



Ports and
Logistics

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

Date: 27/11/2021

To
Inspector general of Forest/Scientist C
Integrated Regional office
Ministry of Environment Forest and Climate Change
Aranya Bhavan, A Wing, Room Number 409,
Near CH-3 Circle Sector 10A
Gandhinagar – 382007
Gujarat

Dear Sir,

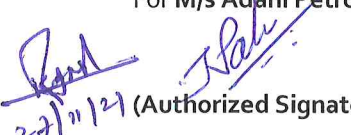
Subject: - Six Monthly Compliance Report of Environment and CRZ Clearance for the period from **April, 2021 to September, 2021**

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

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters.

Thanking you,

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


27/11/21 (Authorized Signatory)

Copy to:

1. Add. Secretary, Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462016 (Madhya Pradesh)
2. The Director (Monitoring-IA Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
3. The Director, Forest and Environment Department, Block-14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat-382 010.
4. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390 023.
5. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector-10A, Gandhinagar-382010 (Gujarat).
6. The Regional Officer, Gujarat Pollution Control Board, Bharuch (Gujarat)

Adani Petronet (Dahej) Port Pvt Ltd
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Taluka Vagra, Via Dahej
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ADANI PETRONET (DAHEJ) PORT PVT. LTD

**From: April, 2021
To : Sept. 2021**

**SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT & CRZ
CLEARANCE PHASE –I & II**

FOR

**DEVELOPMENT OF SOLID CARGO PORT TERMINAL AT
DAHEJ, DISTRICT: BHARUCH, GUJARAT**

(FOR THE PERIOD: April, 2021 to September, 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-I and Phase-II issue by MOEF&CC, New Delhi vide letters dated 6 th July, 2007 and 11 th November, 2008 bearing F. No.: 11-37/2007-IA-III. M/s. Adani Petronet (Dahej) Port Pvt. Ltd.
2.	CRZ Clearance / Recommendation issued by Department of Environment & Forest, GoG vide letter dated 16 th May, 2007 bearing No.: ENV-102006-71-P for Phase-I and letter dated 29 th September, 2008 bearing No.: ENV-10-2007-2126-E for Phase-II. M/s. Adani Petronet (Dahej) Port Pvt. Ltd.

List of Annexure

- Annexure 1** : Forest Compliance
- Annexure 2** : Details of Fixed Mobile Fire Fighting System
- 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 2021-22
- Annexure 7** : Environment Management Cell
- Annexure 8** : CSR Report form April, 2021 to September, 2021

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

Sr. No.	Specific Conditions	Compliance																					
P2(i)	All the conditions stipulated by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJo6o/2006-BHO/1508, dtd., 16.6.2008 shall be strictly adhered to	Complied. All the conditions mention by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJo6o/2006-BHO/1508, dtd., 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annexure – 1.																					
P2(ii)	All the conditions stipulated by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 dated 16.6.2008 shall be strictly adhered to	Complied. All the conditions mention by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as Annexure – 1.																					
P2(iii)	No reclamation will be carried out for the activity	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.																					
P2(iv)	All the conditions stipulated by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 under the Forest Conservation Act shall complied.	Complied. All the condition mentioned by the Gujarat Coastal Zone Management Authority including Ministry of Environment and Forests clearance dated 16.6.2008 have been complied with. Copy of the compliance status enclosed as Appendix – 1.																					
P2(v), P1(i)	Sewage Treatment Plant should be included in the project	Complied. Sewage generated from port is being treated in designated STP of 80KL/Day capacity. <table><tr><td>Capacity</td><td>Quantity of Wastewater (Avg. from April, 2021 to September, 2021)</td><td>Type of STP</td></tr><tr><td>80KLD</td><td>18.75KLD</td><td>MBR</td></tr></table> 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 from April 2021 to September, 2021 as mentioned below. <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>7.01</td><td>7.78</td><td>6.5- 8.5</td></tr><tr><td>TSS</td><td>mg/L</td><td>15</td><td>28</td><td>30</td></tr></table>	Capacity	Quantity of Wastewater (Avg. from April, 2021 to September, 2021)	Type of STP	80KLD	18.75KLD	MBR	Parameters	Unit	Min	Max	Perm. Limit	PH	-	7.01	7.78	6.5- 8.5	TSS	mg/L	15	28	30
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**Half yearly Compliance report for Environment and CRZ Clearance for the development of
Solid Cargo Port Terminal Phase – I and Phase – II.**

Sr. No.	Specific Conditions	Compliance					
		BOD(3 Days @ 27 °C	mg/L	9.7	16	20	
		Residual Free Chlorine	mg/L	0.6	0.8	0.5(Min)	
		Oil & Grease	mg/L	3.1	5.8	-	
P2(vi), P1(ii)	Afforestation in 200 ha. with mangroves should be undertaken under the project, as identified by the Gujarat Forest Department	Complied. Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both). Details are given below. <ol style="list-style-type: none"> 100 ha near village Dandi, District Surat– 2011 50 ha near village Jakhau, District Kutch – 2011 50 ha near Padri bit, District Bhavnagar – 2011 200 ha near Malpur, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as compliance to Phase –III EC &CRZ clearance) Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha Mangrove afforestation (2017-18) was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.					
P2(vii)	Afforestation @1:3 shall be carried out in case of any trees to be cut.	Complied. <ul style="list-style-type: none"> Afforestation on 38 ha. Land has been completed with the help of forest department during 2012-14. Land has been declared as reserve forest vide notification dated 23/12/2008. Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017. 					
P2(viii), P1(iii)	The recommendations of the Risk Assessment Report should be incorporated	Complied. Risk Assessment Report was submitted along with compliance report dated 20/02/2008. The recommendation of risk assessment are incorporated and being followed during					

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

Sr. No.	Specific Conditions	Compliance																												
		construction and operation phases.																												
P2(ix), P1(v)	The materials for the filling and pavement construction should be made available from approved quarries.	Complied. Construction of the project (Phase I & II) was completed in February 2011.																												
P2(x), P1(vi)	Sufficient fixed and mobile firefighting system should be provided exclusively for the terminal in consultation with the local statutory bodies.	Complied. Adequate fixed and mobile firefighting systems are provided. Details firefighting systems available with APDPPL 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. Details of the same are enclosed as Annexure – 2 .																												
P2(xi), P1(x)	All development in the port should be carried out in accordance with the Coastal Regulation Zone Notification, 1991 and approved Coastal Zone Management Plan of Gujarat.	Complied. Construction of Phase I & II has been completed in February 2011 and same was carried out in accordance with CRZ Notification 1991.																												
P2(xii), P1(xi)	There shall be no withdrawal of ground water in CRZ area for this project. The proponent should ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Peizometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Summary of Piezometers analysis results during compliance period from April, 2021 to September, 2021 is mentioned below. <table><tr><th>Test Parameter</th><th>Unit</th><th>Min</th><th>Max</th></tr><tr><td>Temperature</td><td>°C</td><td>30.9</td><td>30</td></tr><tr><td>pH</td><td>--</td><td>8.59</td><td>8.09</td></tr><tr><td>Total Dissolved Solids</td><td>mg/L</td><td>2017</td><td>803</td></tr><tr><td>Salinity</td><td>ppt</td><td>0.36</td><td>0.148</td></tr><tr><td>Chloride as Cl</td><td>mg/L</td><td>199</td><td>81.97</td></tr><tr><td>Depth of Water Level from Ground Level</td><td>meter</td><td>2</td><td>1</td></tr></table>	Test Parameter	Unit	Min	Max	Temperature	°C	30.9	30	pH	--	8.59	8.09	Total Dissolved Solids	mg/L	2017	803	Salinity	ppt	0.36	0.148	Chloride as Cl	mg/L	199	81.97	Depth of Water Level from Ground Level	meter	2	1
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**Half yearly Compliance report for Environment and CRZ Clearance for the development of
Solid Cargo Port Terminal Phase – I and Phase – II.**

Sr. No.	Specific Conditions	Compliance
		Copies of monitoring reports are enclosed as Annexure 3B .
P2(xiii), P1(xii)	The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Complied. Project is commissioned after obtaining permission from PWD/GIDC and Electricity Department. 1. GIDC permission dated 19.02.2013 for water supply 2. Electricity Department approval dated 18.02.2011
P2(xiv), P1(xiii)	Specific arrangements for rain water harvesting shall be made in the project design and the rain water so harvested shall be optimally utilized. Details in this regard shall be furnished to this Ministry's Regional Office at Bhopal within 3 months	Complied. The feasibility study for rain water harvesting was conducted. Based on the report it may be concluded that rain water harvesting is not advisable as the area is next to the coast. Report was submitted along with the half-yearly compliance report dated 22.05.2015. Ministry of Water Resources (May, 2000) it is mentioned that "The upper 3 m of the unsaturated zone is not considered for recharging, since it may cause adverse environmental impact e.g. water logging, soil salinity, etc. The post monsoon depth to water level represents a situation of minimum thickness of vadose zone available for recharge which can be considered vis-a-vis surplus monsoon run off in the area." Point no. I of Sub Para D of para VI on Page 7/11 of CGWA Guideline issued by Central Ground Water Authority (CGWA) for Criteria for evaluation of proposals/requests for GW abstraction (wef. 15/11/2012) it is mentioned that "(i). Mandatory clause on RWH may be relaxed in case of water logged/shallow water level (< 5 m bgl during pre-monsoon) areas." As per point no. VIII of para 2.1.2. of Guidelines for issuance of No Objection Certificate (NOC) for ground water withdrawal issued by Central Ground Water Authority Ministry of Water Resources, RD & GR Government of India; Point no. VI of Para 2.7, it is mention on page no 13. That "VI. Mandatory clause on rain water harvesting may be relaxed in case of water logged/shallow water level (< 5 m bgl during post monsoon or as per state policy) areas."

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

Sr. No.	Specific Conditions	Compliance
		As mentioned above it is not permissible/advisable to develop ground water recharge structure in case ground water level is less than 5 meter.
P2(xv), P1(xv)	No land reclamation should be carried out for this project.	Complied. Project (Phase I & II) has been developed within existing land without any reclamation.
P2(xvi), P1(xvi)	Green buffer zone should be provided all around the project area in consultation with local forest department and report submitted to this Ministry's Regional Office at Bhopal.	Being Complied Considering the expansion plan, green belt is being developed on periphery of the project boundary. So far 22.68 ha of Green belt is developed which mainly includes <i>casuarina</i> , <i>wasigtonia palm</i> , <i>cassia samiea</i> , <i>peltoforum</i> , <i>delonix regia</i> , <i>figus sps</i> . Details of green belt area are enclosed as Annexure – 5 .
P2(xvii), P1(xiv)	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	Complied. Construction of the project (Phase I & II) was completed in February 2011 and same is in conformity with the provisions of the CRZ Notification 1991.
P2(xviii), P1(xvii)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 should be stored in the Coastal Regulation Zone area.	Complied. APDPPL is handling dry cargo mainly coal and other bulk cargos or project cargo at designated storage areas in compliance to the CRZ Notification 1991 and 2011 and as per approval received.
P1(iv)	Location of general cargo berth should be taken in to considerations with regard to location of LNG terminal	Complied. General cargo berth (Solid Cargo Port Terminal jetty) is approx. 500 m away from the LNG jetty of Petronet LNG Ltd.
P1(vii)	The wave tranquility study and the ship maneuvering studies carried out should be taken in to account while operating the Port.	Complied. Ship mooring study and wave tranquility studies were carried out to understand the wind wave and swell wave conditions. The recommendations are being regularly followed during port operations.
P1(viii)	The project proponent should ensure that during construction and operation of the port there will be no impact on the livelihood of the fisherman. The fisherman should be provided free access to carry out the fishing activity.	Complied. There is no commercial fishing in the area. Free access to the "Pagadiya" fishermen is available. They are continuing with their activities without any impact from project.
P1(ix)	All necessary precaution while undertaking construction and operation of the port should be taken keeping in view the bathymetric changes caused due to cyclones.	Complied. Construction (Phase I & II) activities are completed in February, 2011. APDPPL has a well-defined DMP (covering natural disasters including cyclones) and regular mock drills are being conducted. DMP is

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

Sr. No.	Specific Conditions	Compliance
		also reviewed at regular interval. Mock drill is being conducted as per plan. Last Mock drill was conducted on 29.10.2021. 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.
General Conditions		
P2(i), P1(i)	Construction of proposed structures shall be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned state Government Departments/Agencies.	Complied. <ul style="list-style-type: none"> All the development activities are being taken up in accordance with the CRZ notification, 1991 & its subsequent amendments. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87.
P2(ii), P1(ii)	Adequate provision for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surrounding.	Complied. Construction of the project (Phase I & II) was completed on February 2011. During construction all facilities such as water supply, fuel, sanitation etc. was provided.
P2(iii), P1(iii)	The project authorities must make necessary arrangements for disposal of solid waste and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forest under the Environmental (Protection) Act, 1986, whichever are more stringent.	Complied. <ul style="list-style-type: none"> The Project (Phase I & II) activities are not generating any trade effluent. Only domestic effluent is being generated which was treated in the STP outside CRZ area and used for horticulture within the premises. Details regarding STP are given in point number- V (Refer above point) Noise monitoring (Once in a month) is carried out by NABL accredited and MoEF&CC approved agency namely M/s Pollucon Laboratories Pvt. Ltd. The noise level confirm to the standard laid down by Gujarat Pollution Control Board. The noise monitoring results during compliance period from April, 2021 to September, 2021 as

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

Sr. No.	Specific Conditions	Compliance				
		mentioned below table.				
		Location	Unit	Max	Min	Limit
		Behind QHSE Office	Day Time dB(A)	72.7	44.9	75
			Night Time dB(A)	61.3	36.6	70
		PMC Office Back Side	Day Time dB(A)	73.4	44.8	75
			Night Time dB(A)	68.1	38.6	70
		Sub Station - 6 Back Side	Day Time dB(A)	73.2	44.9	75
			Night Time dB(A)	66.4	36.1	70
		Sub Station - 8 (Marine Building)	Day Time dB(A)	73.3	45.1	75
			Night Time dB(A)	69.8	35.2	70
		Near Sub Station - 7B	Day Time dB(A)	71.5	44.4	75
			Night Time dB(A)	64.4	39.3	70
		JS – 1 (Nr. Lakhigam)	Day Time dB(A)	73.2	44.8	75
			Night Time dB(A)	68.3	36.4	70
		Behind S.S. - 11 (Silo)	Day Time dB(A)	73.1	41.9	75
			Night Time dB(A)	65.5	39.6	70
		Cylo Loading Point	Day Time dB(A)	72.2	44.8	75
			Night Time dB(A)	68.2	41	70
		GCPTL Gate	Day Time dB(A)	71.3	44.8	75
			Night Time dB(A)	67.2	40.5	70
		Lakhi Village (Primary)	Day Time dB(A)	72	42.6	75
			Night Time	65.3	40.1	70

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

Sr. No.	Specific Conditions	Compliance				
		School)	dB(A)			
		ERMS Workshop	Day Time dB(A)	71.3	45.9	75
			Night Time dB(A)	67.1	39.6	70
		Behind Pump House	Day Time dB(A)	73.1	43.3	75
			Night Time dB(A)	68.1	37.2	70
		Rock bond Approach (Jetty)	Day Time dB(A)	73.2	45.9	75
			Night Time dB(A)	66.4	42.2	70
		New Gate	Day Time dB(A)	72.8	44.9	75
			Night Time dB(A)	69.9	38.3	70
		Security Barrier Gate	Day Time dB(A)	70.3	44.8	75
			Night Time dB(A)	65.5	36.2	70
		JS – 2	Day Time dB(A)	70.3	45.6	75
			Night Time dB(A)	61.4	35.5	70
		Railway Dead End	Day Time dB(A)	73.2	44.8	75
			Night Time dB(A)	67.3	35.3	70
		Open Storage Yard -1	Day Time dB(A)	73.3	40.1	75
			Night Time dB(A)	67.2	34.2	70
		Loco shed	Day Time dB(A)	73.5	45.9	75
			Night Time dB(A)	61.5	35.6	70
		Lakhi Village (below	Day Time dB(A)	72.2	42.9	75
			Night Time	68.1	30.8	70

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

Sr. No.	Specific Conditions	Compliance																													
		conveyer belt)	dB(A)																												
		Copy of Noise level monitoring are enclosed as Annexure – 3G.																													
P2(iv), P1(iv)	The proponent shall obtain the requisite consents for discharge of effluents and emission under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.	Complied. APDPPL has obtained renewal of CC&A under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Gujarat State Pollution Control Board vide No. AWH 109820 dated: 19.10.2020 which is valid up to 16.07.2025. Copy of the same was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 25.11.2020.																													
P2(v), P1(v)	The proponent shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The record of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.	Complied. <ul style="list-style-type: none">Domestic effluent is being treated in STPs. Details regarding the same are given above in point number V (Refer above)The monitoring results of the treated wastewater from STP for the period from April, 2021 to September, 2021 are enclosed as Annexure – 3F.Reports are available at site for the inspection and APDPPL regularly submits report to GPCB.																													
P2(vi), P1(vi)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	Complied. Ambient Air quality monitoring (twice in a week) and Noise level (once in a month) monitoring are being carried out by M/s Pollucon Laboratories, a NABL accredited and MoEF & CC recognised laboratory. Summary of environment monitoring during compliance period from April, 2021 to September, 2021 as mentioned below. <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit</th></tr><tr><td>PM¹⁰</td><td>µg/m3</td><td>94.53</td><td>32.56</td><td>100</td></tr><tr><td>PM^{2.5}</td><td>µg/m3</td><td>55.33</td><td>12.54</td><td>60</td></tr><tr><td>SO₂</td><td>µg/m3</td><td>26.31</td><td>6.31</td><td>80</td></tr><tr><td>NO₂</td><td>µg/m3</td><td>43.55</td><td>13.53</td><td>80</td></tr></table> <ul style="list-style-type: none">The monitoring results for the period from April, 2021 to September, 2021 are enclosed as Annexure – 3A to 3H.					Parameter	Unit	Max	Min	Perm. Limit	PM ¹⁰	µg/m3	94.53	32.56	100	PM ^{2.5}	µg/m3	55.33	12.54	60	SO ₂	µg/m3	26.31	6.31	80	NO ₂	µg/m3	43.55	13.53	80
Parameter	Unit	Max	Min	Perm. Limit																											
PM ¹⁰	µg/m3	94.53	32.56	100																											
PM ^{2.5}	µg/m3	55.33	12.54	60																											
SO ₂	µg/m3	26.31	6.31	80																											
NO ₂	µg/m3	43.55	13.53	80																											

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

Sr. No.	Specific Conditions	Compliance
P2(vii), P1(vii)	The sand dunes and mangroves, if any on the site should not be disturbed in any way.	Complied. <ul style="list-style-type: none"> There are no sand dunes in project area. Free flow to the mangroves near the jetty approach is maintained.
P2(viii), P1(viii)	A copy of the clearance letter will be marked to the concern Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	Complied. Copy of the letter submitted to local panchayat was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I&II) dated 28.11.2017.
P2(ix), P1(ix)	The Gujarat State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to the project proponent.
P2(x), P1(x)	The fund earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.	Complied. Separate budget is allocated for Environmental Management. Key components of environment budget are environmental Monitoring, STP's (Operations and Maintenance), and Closed Conveyor System Maintenance etc. The allocation of revenue budget for Environment Cell for the FY 2021-22 was approx. Rs. 374.6 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6 .
P2(xi), P1(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Complying with. <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports etc. Whenever any authorities from MoEF&CC, GPCB and GMB etc. visit APDPPL, full support is extended and APDPPL provides all additional information seek by them during the inspection. No officer of MoEF&CC, regional office Bhopal and CPCB visited the port during the compliance period. Latest visit of Gujarat Pollution Control Board was on 06.09.2021.
P2(xii), P1(xii)	In case of deviation or alteration in the project including the implementing agency, a	Noted and complied with. There is no change in the Phase I & II development.

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

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



ADANI PETRONET (DAHEJ) PORT PVT. LTD

**From: April, 2021
To : Sept. 2021**

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

Sr. No.	Specific Conditions	Compliance
	within a period of 30 days as prescribed under Section 11 of the National Appellate Act, 1997	

Appendix - 1

**Compliance to the conditions stipulated in CRZ
clearance/ recommendation for proposed cargo
port terminal phase I, II**

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

Sr. no.	Conditions	Status/Action taken																																			
P2(1), P1(1)	The provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by the APPL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the APPL.	Complied. All the activities carried out are complying with the provisions of the CRZ notification and subsequent amendments.																																			
P2(2), P1(2)	All necessary permissions from different Government Departments / agencies shall be obtained by the APPL before commencing the expansion activities.	Complied. <ul style="list-style-type: none">All the necessary permissions have been obtained by M/s. APDPPL.NOC obtained form Gujarat Maritime Board vide letter No. GMB/N/PVT/264(10)1/1858-10215 Dated 27.06.2006Environment Clearance for phase I & Phase II obtained vide letters dated 6th July, 2007 & 11th November 2008 and bearing F. No. 11-37/2007-IA-III respectivelyConsent 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><th>S. No</th><th>Permission</th><th>Project</th><th>Ref. No./Order No.</th><th>Valid till</th></tr><tr><td>1</td><td>CTE</td><td>APDPP L</td><td>GPCB/BRCH/ NOC/2528/80108</td><td>30/03/2011</td></tr><tr><td>2</td><td>CCA</td><td>APDPP L</td><td>AWH-40224</td><td>04/07/2011</td></tr><tr><td>3</td><td>CCA (Amendment)</td><td>APDPP L</td><td>GPCB/BRCH-B-CCA-06/(2)ID-31664/12315</td><td>04/07/2015</td></tr><tr><td>4</td><td>CCA Renewal</td><td>APDPP L</td><td>AWH-73359</td><td>16/07/2020</td></tr><tr><td>5</td><td>CTE</td><td>APDPP L Phase-III</td><td>CTE Amendments-71696</td><td>07/07/2020</td></tr><tr><td>6</td><td>CTE (Amendment)</td><td>APDPP L-III</td><td>CTE Amendments-</td><td>07/07/2020</td></tr></table>	S. No	Permission	Project	Ref. No./Order No.	Valid till	1	CTE	APDPP L	GPCB/BRCH/ NOC/2528/80108	30/03/2011	2	CCA	APDPP L	AWH-40224	04/07/2011	3	CCA (Amendment)	APDPP L	GPCB/BRCH-B-CCA-06/(2)ID-31664/12315	04/07/2015	4	CCA Renewal	APDPP L	AWH-73359	16/07/2020	5	CTE	APDPP L Phase-III	CTE Amendments-71696	07/07/2020	6	CTE (Amendment)	APDPP L-III	CTE Amendments-	07/07/2020
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Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II

Sr. no.	Conditions	Status/Action taken				
			t)		71696	
		7	CCA Amendmen t	APDPP L	GPCB/BRCH- BCCA-o6(3)ID- 31664	16/07/202 0
		8	CCA Amendmen t	APDPP L	GPCB/BRCH- BCCA-o6(3)ID- 31664	16/07/202 0
		9	CCA Amendmen t	APDPP L	GPCB/BRCH- BCCA-o6(3)ID- 31664	16/07/202 0
		10	CCA Amendmen t	APDPP L	GPCB/BRCH- BCCA-o6(3)ID- 31664/566292	16/07/202 0
		11	CCA Renewal	APDPP L	GPCB/BRCH- B/CCA-o6(7)ID- 31664/571845(AW H-109820)	16.07.202 5
		12	CTE Validity extension	APDPP L-III	CTE Amendment No. 111311	07/07/202 3
P2(3), P1(5)	The APPL shall carry out the construction activities either in the CRZ area or into the sea / estuary only after having the detailed study with respect to chances of erosion / accretion due to the proposed activities conducted through the NIO and vetted through the CWPRS and shall implement all necessary steps / actions as may be suggested by these institutes for mitigating the potential negative impacts including the checking of erosion and/or accretion in	Complied. <ul style="list-style-type: none"> Construction (Phase I & II) of the port was completed in February 2011. The approval for the project has been obtained from concern government department that is GMB as per their NOC date 23/02/2006. Necessary approval has been obtained from GIDC for the setting of the project vide letter ref no. GIDC/DM/CG/ANK/87. 				

