50.4	49.5	59.1	59.7	62.4	46.8
05:00-06:00	54.1	51.8	57.0	50.8	57.5	49.4

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

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

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



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Tables - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of October 2020 to March 2021

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	20/10/2020	19/11/2020	18/12/2020	19/01/2021	18/02/2021	19/03/2021
6:00-7:00	55.6	54.8	42.7	51.8	58.2	59.7
7:00-8:00	45.6	47.7	47.6	47.2	57.2	56.5
8:00-9:00	50.6	50.9	51.8	52.6	52.3	58.4
9:00-10:00	47.8	43.2	54.4	49.8	50.7	57.8
10:00-11:00	55.3	59.7	47.5	52.3	54.9	60.6
11:00-12:00	44.8	53.4	50.9	54.4	55.3	55.5
12:00-13:00	51.1	50.2	43.2	52.8	52.8	48.6
13:00-14:00	46.9	52.7	59.8	50.3	51.6	55.1
14:00-15:00	57.4	49.5	53.1	55.8	60.6	49.7
15:00-16:00	47.8	44.3	50.2	53.8	62.3	58.7
16:00-17:00	50.1	51.7	52.0	51.4	64.4	62.6
17:00-18:00	49.8	53.8	49.2	53.9	63.2	63.5
18:00-19:00	54.2	58.2	44.5	50.6	56.5	56.3
19:00-20:00	42.8	51.0	52.4	57.6	58.7	53.3
20:00-21:00	46.9	53.6	53.7	55.4	53.8	52.7
21:00-22:00	50.4	58.1	58.6	52.4	51.0	50.6

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	20/10/2020 & 21/10/2020	19/11/2020 & 20/11/2020	18/12/2020 & 19/12/2020	19/01/2021 & 20/01/2021	18/02/2021 & 19/02/2021	19/03/2021 & 20/03/2021
22:00-23:00	50.0	56.7	52.6	54.2	58.6	44.3
23:00-00:00	51.1	42.4	40.9	57.8	50.2	60.2
00:00-01:00	48.4	52.4	55.8	59.2	51.4	45.3
01:00-02:00	42.9	47.9	46.7	46.8	57.9	46.4
02:00-03:00	49.1	49.2	47.8	47.0	59.4	60.0
03:00-04:00	52.2	42.2	42.5	42.1	57.6	58.6
04:00-05:00	55.2	49.6	51.3	52.1	58.1	51.0
05:00-06:00	47.8	50.1	44.9	49.5	56.4	44.2

[#]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 - 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 2020 to March 2021

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	21/10/2020	20/11/2020	19/12/2020	20/01/2021	19/02/2021	20/03/2021
6:00-7:00	69.1	45.7	60.1	59.4	68.1	56.8
7:00-8:00	51.5	50.3	50.6	52.2	67.5	64.4
8:00-9:00	47.8	54.3	54.8	55.5	66.5	68.7
9:00-10:00	55.3	51.4	51.4	54.3	64.7	66.5
10:00-11:00	45.8	55.2	48.7	51.9	68.5	62.8
11:00-12:00	51.6	53.1	59.4	48.7	64.3	58.6
12:00-13:00	55.1	43.9	46.2	50.7	60.5	56.4
13:00-14:00	59.2	46.7	56.1	56.8	58.4	51.1
14:00-15:00	53.1	56.2	54.2	57.3	57.6	57.1
15:00-16:00	53.9	47.5	51.1	58.4	55.4	54.7
16:00-17:00	58.1	51.9	47.3	54.1	54.3	51.6
17:00-18:00	48.4	59.1	57.9	56.3	53.2	49.4
18:00-19:00	54.1	44.2	48.8	55.6	51.9	50.1
19:00-20:00	49.2	51.8	45.6	52.1	60.9	58.5
20:00-21:00	54.0	59.8	56.8	58.7	54.1	62.3
21:00-22:00	53.2	44.9	57.6	51.6	53.7	59.5