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

Sr. no.	Conditions	Status/Action taken
	the region. Further, the company shall have to have the construction drawings approved for this purpose through a competent agency before undertaking any construction and/or enabling activities at the site	
P2(4), P1(7)	The APPL shall have to face the consequences whatsoever due to implementation of the Kalpsar Project proposed by the Government of Gujarat and shall have to take all necessary actions as may be desired by the Government, from time to time.	Noted and agreed to comply.
P2(5), P1(10)	No dredging and/or reclamation activity shall be carried out in the CRZ area categorized as CRZ I (i) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas are not affected due to any of the project activities.	Complied. <ul style="list-style-type: none"> No dredging/reclamation have been done in CRZ I (i). There is no wildlife sanctuary, national park in the vicinity of the project.
P2(6), P1(11)	No effluent or sewage shall be discharged into the	Complied. <ul style="list-style-type: none"> Domestic effluent is being treated in STPs. The treated water confirming to the norms is being used for horticulture

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

Sr. no.	Conditions	Status/Action taken
	sea / creek or in the CRZ area and shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused / recycled within the plant premises to the extent possible.	<p>purpose. The monitoring results of the treated wastewater from STP for the period from April, 2021 to September, 2021 are enclosed as Annexure – 3F.</p> <ul style="list-style-type: none"> • Reports are available at site for the inspection and APDPPL regularly submits report to GPCB.
P2(7), P1(12)	All the recommendations and suggestions given by the NIO in the Comprehensive Environment Impact Assessment report for conservation / protection and betterment of environment shall be implemented strictly by the APPL.	<p>Being Complied.</p> <p>A Separate EIA has been prepared for phase III development, which includes EMP for the current scenario. All the recommendations and suggestions given by M/s Cholamandalam in the EMP are being complied. Copy of the status of EMP recommendations is enclosed as Annexure 4.</p>
P2(8), P1(13)	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves and other coastal/marine habitat. The construction activities shall be carried out only under the constant supervision of the NIO.	<p>Complied.</p> <ul style="list-style-type: none"> • Construction (Phase I & II) of the project was completed on February 2011. • Free flow to the mangroves near the jetty approach is maintained.
P2(9), P1(14)	The APPL shall strictly ensure that no creeks are blocked due to any activity at port and the	<p>Complied.</p> <ul style="list-style-type: none"> • No creeks are blocked due to port activity. • Free flow to the mangroves near the jetty approach is maintained.

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

Sr. no.	Conditions	Status/Action taken
	mangroves habitat are neither disturbed nor destroyed due to any activity.	
P2(10), P1(15)	The APPL shall participate financially for any common facility that may be established or any common study that may be carried out for the Gulf of Khambhat region for environmental protection and/or management purpose.	Noted and agreed to comply. APDPPL is committed for participate financially for any common facility being established or any common study carried out in Gulf of Khambhat region for the environment protection and management purpose.
P2(11), P1(16)	The construction debris and/or any other type of waste shall not be disposed into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after the construction is over.	Complied. Construction of the project was completed on February 2011.
P2(12), P1(17)	The construction camps shall be located outside the CRZ area and the construction labour shall be provided the necessary amenities, including sanitation, water supply and fuel and it shall be ensure that the environmental conditions are not deteriorated by the construction labours.	Complied. <ul style="list-style-type: none"> Construction of the project was completed on February 2011. No labour camps were located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.

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

Sr. no.	Conditions	Status/Action taken
P2(13), P1(18)	The APPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency plan and shall submit the same to this Department after having it vetted through the India Coast Guard.	Complied <ul style="list-style-type: none"> Oil Spill Contingency Plan is submitted to Coast Guard, Gandhinagar for verification vide letter dated. 10/10/2012. Oil Spill Contingency plan is prepared and resubmitted 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 are being conducted. Mock drill is being conducted as per plan. Last Mock drill was conducted on 29.10.2021. 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.
P2(14),P1(19)	The APPL shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of proposed activities and the environmental impacts of the proposed activities.	Noted and agreed to comply.
P2 (15)	The mangrove plantation in 50 ha. of area on Gujarat cost line shall be carried out by the applicant in a phased manner in five years	Complied. <p>Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both Phase I and II). 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

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

Sr. no.	Conditions	Status/Action taken
		3. 50 ha near Padri bit, Dist Bhavnagar – 2011 4. 200 ha near Malpur, Ta. Jambusar – 2013-14 5. 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as part of compliance to Phase – III EC & CRZ Clearance conditions) Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.
P2 (16)	The construction activities in the Forest land and the Gauchar land shall be carried out as per the permission accorded by the concerned Authority for the said purpose	Complied. Construction of the project was completed in February 2011 in compliance to the approvals.
P1(3)	The APPL shall take up massive mangrove plantation in 200 ha of area in and around the project site or at an alternative site to be selected in consultation with this Department.	Complied. Mangrove afforestation has been carried out in an area of 400 ha Phase I & II (200 Ha for both Phase I and II). Details are given below. <ol style="list-style-type: none"> 100 ha near village Dandi, Dist Surat– 2011 50 ha near village Jakhau, Dist Kutch – 2011 50 ha near Padri bit, Dist Bhavnagar – 2011 200 ha near Malpur, Ta. Jambusar – 2013-14 50 ha Devjagan/Nada Ta. Jambusar – 2017 – 18 (Done as part of compliance to Phase – III EC & CRZ Clearance conditions) Reports of 400 Ha Mangrove afforestation were submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 28.11.2017 and Report of 50 ha. Mangrove afforestation was submitted along with half yearly compliance report vide letter no. APPPL-EHS/MoEF RO/EC Comp (I & II) dated 29/05/2019.

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

Sr. no.	Conditions	Status/Action taken
P1(4)	The approach road and trestle passing through the forestland shall be constructed only after obtaining necessary permissions under the relevant forest laws including the forest (Conservation) Act. further, no activity shall be carried out in the forestland or in the area having natural plantation / forest till all mandatory clearances under various Forest Acts including the Forests Conservation Act obtained.	Complied. <ul style="list-style-type: none"> All the activities on forest land have been started only after obtaining forest land clearance. Clarence from MOEF was obtained vide letter no 6-GJCo6o/2006-BHO/1508 dated 16th June 2008. The same was communicated by State Forest Department vide letter no A-1006(10-9)SF-76-K dated 1st July 2008 from DOEF.
P1(6)	The project proponent shall have to make a separate application and shall have to obtain prior clearance under the CRZ Notification for any activities other than those proposed and got approved as part of this phase I activities.	Complied. APDPPL had obtained Environmental & CRZ Clearance on Nov 11, 2008 for phase 2 vide letter no.11-37/2007-IA.III.
P1(8)	The project proponents shall ensure that the local people shall be provided with an alternative access to the sea in case the existing access to	Complied. Alternative access to the sea is available adjoining to the project site.

Half yearly Compliance report for CRZ Clearance/recommendation for development of Solid Cargo Port Terminal Phase – I and Phase – II		
Sr. no.	Conditions	Status/Action taken
	Rock-Bund could not be made available to them.	
P1(9)	The project proponents shall ensure that the construction period shall be reduced by proper planning and executing the construction program in time-bound manner to avoid any time over-run.	Complied. Construction of the project was completed in February 2011.
P1(20)	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. The jetty and most of the approach of 1270 meter is supported on piles allowing adequate flow of water without significant obstruction.
	General Conditions	
P2(17),P1(21)	The groundwater shall not be tapped by the APPPL to meet with the water requirements in any case.	Complied. Ground water is not tapped in CRZ area for the project. Water requirement is being met through GIDC water supply. Two Piezometers have been installed at different locations inside port. Regular monitoring of ground water level & quality is being done through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat
P2(18),P1(22)	The APPL shall take up massive green belt development activities in consultation with the Gujarat Institute of Desert Ecology/Forest Department. A comprehensive plan for this purpose has to be submitted to the Forests and	Complying with. Green belt is being developed in an area of 22.68 ha including periphery of the project boundary. Details of the green development is enclosed is Annexure – 5 .

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

Sr. no.	Conditions	Status/Action taken
	Environment Department.	
P2(19),P1(23)	The APPL shall have to be contributing financially for taking up the socio-economic up-liftment activities in this region in consultation with the Forests and Environment Department and the District Collector/District Development Officer.	Complied. The CSR activities are executed at group level by Adani Foundation. Adani Foundation is taking care of Social-economic establishment activities and details of the same are enclosed as Annexure – 8.
P2(20),P1(24)	A separate budget shall be earmarked for environmental management and socio – economic activities and details thereof shall be furnished to this department as well as the MoEF, GOI. The details with respect to the expenditure from this budget head shall also be furnished.	Complied. Separate budget is allocated for Environmental Management and Socio Economic activities. <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 2021-22 was approx. Rs. 374.6 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure –6. • Socio Economic activities are taken up in the areas of Education, Community Health and Sustainable livelihood development, Rural Infrastructure development etc. Details are enclosed as Annexure – 8.
P2(21),P1(25)	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	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.

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

Sr. no.	Conditions	Status/Action taken																											
P2(22),P1(26)	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the coastal and marine environment shall be submitted every year by the APPL to this Department as well as to the MoEF, GOI.	Complied. Seawater and sediment is being monitored through NABL accredited & MoEF&CC recognized laboratory M/s Pollucon Laboratories, Surat. Refer the results shown earlier. Monitoring Report for the period April, 2021 to September, 2021 is enclosed in Annexure 3C & 3D . No significant changes observed.																											
P2(23),P1(28)	A six monthly report on compliance of the condition mentioned in this letter shall have to be furnished by the APPL on regular basis to this Department.	Being Complied <ul style="list-style-type: none"> APDPPL is regularly submitting six monthly compliance reports which comprises of Compliance to the conditions stipulated in Environment and CRZ clearance, environment monitoring reports. Last compliance report was submitted vide letter no. APPPL-EHS/MOEF RO/EC Comp (I&II) dated 24.05.2021 in soft copy via mail dated 25.05.2021. 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> <tr> <td>8</td><td>Oct' 20 to Mar' 21</td><td>25.05.2021</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	8	Oct' 20 to Mar' 21	25.05.2021
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7	Apr' 20 to Sep' 20	25.11.2020																											
8	Oct' 20 to Mar' 21	25.05.2021																											
P2(24),P1(29)	Any other condition that may be stipulated by this Department from time to time for environmental protection/management purpose shall also have to be complied by the APPL.	Noted and agreed to comply with any other condition that may be stipulated by this Department / Ministry of Environment, Forest and Climate Change, Government of India from time to time for environmental protection.																											
P1(27)	The APPL shall have	Complied.																											

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

Sr. no.	Conditions	Status/Action taken
	to contribute financially to support the National Green Corps scheme being implemented in Gujarat by GEER Foundation, Gandhinagar, in consultation with Forests and Environment Department.	A request in this regard for asking for the terms of Financial Contribution submitted to the GEER Foundation vide letter dated 17th April, 2009.

Annexure – 1: Compliance status of the conditions by Forest and Environment Department, Govt. of Gujarat vide their letter No.-FCA-1006(10-9)SF-76-K, dated., 1.7.2008 and by Ministry of Environment and Forests, Regional Office, Western Region, Bhopal vide their letter No. 6-GJo60/2006-BHO/1508, dated 16.6.2008

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

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

Annexure – 2: Details of the Fixed and Mobile Firefighting system

Fire Fighting Systems	Details
Fire Hydrant	135 Nos.
Fire Monitor	65 Nos.
Risers	15 Nos.
Total Fire Extinguisher	461 Nos.
Smoke Detector	144 Nos.
Fire Bucket	71 Nos.
Emergency Siren	06 Nos.
Port Water Reservoir Pump House	5040 KL
Silo Water Reservoir Pump House	5031 KL
Fire Vehicles Detail	
Multi-Purpose Fire Tender – Water & Foam	10 KL & 1.5
Dry Chemical Powder @ 50 Kgs. (MFT)	2 Nos.
CO ₂ @ 4.5 Kgs. (MFT)	2 Nos.
Fire Tender (01 No.)	12 KL
Fire Water Bowser (01 No.)	7.5 KL
Trailer Pump (01 No.)	1800 LPM



Environment Monitoring Report for the period from April-21 to September-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	02/04/2021	83.61	44.22	ND*	ND*	ND*	ND*	0.87	ND*	37.69	20.34	29.51	24.5
2	06/04/2021	75.55	40.56	ND*	ND*	ND*	ND*	0.98	ND*	22.33	12.67	35.41	29.58
3	09/04/2021	86.35	46.60	0.75	ND*	2.22	10.27	0.90	ND*	34.22	25.26	39.27	26.29
4	13/04/2021	69.35	33.56	ND*	ND*	ND*	ND*	0.63	ND*	24.64	18.66	32.61	22.6
5	16/04/2021	91.50	48.35	ND*	ND*	ND*	ND*	0.71	ND*	32.28	21.30	43.43	23.57
6	20/04/2021	85.35	43.24	ND*	ND*	ND*	ND*	0.76	ND*	26.49	23.62	37.59	19.5
7	23/04/2021	93.47	52.66	0.65	ND*	2.46	10.76	0.89	ND*	35.20	16.49	31.59	27.5
8	27/04/2021	79.40	37.53	ND*	ND*	ND*	ND*	0.57	ND*	38.55	26.27	34.63	18.38
9	30/04/2021	88.53	47.37	0.56	ND*	2.36	10.72	0.62	ND*	30.16	19.36	38.50	25.64
10	04/05/2021	79.67	46.76	ND*	ND*	ND*	ND*	0.69	ND*	33.42	15.58	38.42	28.46
11	07/05/2021	91.59	51.55	0.72	ND*	2.48	10.23	0.85	ND*	28.45	20.80	30.49	26.19
12	11/05/2021	80.47	42.56	ND*	ND*	ND*	ND*	0.73	ND*	36.55	17.52	33.41	21.23
13	14/05/2021	90.30	50.21	ND*	ND*	ND*	ND*	0.80	ND*	39.43	22.49	36.27	24.68
14	20/05/2021	68.30	29.50	ND*	ND*	ND*	ND*	0.47	ND*	29.38	26.17	41.21	29.41
15	21/05/2021	94.53	54.21	0.82	ND*	2.52	10.56	0.55	ND*	23.59	24.23	39.37	25.21
16	25/05/2021	82.47	39.63	ND*	ND*	ND*	ND*	0.62	ND*	31.50	18.38	32.64	20.62
17	28/05/2021	74.26	35.46	ND*	ND*	ND*	ND*	0.78	ND*	25.63	21.77	35.30	27.52
18	01/06/2021	76.55	37.52	ND*	ND*	ND*	ND*	0.94	ND*	35.66	14.35	32.45	20.52
19	04/06/2021	90.20	48.45	0.62	ND*	2.46	10.64	0.70	ND*	30.46	19.28	43.55	27.71
20	08/06/2021	83.47	44.19	ND*	ND*	ND*	ND*	0.64	ND*	27.58	22.44	38.42	29.45
21	11/06/2021	72.60	38.40	ND*	ND*	ND*	ND*	0.58	ND*	23.46	17.55	35.57	23.63
22	15/06/2021	89.49	45.31	ND*	ND*	ND*	10.53	0.89	ND*	38.41	23.38	40.49	18.47
23	18/06/2021	92.69	55.26	0.70	ND*	2.62	ND*	0.69	ND*	28.41	15.39	29.68	26.21

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POLLUCON LABORATORIES PVT. LTD.

24	22/06/2021	71.25	34.54	ND*	ND*	ND*	ND*	0.72	ND*	26.38	21.57	33.64	19.28
25	25/06/2021	91.50	50.25	0.58	ND*	2.32	10.41	0.80	ND*	36.28	18.42	37.56	25.59
26	29/06/2021	69.62	36.55	ND*	ND*	ND*	ND*	0.53	ND*	29.45	24.66	34.19	21.74
27	02/07/2021	75.61	39.48	ND*	ND*	ND*	ND*	1.02	ND*	30.23	22.61	31.86	21.67
28	06/07/2021	94.33	55.33	0.80	ND*	2.36	10.53	0.94	ND*	24.95	18.73	37.52	25.09
29	09/07/2021	82.62	40.30	ND*	ND*	ND*	ND*	0.87	ND*	32.89	16.46	34.32	18.96
30	13/07/2021	88.68	48.37	ND*	ND*	ND*	ND*	0.98	ND*	17.34	25.35	42.62	28.37
31	16/07/2021	93.21	50.23	0.68	ND*	2.62	10.65	1.04	ND*	35.62	24.53	36.48	26.21
32	20/07/2021	74.50	38.47	ND*	ND*	ND*	ND*	0.85	ND*	22.23	17.54	23.89	22.62
33	23/07/2021	80.38	49.20	ND*	ND*	ND*	ND*	1.00	ND*	33.56	19.36	30.61	27.22
34	27/07/2021	90.22	51.29	0.82	ND*	2.46	10.35	0.68	ND*	19.36	23.42	40.52	20.68
35	30/07/2021	86.22	46.27	ND*	ND*	ND*	ND*	0.95	ND*	26.82	20.14	35.80	24.22
36	03/08/2021	83.42	40.55	ND*	ND*	ND*	ND*	0.89	ND*	36.54	15.67	39.45	27.63
37	06/08/2021	77.35	44.36	0.59	ND*	2.62	10.74	0.66	ND*	44.32	25.39	36.53	30.45
38	10/08/2021	69.98	36.51	ND*	ND*	ND*	ND*	1.02	ND*	21.83	18.62	28.62	23.46
39	13/08/2021	78.36	34.80	0.78	ND*	2.82	10.41	0.70	ND*	42.63	26.31	30.47	29.49
40	17/08/2021	64.20	28.59	ND*	ND*	ND*	ND*	0.77	ND*	37.56	21.26	33.72	22.57
41	20/08/2021	75.42	42.35	ND*	ND*	ND*	ND*	0.52	ND*	31.37	23.47	40.24	28.4
42	24/08/2021	79.62	45.38	ND*	ND*	ND*	ND*	0.84	ND*	25.55	14.66	37.81	21.24
43	27/08/2021	84.30	48.43	0.65	ND*	2.54	10.07	0.50	ND*	34.53	22.31	32.61	15.69
44	31/08/2021	63.39	33.61	ND*	ND*	ND*	ND*	0.79	ND*	30.20	17.48	41.29	26.88
45	03/09/2021	77.68	42.31	0.58	ND*	2.34	10.46	0.50	ND*	26.44	23.51	33.19	28.09
46	07/09/2021	67.32	28.48	ND*	ND*	ND*	ND*	0.80	ND*	30.23	20.55	35.60	24.66
47	10/09/2021	78.60	43.65	0.65	ND*	2.46	10.65	0.74	ND*	27.54	24.31	40.34	26.34
48	14/09/2021	70.34	30.61	ND*	ND*	ND*	ND*	0.52	ND*	34.53	18.42	26.44	20.86
49	17/09/2021	61.55	33.50	ND*	ND*	ND*	ND*	0.92	ND*	28.34	16.23	37.56	19.43
50	21/09/2021	82.30	44.93	0.71	ND*	2.56	10.76	0.70	ND*	23.68	19.56	31.58	23.96
51	24/09/2021	76.61	37.50	ND*	ND*	ND*	ND*	0.78	ND*	32.18	25.28	38.61	25.46
52	28/09/2021	68.48	31.52	ND*	ND*	ND*	ND*	0.81	ND*	21.12	15.66	34.51	14.95

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 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-2: Near PMC Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2021	76.28	35.39	ND*	ND*	ND*	ND*	0.39	ND*	28.56	13.58	19.50	16.29
2	06/04/2021	69.58	32.57	ND*	ND*	ND*	ND*	0.66	ND*	14.58	16.35	28.25	19.32
3	09/04/2021	55.61	28.35	ND*	ND*	ND*	ND*	0.54	ND*	23.22	12.49	30.46	14.21
4	13/04/2021	62.67	26.54	ND*	ND*	ND*	ND*	0.41	ND*	18.64	9.63	22.83	20.21
5	16/04/2021	75.30	43.54	ND*	ND*	ND*	ND*	0.37	ND*	13.68	23.58	35.61	17.5
6	20/04/2021	54.31	36.72	ND*	ND*	ND*	ND*	0.52	ND*	24.56	15.14	25.77	12.63
7	23/04/2021	71.51	39.57	ND*	ND*	ND*	ND*	0.47	ND*	27.67	20.26	29.43	18.67
8	27/04/2021	60.27	24.22	ND*	ND*	ND*	ND*	0.25	ND*	16.45	21.66	32.15	24.21
9	30/04/2021	70.53	31.33	ND*	ND*	ND*	ND*	0.19	ND*	21.42	11.88	24.50	21.32
10	04/05/2021	68.52	27.88	ND*	ND*	ND*	ND*	0.52	ND*	18.58	21.27	31.54	14.69
11	07/05/2021	70.38	38.40	ND*	ND*	ND*	ND*	0.48	ND*	10.45	15.67	21.50	21.62
12	11/05/2021	48.37	23.69	ND*	ND*	ND*	ND*	0.41	ND*	25.31	11.24	18.48	24.29
13	14/05/2021	79.30	34.81	ND*	ND*	ND*	ND*	0.63	ND*	15.47	13.54	25.47	15.49
14	20/05/2021	53.60	20.62	ND*	ND*	ND*	ND*	0.27	ND*	21.22	16.88	32.46	26.31
15	21/05/2021	75.62	43.48	ND*	ND*	ND*	ND*	0.40	ND*	16.34	18.21	29.47	11.21
16	25/05/2021	67.55	25.60	ND*	ND*	ND*	ND*	0.31	ND*	24.27	12.41	23.22	17.29
17	28/05/2021	52.48	29.65	ND*	ND*	ND*	ND*	0.54	ND*	11.53	9.66	19.36	22.56
18	01/06/2021	56.32	25.33	ND*	ND*	ND*	ND*	0.68	ND*	27.83	11.54	18.66	18.27
19	04/06/2021	74.27	45.33	ND*	ND*	ND*	ND*	0.33	ND*	23.80	21.25	38.56	20.64
20	08/06/2021	65.68	39.39	ND*	ND*	ND*	ND*	0.27	ND*	20.64	18.62	35.28	16.46
21	11/06/2021	57.58	35.68	ND*	ND*	ND*	ND*	0.56	ND*	16.39	10.65	27.62	10.31
22	15/06/2021	82.60	40.54	ND*	ND*	ND*	ND*	0.50	ND*	25.65	12.54	26.70	24.28
23	18/06/2021	73.40	37.23	ND*	ND*	ND*	ND*	0.39	ND*	12.51	6.32	14.51	28.44
24	22/06/2021	55.62	26.21	ND*	ND*	ND*	ND*	0.29	ND*	15.34	8.75	19.38	15.32
25	25/06/2021	70.60	36.25	ND*	ND*	ND*	ND*	0.46	ND*	21.23	13.91	30.61	17.31
26	29/06/2021	53.72	27.56	ND*	ND*	ND*	ND*	0.57	ND*	24.27	17.67	25.69	12.39

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27	02/07/2021	62.30	31.55	ND*	ND*	ND*	ND*	0.41	ND*	16.40	18.28	24.30	11.3
28	06/07/2021	78.61	35.50	ND*	ND*	ND*	ND*	0.77	ND*	32.37	10.67	29.51	16.49
29	09/07/2021	69.35	38.68	ND*	ND*	ND*	ND*	0.63	ND*	28.40	14.19	32.61	12.45
30	13/07/2021	75.35	41.25	ND*	ND*	ND*	ND*	0.37	ND*	13.17	16.91	38.42	14.53
31	16/07/2021	89.39	46.53	ND*	ND*	ND*	ND*	0.31	ND*	31.52	13.44	28.43	23.48
32	20/07/2021	52.56	21.35	ND*	ND*	ND*	ND*	0.54	ND*	18.37	9.67	18.63	17.7
33	23/07/2021	68.61	37.52	ND*	ND*	ND*	ND*	0.49	ND*	23.62	17.37	27.36	21.57
34	27/07/2021	77.50	27.59	ND*	ND*	ND*	ND*	0.62	ND*	10.38	19.49	31.30	24.6
35	30/07/2021	64.52	34.51	ND*	ND*	ND*	ND*	0.33	ND*	15.64	15.56	21.24	13.72
36	03/08/2021	73.60	30.37	ND*	ND*	ND*	ND*	0.82	ND*	18.38	21.68	32.42	14.32
37	06/08/2021	65.34	37.54	ND*	ND*	ND*	ND*	0.60	ND*	38.68	17.83	24.35	19.37
38	10/08/2021	57.62	17.42	ND*	ND*	ND*	ND*	0.38	ND*	16.34	9.31	20.63	10.54
39	13/08/2021	68.52	33.40	ND*	ND*	ND*	ND*	0.23	ND*	14.79	15.51	33.56	12.89
40	17/08/2021	59.31	25.37	ND*	ND*	ND*	ND*	0.64	ND*	28.33	10.35	21.52	18.09
41	20/08/2021	70.51	39.20	ND*	ND*	ND*	ND*	0.26	ND*	23.30	18.41	35.66	23.26
42	24/08/2021	63.34	35.33	ND*	ND*	ND*	ND*	0.73	ND*	21.21	7.40	22.63	24.43
43	27/08/2021	72.42	32.42	ND*	ND*	ND*	ND*	0.32	ND*	17.55	14.16	25.85	13.24
44	31/08/2021	50.62	26.59	ND*	ND*	ND*	ND*	0.41	ND*	13.27	19.56	28.46	16.74
45	03/09/2021	68.38	34.30	ND*	ND*	ND*	ND*	0.29	ND*	12.40	10.41	29.42	25.3
46	07/09/2021	47.32	18.35	ND*	ND*	ND*	ND*	0.32	ND*	22.66	16.46	33.55	22.56
47	10/09/2021	56.33	30.46	ND*	ND*	ND*	ND*	0.47	ND*	18.54	21.35	37.59	17.31
48	14/09/2021	63.62	27.38	ND*	ND*	ND*	ND*	0.62	ND*	10.55	12.51	18.65	15.86
49	17/09/2021	48.67	23.62	ND*	ND*	ND*	ND*	0.72	ND*	16.62	9.52	22.41	14.32
50	21/09/2021	72.68	36.98	ND*	ND*	ND*	ND*	0.49	ND*	19.69	17.71	25.66	26.56
51	24/09/2021	67.25	28.35	ND*	ND*	ND*	ND*	0.30	ND*	20.49	15.29	28.33	16.31
52	28/09/2021	59.34	25.40	ND*	ND*	ND*	ND*	0.44	ND*	11.21	11.24	20.31	18.51

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 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-3: Sub-Station-7B Building											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2021	55.36	21.54	ND*	ND*	ND*	ND*	0.61	ND*	15.63	12.86	24.34	11.34
2	06/04/2021	48.36	18.59	ND*	ND*	ND*	ND*	0.60	ND*	12.60	11.26	19.22	15.66
3	09/04/2021	50.38	25.34	ND*	ND*	ND*	ND*	0.48	ND*	19.22	18.56	22.67	20.36
4	13/04/2021	56.31	22.46	ND*	ND*	ND*	ND*	0.21	ND*	10.49	15.32	18.59	10.27
5	16/04/2021	67.52	32.80	ND*	ND*	ND*	ND*	0.40	ND*	20.25	9.91	32.30	25.29
6	20/04/2021	74.24	29.65	ND*	ND*	ND*	ND*	0.46	ND*	11.11	13.22	21.20	14.84
7	23/04/2021	60.60	35.33	ND*	ND*	ND*	ND*	0.32	ND*	14.26	6.53	15.61	12.49
8	27/04/2021	70.25	30.23	ND*	ND*	ND*	ND*	0.42	ND*	22.63	8.54	25.70	16.67
9	30/04/2021	76.51	43.18	ND*	ND*	ND*	ND*	0.36	ND*	18.33	14.51	30.62	18.7
10	04/05/2021	63.22	34.49	ND*	ND*	ND*	ND*	0.22	ND*	24.50	9.57	22.62	21.5
11	07/05/2021	80.32	31.54	ND*	ND*	ND*	ND*	0.57	ND*	21.54	13.31	18.67	12.47
12	11/05/2021	68.50	28.65	ND*	ND*	ND*	ND*	0.39	ND*	28.29	16.22	28.49	10.3
13	14/05/2021	54.60	23.47	ND*	ND*	ND*	ND*	0.16	ND*	14.34	8.68	16.34	19.52
14	20/05/2021	43.50	15.41	ND*	ND*	ND*	ND*	0.26	ND*	10.21	15.24	19.56	15.7
15	21/05/2021	52.37	26.27	ND*	ND*	ND*	ND*	0.18	ND*	13.49	14.61	26.57	17.57
16	25/05/2021	77.31	32.45	ND*	ND*	ND*	ND*	0.49	ND*	17.53	10.61	20.31	11.59
17	28/05/2021	45.65	16.51	ND*	ND*	ND*	ND*	0.53	ND*	15.22	7.57	14.51	18.45
18	01/06/2021	70.24	23.68	ND*	ND*	ND*	ND*	0.47	ND*	21.56	6.41	14.35	19.44
19	04/06/2021	66.34	35.50	ND*	ND*	ND*	ND*	0.16	ND*	17.59	12.34	22.50	10.86
20	08/06/2021	55.60	26.34	ND*	ND*	ND*	ND*	0.21	ND*	10.67	9.57	30.44	13.64
21	11/06/2021	62.46	28.57	ND*	ND*	ND*	ND*	0.32	ND*	13.86	7.60	15.64	17.58
22	15/06/2021	71.53	38.63	ND*	ND*	ND*	ND*	0.34	ND*	22.36	14.52	18.33	21.24
23	18/06/2021	80.20	46.34	ND*	ND*	ND*	ND*	0.30	ND*	15.63	10.61	20.32	16.3
24	22/06/2021	65.33	31.33	ND*	ND*	ND*	ND*	0.17	ND*	19.69	15.73	16.20	12.39
25	25/06/2021	59.33	29.52	ND*	ND*	ND*	ND*	0.13	ND*	11.25	11.58	23.67	11.4
26	29/06/2021	42.52	17.55	ND*	ND*	ND*	ND*	0.48	ND*	14.64	13.68	21.62	15.65

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27	02/07/2021	50.31	22.67	ND*	ND*	ND*	ND*	0.65	ND*	20.33	8.63	13.57	23.68
28	06/07/2021	60.23	32.32	ND*	ND*	ND*	ND*	0.45	ND*	22.33	6.59	17.51	11.68
29	09/07/2021	74.21	29.31	ND*	ND*	ND*	ND*	0.57	ND*	19.11	11.25	25.60	16.36
30	13/07/2021	63.49	33.42	ND*	ND*	ND*	ND*	0.50	ND*	15.35	15.69	19.66	21.39
31	16/07/2021	75.32	20.29	ND*	ND*	ND*	ND*	0.74	ND*	16.38	7.61	24.24	12.38
32	20/07/2021	46.33	18.42	ND*	ND*	ND*	ND*	0.48	ND*	10.63	12.65	27.89	14.68
33	23/07/2021	57.20	21.51	ND*	ND*	ND*	ND*	0.21	ND*	28.57	9.44	18.40	17.28
34	27/07/2021	64.55	25.33	ND*	ND*	ND*	ND*	0.40	ND*	12.37	14.43	22.58	13.86
35	30/07/2021	80.69	42.30	ND*	ND*	ND*	ND*	0.25	ND*	23.07	10.26	26.55	19.57
36	03/08/2021	68.65	27.35	ND*	ND*	ND*	ND*	0.74	ND*	25.39	9.61	15.40	21.38
37	06/08/2021	61.69	34.53	ND*	ND*	ND*	ND*	0.24	ND*	28.66	15.23	21.35	13.56
38	10/08/2021	38.39	20.72	ND*	ND*	ND*	ND*	0.18	ND*	18.56	12.46	24.59	15.87
39	13/08/2021	57.52	26.78	ND*	ND*	ND*	ND*	0.25	ND*	21.35	6.40	16.33	18.63
40	17/08/2021	35.67	15.09	ND*	ND*	ND*	ND*	0.53	ND*	17.38	17.42	30.29	14.44
41	20/08/2021	51.57	31.32	ND*	ND*	ND*	ND*	0.21	ND*	22.32	16.57	23.60	20.27
42	24/08/2021	49.36	23.50	ND*	ND*	ND*	ND*	0.46	ND*	12.31	11.88	28.20	22.69
43	27/08/2021	62.32	28.41	ND*	ND*	ND*	ND*	0.36	ND*	10.25	8.58	20.46	17.65
44	31/08/2021	32.56	16.49	ND*	ND*	ND*	ND*	0.65	ND*	19.22	14.28	25.42	11.96
45	03/09/2021	51.50	28.60	ND*	ND*	ND*	ND*	0.17	ND*	16.39	11.53	14.52	14.69
46	07/09/2021	63.60	24.32	ND*	ND*	ND*	ND*	0.60	ND*	20.10	14.58	19.56	18.68
47	10/09/2021	53.43	22.44	ND*	ND*	ND*	ND*	0.40	ND*	10.63	18.75	26.53	11.67
48	14/09/2021	43.65	15.30	ND*	ND*	ND*	ND*	0.38	ND*	13.69	9.31	13.53	12.44
49	17/09/2021	33.44	17.69	ND*	ND*	ND*	ND*	0.65	ND*	14.13	6.55	17.58	20.67
50	21/09/2021	67.51	33.53	ND*	ND*	ND*	ND*	0.57	ND*	11.52	13.54	21.24	17.39
51	24/09/2021	74.52	30.44	ND*	ND*	ND*	ND*	0.63	ND*	17.57	10.39	16.31	21.29
52	28/09/2021	52.33	21.50	ND*	ND*	ND*	ND*	0.15	ND*	15.76	17.37	25.42	10.34

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

Note: ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-4: GCPTL Gate											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2021	65.22	32.49	ND*	ND*	ND*	ND*	0.53	ND*	20.59	7.64	27.33	18.54
2	06/04/2021	55.33	25.44	ND*	ND*	ND*	ND*	0.38	ND*	10.53	9.54	31.27	13.24
3	09/04/2021	61.54	21.26	ND*	ND*	ND*	ND*	0.17	ND*	16.12	23.39	35.38	17.38
4	13/04/2021	42.47	16.48	ND*	ND*	ND*	ND*	0.29	ND*	22.40	16.41	30.25	14.51
5	16/04/2021	51.50	24.15	ND*	ND*	ND*	ND*	0.13	ND*	15.25	14.22	25.42	19.2
6	20/04/2021	62.47	22.69	ND*	ND*	ND*	ND*	0.15	ND*	18.51	12.43	19.67	10.64
7	23/04/2021	78.67	31.58	ND*	ND*	ND*	ND*	0.55	ND*	21.39	8.34	23.49	15.29
8	27/04/2021	53.56	27.53	ND*	ND*	ND*	ND*	0.14	ND*	25.37	15.62	29.22	11.24
9	30/04/2021	66.36	23.43	ND*	ND*	ND*	ND*	0.26	ND*	27.54	17.39	26.59	16.9
10	04/05/2021	52.39	24.51	ND*	ND*	ND*	ND*	0.14	ND*	16.48	12.64	17.49	24.57
11	07/05/2021	64.32	21.63	ND*	ND*	ND*	ND*	0.29	ND*	23.41	6.58	14.70	16.56
12	11/05/2021	59.35	35.60	ND*	ND*	ND*	ND*	0.33	ND*	20.21	14.62	22.56	13.73
13	14/05/2021	71.27	37.83	ND*	ND*	ND*	ND*	0.71	ND*	29.47	20.30	28.36	22.41
14	20/05/2021	48.62	18.42	ND*	ND*	ND*	ND*	0.37	ND*	11.21	18.69	24.36	12.54
15	21/05/2021	67.50	34.38	ND*	ND*	ND*	ND*	0.56	ND*	19.50	10.27	20.29	23.51
16	25/05/2021	56.34	28.33	ND*	ND*	ND*	ND*	0.25	ND*	15.30	7.81	15.54	19.46
17	28/05/2021	68.43	32.59	ND*	ND*	ND*	ND*	0.32	ND*	22.52	13.33	23.54	14.9
18	01/06/2021	50.20	18.66	ND*	ND*	ND*	ND*	0.38	ND*	25.42	10.34	25.30	10.28
19	04/06/2021	57.54	28.39	ND*	ND*	ND*	ND*	0.42	ND*	14.39	8.63	15.31	18.5
20	08/06/2021	48.55	22.25	ND*	ND*	ND*	ND*	0.23	ND*	17.31	11.40	23.44	14.2
21	11/06/2021	52.43	15.32	ND*	ND*	ND*	ND*	0.15	ND*	10.34	15.29	20.48	12.6
22	15/06/2021	46.37	20.51	ND*	ND*	ND*	ND*	0.22	ND*	18.34	17.81	29.37	16.85
23	18/06/2021	60.28	31.80	ND*	ND*	ND*	ND*	0.49	ND*	22.60	7.46	17.21	22.51
24	22/06/2021	49.35	23.39	ND*	ND*	ND*	ND*	0.11	ND*	13.23	13.70	24.35	20.35
25	25/06/2021	78.58	33.57	ND*	ND*	ND*	ND*	0.24	ND*	19.21	6.53	19.68	15.44
26	29/06/2021	47.82	14.22	ND*	ND*	ND*	ND*	0.73	ND*	21.30	9.51	31.43	19.36

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27	02/07/2021	45.21	20.45	ND*	ND*	ND*	ND*	0.58	ND*	24.33	14.60	18.80	16.9
28	06/07/2021	73.51	23.57	ND*	ND*	ND*	ND*	0.56	ND*	19.88	12.34	26.36	14.36
29	09/07/2021	64.24	27.58	ND*	ND*	ND*	ND*	0.47	ND*	26.93	7.21	16.39	20.42
30	13/07/2021	57.58	22.42	ND*	ND*	ND*	ND*	0.32	ND*	11.47	10.71	23.75	23.58
31	16/07/2021	65.39	16.48	ND*	ND*	ND*	ND*	0.44	ND*	25.35	15.31	15.57	15.69
32	20/07/2021	58.39	24.32	ND*	ND*	ND*	ND*	0.61	ND*	13.56	6.45	21.58	11.56
33	23/07/2021	61.23	26.30	ND*	ND*	ND*	ND*	0.34	ND*	16.63	8.72	25.35	13.64
34	27/07/2021	46.27	17.49	ND*	ND*	ND*	ND*	0.81	ND*	15.13	16.81	17.31	10.33
35	30/07/2021	59.42	31.52	ND*	ND*	ND*	ND*	0.64	ND*	20.44	11.60	14.38	17.6
36	03/08/2021	56.84	22.37	ND*	ND*	ND*	ND*	0.48	ND*	20.25	13.53	26.86	23.82
37	06/08/2021	49.31	25.35	ND*	ND*	ND*	ND*	0.17	ND*	24.32	10.83	18.31	17.25
38	10/08/2021	43.52	29.39	ND*	ND*	ND*	ND*	0.55	ND*	11.64	6.54	15.65	12.5
39	13/08/2021	63.42	28.89	ND*	ND*	ND*	ND*	0.40	ND*	23.40	9.47	19.32	22.3
40	17/08/2021	48.38	21.54	ND*	ND*	ND*	ND*	0.33	ND*	19.56	11.81	20.53	19.55
41	20/08/2021	61.25	34.48	ND*	ND*	ND*	ND*	0.37	ND*	14.52	8.59	30.37	13.43
42	24/08/2021	58.33	27.50	ND*	ND*	ND*	ND*	0.63	ND*	17.87	12.60	17.66	15.3
43	27/08/2021	67.52	23.43	ND*	ND*	ND*	ND*	0.30	ND*	25.49	18.42	29.56	11.28
44	31/08/2021	45.25	19.56	ND*	ND*	ND*	ND*	0.39	ND*	10.33	16.35	33.68	14.74
45	03/09/2021	46.29	24.24	ND*	ND*	ND*	ND*	0.36	ND*	14.20	16.33	25.31	15.35
46	07/09/2021	41.22	15.62	ND*	ND*	ND*	ND*	0.24	ND*	10.36	13.39	16.49	13.49
47	10/09/2021	68.68	37.63	ND*	ND*	ND*	ND*	0.19	ND*	21.24	15.47	23.53	10.23
48	14/09/2021	53.69	23.28	ND*	ND*	ND*	ND*	0.23	ND*	16.42	11.36	15.33	18.38
49	17/09/2021	42.62	19.30	ND*	ND*	ND*	ND*	0.27	ND*	11.46	8.70	14.38	23.16
50	21/09/2021	57.54	25.35	ND*	ND*	ND*	ND*	0.21	ND*	15.47	14.28	17.25	12.75
51	24/09/2021	43.60	20.32	ND*	ND*	ND*	ND*	0.56	ND*	13.12	18.20	31.26	11.3
52	28/09/2021	47.52	18.67	ND*	ND*	ND*	ND*	0.42	ND*	19.38	12.44	27.25	17.29

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

Note:ND*: Not Detected, Detection Limit, Lead as Pb: 0.1 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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

Sr. No.	Date of Sampling	Location-5: Near Silo Porta Cabin											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2021	50.29	24.54	ND*	ND*	ND*	ND*	0.16	ND*	23.41	15.19	21.57	14.63
2	06/04/2021	42.65	15.55	ND*	ND*	ND*	ND*	0.30	ND*	16.38	7.20	17.27	23.68
3	09/04/2021	66.31	36.18	ND*	ND*	ND*	ND*	0.27	ND*	13.47	16.18	29.31	19.58
4	13/04/2021	45.34	20.25	ND*	ND*	ND*	ND*	0.24	ND*	17.20	6.69	15.35	18.3
5	16/04/2021	62.55	28.56	ND*	ND*	ND*	ND*	0.18	ND*	10.30	9.28	28.50	21.29
6	20/04/2021	70.26	17.58	ND*	ND*	ND*	ND*	0.36	ND*	21.52	18.24	32.58	11.57
7	23/04/2021	56.27	23.65	ND*	ND*	ND*	ND*	0.58	ND*	24.22	10.19	18.24	17.2
8	27/04/2021	48.57	19.57	ND*	ND*	ND*	ND*	0.50	ND*	19.48	12.75	16.28	12.82
9	30/04/2021	53.58	21.85	ND*	ND*	ND*	ND*	0.31	ND*	14.65	8.76	19.32	15.56
10	04/05/2021	59.30	30.34	ND*	ND*	ND*	ND*	0.36	ND*	12.46	7.49	24.24	16.21
11	07/05/2021	76.55	29.36	ND*	ND*	ND*	ND*	0.21	ND*	18.30	12.40	27.57	19.33
12	11/05/2021	54.31	32.39	ND*	ND*	ND*	ND*	0.17	ND*	14.51	9.77	31.50	15.25
13	14/05/2021	68.60	27.69	ND*	ND*	ND*	ND*	0.44	ND*	21.69	10.52	22.45	10.49
14	20/05/2021	57.64	23.55	ND*	ND*	ND*	ND*	0.24	ND*	16.23	13.63	17.59	20.49
15	21/05/2021	62.31	31.64	ND*	ND*	ND*	ND*	0.19	ND*	11.37	16.49	23.63	21.79
16	25/05/2021	50.23	22.30	ND*	ND*	ND*	ND*	0.23	ND*	20.66	14.78	28.63	14.26
17	28/05/2021	58.34	25.34	ND*	ND*	ND*	ND*	0.38	ND*	13.51	6.72	26.76	11.37
18	01/06/2021	44.66	15.59	ND*	ND*	ND*	ND*	0.25	ND*	13.54	8.49	22.48	13.59
19	04/06/2021	50.26	25.48	ND*	ND*	ND*	ND*	0.18	ND*	21.46	17.40	18.55	16.58
20	08/06/2021	60.65	33.49	ND*	ND*	ND*	ND*	0.44	ND*	15.88	15.59	26.50	20.87
21	11/06/2021	48.65	19.52	ND*	ND*	ND*	ND*	0.19	ND*	20.56	13.44	17.65	15.21
22	15/06/2021	58.69	30.31	ND*	ND*	ND*	ND*	0.37	ND*	14.25	7.39	21.53	22.34
23	18/06/2021	65.60	26.49	ND*	ND*	ND*	ND*	0.26	ND*	19.32	12.36	25.55	18.3
24	22/06/2021	43.59	17.54	ND*	ND*	ND*	ND*	0.14	ND*	23.60	19.47	30.25	11.63
25	25/06/2021	63.69	24.20	ND*	ND*	ND*	ND*	0.41	ND*	16.87	9.24	28.24	21.37
26	29/06/2021	57.52	22.56	ND*	ND*	ND*	ND*	0.54	ND*	12.25	6.53	15.37	14.82

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27	02/07/2021	56.35	28.50	ND*	ND*	ND*	ND*	0.71	ND*	11.78	10.60	16.53	10.2
28	06/07/2021	44.23	20.28	ND*	ND*	ND*	ND*	0.39	ND*	14.56	8.29	33.46	12.69
29	09/07/2021	58.33	24.27	ND*	ND*	ND*	ND*	0.55	ND*	18.22	12.50	23.57	14.23
30	13/07/2021	47.64	26.35	ND*	ND*	ND*	ND*	0.38	ND*	10.29	14.62	15.47	16.2
31	16/07/2021	54.50	22.56	ND*	ND*	ND*	ND*	0.53	ND*	12.63	9.37	22.39	13.5
32	20/07/2021	63.65	29.54	ND*	ND*	ND*	ND*	0.36	ND*	16.51	15.84	26.29	19.2
33	23/07/2021	52.68	15.36	ND*	ND*	ND*	ND*	0.30	ND*	21.53	16.54	34.67	23.89
34	27/07/2021	69.42	21.22	ND*	ND*	ND*	ND*	0.76	ND*	17.50	7.36	24.88	17.96
35	30/07/2021	53.37	27.51	ND*	ND*	ND*	ND*	0.46	ND*	13.39	13.54	29.49	11.99
36	03/08/2021	63.38	33.41	ND*	ND*	ND*	ND*	0.31	ND*	14.38	6.35	24.67	12.48
37	06/08/2021	54.59	19.37	ND*	ND*	ND*	ND*	0.27	ND*	20.32	13.42	19.43	20.16
38	10/08/2021	48.33	21.31	ND*	ND*	ND*	ND*	0.34	ND*	16.23	11.26	16.55	13.63
39	13/08/2021	52.32	23.69	ND*	ND*	ND*	ND*	0.47	ND*	11.23	7.60	23.48	17.85
40	17/08/2021	40.66	18.92	ND*	ND*	ND*	ND*	0.45	ND*	13.72	14.57	26.44	21.67
41	20/08/2021	38.66	27.72	ND*	ND*	ND*	ND*	0.54	ND*	10.52	9.27	18.48	11.65
42	24/08/2021	44.36	31.59	ND*	ND*	ND*	ND*	0.44	ND*	22.64	15.81	25.65	18.49
43	27/08/2021	57.59	25.62	ND*	ND*	ND*	ND*	0.13	ND*	15.34	10.59	17.58	10.66
44	31/08/2021	36.32	12.54	ND*	ND*	ND*	ND*	0.22	ND*	21.57	12.49	20.25	19.23
45	03/09/2021	40.31	21.32	ND*	ND*	ND*	ND*	0.22	ND*	21.61	18.59	20.73	21.56
46	07/09/2021	37.39	20.37	ND*	ND*	ND*	ND*	0.16	ND*	15.30	9.67	24.32	15.58
47	10/09/2021	62.61	33.45	ND*	ND*	ND*	ND*	0.45	ND*	12.54	16.72	29.53	20.31
48	14/09/2021	48.67	18.76	ND*	ND*	ND*	ND*	0.18	ND*	17.61	10.56	21.37	14.12
49	17/09/2021	38.67	15.45	ND*	ND*	ND*	ND*	0.39	ND*	25.32	15.77	27.63	16.89
50	21/09/2021	61.50	28.52	ND*	ND*	ND*	ND*	0.41	ND*	13.40	7.49	15.67	10.56
51	24/09/2021	51.52	22.29	ND*	ND*	ND*	ND*	0.15	ND*	10.47	12.68	19.74	19.52
52	28/09/2021	42.62	16.41	ND*	ND*	ND*	ND*	0.31	ND*	18.35	6.31	13.63	13.07