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	21/10/2020 & 22/10/2020	20/11/2020 & 21/11/2020	19/12/2020 & 20/12/2020	20/01/2021 & 21/01/2021	19/02/2021 & 20/02/2021	20/03/2021 & 22/03/2021
22:00-23:00	45.2	55.1	54.9	51.2	67.2	54.9
23:00-00:00	50.1	44.8	49.8	49.4	66.3	58.6
00:00-01:00	58.8	56.9	49.1	47.1	64.8	49.3
01:00-02:00	41.4	43.8	52.2	55.8	63.9	45.6
02:00-03:00	57.8	48.9	50.1	46.5	62.7	62.5
03:00-04:00	51.1	44.5	55.5	51.8	59.8	52.3
04:00-05:00	53.9	48.7	44.3	44.9	51.7	57.4
05:00-06:00	43.4	44.6	49.2	42.8	57.8	49.8

[#]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 2020 to March 2021

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	22/10/2020	21/11/2020	21/12/2020	21/01/2021	20/02/2021	22/03/2021
6:00-7:00	42.8	55.9	57.1	57.9	56.4	68.1
7:00-8:00	47.6	48.7	45.7	56.5	60.2	66.4
8:00-9:00	51.1	51.6	52.6	53.4	58.3	62.7
9:00-10:00	51.2	55.1	44.6	58.5	57.3	60.5
10:00-11:00	47.8	59.2	59.7	59.8	61.1	57.6
11:00-12:00	50.9	53.3	57.5	57.1	58.5	52.3
12:00-13:00	43.2	58.7	47.9	56.7	56.3	49.5
13:00-14:00	59.1	48.4	46.8	55.0	55.7	56.7
14:00-15:00	53.1	55.7	50.4	53.0	63.5	58.2
15:00-16:00	50.2	47.2	51.9	52.5	61.9	60.8
16:00-17:00	52.0	54.9	58.7	58.1	60.8	64.1
17:00-18:00	49.2	52.6	59.9	59.9	55.8	66.7
18:00-19:00	44.9	53.0	42.6	57.5	53.5	63.2
19:00-20:00	51.0	54.0	47.4	56.2	52.7	55.3
20:00-21:00	53.2	42.6	51.2	54.9	60.7	52.9
21:00-22:00	58.1	53.2	50.3	50.8	54.6	54.5

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	22/10/2020 & 23/10/2020	21/11/2020 & 22/11/2020	21/12/2020 & 22/12/2020	21/01/2021 & 22/01/2021	20/02/2021 & 21/02/2021	22/03/2021 & 23/03/2021
22:00-23:00	54.2	56.5	50.8	50.0	61.5	53.4
23:00-00:00	57.8	41.8	57.8	51.1	58.2	61.1
00:00-01:00	59.1	57.8	45.8	48.4	50.9	59.2
01:00-02:00	46.8	43.9	55.1	42.9	57.4	46.7
02:00-03:00	47.8	53.9	42.3	49.1	56.5	61.2
03:00-04:00	52.1	43.4	58.8	52.2	54.1	47.8
04:00-05:00	49.8	52.8	49.4	55.4	61.2	48.6
05:00-06:00	51.1	43.2	54.4	47.8	56.1	50.4

[#]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 -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 2020 to March 2021

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	23/10/2020	23/11/2020	22/12/2020	22/01/2021	22/02/2021	23/03/2021
6:00-7:00	51.1	47.4	59.1	60.8	59.6	57.5
7:00-8:00	47.2	55.3	52.2	58.9	61.6	58.3
8:00-9:00	51.2	51.1	56.4	54.8	56.8	55.7
9:00-10:00	49.8	46.5	44.9	56.6	55.2	51.2
10:00-11:00	45.9	57.4	43.8	57.4	60.3	54.6
11:00-12:00	57.8	47.3	48.9	59.5	67.6	57.3
12:00-13:00	52.8	50.8	50.7	54.0	66.2	53.5
13:00-14:00	44.9	59.6	55.9	56.1	64.5	58.8
14:00-15:00	50.1	54.2	53.4	52.7	62.7	61.1
15:00-16:00	51.0	49.8	58.4	51.1	61.2	50.9
16:00-17:00	53.9	46.8	50.8	48.5	58.6	57.4
17:00-18:00	42.6	51.3	56.3	53.6	57.8	59.2
18:00-19:00	59.1	46.4	55.0	48.9	56.7	54.3
19:00-20:00	46.9	46.9	52.1	45.8	60.4	52.6
20:00-21:00	42.8	50.4	51.6	44.8	63.1	56.1
21:00-22:00	44.9	46.1	42.9	43.2	62.8	54.4