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	02/04/2021	71.24	39.28	ND*	ND*	ND*	ND*	0.74	ND*	26.30	17.62	33.53	20.51
2	06/04/2021	62.30	29.41	ND*	ND*	ND*	ND*	0.85	ND*	19.59	13.48	36.23	25.32
3	09/04/2021	80.36	42.61	0.69	ND*	2.02	10.41	0.64	ND*	30.25	20.59	32.49	23.37
4	13/04/2021	50.33	30.30	ND*	ND*	ND*	ND*	0.44	ND*	29.37	12.33	26.38	19.71
5	16/04/2021	84.21	37.81	ND*	ND*	ND*	ND*	0.33	ND*	27.89	16.84	30.52	28.27
6	20/04/2021	79.34	33.49	ND*	ND*	ND*	ND*	0.56	ND*	15.14	21.54	24.44	17.89
7	23/04/2021	83.52	44.58	0.60	ND*	2.36	10.50	0.69	ND*	31.27	14.24	34.60	24.70
8	27/04/2021	72.69	34.26	ND*	ND*	ND*	ND*	0.49	ND*	28.23	18.41	27.24	22.33
9	30/04/2021	81.26	38.26	0.50	ND*	2.24	10.32	0.34	ND*	17.58	15.78	22.43	27.62
10	04/05/2021	73.46	42.67	ND*	ND*	ND*	ND*	0.60	ND*	30.57	13.87	34.21	25.38
11	07/05/2021	85.33	46.59	0.62	ND*	2.34	10.47	0.74	ND*	34.54	22.43	24.58	23.47
12	11/05/2021	76.59	39.40	ND*	ND*	ND*	ND*	0.34	ND*	18.43	7.32	37.25	19.19
13	14/05/2021	84.50	45.33	ND*	ND*	ND*	ND*	0.76	ND*	35.34	18.56	30.22	27.68
14	20/05/2021	63.50	26.67	ND*	ND*	ND*	ND*	0.42	ND*	24.30	24.56	35.52	24.70
15	21/05/2021	82.49	50.42	0.72	ND*	2.26	10.27	0.45	ND*	20.52	19.71	32.36	22.27
16	25/05/2021	72.31	36.54	ND*	ND*	ND*	ND*	0.46	ND*	27.52	16.48	26.32	15.34
17	28/05/2021	62.50	28.42	ND*	ND*	ND*	ND*	0.50	ND*	17.64	20.31	31.35	12.67
18	01/06/2021	62.56	32.49	ND*	ND*	ND*	ND*	0.85	ND*	16.24	15.55	28.64	22.44
19	04/06/2021	80.34	38.28	0.56	ND*	2.24	10.42	0.63	ND*	27.69	10.26	32.36	24.54
20	08/06/2021	73.52	40.22	ND*	ND*	ND*	ND*	0.52	ND*	23.50	13.47	29.53	11.51
21	11/06/2021	67.53	31.67	ND*	ND*	ND*	ND*	0.36	ND*	32.45	19.90	31.28	21.65
22	15/06/2021	77.52	42.61	ND*	ND*	ND*	10.34	0.55	ND*	28.64	21.48	34.60	14.65
23	18/06/2021	85.36	51.23	0.65	ND*	2.34	ND*	0.65	ND*	24.52	9.35	23.33	20.73
24	22/06/2021	60.26	28.64	ND*	ND*	ND*	ND*	0.79	ND*	29.30	11.86	21.28	18.68
25	25/06/2021	86.51	45.66	0.54	ND*	2.18	10.20	0.31	ND*	26.57	16.53	33.58	13.80
26	29/06/2021	63.75	30.50	ND*	ND*	ND*	ND*	0.40	ND*	18.23	14.18	30.31	17.47

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27	02/07/2021	69.26	36.56	ND*	ND*	ND*	ND*	0.97	ND*	27.51	16.38	29.31	24.32
28	06/07/2021	83.45	43.60	0.71	ND*	2.14	10.34	0.42	ND*	16.85	14.78	34.59	22.70
29	09/07/2021	87.57	32.91	ND*	ND*	ND*	ND*	0.80	ND*	24.17	10.34	27.58	26.69
30	13/07/2021	79.36	38.34	ND*	ND*	ND*	ND*	0.96	ND*	20.83	23.59	35.65	29.30
31	16/07/2021	82.67	41.32	0.62	ND*	2.36	10.53	0.66	ND*	29.42	18.49	31.59	21.12
32	20/07/2021	68.30	35.40	ND*	ND*	ND*	ND*	0.78	ND*	26.34	13.58	30.29	25.35
33	23/07/2021	73.41	44.27	ND*	ND*	ND*	ND*	0.60	ND*	35.85	22.32	33.50	20.21
34	27/07/2021	84.21	31.20	0.74	ND*	2.22	10.28	0.84	ND*	22.68	17.22	37.33	27.51
35	30/07/2021	75.31	37.64	ND*	ND*	ND*	ND*	0.82	ND*	25.67	21.58	32.43	23.72
36	03/08/2021	79.36	35.44	ND*	ND*	ND*	ND*	0.76	ND*	31.53	17.20	35.31	16.62
37	06/08/2021	72.60	31.21	0.60	ND*	2.31	10.63	0.86	ND*	34.36	23.86	33.40	23.50
38	10/08/2021	64.36	33.53	ND*	ND*	ND*	ND*	0.49	ND*	13.60	16.30	25.35	20.61
39	13/08/2021	73.42	32.18	0.65	ND*	2.65	10.20	0.29	ND*	27.30	14.23	28.56	14.62
40	17/08/2021	54.55	25.22	ND*	ND*	ND*	ND*	0.78	ND*	32.43	19.33	30.90	26.65
41	20/08/2021	66.62	36.27	ND*	ND*	ND*	ND*	0.42	ND*	20.46	21.89	26.57	17.51
42	24/08/2021	71.36	42.37	ND*	ND*	ND*	ND*	0.56	ND*	14.66	18.18	34.33	25.60
43	27/08/2021	78.62	39.44	0.61	ND*	2.42	10.32	0.68	ND*	29.48	15.56	23.86	12.32
44	31/08/2021	55.32	29.57	ND*	ND*	ND*	ND*	0.57	ND*	24.97	22.47	36.34	22.82
45	03/09/2021	72.55	38.39	0.52	ND*	2.12	10.34	0.46	ND*	23.36	13.69	26.36	17.64
46	07/09/2021	57.38	21.61	ND*	ND*	ND*	ND*	0.54	ND*	28.40	18.51	29.35	19.16
47	10/09/2021	75.38	39.46	0.59	ND*	2.34	10.50	0.61	ND*	15.61	20.28	33.48	23.69
48	14/09/2021	58.33	26.20	ND*	ND*	ND*	ND*	0.64	ND*	26.38	16.01	23.42	21.65
49	17/09/2021	53.50	30.37	ND*	ND*	ND*	ND*	0.82	ND*	20.24	12.82	32.58	18.49
50	21/09/2021	80.34	41.29	0.66	ND*	2.46	10.61	0.58	ND*	17.75	10.64	28.63	20.28
51	24/09/2021	68.42	31.37	ND*	ND*	ND*	ND*	0.25	ND*	27.97	21.52	35.35	28.30
52	28/09/2021	64.52	28.49	ND*	ND*	ND*	ND*	0.37	ND*	24.86	19.18	31.34	16.64

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 µg/m³, Carbon Monoxide as CO: 0.1 mg/m³, Benzene as C₆H₆: 2 µg/m³, Benzo (a) Pyrene (BaP) - Particulate Phase only: 0.5ng/m³, Arsenic as As: 2ng/m³, Nickel as Ni: 5 ng/m³

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**3B. GROUND WATER LEVEL & QUALITY ANALYSIS (PIEZOMETERS) MONITORING: -****Table- 1: Ground Water Level & Quality Analysis (Pizometer) Results for the period: April-21 to September-21****3B.1 Near Sub Station-7B**

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/21	17/05/21	22/06/21	29/07/21	12/08/21	14/09/21
1	Temperature	°C	30.8	30.4	30.2	30.1	30.8	30.21
2	pH	--	8.41	8.37	8.14	8.28	8.41	8.09
3	Total Dissolved Solids	mg/L	1948	1852	1827	1196	1919	1028
4	Salinity	ppt	0.330	0.32	0.310	0.292	0.33	0.296
5	Chloride as Cl	mg/L	184	179	172	162	184	164
6	Depth of Water Level from Ground Level	meter	1.0	2	1.5	1	1	1
7	Status of Tide	--	Low Tide	Low Tide	High Tide	Low Tide	Low Tide	Low Tide

3B.2 Near QHSE Office

SR. NO.	TEST PARAMETER	UNIT	OBSERVATION					
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/21	17/05/21	22/06/21	29/07/21	12/08/21	14/09/21
1	Temperature	°C	30.9	30.5	30.3	30	30.5	30
2	pH	--	8.59	8.46	8.23	8.41	8.46	8.12
3	Total Dissolved Solids	mg/L	2017	1957	974	803	1812	984
4	Salinity	ppt	0.36	0.33	0.205	0.191	0.36	0.148
5	Chloride as Cl	mg/L	199	182	114	106	198	81.97
6	Depth of Water Level from Ground Level	meter	1.5	2	1.0	1	1.5	1.5
7	Status of Tide	--	Low Tide	Low Tide	High Tide	Low Tide	Low Tide	Low Tide

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

Table No.: 3C.1 - Sea Water (Surface & Bottom) Quality Analysis Results of sea water south side for the period April-21 to September-21:-

Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE											
			Apr-21		May-21		Jun-21		Jul-21		Aug-21		Sep-21	
			26/04/2021		21/05/2021		22/06/2021		29/07/2021		11/08/2021		14/09/2021	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.99	7.81	8.13	8.07	8.12	8.07	8.05	7.99	7.98	7.9	7.90	8.02
2	Temperature	°C	30.4	30.1	30.6	30.4	30.3	30.1	29.8	29.6	29.7	29.5	29.8	29.7
3	Total Suspended Solids	mg/L	368	332	329	312	342	358	304	312	273	304	269	286
4	BOD (3 Days @ 27 °C)	mg/L	3.7	Not Detected	3.5	Not Detected	2.7	Not Detected	2.5	Not Detected	2.9	Not Detected	2.6	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.6	5.9	5.7	5.8	5.7	5.9	5.6	6	5.7	5.9	5.8
6	Salinity	ppt	33.8	34.3	32.5	32.9	31.4	31.9	31.1	31.5	29.72	30.14	29.60	30.28
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	2.49	2.20	3.38	3.19	2.38	2.29	2.75	2.63	2.39	2.41	2.48	2.35
9	Nitrite as NO ₂	µmol/L	1.58	1.28	0.92	0.75	0.67	0.51	0.37	0.56	0.58	0.69	1.85	1.46
10	Ammonical Nitrogen NH ₃	µmol/L	2.47	2.43	2.27	1.98	2.19	1.87	1.95	1.84	1.73	1.54	0.71	0.58
11	Phosphates as PO ₄	µmol/L	3.23	2.29	3.14	2.87	2.63	2.41	2.31	2.19	2.3	2.49	2.90	2.23
12	Total Nitrogen	µmol/L	6.54	5.91	6.57	5.92	5.24	4.67	5.07	5.03	4.7	4.64	5.04	4.39
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	35568	35974	34298	34672	33246	33769	32498	32869	31689	32064	31564	32180
15	COD	mg/L	23.4	18.4	21.5	19.3	18.9	Not Detected	17.3	Not Detected	16.8	19.2	12.94	10.4
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.83	2.40	2.7	2.04	2.79	2.38	2.67	2.36	2.48	2.33	2.60	2.38
16.2	Phaeophytin	mg/m ³	0.22	0.05	0.35	0.65	0.41	0.25	0.4	0.12	0.58	0.15	0.46	0.10
16.3	Cell Count	Unit x 10 ³ /L	142	118	154	102	146	98	184	126	156	102	172	112
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Rhizosolenia sp. Thalassiosira sp. Scenedesmus sp.	Nitzschia sp. Navicula sp. Synechocystis sp. Melosira sp.	Coscinodiscus sp. Thalassiosira sp. Asterionella sp. Biddulphia sp. Synedra sp.	Nitzschia sp. Navicula sp. Bacillaria sp. Pinnularia sp.	Coscinodiscus sp. Asterionella sp. Skeletonema sp. Rhizosolenia sp.	Nitzschia sp. Navicula sp. Pleurosigma sp. Synedra sp.	Cyclotella sp. Navicula sp. Thalassiosira sp. Rhizosolenia sp.	Pleurosigma sp. Nitzschia sp. Thalassiosira sp. Synedra sp.	Nitzschia sp. Coscinodiscus sp. Melosira sp. Skeletonema sp.	Navicula sp. Asterionella sp. Synedra sp. Thalassiosira sp.	Rhizosolenia sp. Skeletonema sp. Thalassiosira sp. Coscinodiscus sp.	Biddulphia sp. Rhizosolenia sp. Thalassiosira sp. Nitzschia sp. Synedra sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS SEA WATER SOUTH SIDE					
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/2021	21/05/2021	22/06/2021	29/07/2021	11/08/2021	14/09/2021
			South Side	South Side	South Side	South Side	South Side	South Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	33	28	21	29	27	24
17.2	Name of Group Number and name of group species of each group	--	Nauplius larvae Cyclops Polychaetes Ostracods	Decapods Copepods Molluscans Mysids	Nauplius larvae Polychaetes Cyclops Mysids	Chaetognaths Amphipods Polychaetes	Nauplius larvae Cyclops Bivalves Polychaetes	Polychaetes Decapods Nauplius larvae Cyclops
17.3	Total Biomass	ml/100 m ³	3.1	2.65	2.15	2.85	2.6	2.1
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2490	2420	2570	2460	2610	2710
18.2	Total Coliform	/ml	Present	Present	Present	Present	Present	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present	Present	Present	Present	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 April-21 to September-21:-

SR. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS NORTH SIDE											
			Apr-21		May-21		Jun-21		Jul-21		Aug-21		Sep-21	
			26/04/2021		21/05/2021		22/06/2021		29/07/2021		11/08/2021		14/09/2021	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.93	7.78	8.19	8.12	8.14	8.11	8.06	8.01	7.96	7.89	8.01	8.10
2	Temperature	°C	30.5	30.2	30.6	30.3	30.2	30.1	29.7	29.6	29.8	29.6	29.8	29.7
3	Total Suspended Solids	mg/L	390	328	371	339	365	349	312	327	289	301	269	280
4	BOD (3 Days @ 27 °C)	mg/L	3.6	Not Detected	3.3	Not Detected	2.9	Not Detected	2.6	Not Detected	2.3	Not Detected	2.5	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.7	5.9	5.7	5.8	5.7	5.9	5.8	6	5.72	5.9	5.7
6	Salinity	ppt	33.7	34.2	32.4	32.7	31.7	32.1	31.2	31.5	29.8	30.28	30.86	31.24
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	2.52	2.23	3.27	3.16	2.85	2.76	2.71	2.51	2.27	2.38	2.59	2.47
9	Nitrite as NO ₂	µmol/L	1.40	1.18	0.91	0.78	0.69	0.58	0.39	0.47	0.48	0.54	2.23	1.26
10	Ammonical Nitrogen as NH ₃	µmol/L	2.58	2.43	2.35	2.31	2.17	2.09	1.86	1.79	1.67	1.48	0.61	0.52
11	Phosphates as PO ₄	µmol/L	2.52	2.26	2.89	2.68	2.54	2.37	2.27	2.18	2.19	2.35	3.31	2.85
12	Total Nitrogen	µmol/L	6.50	5.84	6.53	6.25	5.71	5.43	4.96	4.77	4.42	4.4	5.43	4.25
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	35406	35784	34196	34472	33529	33964	32564	32892	31764	32186	32730	33102
15	COD	mg/L	26.2	19.2	21.8	18.3	19.4	Not Detected	17.8	Not Detected	14.2	12.6	12.76	10.9
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.69	2.38	2.8	2.12	2.70	2.24	2.58	2.34	2.45	2.38	2.49	2.41
16.2	Phaeophytin	mg/m ³	0.59	0.53	0.39	0.51	0.35	0.45	0.41	0.29	0.54	0.25	0.50	0.22
16.3	Cell Count	Unit x 10 ³ /L	162	108	146	98	154	118	172	116	148	96	168	106
16.4	Name of Group Number and name of group species of each group	--	Thalassiosira sp. Rhizosolenia sp. Scenedesmus sp. Asterionella sp.	Nitzschia sp. Navicula sp. Synedra sp. Chaetoceros sp.	Biddulphia sp. Melosira sp. Rhizosolenia sp. Thalassionema sp.	Nitzschia sp. Asterionella sp. Fragillaria sp. Ceratiolum sp.	Asterionella sp. Coscino discus sp. Nitzschia sp. Clostridium sp.	Navicula sp. Synedra sp. Pleurosigma sp.	Biddulphia sp. Thalassionema sp. Rhizosolenia sp. Pleurosigma sp.	Amphora sp. Navicula sp. Nitzschia sp. Melosira sp.	Skeletonema sp. Pleurosigma sp. Biddulphia sp. Chaetoceros sp.	Nitzschia sp. Synedra sp. Thalassionema sp.	Coscino discus sp. Pleurosigma sp. Skeletonema sp. Melosira sp.	Nitzschia sp. Biddulphia sp. Rhizosolenia sp. Synedra sp.

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Sr. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSISNORTH SIDE					
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/2021	21/05/2021	22/06/2021	29/07/2021	11/08/2021	14/09/2021
			North Side	North Side	North Side	North Side	North Side	North Side
B	Zooplanktons							
17.1	Abundance (Population)	noX10 ³ /100m ³	34	30	23	31	26	23
17.2	Name of Group Number and name of group species of each group	--	Polychaetes Ostracods Gastropods	Amphipods Copepods Molluscans Mysids	Nauplius larvae Cyclops Colpoda sp.	Copepods Decapods Polychaetes	Bivalves Polychaetes Ostracods	Polychaetes Bivalves Copepods
17.3	Total Biomass	ml/100 m ³	3.35	2.7	2.05	2.95	2.45	2.15
C	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/ml	2190	2250	2610	2730	2650	2560
18.2	Total Coliform	/ml	Present	Present	Present	Present	Present	Present
18.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
18.4	Enterococcus species	/ml	Present	Present	Present	Present	Present	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 April-21 to September-21

Sr. No	PARAMETERS	UNIT	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/2021	21/05/2021	22/06/2021	29/07/2021	11/08/2021	14/09/2021
1	Organic Matter	%	0.49	0.41	0.47	0.458	0.49	0.41
2	Phosphorus as P	µg/g	706	532	639	512	658	613
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	%	4.58	4.39	4.93	4.29	4.81	4.73
5.2	Total Chromium as Cr ⁺³	µg/g	132	105	118	107	129	112
5.3	Manganese as Mn	µg/g	539	516	629	592	538	573
5.4	Iron as Fe	%	4.52	4.42	4.83	4.56	4.63	4.59
5.5	Nickel as Ni	µg/g	63	54	51.2	40.72	45.27	32.98
5.6	Copper as Cu	µg/g	35	25	39.6	29.8	31.8	29.4
5.7	Zinc as Zn	µg/g	130	112	128	112	149	118
5.8	Lead as Pb	µg/g	3.14	3.69	2.17	3.19	2.56	2.28
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 Bivalves Echinoderms	Annelids Echinoderms Colenterates	Echinoderms Gastropoda	Polychaetes Gastropoda Crustaceans	Coelenterates Molluscs Polychaetes	Molluscs Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Copepods	Nematodes	Nematodes	Foraminiferans	Nematodes	Nematodes
6.3	Population	no/m ²	353	265	235	440	324	265

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: April-21 to September-21:-

Sr. No..	PARAMETERS	UNIT	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/2021	21/05/2021	22/06/2021	29/07/2021	11/08/2021	14/09/2021
1	Organic Matter	%	0.51	0.43	0.49	0.45	0.42	0.38
2	Phosphorus as P	mg/kg	713	529	613	539	638	572
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	%	4.56	4.4	4.91	4.32	4.92	4.80
5.2	Total Chromium as Cr ⁺³	mg/kg	149	112	138	105	132	113
5.3	Manganese as Mn	mg/kg	558	523	609	584	514	608
5.4	Iron as Fe	%	4.49	4.5	4.73	4.42	4.8	4.67
5.5	Nickel as Ni	mg/kg	68	56	41.36	37.6	47.92	32.8
5.6	Copper as Cu	mg/kg	37	31	39.8	28.4	31.76	27.4
5.7	Zinc as Zn	mg/kg	159	125	115	106	138	109
5.8	Lead as Pb	mg/kg	3.28	3.47	2.34	3.58	2.75	2.38
5.9	Mercury as Hg	mg/kg	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Ostracods Echinoderms	Amphipoda Echinoderms Gastropoda	Polychaetes Echinoderms Gastropoda	Polychaetes Gastropoda Crustaceans	Annelids Coelenterates Flatworms	Polychaetes Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Foraminiferans	Nematodes	Nematodes	Foraminiferans	Nematodes	Nematodes
6.3	Population	no/m ²	323	294	265	382	352	324

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: April-21 to September-21

Date			May-21	May-21	Aug-21	Aug-21
			17/05/2021	17/05/2021	12/08/2021	12/08/2021
Sr. No.	Test Parameters	Unit	Dump Pond Discharge -J3	Dump Pond Discharge(2)-7A	Dump Pond Discharge -J3	Dump Pond Discharge(2)-J8
1.	pH	--	8.64	8.56	8.63	8.71
2.	Total Dissolved Solids	mg/L	1278	1974	1693	1906
3.	Total Suspended Solids	mg/L	15	36	27	31
4.	Turbidity	NTU	2.3	2.83	2.45	3.1
5.	BOD (3 Days @ 27 °C)	mg/L	14.2	15.4	7.8	10.1
6.	Dissolved Oxygen	mg/L	6.1	6	5.8	6.2
7.	COD	mg/L	65	77	56	62
8.	Salinity	ppt	0.225	0.267	0.318	0.331
9.	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10.	Total Hardness as CaCO ₃	mg/L	570	586	604	712
11.	Fluoride as F	mg/L	0.36	0.41	0.45	0.52
12.	Chloride as Cl	mg/L	125	148	177	184
13.	Zinc as Zn	mg/L	0.2	0.25	0.15	0.21
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

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: APRIL-21 TO SEPTEMBER-21

SR. NO.	TEST PARAMETERS	UNIT	STP Treated Water Quality Analysis Results					
			Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21
			26/04/2021	21/05/2021	22/06/2021	29/07/2021	11/08/2021	14/09/2021
1.	pH	--	7.01	7.19	7.47	7.28	7.46	7.78
2.	Total Suspended Solids	mg/L	23	15	28	19	21	23
3.	BOD (3 Days @ 27 °C)	mg/L	11.8	9.7	10	12	16	14
4.	Residual Free Chlorine	mg/L	0.6	0.8	0.7	0.8	0.8	0.7
5.	Oil & Grease	mg/L	5.8	4.5	3.8	3.1	5	3.9

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 April-21 to September-21

Sampling Location	1 - Behind QHSE Office					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	01/04/2021	03/05/2021	01/06/2021	01/07/2021	02/08/2021	01/09/2021
6:00-7:00	56.4	52.8	51.6	70.6	68.8	58.5
7:00-8:00	55.3	59.2	55.8	67.2	67.1	65.3
8:00-9:00	47.5	52.5	49.2	65.4	69.5	70.5
9:00-10:00	52.0	50.7	65.5	64.3	61.6	67.8
10:00-11:00	46.8	51.8	48.8	56.9	56.9	65.2
11:00-12:00	54.2	48.9	55.6	55.7	72.7	63.9
12:00-13:00	61.3	55.0	56.8	62.3	65.4	68.4
13:00-14:00	44.9	55.4	50.6	67.3	65.6	61.5
14:00-15:00	53.4	62.1	64.8	51.4	62.3	64.3
15:00-16:00	55.1	52.2	60.3	58.6	68.5	66.2
16:00-17:00	48.5	57.4	59.1	62.2	70.2	69.5
17:00-18:00	49.2	51.5	66.1	60.2	63.1	67.1
18:00-19:00	61.1	50.2	56.7	63.3	72.0	61.9
19:00-20:00	51.2	52.3	62.4	66.7	70.4	64.4
20:00-21:00	54.1	60.0	56.5	69.4	64.4	62.7
21:00-22:00	64.1	48.8	54.2	57.2	69.1	59.4

Sampling Location	1 - Behind QHSE Office					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	01/04/2021 & 02/04/2021	03/05/2021 & 04/05/2021	01/06/2021 & 02/06/2021	01/07/2021 & 02/07/2021	02/08/2021 & 03/08/2021	01/09/2021 & 02/09/2021
22:00-23:00	51.4	58.3	49.3	45.2	45.6	61.3
23:00-00:00	52.1	50.5	52.2	41.6	42.4	47.5
00:00-01:00	49.5	47.1	58.4	49.3	36.6	44.9
01:00-02:00	58.3	54.5	45.8	40.1	53.4	53.4
02:00-03:00	44.9	49.1	50.2	37.5	50.6	41.5
03:00-04:00	51.2	55.2	56.5	44.5	59.7	50.3
04:00-05:00	58.7	50.6	51.5	42.2	46.5	56.4
05:00-06:00	50.1	51.7	48.7	45.6	39.5	45.1

*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 -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 April-21 to September-21

Sampling Location	2 - PMC Office Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	02/04/2021	04/05/2021	02/06/2021	02/07/2021	03/08/2021	02/09/2021
6:00-7:00	46.1	61.5	66.2	58.1	65.9	55.2
7:00-8:00	58.1	48.3	62.2	64.2	69.8	55.3
8:00-9:00	59.1	44.8	62.3	59.2	65.7	68.5
9:00-10:00	47.2	57.5	47.8	56.3	62.8	72.2
10:00-11:00	50.3	57.3	57.3	52.3	63.4	56.3
11:00-12:00	54.2	55.2	61.1	69.5	66.8	65.4
12:00-13:00	48.9	54.4	68.2	61.2	70.8	62.8
13:00-14:00	49.5	49.1	57.2	66.8	67.5	55.9
14:00-15:00	51.1	73.4	52.3	60.3	69.6	63.2
15:00-16:00	56.2	61.0	50.8	53.2	62.5	70.3
16:00-17:00	56.1	47.2	52.9	58.4	71.2	59.5
17:00-18:00	50.0	55.3	58.3	52.9	69.2	53.4
18:00-19:00	58.1	58.4	63.2	59.1	68.7	68.2
19:00-20:00	47.1	47.8	52.2	65.2	69.7	66.4
20:00-21:00	60.1	46.1	56.9	70.2	66.6	57.4
21:00-22:00	52.1	53.2	55.2	62.7	65.5	61.4

Sampling Location	2 - PMC Office Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	02/04/2021 & 03/04/2021	04/05/2021 & 05/05/2021	02/06/2021 & 03/06/2021	02/07/2021 & 03/07/2021	03/08/2021 & 04/08/2021	02/09/2021 & 03/09/2021
22:00-23:00	56.9	45.5	62.2	42.6	45.5	65.1
23:00-00:00	49.3	62.4	58.5	43.3	41.2	68.1
00:00-01:00	52.0	53.5	53.2	47.5	38.6	42.9
01:00-02:00	45.6	57.5	55.3	48.5	45.3	46.4
02:00-03:00	53.3	44.5	47.5	46.8	49.3	54.6
03:00-04:00	51.7	51.1	57.1	40.9	41.7	62.1
04:00-05:00	55.3	57.8	47.8	52.2	45.4	43.6
05:00-06:00	49.4	41.2	59.6	48.3	42.7	41.1

*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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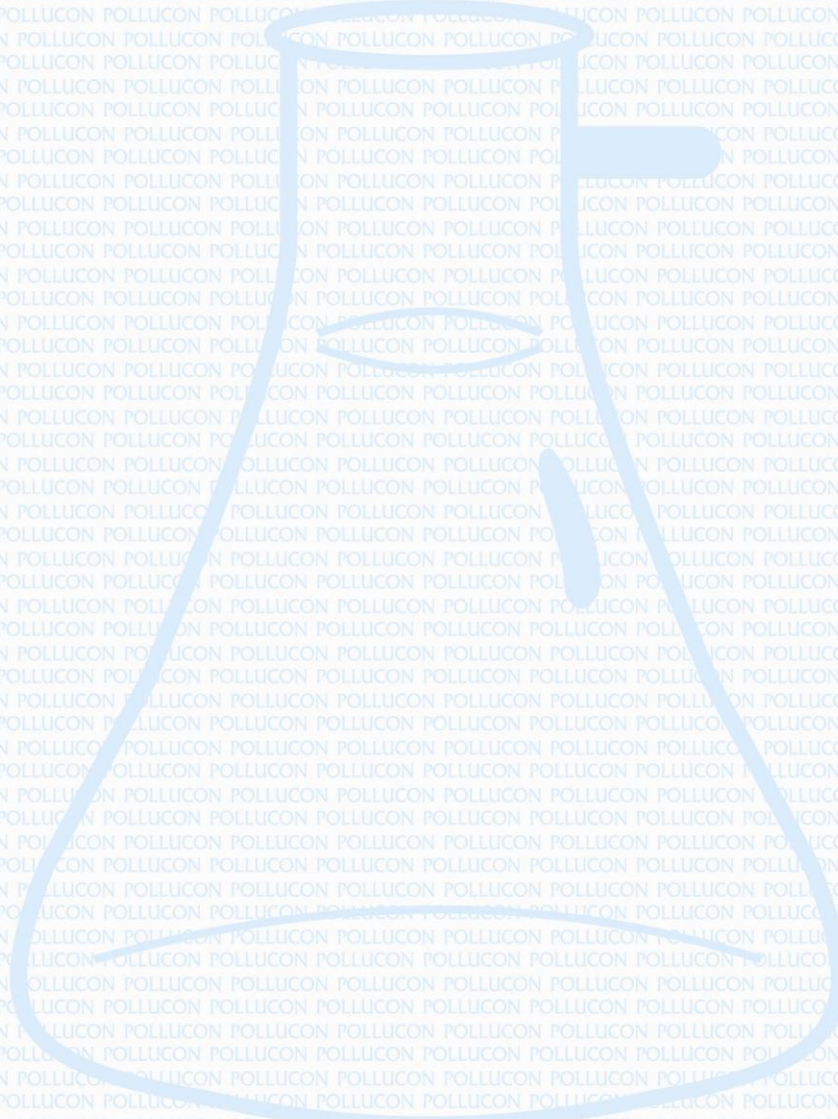
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Tables - 3 - Sub Station - 6 Back Side Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	3 - Sub Station - 6 Back Side					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	03/04/2021	05/05/2021	03/06/2021	03/07/2021	04/08/2021	03/09/2021
6:00-7:00	60.9	52.4	60.1	66.9	51.6	56.4
7:00-8:00	58.1	65.8	68.1	70.5	67.6	66.7
8:00-9:00	49.0	58.2	51.8	56.8	64.5	62.3
9:00-10:00	50.3	61.2	69.9	65.0	56.8	71.2
10:00-11:00	58.1	73.1	63.3	63.6	70.3	69.9
11:00-12:00	55.2	62.4	60.4	73.2	69.9	55.4
12:00-13:00	52.9	66.2	58.2	60.5	62.2	64.7
13:00-14:00	48.6	57.1	54.9	65.6	56.5	58.4
14:00-15:00	68.1	69.2	66.6	55.1	63.5	60.8
15:00-16:00	70.1	57.6	54.5	68.4	62.4	59.3
16:00-17:00	57.2	48.2	56.2	61.9	55.8	56.5
17:00-18:00	54.1	49.4	48.9	57.7	72.2	61.3
18:00-19:00	49.9	55.5	65.6	57.8	50.8	60.3
19:00-20:00	58.3	57.2	44.9	59.5	65.3	59.6
20:00-21:00	69.2	65.2	69.8	65.9	57.4	55.1
21:00-22:00	55.4	60.2	70.2	50.9	62.1	59.1

Sampling Location	3 - Sub Station - 6 Back Side					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	03/04/2021 & 04/04/2021	05/05/2021 & 06/05/2021	03/06/2021 & 04/06/2021	03/07/2021 & 04/07/2021	04/08/2021 & 05/08/2021	03/09/2021 & 04/09/2021
22:00-23:00	51.1	62.3	60.5	51.1	54.8	49.8
23:00-00:00	53.4	57.0	56.6	55.4	60.3	51.2
00:00-01:00	56.3	55.1	60.2	44.2	59.5	61.1
01:00-02:00	48.4	58.5	59.5	50.5	63.3	45.9
02:00-03:00	60.5	60.3	55.4	46.5	66.4	50.1
03:00-04:00	50.4	48.1	46.5	45.5	62.2	51.6
04:00-05:00	49.6	44.6	60.4	36.1	50.5	43.7
05:00-06:00	58.1	53.1	40.8	43.2	54.9	40.2

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

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



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Tables - 4 -Sub Station - 8 (Marine Building) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	05/04/2021	06/05/2021	04/06/2021	05/07/2021	05/08/2021	04/09/2021
6:00-7:00	58.2	62.2	53.6	67.6	62.0	65.1
7:00-8:00	47.4	50.5	68.3	63.2	68.9	53.3
8:00-9:00	65.1	58.3	60.2	65.5	58.9	60.1
9:00-10:00	70.1	58.6	62.5	55.4	65.0	62.1
10:00-11:00	60.2	45.1	57.8	68.7	61.1	68.6
11:00-12:00	67.4	53.1	57.1	58.2	72.6	56.2
12:00-13:00	56.2	58.5	54.3	63.1	50.6	70.4
13:00-14:00	55.9	60.3	57.5	69.8	53.1	63.8
14:00-15:00	65.1	67.1	63.1	56.2	55.1	68.1
15:00-16:00	50.4	55.1	59.2	64.6	65.1	57.2
16:00-17:00	55.8	53.8	54.6	54.2	56.4	55.6
17:00-18:00	47.9	62.3	61.2	58.9	57.9	67.4
18:00-19:00	58.1	56.1	51.3	58.7	49.8	58.9
19:00-20:00	69.2	73.3	69.4	55.2	67.8	58.8
20:00-21:00	55.4	59.1	54.8	65.3	64.6	58.2
21:00-22:00	60.1	57.9	53.3	54.6	59.5	65.5

Sampling Location	4 -Sub Station - 8 (Marine Building)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	05/04/2021 & 06/04/2021	06/05/2021 & 07/05/2021	04/06/2021 & 05/06/2021	05/07/2021 & 06/07/2021	05/08/2021 & 06/08/2021	04/09/2021 & 05/09/2021
22:00-23:00	65.1	54.1	39.7	35.8	52.8	61.1
23:00-00:00	57.3	60.4	50.0	42.3	53.7	65.4
00:00-01:00	53.4	51.4	42.3	45.4	47.6	58.1
01:00-02:00	46.7	49.5	56.4	38.9	48.9	57.6
02:00-03:00	57.2	47.5	43.6	47.6	51.4	49.9
03:00-04:00	50.4	49.2	41.1	43.5	56.6	65.1
04:00-05:00	68.1	43.2	44.8	35.2	57.4	47.6
05:00-06:00	69.8	46.7	42.7	45.7	59.6	57.5

[#]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 - 5 - Near Sub Station-7B Ambient Noise Level Monitoring Results during the DayTime and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	5 - Near Sub Station-7B					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	06/04/2021	07/05/2021	05/06/2021	06/07/2021	06/08/2021	06/09/2021
6:00-7:00	57.1	68.1	52.7	68.9	64.3	68.3
7:00-8:00	47.9	45.2	50.3	59.3	58.8	71.1
8:00-9:00	58.2	49.6	61.3	70.1	62.6	65.6
9:00-10:00	50.2	50.3	70.1	64.5	60.2	58.1
10:00-11:00	46.9	58.1	58.1	52.8	69.9	55.8
11:00-12:00	60.1	56.2	55.1	66.6	49.9	57.1
12:00-13:00	47.9	47.6	53.2	61.1	58.1	54.3
13:00-14:00	44.4	51.2	49.8	50.6	67.4	56.1
14:00-15:00	55.2	54.2	45.9	67.1	60.1	63.1
15:00-16:00	58.5	66.1	53.1	46.9	56.3	59.2
16:00-17:00	54.2	49.8	65.1	55.3	66.5	69.8
17:00-18:00	49.6	50.1	61.5	48.7	65.2	61.2
18:00-19:00	59.2	60.1	46.9	65.1	70.1	51.3
19:00-20:00	65.1	70.1	64.3	56.1	54.2	70.1
20:00-21:00	47.7	65.1	62.1	60.1	52.8	54.8
21:00-22:00	50.1	50.4	56.1	53.1	71.5	60.2

Sampling Location	5 - Near Sub Station-7B					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	06/04/2021 & 07/04/2021	07/05/2021 & 08/05/2021	05/06/2021 & 06/06/2021	06/07/2021 & 07/07/2021	06/08/2021 & 07/08/2021	06/09/2021 & 07/09/2021
22:00-23:00	53.2	49.6	51.8	42.8	64.4	60.1
23:00-00:00	63.1	53.3	50.3	44.6	60.5	63.4
00:00-01:00	48.9	44.8	44.7	47.7	55.5	50.0
01:00-02:00	52.4	45.6	40.6	41.0	57.1	58.6
02:00-03:00	60.1	58.9	42.2	43.9	50.7	56.9
03:00-04:00	43.9	60.2	55.1	40.7	59.2	62.4
04:00-05:00	57.1	46.2	39.3	49.5	49.7	55.3
05:00-06:00	49.2	53.2	43.0	46.4	52.9	45.6

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

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



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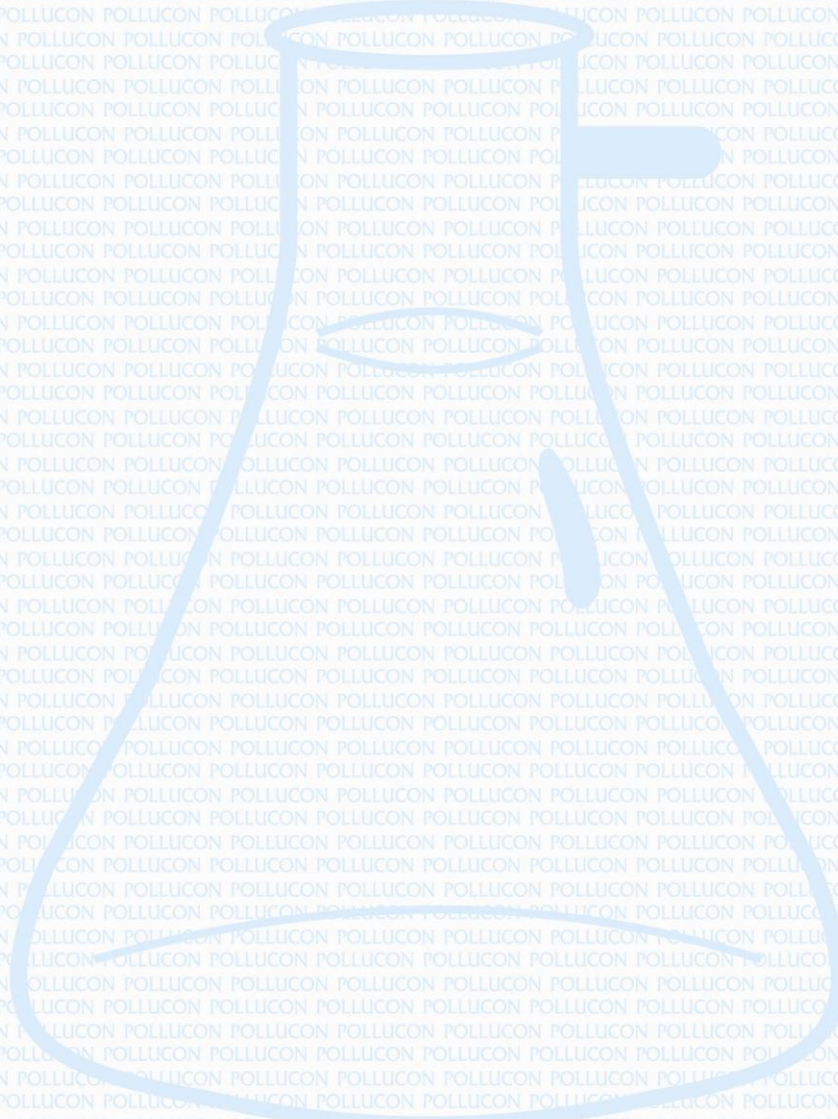
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Tables -6 - JS - 1 (Nr. Lakhigam) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	07/04/2021	08/05/2021	07/06/2021	07/07/2021	07/08/2021	07/09/2021
6:00-7:00	53.2	51.8	58.5	51.6	69.5	70.3
7:00-8:00	50.8	50.1	52.2	66.2	68.1	55.4
8:00-9:00	58.1	62.2	64.2	61.1	57.8	68.2
9:00-10:00	47.7	64.1	66.4	69.4	50.9	65.9
10:00-11:00	49.2	56.2	50.9	70.3	61.2	62.4
11:00-12:00	55.3	52.3	55.5	64.8	57.1	66.8
12:00-13:00	60.1	54.4	53.6	68.3	58.2	68.7
13:00-14:00	47.9	70.2	51.2	56.5	65.3	66.3
14:00-15:00	44.8	65.1	50.5	63.2	63.5	62.2
15:00-16:00	51.1	50.2	56.6	67.7	66.8	63.1
16:00-17:00	57.1	53.1	67.5	55.8	62.7	68.6
17:00-18:00	68.2	54.8	62.1	73.2	65.9	65.3
18:00-19:00	60.1	56.3	56.8	57.4	69.6	70.2
19:00-20:00	48.9	51.4	56.4	64.4	64.5	58.4
20:00-21:00	57.1	56.9	49.8	65.2	71.6	66.7
21:00-22:00	46.9	53.6	53.4	71.6	62.1	69.9

Sampling Location	6 - JS - 1 (Nr. Lakhigam)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	07/04/2021 & 08/04/2021	08/05/2021 & 09/05/2021	07/06/2021 & 08/06/2021	07/07/2021 & 08/07/2021	07/08/2021 & 08/08/2021	07/09/2021 & 08/09/2021
22:00-23:00	50.3	51.0	47.3	45.3	49.6	49.8
23:00-00:00	60.3	68.3	46.7	47.1	51.5	51.2
00:00-01:00	58.2	48.3	58.3	48.2	42.3	58.3
01:00-02:00	54.2	49.3	54.2	44.3	45.8	54.2
02:00-03:00	61.5	55.3	57.6	48.6	50.2	57.6
03:00-04:00	43.9	52.4	47.9	36.4	64.7	47.9
04:00-05:00	60.1	44.7	42.5	38.4	51.9	51.3
05:00-06:00	56.2	46.1	38.5	40.6	57.7	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 -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 April-21 to September-21

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	08/04/2021	10/05/2021	08/06/2021	08/07/2021	09/08/2021	08/09/2021
6:00-7:00	57.1	71.1	65.3	61.4	51.6	56.1
7:00-8:00	58.2	62.3	68.4	57.6	60.3	58.2
8:00-9:00	60.1	48.3	59.6	49.3	55.8	60.1
9:00-10:00	47.9	58.2	62.2	62.2	61.4	70.1
10:00-11:00	50.9	55.5	55.8	59.5	65.7	56.8
11:00-12:00	58.1	61.5	63.2	61.8	63.6	65.7
12:00-13:00	55.6	66.2	72.5	56.4	63.2	61.3
13:00-14:00	57.1	56.5	52.9	66.3	61.6	67.8
14:00-15:00	49.6	57.4	58.1	51.9	69.2	51.3
15:00-16:00	60.1	57.1	56.2	50.8	58.8	54.3
16:00-17:00	65.2	45.5	62.3	59.4	54.2	60.2
17:00-18:00	48.9	50.7	57.4	65.1	55.7	64.5
18:00-19:00	50.4	73.1	65.2	41.9	62.9	57.2
19:00-20:00	68.1	69.2	71.1	70.2	60.2	68.1
20:00-21:00	45.9	52.1	58.3	63.1	64.8	56.3
21:00-22:00	50.8	53.3	61.3	46.9	66.6	69.4

Sampling Location	7 - Behind S.S. - 11 (Silo)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	08/04/2021 & 09/04/2021	10/05/2021 & 11/05/2021	08/06/2021 & 09/06/2021	08/07/2021 & 09/07/2021	09/08/2021 & 10/08/2021	08/09/2021 & 09/09/2021
22:00-23:00	61.1	56.3	55.2	52.8	53.6	46.3
23:00-00:00	58.2	56.4	54.4	53.5	52.3	50.8
00:00-01:00	42.6	61.3	41.4	39.6	47.8	61.1
01:00-02:00	61.2	44.4	45.3	45.8	46.8	51.3
02:00-03:00	57.8	65.5	40.2	51.5	57.3	55.1
03:00-04:00	56.2	51.3	51.3	46.6	55.3	47.3
04:00-05:00	60.7	43.1	50.8	44.4	61.4	58.1
05:00-06:00	54.9	52.6	56.1	50.2	64.6	50.9