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	23/10/2020 & 24/10/2020	23/11/2020 & 24/11/2020	22/12/2020 & 23/12/2020	22/01/2021 & 23/01/2021	22/02/2021 & 23/02/2021	23/03/2021 & 24/03/2021
22:00-23:00	51.1	58.8	45.9	50.6	57.1	52.4
23:00-00:00	49.4	49.4	50.0	47.9	56.3	48.8
00:00-01:00	47.1	55.8	47.6	49.8	55.6	53.8
01:00-02:00	55.8	52.0	51.1	51.4	53.2	54.8
02:00-03:00	47.9	44.9	45.4	48.1	51.3	46.9
03:00-04:00	51.3	56.1	42.8	55.2	66.5	50.3
04:00-05:00	44.9	44.3	53.2	50.4	63.7	58.1
05:00-06:00	42.8	56.4	48.4	59.1	59.1	57.6

[#]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 - 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 2020 to March 2021

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	24/10/2020	24/11/2020	23/12/2020	23/01/2021	23/02/2021	24/03/2021
6:00-7:00	42.8	51.2	42.8	53.7	52.1	51.4
7:00-8:00	47.6	54.7	47.8	54.2	57.5	58.1
8:00-9:00	51.1	47.9	51.0	55.7	56.2	50.3
9:00-10:00	54.2	58.8	53.2	50.1	54.4	47.4
10:00-11:00	47.8	52.2	58.1	45.9	59.1	46.7
11:00-12:00	47.8	62.1	40.8	46.8	57.4	55.6
12:00-13:00	50.9	69.1	53.6	50.0	56.9	49.2
13:00-14:00	53.2	54.4	47.2	47.9	53.4	56.2
14:00-15:00	43.2	54.1	48.6	57.8	60.1	60.1
15:00-16:00	59.1	48.8	46.9	58.8	57.9	58.0
16:00-17:00	53.1	47.0	53.8	55.3	55.1	59.1
17:00-18:00	50.2	50.6	52.3	44.9	54.8	56.9
18:00-19:00	52.0	52.4	47.1	49.2	59.2	50.4
19:00-20:00	49.2	47.8	54.3	56.9	55.9	48.9
20:00-21:00	44.8	50.1	45.9	53.1	54.2	54.2
21:00-22:00	50.1	52.3	50.1	54.6	52.6	53.1

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	24/10/2020 & 25/10/2020	24/11/2020 & 25/11/2020	23/12/2020 & 24/12/2020	23/01/2021 & 24/01/2021	23/02/2021 & 24/02/2021	24/03/2021 & 25/03/2021
22:00-23:00	53.2	47.6	51.4	58.1	56.7	55.4
23:00-00:00	46.4	60.6	55.2	56.2	50.3	56.1
00:00-01:00	42.8	45.4	50.4	47.5	53.8	49.5
01:00-02:00	49.4	42.8	54.1	41.9	47.4	58.3
02:00-03:00	55.8	53.2	42.4	46.2	49.2	56.7
03:00-04:00	50.0	51.1	50.6	57.2	58.5	55.8
04:00-05:00	44.9	53.8	54.8	55.1	47.8	51.2
05:00-06:00	56.1	51.6	57.2	51.3	48.7	45.9

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

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


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

Table No.: 3H.1 – DG Sets Stack Emission Monitoring Results for the period: October-20 to March-21

Sr. No.	Parameters	Unit	DG Set # 1 MRSS (SS5)		DG Set # 2 (SS7B)		DG Set # 3 Marine (SS8)		DG Set # 4 Silo (SS11)	
			NOV-20	FEB-21	NOV-20	FEB-21	NOV-20	FEB-21	NOV-20	FEB-21
			28/11/2020	18/02/2021	28/11/2020	18/02/2021	28/11/2020	18/02/2021	28/11/2020	18/02/2021
1	Particulate Matter	mg/Nm ³	24.49	28.64	28.62	24.52	21.56	23.56	32.42	29.42
2	Sulphur Dioxide	ppm	7.53	6.38	6.21	5.62	5.34	4.61	8.39	7.65
3	Oxide of Nitrogen	ppm	36.86	34.51	32.63	29.44	34.52	36.52	38.64	31.76
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	11.65	13.26	8.44	11.04	10.66	12.81	9.48	15.14

Table No.: 3H.2 - DG Sets Noise Level Monitoring Results for the period: October-20 to March-21

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
		NOV-20	FEB-21
		28/11/2020	18/02/2021
1.	DG Set # 1MRSS (SS5)	72.3	72.8
2.	DG Set # 2 SS7B	71.5	70.6
3.	DG Set # 3Marine (SS8)	70.2	69.8
4.	DG Set # 4Silo (SS11)	71.7	71.1



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ANNEXURE- 4

COMPLIANCE STATUS OF EMP AS PER EIA

REPORT

Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., March, 2021

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 APDPPL has installed a truck tyre washing system within the port premises, which washes the tyre of trucks exiting the port area.
	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 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.

S. No.	EMP Conditions	Compliance Status
		<ul style="list-style-type: none"> Monitoring reports are presented in the Annexure 3G.
	Onsite fabrication activities will be undertaken at a designated location, which should be located away from the office buildings and any other working areas.	Complying with. Separate designated fabrication yard has been provided.
	In case noise emissions from the fabrication activities exceed a level of 85 dB(A) at the fence-line of the fabrication yard, temporary noise barrier will be installed.	Complying with. <ul style="list-style-type: none"> There is no occasion till date for exceeding the noise level at the port boundary. Persons working in the fabrication yard are provided with PPEs.
	Portable diesel engine generators and diesel engine driven compressors, if any, will be covered with acoustic enclosures.	Complying with. All noise generating equipment's are provided with acoustic enclosures.
1.3	Sewage Management Plan	
	Sewage generated from the construction site will be treated in existing STP of 27 m ³ capacity.	Complying with. Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture purpose. The monitoring results of the treated wastewater from STP for the period from October, 2020 to March, 2021 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 vermicomposting yard 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, Discarded drum 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	Complying with. All dust control systems are maintained and operating well.

S. No.	EMP Conditions	Compliance Status
	point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	APDPPL has constructed 10 KM long fully mechanized closed conveyor belt with water sprinkling facility for transfer of coal from North Jetty to coal yard and also from coal yard to the rail wagon loading area at a cost of 150 crore. This closed conveyor system reduces the coal dust generation significantly.
	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, 130 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. <p>APPPL has installed wind breaking wall for dust pollution control in the open coal yard. The wind breaker wall is a porous perforated barrier. At the back of the wall, a low-velocity zone is formed. It effectively reduces the average wind speed, thereby prevents dust from moving, and achieves the purpose of dust suppression. The benefits include;</p> <ul style="list-style-type: none"> ➤ Reduction of coal losses in open yard ➤ Saves water for dust suppression ➤ Improves the living conditions of local residents ➤ Improves the working conditions of the on-site staff <p>Wind break walls have been erected around the coal stock pile area at a height of 14 m from the ground level. The length, width and thickness of each galvanized sheet based wind break metal shield are about 2950 mm, 1250 mm and 0.7 mm respectively. The aperture is round shaped and diameter of each aperture is about 3.5 to 4 mm. The aperture occupies 30 - 40% of a wind break sheet. Several wind break metal sheets are connected together, and have been fitted in structural beams to control the wind carryover of the dust from the stock piles. An amount of 58 crore is spent by APDPPL in erecting and marinating the wind breaking wall around the coal yard</p> <p>Wind breaker of the same specification shall be provided in the additional storage area once completed.</p>
	Road sweeping of dust is being undertaken using mobile van thereby preventing settled dust gets	Complying with.