*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 - 8 –Nr. S&S Entry Gate (Dahej Road) & Silo Loading Point Ambient Noise Level Monitoring Results during the DayTime and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	8 - Silo Loading Point					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	09/04/2021	11/05/2021	09/06/2021	09/07/2021	10/08/2021	09/09/2021
6:00-7:00	61.2	60.1	69.2	69.9	59.9	58.5
7:00-8:00	65.1	65.2	66.2	59.2	67.7	49.3
8:00-9:00	68.1	59.1	63.3	57.2	56.7	61.1
9:00-10:00	50.3	57.2	57.6	56.8	65.0	57.4
10:00-11:00	56.2	58.4	65.4	64.5	61.1	45.9
11:00-12:00	58.1	51.9	59.3	55.4	72.2	55.6
12:00-13:00	68.4	50.9	56.9	60.8	70.6	50.3
13:00-14:00	57.1	51.3	55.3	58.4	64.2	51.2
14:00-15:00	69.4	54.1	50.1	59.1	55.1	68.5
15:00-16:00	62.0	61.4	53.3	61.3	65.1	59.9
16:00-17:00	47.8	69.3	64.1	56.7	65.5	59.2
17:00-18:00	51.2	59.3	60.5	69.2	57.9	54.5
18:00-19:00	63.1	56.4	44.8	57.5	68.7	56.4
19:00-20:00	49.9	48.8	69.1	59.3	64.4	71.3
20:00-21:00	56.2	61.3	61.9	55.3	67.8	64.2
21:00-22:00	66.1	60.2	56.5	70.4	66.5	59.4

Sampling Location	8 - Silo Loading Point					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	09/04/2021 & 10/04/2021	11/05/2021 & 12/05/2021	09/06/2021 & 10/06/2021	09/07/2021 & 10/07/2021	10/08/2021 & 11/08/2021	09/09/2021 & 10/09/2021
22:00-23:00	53.4	51.5	57.2	54.5	54.6	56.2
23:00-00:00	54.8	54.4	54.6	60.2	56.8	61.2
00:00-01:00	46.3	45.7	42.8	59.2	66.5	68.2
01:00-02:00	60.2	56.6	53.6	55.5	51.2	58.2
02:00-03:00	54.8	50.7	55.7	59.6	54.5	60.1
03:00-04:00	60.0	48.6	41.0	52.6	52.1	44.8
04:00-05:00	58.1	46.5	48.6	50.6	50.3	55.2
05:00-06:00	47.9	47.8	49.2	53.8	56.9	59.1

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

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



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Tables -9 - GCPTL Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	9 - GCPTL Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	10/04/2021	12/05/2021	10/06/2021	10/07/2021	11/08/2021	10/09/2021
6:00-7:00	56.1	61.7	60.4	62.4	53.1	51.6
7:00-8:00	60.1	65.5	58.2	68.1	60.1	55.8
8:00-9:00	46.9	62.1	62.8	57.8	59.4	55.3
9:00-10:00	50.6	56.1	71.2	59.9	56.3	61.2
10:00-11:00	56.2	62.4	65.5	61.2	52.3	65.8
11:00-12:00	54.1	69.1	50.3	57.1	70.1	62.7
12:00-13:00	70.1	57.3	59.1	58.2	56.1	69.8
13:00-14:00	59.2	65.3	59.8	53.2	44.8	50.6
14:00-15:00	48.9	61.1	51.3	51.8	55.3	66.4
15:00-16:00	49.2	55.3	54.3	53.1	53.2	58.1
16:00-17:00	61.1	53.2	61.2	54.7	56.2	59.1
17:00-18:00	65.1	61.6	52.3	58.9	58.9	65.1
18:00-19:00	63.1	46.8	57.2	68.2	59.1	63.2
19:00-20:00	55.2	60.3	49.9	71.3	65.2	66.6
20:00-21:00	47.9	60.5	56.3	69.5	70.2	56.5
21:00-22:00	46.8	62.6	59.2	62.1	59.3	66.1

Sampling Location	9 - GCPTL Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	10/04/2021 & 11/04/2021	12/05/2021 & 13/05/2021	10/06/2021 & 11/06/2021	10/07/2021 & 11/07/2021	11/08/2021 & 12/08/2021	10/09/2021 & 11/09/2021
22:00-23:00	55.2	48.4	59.3	57.2	52.5	46.3
23:00-00:00	51.8	61.4	51.1	49.2	58.4	50.8
00:00-01:00	60.1	49.7	47.6	55.3	47.7	61.1
01:00-02:00	67.2	51.6	44.4	56.3	51.6	51.3
02:00-03:00	45.5	65.6	47.1	54.4	49.2	65.1
03:00-04:00	47.8	45.2	40.5	54.3	44.7	47.3
04:00-05:00	55.6	56.5	50.5	41.1	53.2	58.4
05:00-06:00	57.1	47.2	44.2	46.2	51.7	50.6

[#]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 - 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 April-21 to September-21

Sampling Location	10 - Lakhi Village (Primary School)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	12/04/2021	13/05/2021	11/06/2021	12/07/2021	12/08/2021	11/09/2021
6:00-7:00	60.1	54.2	53.1	54.0	49.9	50.1
7:00-8:00	57.2	58.1	55.4	58.8	59.2	48.1
8:00-9:00	47.9	47.4	60.1	55.1	57.2	51.8
9:00-10:00	60.2	54.3	66.9	67.5	44.9	64.0
10:00-11:00	65.1	61.2	68.2	69.7	53.1	51.2
11:00-12:00	68.4	70.1	61.1	64.1	55.4	64.3
12:00-13:00	55.1	62.5	66.5	58.1	48.9	48.2
13:00-14:00	56.2	50.3	56.1	63.0	50.3	55.7
14:00-15:00	48.9	55.2	50.4	60.1	55.6	62.9
15:00-16:00	50.4	48.4	46.8	56.3	51.3	52.1
16:00-17:00	60.1	49.2	65.1	67.4	54.3	53.1
17:00-18:00	56.2	52.6	64.3	65.2	55.1	56.2
18:00-19:00	51.8	51.2	53.2	70.1	48.3	60.6
19:00-20:00	50.1	58.3	45.9	61.6	49.6	45.1
20:00-21:00	57.1	59.2	62.4	52.8	42.6	54.4
21:00-22:00	56.2	49.8	54.5	69.6	72.0	60.9

Sampling Location	10 - Lakhi Village (Primary School)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	12/04/2021 & 13/04/2021	13/05/2021 & 14/05/2021	11/06/2021 & 12/06/2021	12/07/2021 & 13/07/2021	12/08/2021 & 13/08/2021	11/09/2021 & 12/09/2021
22:00-23:00	60.1	48.8	46.3	57.5	43.1	43.2
23:00-00:00	42.9	56.8	50.7	58.5	42.1	42.2
00:00-01:00	50.4	54.6	47.7	60.4	43.2	42.0
01:00-02:00	58.2	46.9	49.5	53.4	44.2	41.8
02:00-03:00	47.1	56.0	58.6	59.7	42.5	40.1
03:00-04:00	61.1	52.1	45.2	51.0	45.1	43.7
04:00-05:00	50.2	62.6	58.1	57.3	45.9	43.9
05:00-06:00	57.4	65.3	50.9	54.8	46.6	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 -11 - ERMS Workshop Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	11 - ERMS Workshop					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	13/04/2021	14/05/2021	12/06/2021	13/07/2021	13/08/2021	13/09/2021
6:00-7:00	46.1	61.1	56.5	69.5	51.6	52.9
7:00-8:00	58.1	58.5	64.4	55.4	55.8	50.3
8:00-9:00	65.2	56.3	62.2	63.3	66.6	61.3
9:00-10:00	50.1	51.1	68.4	52.9	60.1	70.1
10:00-11:00	57.7	53.2	60.2	54.4	48.8	58.1
11:00-12:00	47.4	61.5	55.6	62.5	55.6	55.1
12:00-13:00	47.5	52.2	61.1	57.8	67.4	53.2
13:00-14:00	60.1	56.5	64.5	62.4	71.3	49.8
14:00-15:00	47.8	59.3	53.2	62.3	58.8	66.9
15:00-16:00	46.9	71.1	69.4	46.8	58.1	53.1
16:00-17:00	45.9	70.3	49.8	64.5	54.1	65.1
17:00-18:00	67.3	60.2	51.9	65.7	65.1	56.1
18:00-19:00	46.8	50.5	57.4	69.2	67.5	55.9
19:00-20:00	48.9	57.1	54.1	53.2	53.1	64.3
20:00-21:00	50.3	54.3	62.1	60.5	56.1	62.1
21:00-22:00	61.1	60.3	65.2	58.4	65.2	56.4

Sampling Location	11 - ERMS Workshop					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	13/04/2021 & 14/04/2021	14/05/2021 & 15/05/2021	12/06/2021 & 13/06/2021	13/07/2021 & 14/07/2021	13/08/2021 & 14/08/2021	13/09/2021 & 14/09/2021
22:00-23:00	51.0	51.2	46.2	46.3	49.1	40.5
23:00-00:00	51.1	54.3	58.7	42.4	53.5	62.3
00:00-01:00	55.1	59.2	49.4	56.5	60.7	60.6
01:00-02:00	49.9	58.8	53.4	52.7	54.2	56.3
02:00-03:00	57.9	49.7	44.5	45.1	57.5	64.9
03:00-04:00	67.1	46.6	47.2	47.3	47.1	54.5
04:00-05:00	44.2	43.3	39.6	55.6	52.2	63.2
05:00-06:00	57.7	57.3	52.4	50.9	50.4	55.1

[#]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 - 12 - Behind Pump House Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	12 - Behind Pump House					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	14/04/2021	15/05/2021	14/06/2021	14/07/2021	14/08/2021	14/09/2021
6:00-7:00	46.9	55.2	54.6	72.3	73.1	61.1
7:00-8:00	57.2	56.7	61.2	70.2	58.2	70.1
8:00-9:00	65.1	50.4	66.3	68.6	57.1	59.2
9:00-10:00	55.2	65.2	58.6	61.3	62.3	58.1
10:00-11:00	47.6	69.1	63.2	65.5	56.2	55.8
11:00-12:00	57.1	57.3	57.1	57.3	64.1	60.1
12:00-13:00	68.4	50.3	68.9	66.5	68.1	70.6
13:00-14:00	57.1	61.3	68.1	55.3	57.2	49.9
14:00-15:00	63.1	49.1	54.5	58.6	51.3	63.1
15:00-16:00	59.2	58.3	65.4	53.3	56.6	56.2
16:00-17:00	63.1	57.4	69.1	69.3	46.9	66.7
17:00-18:00	47.9	47.9	64.1	67.4	63.2	56.3
18:00-19:00	59.1	46.4	56.2	58.8	55.2	65.1
19:00-20:00	56.2	70.4	53.3	68.8	60.4	70.2
20:00-21:00	50.1	50.2	60.5	54.6	65.5	56.7
21:00-22:00	43.3	52.4	56.6	62.6	53.2	52.8

Sampling Location	12 - Behind Pump House					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	14/04/2021 & 15/04/2021	15/05/2021 & 16/05/2021	14/06/2021 & 15/06/2021	14/07/2021 & 15/07/2021	14/08/2021 & 15/08/2021	14/09/2021 & 15/09/2021
22:00-23:00	53.2	67.1	37.2	54.7	59.8	49.5
23:00-00:00	68.1	48.9	52.7	51.4	49.4	45.7
00:00-01:00	61.2	50.0	58.2	59.5	66.2	41.2
01:00-02:00	57.8	62.7	56.3	54.1	58.9	56.6
02:00-03:00	47.9	45.3	60.1	60.5	60.8	53.3
03:00-04:00	56.2	59.5	54.3	52.1	43.5	51.0
04:00-05:00	54.9	57.6	53.1	57.4	46.6	48.9
05:00-06:00	40.9	55.5	49.6	56.1	43.3	63.3

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

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



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Tables - 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 April-21 to September-21

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	15/04/2021	26/05/2021	15/06/2021	15/07/2021	16/08/2021	15/09/2021
6:00-7:00	62.2	73.2	55.3	56.1	62.4	51.6
7:00-8:00	60.1	69.2	63.3	58.2	69.3	55.4
8:00-9:00	65.3	51.3	68.3	67.7	51.8	60.1
9:00-10:00	57.1	58.4	68.0	65.2	50.9	47.9
10:00-11:00	45.9	57.2	58.8	59.5	61.2	61.1
11:00-12:00	66.1	48.6	51.2	59.4	58.3	70.1
12:00-13:00	46.8	55.3	59.3	61.5	68.2	56.1
13:00-14:00	70.1	60.5	51.3	56.8	49.9	50.4
14:00-15:00	46.9	50.8	66.1	52.4	66.8	54.3
15:00-16:00	50.4	51.2	54.3	55.6	59.3	58.7
16:00-17:00	65.1	64.1	64.6	61.2	63.5	65.1
17:00-18:00	60.1	59.2	60.8	53.6	66.7	70.2
18:00-19:00	51.2	56.1	55.7	63.4	65.8	53.2
19:00-20:00	52.0	53.5	67.1	55.7	63.6	62.4
20:00-21:00	69.4	68.2	58.3	66.3	69.5	67.5
21:00-22:00	57.4	55.6	59.1	59.2	70.2	69.9

Sampling Location	13 - Rock Bond Approach (Jetty)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	15/04/2021 & 16/04/2021	26/05/2021 & 27/05/2021	15/06/2021 & 16/06/2021	15/07/2021 & 16/07/2021	16/08/2021 & 17/08/2021	15/09/2021 & 16/09/2021
22:00-23:00	60.2	51.9	45.4	52.5	54.1	63.1
23:00-00:00	54.8	58.7	54.1	42.5	56.7	58.8
00:00-01:00	54.8	54.7	52.6	46.1	52.0	59.4
01:00-02:00	60.0	47.9	54.0	49.7	58.3	62.2
02:00-03:00	54.9	53.4	66.4	50.8	53.1	43.8
03:00-04:00	45.8	55.9	42.6	46.7	59.3	44.5
04:00-05:00	54.8	47.4	50.4	53.3	48.2	60.4
05:00-06:00	47.7	42.2	54.8	44.1	60.2	57.2

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

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



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Tables -14 - New Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	14 - New Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	16/04/2021	27/05/2021	16/06/2021	16/07/2021	17/08/2021	16/09/2021
6:00-7:00	57.1	63.1	61.4	64.4	50.3	71.1
7:00-8:00	58.1	57.5	57.6	69.4	70.1	58.2
8:00-9:00	47.4	56.4	56.9	59.6	60.2	57.1
9:00-10:00	55.2	48.2	58.2	63.1	58.5	47.8
10:00-11:00	58.3	55.4	59.5	61.4	69.2	56.2
11:00-12:00	60.1	62.1	54.2	64.2	57.3	61.1
12:00-13:00	68.4	67.4	48.8	68.5	54.3	68.1
13:00-14:00	57.4	68.3	44.9	58.3	56.5	57.2
14:00-15:00	46.9	49.2	51.4	62.1	63.1	58.7
15:00-16:00	62.0	62.3	50.8	56.2	59.2	50.3
16:00-17:00	70.2	65.4	55.4	60.7	67.9	62.8
17:00-18:00	65.1	55.1	66.6	65.6	66.5	53.1
18:00-19:00	48.9	58.6	62.3	72.8	56.8	55.2
19:00-20:00	60.2	50.0	67.4	70.1	70.3	60.3
20:00-21:00	55.1	70.5	66.2	67.2	54.8	62.5
21:00-22:00	59.6	68.4	58.4	61.6	67.2	55.3

Sampling Location	14 - New Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	16/04/2021 & 17/04/2021	27/05/2021 & 28/05/2021	16/06/2021 & 17/06/2021	16/07/2021 & 17/07/2021	17/08/2021 & 18/08/2021	16/09/2021 & 17/09/2021
22:00-23:00	68.1	48.7	52.8	47.2	51.8	64.4
23:00-00:00	69.9	58.0	38.3	51.6	50.3	60.3
00:00-01:00	58.1	57.7	39.5	38.6	47.4	46.5
01:00-02:00	54.9	47.3	46.9	45.9	56.4	56.1
02:00-03:00	56.2	50.8	41.5	52.3	46.9	48.6
03:00-04:00	45.4	54.0	42.4	40.5	55.1	55.3
04:00-05:00	58.2	53.7	54.7	45.0	61.1	49.7
05:00-06:00	56.2	55.7	40.7	49.6	42.2	46.7

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

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



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Tables - 15 - Security Barrier Gate Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	15 - Security Barrier Gate					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	17/04/2021	28/05/2021	17/06/2021	17/07/2021	18/08/2021	17/09/2021
6:00-7:00	50.3	54.2	53.1	58.5	54.9	50.3
7:00-8:00	54.2	58.2	60.1	57.6	63.4	69.5
8:00-9:00	57.4	61.2	59.2	61.1	61.3	60.2
9:00-10:00	56.2	70.2	56.3	57.4	70.1	58.1
10:00-11:00	55.4	48.4	52.3	45.9	62.5	49.8
11:00-12:00	56.2	58.1	69.2	55.8	60.9	57.1
12:00-13:00	48.4	60.1	61.5	50.3	58.4	54.3
13:00-14:00	52.1	62.6	55.8	51.2	63.3	56.1
14:00-15:00	60.1	70.1	56.4	47.8	68.7	63.1
15:00-16:00	48.9	56.2	44.8	53.1	54.5	59.2
16:00-17:00	47.1	49.6	49.9	69.1	65.9	46.9
17:00-18:00	46.9	60.4	65.3	54.3	60.3	61.2
18:00-19:00	56.2	65.1	56.1	66.4	56.7	51.3
19:00-20:00	65.3	68.1	63.1	56.4	66.9	70.3
20:00-21:00	55.2	69.3	70.1	49.8	64.7	54.8
21:00-22:00	47.8	58.7	65.1	56.3	62.2	63.2

Sampling Location	15 - Security Barrier Gate					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	17/04/2021 & 18/04/2021	28/05/2021 & 29/05/2021	17/06/2021 & 18/06/2021	17/07/2021 & 18/07/2021	18/08/2021 & 19/08/2021	17/09/2021 & 18/09/2021
22:00-23:00	61.1	58.4	41.6	55.2	44.5	59.2
23:00-00:00	58.2	56.2	53.7	37.6	57.2	55.4
00:00-01:00	54.9	52.7	52.1	39.9	58.1	65.5
01:00-02:00	47.9	44.3	48.3	41.2	52.6	63.5
02:00-03:00	50.0	50.4	46.8	44.7	40.1	59.5
03:00-04:00	62.1	49.8	48.2	53.0	44.2	63.6
04:00-05:00	47.9	41.9	49.8	36.2	52.4	57.4
05:00-06:00	46.8	50.1	65.1	40.8	55.7	54.8

[#]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 - 16 - JS-2 Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	16 - JS-2					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	19/04/2021	20/05/2021	18/06/2021	19/07/2021	19/08/2021	18/09/2021
6:00-7:00	56.2	51.4	69.9	67.8	58.5	51.6
7:00-8:00	59.1	58.8	67.2	50.3	49.2	64.4
8:00-9:00	60.2	68.8	60.2	61.3	61.1	61.0
9:00-10:00	52.1	58.3	57.2	67.4	57.4	49.8
10:00-11:00	58.1	61.3	63.5	58.1	45.9	70.3
11:00-12:00	65.1	47.5	63.6	62.2	55.8	49.9
12:00-13:00	50.0	66.4	55.4	57.6	50.2	55.3
13:00-14:00	52.1	57.3	60.5	60.4	51.2	56.3
14:00-15:00	55.2	52.1	63.3	57.9	67.4	58.2
15:00-16:00	60.1	65.3	59.1	58.5	53.1	60.1
16:00-17:00	65.3	69.1	61.3	65.4	69.1	55.8
17:00-18:00	46.9	45.6	66.4	63.4	54.3	68.4
18:00-19:00	48.7	48.2	64.4	62.9	56.4	57.4
19:00-20:00	47.9	53.2	62.2	64.3	57.6	62.1
20:00-21:00	54.9	62.5	59.3	62.1	49.8	65.2
21:00-22:00	69.2	66.3	55.3	65.3	51.3	59.4

Sampling Location	16 - JS-2					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	19/04/2021 & 20/04/2021	20/05/2021 & 21/05/2021	18/06/2021 & 19/06/2021	19/07/2021 & 20/07/2021	19/08/2021 & 20/08/2021	18/09/2021 & 19/09/2021
22:00-23:00	61.1	57.9	41.8	41.3	56.2	56.8
23:00-00:00	52.4	52.2	50.6	48.0	61.2	61.4
00:00-01:00	58.2	42.3	61.1	48.1	55.4	58.5
01:00-02:00	56.8	49.4	45.9	39.5	58.2	54.4
02:00-03:00	57.8	48.2	50.1	49.9	60.1	52.2
03:00-04:00	46.6	45.8	56.2	52.4	44.8	44.6
04:00-05:00	52.3	55.4	51.2	35.5	55.2	56.7
05:00-06:00	56.2	57.1	49.9	43.6	59.1	59.3

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

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



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Tables - 17 - Railway Dead End Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	17 - Railway Dead End					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	20/04/2021	21/05/2021	19/06/2021	20/07/2021	20/08/2021	20/09/2021
6:00-7:00	65.1	62.2	51.6	55.3	69.5	49.9
7:00-8:00	50.4	71.1	55.8	69.4	70.4	59.2
8:00-9:00	46.9	48.4	58.3	60.2	59.2	57.2
9:00-10:00	55.8	58.6	65.7	58.3	68.1	44.9
10:00-11:00	47.9	56.1	58.4	61.8	65.9	63.1
11:00-12:00	49.2	59.1	55.6	65.5	64.7	55.4
12:00-13:00	65.2	48.3	47.6	68.8	73.2	48.9
13:00-14:00	50.8	45.8	50.6	72.5	55.4	50.3
14:00-15:00	66.1	52.2	48.8	66.2	58.1	59.1
15:00-16:00	46.8	54.3	44.8	66.9	56.2	61.3
16:00-17:00	49.3	60.2	69.4	58.9	60.1	58.9
17:00-18:00	59.1	65.2	67.6	61.2	56.3	67.1
18:00-19:00	56.2	69.2	62.8	65.8	65.1	58.2
19:00-20:00	47.8	51.3	65.5	70.2	70.1	59.3
20:00-21:00	68.1	54.4	54.2	69.5	61.2	59.9
21:00-22:00	46.8	51.5	56.5	60.5	52.8	70.1

Sampling Location	17 - Railway Dead End					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	20/04/2021 & 21/04/2021	21/05/2021 & 22/05/2021	19/06/2021 & 20/06/2021	20/07/2021 & 21/07/2021	20/08/2021 & 21/08/2021	20/09/2021 & 21/09/2021
22:00-23:00	67.3	58.1	51.9	48.4	49.8	59.8
23:00-00:00	53.2	48.1	40.3	50.3	51.1	60.5
00:00-01:00	52.4	50.2	47.4	35.3	48.7	42.3
01:00-02:00	46.9	62.8	51.4	42.0	45.9	60.2
02:00-03:00	50.2	65.4	46.6	38.5	50.1	53.5
03:00-04:00	50.4	45.1	45.1	43.4	45.0	62.5
04:00-05:00	51.1	55.8	57.5	40.4	42.8	53.2
05:00-06:00	45.9	61.1	55.5	37.8	49.9	44.7

[#]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 -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 April-21 to September-21