S. No.	EMP Conditions	Compliance Status
	<p>airborne due to movement of vehicles and high wind velocity and the same is recommended</p> <p>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.</p>	<p>Road cleaning both inside and outside the port premises is a continuous activity carried out by below two methods. The road sweeping by both methods is carried out till 3 Km from the port main gate on the main road leading to Dahej by APDPPL.</p> <ul style="list-style-type: none"> • Road cleaning by sweeping machine: APDPPL, have 02 nos. of large capacity road sweeping machine. Truck mounted Industrial Vacuum Cleaning Machines have road cleaning capacity substantially as the storage capacity of the chassis mounted vacuum machine are 04 tone/ hour each which allow rapid collection of spillage, dust and subsequent disposal. <p>Manual Road Cleaning: In addition to the sweeping machine APDPPL has employed labour for continuous cleaning of roads both inside and outside the port area. It is done by two team consisting of 8 members each. All the coal dust collected is sent to the coal yard.</p>
	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.	<p>Complying with.</p> <p>Sprinkling of water is being done on the roads to control the dust.</p>
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	<p>Shall be complied.</p> <p>Mechanization of the south jetty is yet to be done.</p>
	DG sets installed in open area will be provided with acoustic enclosure	<p>Complying with.</p> <p>DG sets installed in open area are provided with acoustic enclosure</p>
	Compressors and Diesel generators and pump house will be installed in separate building provided with noise absorbing materials on the walls	<p>Complying with.</p> <p>Compressor and DG sets & Pump house are installed in separate building and provided with acoustic enclosures.</p>
	Movement of vehicles within the port will be restricted with speed control measures	<p>Complying with.</p> <ul style="list-style-type: none"> • Speed is limited within the port premises. • Proper signage also provided within the premises.
	Using silent exhaustion pipes for major diesel engine vehicles and heavy trucks operated inside the port	<p>Complying with.</p> <p>All major diesel engine vehicles and heavy trucks operated inside the port are with silent exhaust.</p>

S. No.	EMP Conditions	Compliance Status
	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 19.40 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	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 9001:2015, ISO 14001:2015, and ISO 45001:2018, ISO 50001:2018, ISO 28000:2007. 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 4 Ha area is being done. Remaining 19ha area will be developed phase wise, as per the future requirement.
	<ul style="list-style-type: none"> • The drainage water will be channeled through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. 	Complied with. Runoff from the coal storage is being routed through dump pond where all the particles settled down.
2.4	Solid & Hazardous Waste Management 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:	

S. No.	EMP Conditions	Compliance Status
	It is proposed to develop nearly 6 ha. of green cover all along the boundary of the port. Green Buffer Zone is being implemented at Eastern project site along the boundary. Saplings of Casuarina and Pedilanthus are planted along the coal stacking yards and periphery of port area.	Complying with. Three tier Green belt is being developed in an area of 19.40 ha including periphery of the project boundary. The green belt has been developed with plantation of native species and species which helps in creating a barrier for coal dust movement.
	It is proposed to develop further three tier greenbelt to increase efficiency of dust control.	
2.6	Community Development Plan	
	<p>The proposed CSR programs are based on the needs felt and socioeconomic indicators of the study. The proposed CSR programs can be initially implemented in the five villages of the study area that is Lakhigam, Luvara, Jageshwar, Ambetha and Dahej. Based on the outcome of the CSR programs, it can be expanded to the other villages apart from the study area. The proposed CSR Programs can be grouped into the following subheadings.</p> <p>Health Promotions Programs</p> <ul style="list-style-type: none"> ✓ Health Camps and Health Awareness programs on Institutional Births and Immunization programs ✓ Mobile Clinic 	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8 .
	<p>Education Promotion Programs</p> <ul style="list-style-type: none"> ✓ Providing sustenance funds for maintaining School Infrastructure like Drinking water Facilities, Sanitation facilities and providing supplies etc ✓ Providing scholarship programs ✓ Sport Coaching centre 	
	<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:	