Sampling Location	18 – Open Storage Yard – 1					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	21/04/2021	22/05/2021	21/06/2021	21/07/2021	21/08/2021	21/09/2021
6:00-7:00	53.2	67.5	62.3	61.4	56.1	45.2
7:00-8:00	50.9	65.5	68.1	68.2	58.2	67.1
8:00-9:00	58.1	58.2	51.8	62.0	61.5	57.6
9:00-10:00	65.4	61.2	50.9	68.6	70.3	50.0
10:00-11:00	50.1	58.5	61.2	67.3	55.7	40.9
11:00-12:00	60.1	56.3	57.1	71.4	63.3	55.7
12:00-13:00	49.6	48.9	58.2	69.9	59.1	56.9
13:00-14:00	57.1	45.2	49.9	63.8	65.8	67.3
14:00-15:00	48.9	50.4	46.8	69.8	57.5	51.4
15:00-16:00	60.1	55.4	53.1	70.8	55.9	55.2
16:00-17:00	49.4	65.4	66.3	64.4	60.2	62.2
17:00-18:00	68.4	50.3	48.9	65.6	58.9	60.2
18:00-19:00	68.2	58.4	63.1	68.9	57.2	61.1
19:00-20:00	51.2	62.8	44.9	67.9	65.3	53.2
20:00-21:00	56.2	56.4	73.3	73.3	60.5	40.1
21:00-22:00	50.1	69.3	68.2	70.1	66.3	45.3

Sampling Location	18 – Open Storage Yard – 1					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	21/04/2021 & 22/04/2021	22/05/2021 & 23/05/2021	21/06/2021 & 22/06/2021	21/07/2021 & 22/07/2021	21/08/2021 & 22/08/2021	21/09/2021 & 22/09/2021
22:00-23:00	55.4	58.2	45.5	36.6	39.6	46.2
23:00-00:00	54.8	55.0	40.4	53.1	44.1	57.7
00:00-01:00	46.9	54.2	41.3	50.0	39.9	60.7
01:00-02:00	60.2	52.3	48.4	43.0	47.2	51.4
02:00-03:00	46.8	59.3	55.6	41.8	43.8	55.0
03:00-04:00	60.1	67.2	49.7	42.1	44.9	47.2
04:00-05:00	61.2	42.1	46.4	36.8	53.3	50.7
05:00-06:00	57.4	60.6	43.5	34.2	41.3	46.8

[#]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 -19 -S & S Yard (North) Boundary WallLoco Shed Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	19 – Loco Shed					
	During Day Time - dB(A) Leq [#]					
Date of Monitoring	22/04/2021	24/05/2021	22/06/2021	22/07/2021	23/08/2021	22/09/2021
6:00-7:00	53.2	62.3	64.8	67.5	73.5	60.1
7:00-8:00	50.8	50.5	50.3	65.2	62.2	68.1
8:00-9:00	65.1	54.1	61.1	66.8	64.5	57.8
9:00-10:00	57.4	58.7	65.3	67.6	58.6	56.7
10:00-11:00	50.4	56.5	64.5	66.4	65.2	61.2
11:00-12:00	47.4	48.6	55.1	61.1	57.3	57.1
12:00-13:00	55.8	66.7	53.2	68.1	68.7	67.2
13:00-14:00	58.1	55.6	49.8	57.2	55.3	64.4
14:00-15:00	57.2	61.1	45.9	60.3	56.7	54.7
15:00-16:00	61.1	72.2	60.6	67.2	59.9	53.1
16:00-17:00	46.9	70.3	65.2	55.4	64.1	63.2
17:00-18:00	58.1	60.4	68.6	63.1	59.3	68.6
18:00-19:00	54.2	49.6	46.9	55.2	62.8	71.3
19:00-20:00	49.4	55.1	64.3	59.3	69.8	66.4
20:00-21:00	52.9	70.2	52.1	67.1	67.5	70.2
21:00-22:00	57.2	65.6	56.1	53.2	62.3	62.3

Sampling Location	19 – Loco Shed					
	During Night Time - dB(A) Leq [#]					
Date of Monitoring	22/04/2021 & 23/04/2021	24/05/2021 & 25/05/2021	22/06/2021 & 23/06/2021	22/07/2021 & 23/07/2021	23/08/2021 & 24/08/2021	22/09/2021 & 23/09/2021
22:00-23:00	52.2	55.6	41.2	56.2	43.6	49.6
23:00-00:00	51.1	47.6	52.5	35.6	54.4	47.8
00:00-01:00	53.1	46.3	46.1	41.5	46.2	61.5
01:00-02:00	60.1	60.1	54.5	40.2	54.3	45.8
02:00-03:00	49.9	57.2	48.1	44.0	45.7	50.5
03:00-04:00	49.6	44.1	44.9	41.7	51.3	56.5
04:00-05:00	53.4	48.5	53.3	49.0	50.8	51.5
05:00-06:00	45.5	46.4	52.3	40.3	41.8	48.7

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

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



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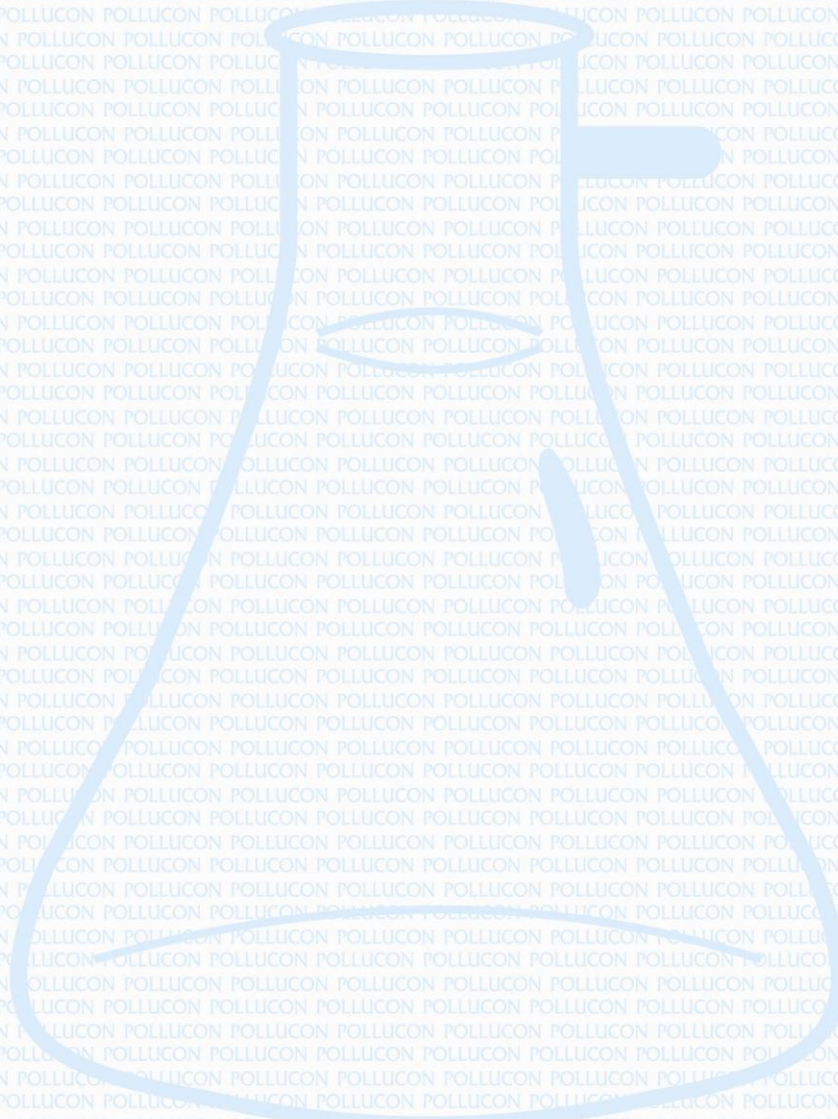
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Tables - 20 - Lakhi Village (Below Conveyer Belt) Ambient Noise Level Monitoring Results during the Day Time and Night Time in dB(A)Leq for the period of April-21 to September-21

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Day Time - dB(A)Leq [#]					
Date of Monitoring	23/04/2021	25/05/2021	23/06/2021	23/07/2021	24/08/2021	23/09/2021
6:00-7:00	69.2	66.1	66.1	51.6	69.6	61.4
7:00-8:00	60.1	58.1	70.2	55.8	66.8	55.6
8:00-9:00	50.2	67.8	59.2	49.2	63.6	56.4
9:00-10:00	46.9	65.7	58.8	60.1	60.9	65.9
10:00-11:00	50.8	57.2	65.6	48.8	65.4	59.5
11:00-12:00	50.6	60.3	64.2	55.6	67.7	54.2
12:00-13:00	45.9	54.5	71.2	47.8	68.2	56.8
13:00-14:00	65.1	52.6	49.3	50.6	60.8	54.4
14:00-15:00	56.6	60.9	58.1	44.8	63.5	62.4
15:00-16:00	47.9	62.4	56.2	69.2	71.8	63.8
16:00-17:00	46.8	56.6	60.1	59.1	64.4	55.5
17:00-18:00	55.2	54.2	56.3	65.1	66.7	65.1
18:00-19:00	69.3	70.1	65.1	46.8	72.2	62.9
19:00-20:00	55.2	65.1	70.1	53.1	65.5	68.2
20:00-21:00	60.5	60.1	54.3	56.5	68.9	63.3
21:00-22:00	65.1	57.5	52.8	54.2	70.2	42.9

Sampling Location	20 - Lakhi Village (Below Conveyer Belt)					
	During Night Time - dB(A)Leq [#]					
Date of Monitoring	23/04/2021 & 24/04/2021	25/05/2021 & 26/05/2021	23/06/2021 & 24/06/2021	23/07/2021 & 24/07/2021	24/08/2021 & 25/08/2021	23/09/2021 & 24/09/2021
22:00-23:00	46.9	50.3	53.5	49.8	46.3	49.1
23:00-00:00	53.4	56.1	49.1	51.2	30.8	46.9
00:00-01:00	58.4	52.5	44.3	40.0	40.0	55.7
01:00-02:00	60.1	56.9	51.6	54.2	45.2	54.3
02:00-03:00	68.1	46.8	60.3	57.6	48.8	52.4
03:00-04:00	41.2	49.9	57.3	47.9	47.3	42.6
04:00-05:00	61.1	51.8	44.1	51.3	40.2	47.4
05:00-06:00	41.5	62.5	44.6	50.4	50.9	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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3H. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

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

Sr. No.	Parameters	Unit	May-2021				
			20/05/2021				
			DG Set # 1MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3Marine (SS8)	DG Set # 4Silo (SS11)	DG Set # 5 (SS7A)
1	Particulate Matter	mg/Nm ³	21.56	27.63	25.6	32.46	--
2	Sulphur Dioxide	ppm	3.97	4.21	5.21	6.57	--
3	Oxide of Nitrogen	ppm	36.57	32.4	37.55	34.53	--
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	--
5	Carbon Monoxide	mg/m ³	0.0301	0.0179	0.0226	0.0251	--

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

Sr. No.	Parameters	Unit	Aug-21				
			12/08/2021				
			DG Set # 1MRSS (SS5)	DG Set # 2 SS7B	DG Set # 3Marine (SS8)	DG Set # 4Silo (SS11)	DG Set # 5 (SS7A)
1	Particulate Matter	mg/Nm ³	26.37	23.47	28.44	34.53	26.33
2	Sulphur Dioxide	ppm	2.70	3.66	4.29	5.83	4.39
3	Oxide of Nitrogen	ppm	28.37	26.58	30.61	32.46	29.42
4	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	Carbon Monoxide	mg/m ³	0.0321	0.0196	0.0264	0.0338	0.0311



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Table No.: 3H.3 - DG Sets Noise Level Monitoring Results for the period: April-21 to September-21

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 m from the enclose outside	
		May-21	Aug-21
	Sampling Date	20/05/2021	12/08/2021
1.	DG Set # 1MRSS (SS5)	69.5	67.4
2.	DG Set # 2 SS7B	66.3	70.2
3.	DG Set # 3Marine (SS8)	71.7	73.5
4.	DG Set # 4Sil0 (SS11)	72.2	69.6
5	DG Set # 5 (SS7A)	--	74.3



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Annexure-4: Compliance Status of EMP as mentioned in the EIA study For Phase-III Expansion of Adani Petronet (Dahej) Port Pvt. Ltd., September, 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. of 80 KLD. 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 April, 2021 to September, 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,	Complying with.

S. No.	EMP Conditions	Compliance Status
	conveyor belt, transfer tower, and discharge point at coal stack yard area. Various types of water spray nozzles have been installed and the water spray is carried out through atomized water spray over the sources using compressors thereby controlling the fugitive dust effectively. Total number of nozzles installed in the port is 350 nos. It is recommended to maintain the same systems for the proposed project activities	All dust control systems are maintained and operating well. 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. APDPPL 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 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. Wind breaker of the same specification will be provided in the additional storage area once completed.
	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. 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 three team consisting of 5 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 22.68 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 22.68 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>APDPPL 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. 374.6 lacs. Details of the environmental budget and expenditure for the past 3 years is enclosed as Annexure – 6.

Annexure-V 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/ Peltoforum /casurina (3 x3 m)	1000	1500	25	Implemented	2010-11
		0.23	250	Cassia semia/peltoforum/conocarpus (3 x3 m)					
		0.20	450	Coconut spp./ fruit trees / Dragon fruit /boganvallia (1.5 x 3 m)					
	Back side lakhibaba temple &Boundry site plantation (phase -1)	0.39	1300	Casurina Equisitifolia (1.5x 2 m)	0	0		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		
2	Gcptcl boudry wall site plantation (phase-1)	1.35	6000	Casurina Equisitifolia (1.5x 1.5 m)				Implemented	2012-13
	APPPL office area (SS-7)	0.32	400	Delonix regia /peltoforum/conocarpus/neem (2x4 m)	800	8000	200		
	Gcptcl boudry wall site plantation (phase-1 a)	0.11	500	eucalyptus/ conocarpus (1.5x 1.5 m)	0	0	0		
	Total	1.78	6900		800	8000	200	Implemented	2012-13
3	LNG Site Boundry wall site plantation	0.90	4000	Casurina Equisitifolia /conocarpus(1.5x 1.5 m)	0		500		
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	2013-14
		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/ Bouganvillia/ 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		700				
	PMC office area Landscape / old pump house /Road side			palm			25		2021-22
	APPPL office area	0.044	55	Delonix regia					
	Gcptcl boudry wall site plantation	0.045	450	Delonix regia	200				
	LNG Site Boundry wall site plantation	0.045	200	Casurina					
	Stack yard	0.05	200	Casurina					
	Road site Avenue tree plantation	0.59	600	Casurina	3150	200	200		
	Gcptcl boudry wall site plantation			Lawn plantation		8000			
	Main gate Area Perifery /EHS/Road side	1.00	400	peltophorum pterocarpum 5 x 5m)					
	Permenant Godown area			shrub	450		50		
	Coal Yard Area	0.08	200	conocarpus					
	Perifery road side	0.05	200	eucalyptus/conocarpus					
	Total	1.89	2305		3800	8200	275		
Trees Total Green Zone Area (Ha)		17.608	45631.00		15450.00	22500.00	3200.00		
Shrub/carpet /palm Total Green Zone Area (Ha)		5.075			1.545	2.25	1.28		
Total Green Zone Area (Ha)		22.683							

Annexure – 6: Environment Budget and Expenditure for the FY: 2021-22**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	(April, 21 to Sept., 2021)	2021-2022
1.	EHS Manpower	5.54	6.85	6.85	7.50	7.0
2.	Legal & Statutory Expenses	0.34	0.20	7.16		5.0
3.	Environmental Monitoring Services	18.30	20.28	16.52	8.12	16.0
4.	Cost for Water Consumption and use dust suppression	55.64	71.69	46.08	18.85	114.97
5.	Hazardous Waste Management & Disposal	2.07	2.12	2.72	0.83	2.0
6.	Greenbelt Development and Plantation	45.0	40.0	44.00	18.27	36.19
7.	O&M of Sewage Treatment Plant	5.30	6.70	6.77	2.79	5.58
8.	Environment Day Celebration	0.50	0.50	0.10	0.36	-
9.	Treatment and Disposal of Bio-Medical Waste	1.92	1.92	1.92	0.96	2.0
10.	Operation and Maintenance of Road Cleaning equipment and manpower	10.27	35.95	49.83	29.68	73.70
11.	Operation and Maintenance of Fire staff engage in water sprinkling activity	73.74	65.62	59.70	34.15	87.66
12.	Environmental Study / Audit and Consultancy	11.60	9.18	3.07	0.35	2.0
13.	Bio Shield Project at village Malpur & Jambusar, Bharuch 1000m x 200m(1.0km)	0.00	13.57	6.78	4.07	4.0
14.	Environment Display Board	5.00	5.00	5.36	0.39	1.0
15.	Implementation of Single Use Plastic (SUP) Protocol	-	-	-	0.76	0.50
16.	Water Audit	-	-	-	-	7.0
17.	Biodiversity Study	-	-	-	-	5.0
18.	Zero Waste to Landfill Certification	-	-	-	-	5.0
Total Amount (In Lacs)		235.22	279.58	256.86	127.80	374.6

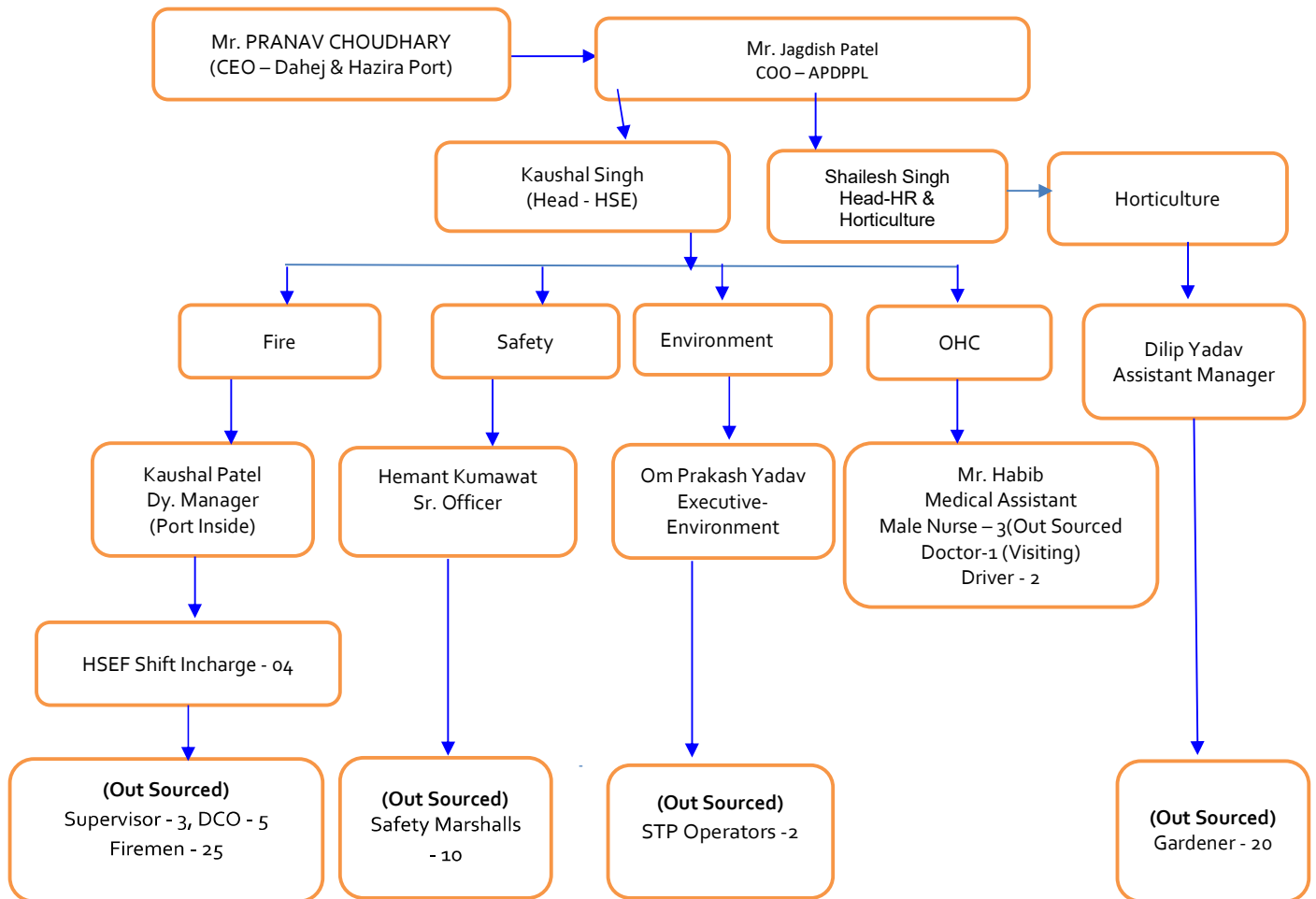
B. Capex Environment Expenditure for the last 3 years

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)				Budgeted Cost (INR IN Lacs)
15	Marine Ecology / Shoreline Monitoring	0.00	10.35	0.00	0.00	0.00
16	STP -50KL(Membrane Biological Reactor(MBR) Technology)- Capex	0.00	20.50	0.00	0.00	0.00
17	Horticulture Development - CAPEX	22.57	8.00	0.00	0.00	0.00
18	Marine Ecology / Shoreline Monitoring	7.00	0.00	0.00	0.00	0.00
Total Amount (In Lacs)		29.75	38.85	0.00	0.00	0.00
Total(A+B) Amount (In Lacs)		257.79	314.58	256.86	127.80	374.6

Annexure - 7: Organogram of APDPPL - Environment Management Cell

ADANI PETRONET (DAHEJ) PORT PVT. LTD.