S. No.	EMP Conditions		Compliance Status
	S. No.	Village	Programs
	1.	Luvara	Developing proper drainage system in the village.
	2.	Dahej	Providing Safe Drinking water Facilities in the schools
	3.	Dahej	Developing medical facilities in the PHC such as facilities for storage of perishable medicines,
	4.	Jageshwar	Developing Drainage System
	5.	Lakhigam	Developing Drainage System
	6.	Lakhigam Luvara Jageshwar	Developing Solar Street Light and Internal Village Roads
	7.	Ambetha	Developing Drainage System
	8.	Study Area Villages	Mobile Clinic providing medical facilities in the villages of the study area by having periodic visits and health camps.
	9.	Study Area Villages	Developing Safe Drinking facilities at Schools in the study area.
	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		
	<p>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.</p>		<p>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.</p>
	<p>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</p>		

S. No.	EMP Conditions	Compliance Status
	will be undertaken by MoEF recognized and NABL accredited environmental laboratories as part of compliance report preparation and its submission to GPCB, MoEF Regional Office, Vadodara and New Delhi.	
2.9	Cost Estimates for Environmental Management Plan:	
	The estimated total cost of the proposed project is Rs.464.32 Crores. Under the project, about Rs.173.35 Crores is allocated towards pollution control equipment, implementation of environmental pollution control measures and environmental management programs.	<p>Complied.</p> <p>Separate budget is allocated for Environmental Management activities.</p> <ul style="list-style-type: none"> • Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2020-21 was approx. Rs. 365.24 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure – 6. •

ANNEXURE -5

GREEN BELT DEVELOPMENT PLAN

Annexure-5 Green Belt development plan (APDPPL)

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/ Pelttoforum /casurina (3 x3 m)	1000	1500	25	Implemented	2010-11
		0.23	250	Cassia semia/peltoforum/conocarpus (3 x3 m)					
		0.20	450	Coconut spp./ fruit trees / 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		Implemented	2011-12
	Back side lakhibaba temple &Boundry site plantation (phase -1 a)	0.27	600	Casurina Equisitifolia (1.5x 3 m)	0	0	0		
	Total	1.54	3100		1000	1500	25	Implemented	
2	Gcptcl boudry wall site plantation (phase-	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		
	Gcptcl boudry wall site plantation (phase-	0.11	500	eucalyptus/ conocarpus (1.5x 1.5 m)	0	0	0	Implemented	2012-2013
	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		
	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	Implimented	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 /Railaway yard	0.15	255	Conocarpus /Casurina (2x 3 m)	0	0		Implemented	2016-17 2017-18
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x1.5 m)	0	0	2000		
		1.13	5000	Casurina Equisitifolia/conocarpus (1.5x 1.5m)		0			
	Total	2.40	10255.00		0	0			
	Permenant Godown area	0.36	1380	Shrubs and forest tree plantation	1500	2100	100	Implemented	2018-19
	Coal Yard Area	1.14	2861	Conocarpus /Casurina (2x 2 m)	1200	0	0	Implemented	

	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					
	Near ODC Gate	0.02	30	Psidium guajava (Guava) (1.5 x 1.5m)					2020-21
	Workshop area		50	azadirachta indica (1.5 x 1.5m)					
	Workshop area		30	peltophorum pterocarpum (1.5 x 1.5m)					
	Total	1.23	3660						
Trees Total Green Zone Area (Ha)		15.714450	45631.00		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)	19.40945							

ANNEXURE- 6

ENVIRONMENTAL BUDGET & EXPENDITURE LAST

3 YEAR

Annexure – 6: Environment Budget and Expenditure for the FY: 2020-21**A. Opex Environment Expenditure for the last 3 years**

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2018-2019	2019-2020	2020- 2021	2020-2021
1.	EHS Manpower	5.54	6.85	6.85	7.0
2.	Legal & Statutory Expenses	0.34	0.20	7.16	5.0
3.	Environmental Monitoring Services	18.30	20.28	16.52	21.0
4.	Cost for Water Consumption and use dust suppression	55.64	71.69	46.08	104.7
5.	Hazardous Waste Management & Disposal	2.07	2.12	2.72	2.0
6.	Greenbelt Development and Plantation	45.0	40.0	44.00	43.64
7.	O&M of Sewage Treatment Plant	5.30	6.70	6.77	6.70
8.	Environment Day Celebration	0.50	0.50	0.10	0.10
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	1.92	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	10.27	35.95	49.83	56.72
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	73.74	65.62	59.70	79.38
12.	Environmental Study / Audit and Consultancy	11.60	9.18	3.07	5.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	0.00	13.57	6.78	7.0
14.	EHS Display Board	5.00	5.00	5.36	5.0
Total Amount (In Lacs)		235.22	279.58	256.86	345.24

B. Capex Environment Expenditure for the last 3 years

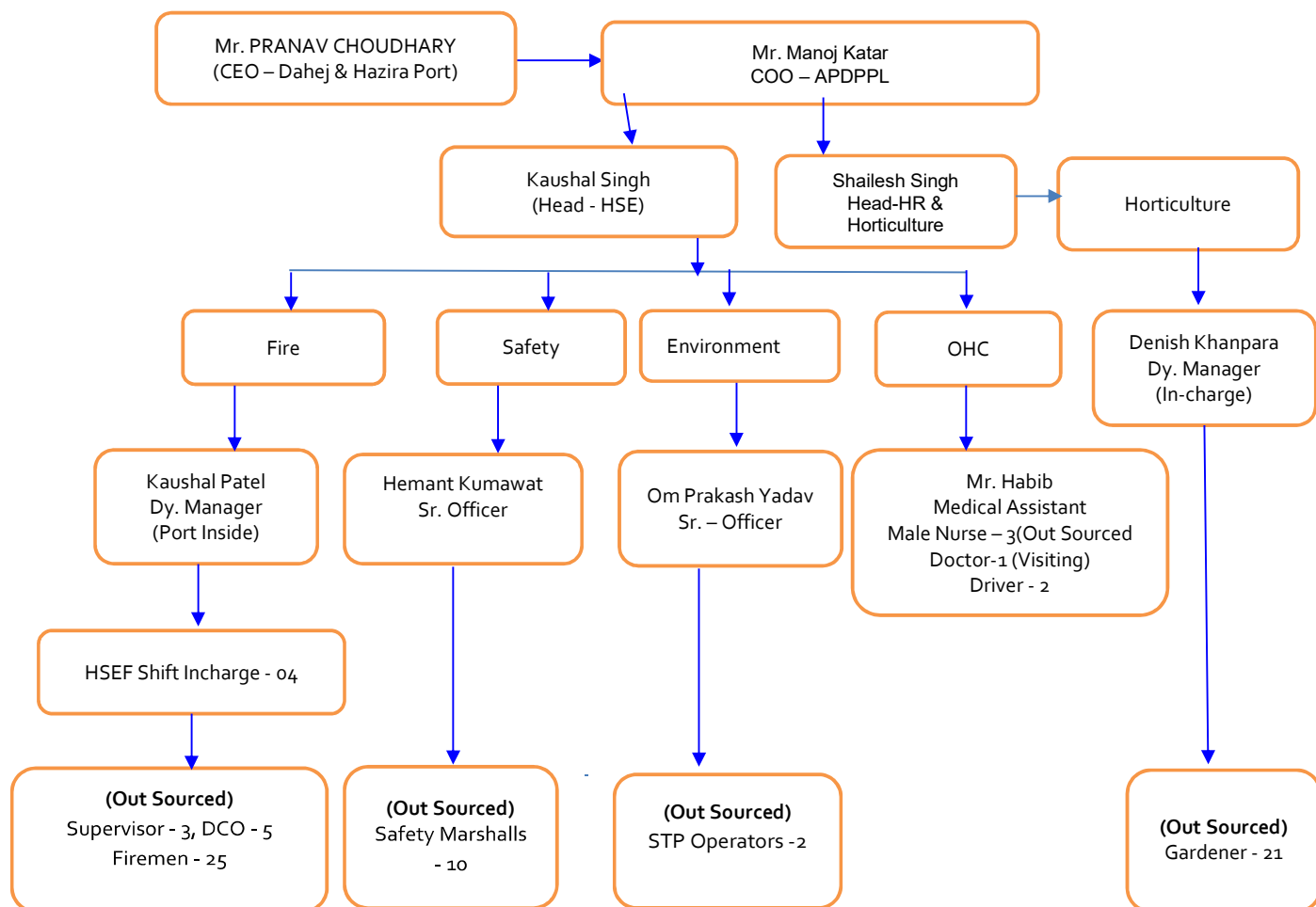
S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)			Budgeted Cost (INR IN Lacs)
		2018-2019	2019-2020	2020- 2021	2020-2021
15	Marine Ecology / Shoreline Monitoring	0.00	10.35	0.00	0.00
16	STP -50KL(Membrane Biological Reactor(MBR) Technology)- Capex	0.00	20.50	0.00	0.00
17	Horticulture Development - CAPEX	22.57	8.00	0.00	0.00
18	Roof top rain water harvesting project	0.00	0.00	0.00	20.00
19	Marine Ecology / Shoreline Monitoring	7.00	0.00	0.00	0.00
Total Amount (In Lacs)		29.75	38.85	0.00	20.00
Total(A+B) Amount (In Lacs)		257.79	314.58	256.86	365.24