Department: QHSE Management Cell

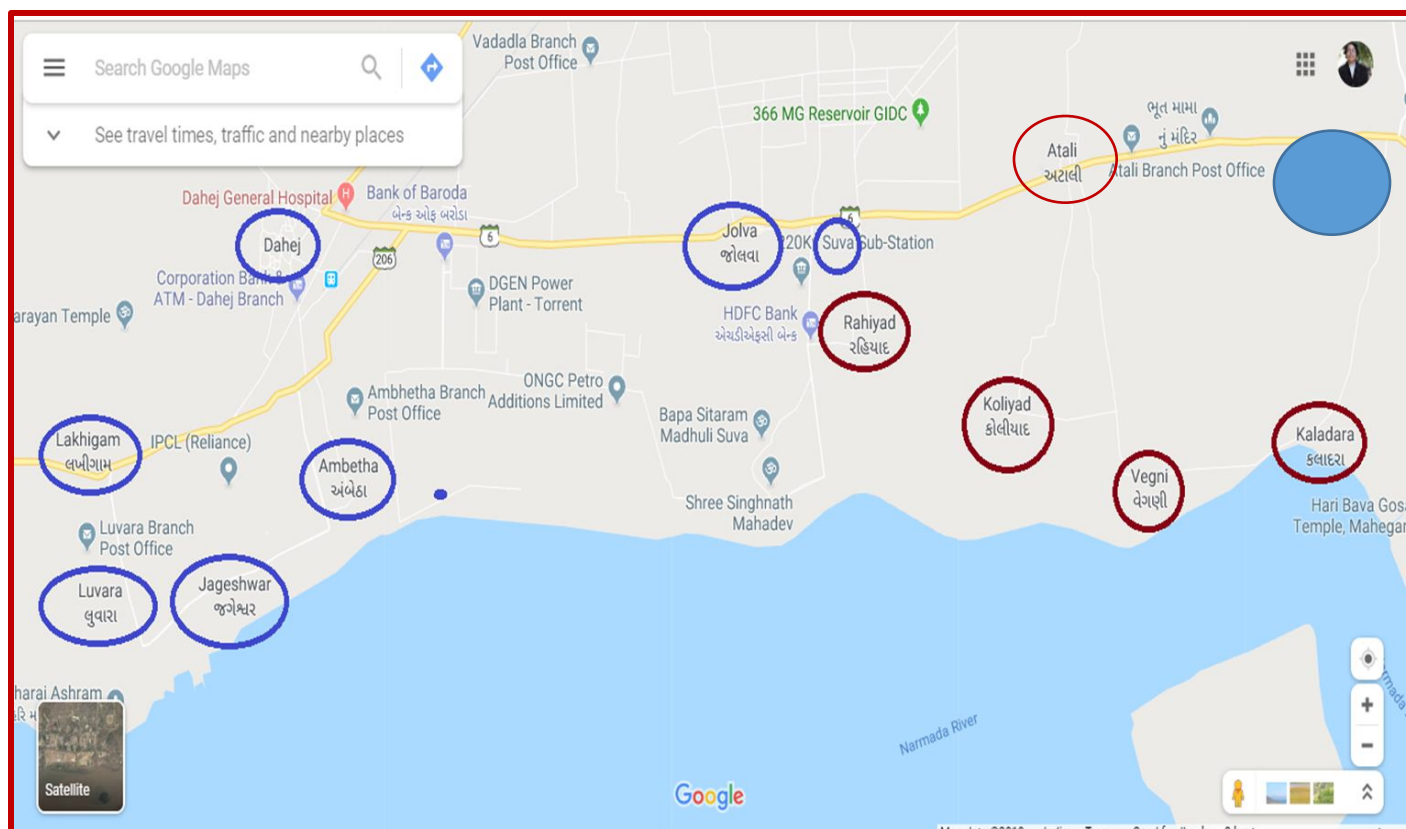


Details of Environment Cell				
S. No.	Name	Designation	Qualification	Work Experience
1.	Kaushal Singh	Dy. Manager -HSE	Dip-Mech, PGDFS, NEBOSH	14.6 Years
2.	Dilip Yadav	Assistant Manager (Horticulture)	B. Tech Agriculture Science	13 Years
3.	Kaushal Patel	Dy. Manager (Fire)	B.Sc. Fire, Post Diploma In Environment Technology (PDIEMT)	16.6 Years
4.	Hemant Kumawat	Sr. Officer (Safety)	Dip – Mech, Dip. In Fire & Safety, NEBOSH	12 Years
5.	Om Prakash Yadav	Executive- (Environment)	M.Sc. Environment Science	8.0Years



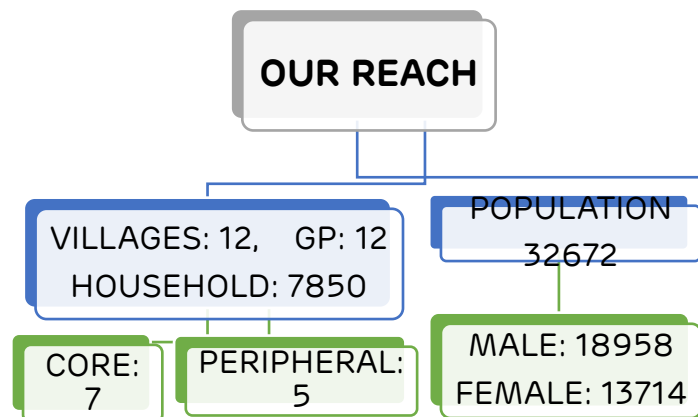
CSR Six Months' Report 2021 -22

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	Ambheta	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

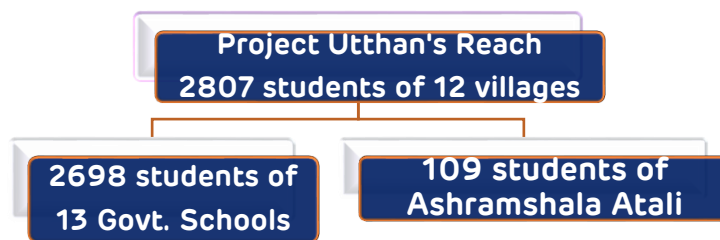
Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

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



Utthan Sahayaks' orientation

Under Project Utthan 10 Utthan Sahayak (teachers) selected at Dahej site. Out of these 10 teachers 8 teachers underwent first orientation program organized at EHS Training Hall, Adani Dahej Port. Mr. Jatin Upadhyay, Education Coordinator, AF conducted this session. Session started with introduction of teachers. Mr. Upadhyay presented an overview of Project Utthan – objectives, methodology, outcomes. He explained status of the project of 3 sites Mundra, Nakhtrana and Hazira.

AF, Dahej has signed MoUs with District Primary Education Department, Bharuch and Ashramshala Atali. 2807 students of 14 schools would get covered under this project.



Project Swasthya Apne Hatho Me

SDG Alignment

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

Adani Foundation supported Primary Health Centre, Dahej with HbA1C Analyzer, Bio chemistry Analyzer and multi diagnostic kits. In first six months of FY 2021 -22, 151 patients underwent blood sugar level test.

S.N	Village	No. of Patients						
		April	May	June	July	August	September	Total
1	Dahej	19	12	14	20	4	26	95
2	Jolva	3	2	2	1	1	4	13
3	Atali	1					1	2
4	Ambheta	2					1	3
5	Lakhigam	1	1	4		1	3	10
6	Narathi	1						1
7	Rahiyad	1		1	2			4
8	Luvara			1	1		2	4
9	Kadodara		1	1	1			3
10	kaladara	1			1			2
11	Suva			2			1	3
12	Paniyadra				1	1	1	3
13	Vadadla				1	1		2
14	Vhiyal				2			2
15	Koliyad					1		1
16	Narnavi					1		1
17	Jageshwar						1	1
18	Jambusar						1	1
	TOTAL	29	16	25	30	10	41	151

WORLD HEALTH DAY

AF & AF supported Shiv Shakti Sakhi Mandal, Jageshwar celebrated World Health Day on 07th April 21. Sakhi Mandal members attended an online health awareness session of Field Health Worker Naynaben Vasava of PHC, Dahej.

Topics covered:

- ✓ Gynecological problems
- ✓ Covid 19 precautions & treatment facilities in nearby areas.

This awareness session attended by Vilashben Patel, Sarpanch of Jageshwar G.P and 12 women.

On this day Sakhi Mandal members distributed 150 face masks among 32 community members.



Visit to Kaka Ba Hospital, Hasot

Objective: Explore affordable health services of nearby areas for community people

AF team visited Kaka – Ba Hospital, Hasot, Bharuch on 29th May 2021. This hospital is run by Kaka-Ba and Kala-Budh Public Charitable Trust is an initiative by renowned industrialist-cum philanthropist and one of the pioneers of Indian Pharmaceutical industry, Shri Indravadan Modi - started in 1985. This has well developed infrastructure – General OPD, General surgery, Dental department, Eye department, ENT, Orthopedic, Pediatrics, Plastic surgery, Psychiatry and a COVID ward of 17 beds. Health services are available at nominal charges. Plastic surgery is being done at no cost. They organize health camps with various organizations in villages.

AF team had meetings with Dr. Bharatbhai, MS of the hospital and Mr. Rajendrabhai, CSR Coordinator. Dr. Bharatbhai expressed his willingness to organize camps – awareness as well as treatment camps in project villages after COVID.



Menstrual Hygiene Day

On 28th May Menstrual Hygiene Day observed with 19 adolescent girls of Lakhigam Village by AF and Health Department.

Theme: 'We need to step up action and investment in menstrual health and hygiene now!'

An awareness session was conducted with support of a Gujarati film Hello Periods on

- Menstruation: Facts & myths
- Personal hygiene
- Use & proper disposal on sanitary napkins



On the basis of the content of the film a set of questionnaire for Pre-test & Post-test was developed. All 19 adolescents filled the questionnaire. Similar sessions were also conducted with 30 adolescent girls of Luvara and Jageshwar in June 2021.

Output: Adolescent girls came to know about menstrual hygiene

Breastfeeding week: awareness sessions organized on breastfeeding with 65 women in 3 villages of Lakhigam, Jageshwar and Dahej villages. These sessions were organized in association with Govt. Health Department's front line workers – ASHA & ANM and front line workers of Women & Child Development – Aanganwadi Workers.

Sessions were held with pregnant and lactating mothers on

- Importance of breast feeding
- Early initiation of breastfeeding within one hour of birth
- Exclusive breastfeeding till 6 months
- Kangaroo care
- Methods of breast feeding



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

1.1. Key highlights

- Pending follow up for last quarter of 2021 (Jan, Feb, Mar 2021) was completed for total 147 inseminations done in cows and buffaloes and 81 animals found confirmed pregnant with 55.10% conception rate. Conception rate noted as 48.48% in cows & 61.25% in buffaloes. This area is buffalo dominated area.
- During the year 2021-22 (up to September 2021), total 158 inseminations done out of which 85 inseminations were done in cows i.e. 53.79% against total inseminations and remaining 73 are in buffaloes i.e. 46.20% against total inseminations. The Buffaloes are seasonal breeder so that Their Breeding season will start from August onwards up to January.
- Total 36 inseminations done in Gir cows and 49 non-descript cows inseminated with the use of pure Gir Semen.
- On 100% follow up basis 51 inseminations completed which were done w.e.f. April to June 2021. Examination of 51 animals was done for confirm pregnancy out of which 26 animals were found confirm pregnant to overall conception rate is 50.98% nearly 51.00%.
- During the period April to September 2021 total 95 inseminations were done in cows out of which 35 inseminations were done w.e.f. April to September 2021 for which follow up was done for confirm pregnancy and 18 cows are found confirm pregnant. Conception rate in cows is 51.42%.
- During this period total 63 inseminations were done in buffaloes out of which 16 inseminations were done w.e.f. April to September 2021 for which follow up was done for confirm pregnancy and 8 buffaloes are found confirm pregnant. Conception rate in Buffaloes is 50.00%.
- Highest number of inseminations were done in village Vengni i.e. 51 where 32.27% against total number of inseminations during this period followed by Kaladara and Koliyad where 22.78% and 6.97% inseminations were done Respectively.

- Total 115 calving reported during this period out of which 47 are in cows and 68 in buffaloes.
- Total 63 female calves are born out of 115 calving.

2. NEEDBASE ALLIED ACTIVITIES

2.1. PROMOTION OF SEX SORTED SEMEN

Sexed sorted semen is prepared by sorting of Chromosome i.e either "X" or "Y" Chromosome. In dairy sector, preference is always give to a female calf and thus the use of X chromosome bearing sperms semen is useful to produce maximum number of females. The sorted semen technology is an excellent tool for rapid multiplication of female genetic material as per the need of dairy farmer. Use of sex sorted semen for AI to produce 90% female calves in place of conventional semen with possibility of 50:50 calf sex ratios.

2.1.1. Objectives

1. To increase number of female calf
2. To increase overall milk production and income of beneficiaries



2.1.2. Achievements

- During the year 2021-22 (up to September 2021), total 24 Artificial Inseminations with the use of sex sorted semen were performed through Dahej centre out of which follow up of 7 inseminations for confirm pregnancy was completed, 6 animals are found confirm pregnant
- During the year, total 9 calving reported out of which 9 are female calves

2.1.3. Impact

- Increase the Female calf with male calf which increase herd size
- Increase milk production at farmer door step
- Born female progenies will help for replacement of herd.
- Decrease fodder losses

2.2. CAPACITY BUILDING

Trained beneficiary is a key component for success of projects. Continuous capacity building is essential for better implementation of the projects and BISLD continued its efforts in this direction.

Objectives

1. To provide platform for the dairy & agriculture farmers to get together and share information about modern scientific practices in Dairy Cattle Management & Agriculture Practices.
2. To get feedback from the farmers to get enough relevant materials for policy and program formulation.
3. To promote interaction among dairy & agriculture farmers.



2 Livestock Trainings held on scientific animal husbandry practices in Koliyad and Kaladara and 104 farmers were trained out of which 42 were female participants. These participants hold total 384 milking animals.

2.3. PROMOTION OF MINERAL MIXTURE AS ROUTINE FARM PRACTICES

Mineral Mixture is very important part as a feed supplement it has direct effect on production parameter of animals: age at first calving, inter calving period & production disease etc If there is decrease in mineral inside the body this will affect the production and reproduction.

2.3.1. Objectives

1. To increase awareness among livestock holding families for importance of feed supplement.
2. To improve health status of growing as well as lactating animals
3. To improve productivity of dairy animals.
4. To reduce economic burden on animal holding families for rearing of unproductive animals.

2.3.2. Achievement

During the year 2021-22 137kg mineral mixture was given to 96 farmers from 8 project villages.

2.3.3. Output

- Health Condition of animals is improved as feed intake is improved
- Milk production of animals is increased by 12%.

- Reduced age at first calving by 6 months in buffalo heifers previously it was reported as 4.5 years
- Inter-calving period reduced by 3 months
- Helps to reduce economic burden for rearing of unproductive animals for longer period

2.4. INFERTILITY AND GENERAL HEALTH CAMP

Reproductive performance is one of the most important factors affecting dairy farm profitability. It directly or indirectly influences the yield of milk, reproductive culling rate and the cost for breeding and calf sales. Dairy cows should calve one time every year to maximize economic efficiency. Cows that have been highly selected for milk production in recent decades have suffered a decline in cow fertility, fertility is a multi-factorial trait and a network of genetic, environmental and managerial factors and their complex interactions have caused its deterioration.

2.4.1. Objectives

1. To reduce long inter-calving period by early detection of causes of infertility.
2. Unproductive animals become productive.
3. To treat problem breeder and unhealthy animals or diseased animals

2.4.2. Achievement

At present only 1 camp happened at Koliyad village. Total 53 animals presented for treatment of animals. The 21 Anoestrus and 11 Repeat bred total 32 problem bred animals, 15 cases of clinical disease and 11 Parasitic infestations.



2.4.3. Impact

- General Health Camp camps encouraged to provide health education to the people attending the camp.
- Timely treatment of affected animals suffering from clinical disorders helps to reduce economic losses.
- Helps to reduce long inter-calving period, age at first calving and other clinical disorders.
- Reduces economic burden on livestock holding families to rear unproductive animals.

2.5. FODDER DEMONSTRATION

Feeding optimum quantity of green fodder is indispensable for economical milk production. However, the persistent deficiency of green fodder continues to be a major constraint. Given the limited area under green fodder cultivation, the best option to increase availability of green fodder is the usage of fodder seed of improved varieties, with high potential yields.

2.5.1. Objectives

1. To create awareness among farmers for fodder crop varieties.
2. To reduce the cost of production of milk and dairying profitable
3. To increase area under fodder cultivation
4. To make fodder available round the year

2.5.2. Achievement

At present case 20,000 seedlings have been distributed to more than 24 farmers of which production is on-going which is 675 tons, this helps the farmers to get improved variety fodder which has effect on health and total physiology of animals.

2.5.3. Output

- Helpful to meet out the need of green fodder having prime importance for lactating, growing, pregnant animals
- Getting aware with high yielding fodder crop varieties.
- Additional fodder will be sold out serve as an additional income

Project Annapurna (Agriculture Project)

Meeting with Farmers

AF team conducted 05 meetings with farmers in peripheral villages. Objectives of such meetings

- Share Adani Foundation's ongoing CSR activities & take feedback of Pashudhan Program
- To aware them with Govt institutions
- To get acquainted with Govt. Schemes Meetings conducted in Kaladara, Vengani & Koliyad villages so far.

AF team encouraged farmers to come forward & do volunteering in group formations.

Output of the meeting

- Mr.Narendrabhai Ahir , Koliyad village Mr. Mayurbhai Raj and Rahiyad village Mr. Pravinbhai Gohil (Dy. Sarpanch) in Kaladara village took the responsibility of group formations. They formed a group **23 farmers** in Kaladara village, **22 farmers** in Koliyad village and **76 farmers** in Rahiyad village.

Outcome: 10 farmers of 4 villages Lakhigam, Rahiyad, Vengani & Kaladara villages **get registered under 22 Govt. schemes**

Sr.No	Beneficiary's Name	Village	Scheme	Benefits
1	Chandubhai Gohil	Vengani	Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
2	Fatesang Gohil	Rahiyad	Solar light trap scheme	benefit of 50% of the purchase price for all farmers or Rs. 2000/- per hectare for less than 2 nos per beneficiaries.
			winning Fan scheme	benefit of operated by tractor / power tiller Tractor / Power Tiller (up to 30 bhp): 50% of total cost or Rs. 50 thousand is whichever is less two.
			Hero Equipment scheme	50% of the expenditure or the limit of Rs.44,000 / - whichever is less two
			Land Leveler scheme	benefit of operated by tractor / power tiller (more than 50 and up to 3 bhp) a grant of 50% of the total cost of the purchase.
			Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
3	Jitsungbhai Gohil	Rahiyad	winning Fan scheme	benefit of operated by tractor / power tiller Tractor / Power Tiller (up to 30 bhp): 50% of total cost or Rs. 50 thousand is whichever is less two.
			Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
4	Raysangbhai Bharmalbhai	Rahiyad	Solar light trap scheme	benefit of 50% of the purchase price for all farmers or Rs. 2000/- per hectare for less than 2 nos per beneficiaries.

			Hero Equipment scheme	50% of the expenditure or the limit of Rs.44,000 / - whichever is less two
			winning Fan scheme	benefit of operated by tractor / power tiller Tractor / Power Tiller (up to 30 bhp): 50% of total cost or Rs. 50 thousand is whichever is less two.
			Land Leveler scheme	benefit of operated by tractor / power tiller (more than 50 and up to 3 bhp) a grant of 50% of the total cost of the purchase.
			Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
5	Mohanbhai Jasmatbhai	Rahiyad	Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
			Tractor scheme	benefit of Tractor More than 40 PTO H.P. and Up to 60 PTOs. H.P. 25% of the purchase cost or Rs. 60000 whichever is less two.
6	Jayaben Haribhai(Widow)	Rahiyad	Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.
7	Pravinbhai Gohil	Rahiyad	Cultivator scheme	receive a grant of 50% of the total cost of the purchase.
			power sprayer pump	benefit of the farmer has to pay Rs. 3100 subsidy of the total cost of purchase.
8	Jaydipsing Yadav	Kaladra	Cultivator scheme	receive a grant of 50% of the total cost of the purchase.
9	Vikramsinh Ranjitsinh	Kaladra	Cultivator scheme	receive a grant of 50% of the total cost of the purchase.
10	Laxmiben J. Gohil	Lakhigam	Chaff cutter scheme	benefit of 50% of the cost of purchase or Rs. 25,000 / - whichever is less is driver.
			Freight carrier vehicle scheme	benefit of 35% of the total cost or Rs. 75,000 / - which is less than two.
			Tarpaulin scheme	benefit of a grant of 50% of the total cost of the purchase.

EMPLOYEE VOLUNTEERING PROGRAM

CYCLONE RELIEF WORK

Cyclone TAUTE adversely affected lives of people residing in coastal villages of Bharuch. Port team along with NDRF and local police worked round the clock for people's safety. Police has shifted residents of Navinagri (Lakhigam) to safe place Lakhababa campus. Adani Dahej Port, as a responsible corporate took the responsibility of taking care of villagers – by providing meals to 450 people of Navinagri (400) and Jageshwar (50) for two times and two days.

Support in COVID relief work

Adani Dahej Port supported Community Health Centre, Vagra by 200 surgical face masks and 11 oximeters. CHC Vagra has 13 beds Covid Care Centre. Port employees contributed Rs.1.44 lacs in treatment of Mr. Jagdish Vasava who had covid.

Support in COVID Relief work

Adani Foundation and Adani Dahej Port provided 10 oxygen concentrators to District Administration, Bharuch. These oxygen concentrators are in use in 5 remotely located Community Health Centres (CHC) of different blocks of Bharuch District. AF team visited all 5 CHCs and had meetings with Medical Officers on

- Working condition of concentrators: Out of 10 concentrators, 2 were found non – functional – 1 of Hasot and 1 of Avidha. Their replacement process has begun.
- Use of concentrators after COVID wave:
- All MOs have the opinion that these would be utilized for new born babies too.
- Feedback: MOs found O2 concentrators handy, easy to use, 10 litre capacity and at a time 2 patients would inhale oxygen.

S.N	Name of CHC	Block	No. of concentrator
1	CHC, Jambusar	Jambusar	3
2	CHC, Amod	Jambusar	2
3	CHC, Avidha	Jhagdia	3
4	CHC, Umalla	Jhagdia	1
5	CHC, Hasot	Ankleshwar	1



Community Infrastructure Development

Luvara village pond work started on 5th July 2021.

strengthening of the pond – Edge repair and opening of outlet.

Luvara village has only one pond and this is the only source of water for animals. Pre-condition of the pond was very bad as all sides were full of thorns and edges get damaged. At one-point level of the pond touched the road. During rainy season pond water entered in village as outlet was choked.

383 animals of 54 families would get benefitted from this work.

Luvara Gram Panchayat and villagers expressed their gratitude towards Adani Foundation as their long awaited pond work has started.



Pre-condition of Luvara Pond



After strengthening work of Luvara pond

SUCCESS STORY

AF' services are valuable

Name of beneficiary: Raj Balvantsinh Amarsinh

Village: Vengani

Age: 63years

I am a landless farmer. Pashudhan is my source of livelihood. I earn by selling milk in dairy centre of my village. 2 years back I purchased 1 lactating cow from nearby village @ Rs. 70,000/-. After 3 months of post calving my cow came in heat. I called our village AITs for AI but after 1 month it came to know that cow again shows sign of heat. This series continued with up to 20 times. During this period, I called many AITs from Vagara Tehsil & Bharuch Tehsil but each time I felt sad because of negative message. That's why I gave up inseminating this cow and took decision to sold her. Here also, I got frustration - no one wanted to buy this cow.



One day my neighbor suggested me to contact AF sponsored Cattle Breeding Centre, Dahej. I took CBC in-charge mobile no. called him and opened up all my frustration in front of him. After my call CBC technician came to my home and examined animal and suggested me for feeding lacuna which I follow traditionally. As per his suggestion necessary changes done and next time this cow came in heat. This time CBC in-charge inseminated her with BAIF semen. After 3 months of post AI by CBC technician gave me cow's pregnancy message. After hearing of this message I found myself fortunate and gave thanks to Adani Foundation for their proper guidance and timely services at doorstep.

Apart from this I also got another benefit for my 18-month heifer. This heifer is also pregnant at this time. Thank you Adani Foundation.

અદાણી ફાઉન્ડેશન, અને કૃષિ વિજ્ઞાન કેન્દ્રના સંયુક્ત ઉપક્રમે તુવેર જીટી ૧૦૪ બીયારણનું વિતરણ

(પ્રતિનિધિ)

વાગરા, તા. ૨૧

દહેજ વિસ્તારમાં ખેડૂતો અને ખેતીના વિકાસ માટે અદાણી ફાઉન્ડેશન દ્વારા અન્નપુર્ણા પ્રોજેક્ટની આ વર્ષથી શરૂઆત કરવામાં આવી છે. આ પ્રોજેક્ટની શરૂઆત કરતા પહેલા અદાણી ફાઉન્ડેશન અને કૃષિ વિજ્ઞાન કેન્દ્ર ટીમ દ્વારા દહેજ વિસ્તારની મુલાકાત લેવામાં આવી હતી સાથે ખેડૂતોની મુલાકાત લઈને ખેડૂતો અને ખેતી પરિસ્થિતિ ને ધ્યાનમાં રાખી કૃષિ વિજ્ઞાન કેન્દ્ર દ્વારા અન્નપુર્ણા પ્રોજેક્ટ પ્રયોજન સંપર્નિટ કરવામાં આવ્યું હતું. તે પ્રમાણે અદાણી ફાઉન્ડેશન દહેજ વિસ્તારમાં ખેડૂતો અને ખેતીના વિકાસ માટે કાર્ય કરશે ની નેમ વ્યક્ત કરવામાં આવી હતી. અન