ANNEXURE-7
ENVIRONMENT MANAGEMENT CELL

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	14 Years
2.	Denish Khanpara	Dy. Manager (Horticulture)	B.Sc. Horticulture, Post Diploma In Environment Technology (PDIEMT)	14 Years
3.	Kaushal Patel	Dy. Manager (Fire)	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	16 Years
4.	Hemant Kumawat	Sr. Officer (Safety)	Dip – Mech, Dip. In Fire & Safety, NEBOSH	11..5 Years
5.	Om Prakash Yadav	Sr. Officer (Environment)	M.Sc. Environment Science	7.0Years

ANNEXURE- 8
CONSENT TO ESTABLISH (CTE)



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

Consent to Establish (NOC) - Amendment

CTE AMENDMENT NO: 111311

NO: GPCB/BRCH-B/CCA-06(7)/ID-31664/

DT:___/02/2021

TO,

✓ M/S ADANI PETRONET (DAHEJ) PORT PVT LTD,
AT & PO - LAKHIGAM- 392130,
TAL- VAGRA, DISTRICT- BHARUCH.

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

REF: - 1) Previously issued CTE vide letter No: GPCB/BRCH-B/CCA-06(6) ID- 31664/ 326835, dated 08/09/2015 under various Environmental Acts/Rules.
2) Your CTE Amendment application ID no. 183932, dated 04/12/2020.

Sir,

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

And whereas the Board has received your CTE Amendment application ID no. 183932, dated 04/12/2020 for the extension of validity of Consent to Establish (CTE) of this Board under the provisions / rules of the aforesaid Acts. Validity period of the Consent to Establish (CTE) is hereby amended as under subjected to amendment for the following conditions only:

1. The validity period of the order is extended for further three years i.e. up to 07/07/2023.
2. All other conditions of CTE issued vide letter no. GPCB/BRCH-B/CCA-06(6)/ ID- 31664/ 326835, dated 08/09/2015 under the Provisions of the various Environmental Act/ Rules shall remain unchanged.
3. Unit shall comply all condition of EC vide letter F.No.11-37/2007 - IA III dated 14/10/2016.

For and on behalf of
Gujarat Pollution Control Board

(P.B. Patel)

Dy. Environment Engineer

COPY TO:-

- 1) The Regional Officer, Gujarat Pollution Control Board, Bharuch. For information and submission of monitoring reports.
- 2) Unit: Bharuch. (for Respective File)

Clean Gujarat Green Gujarat

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation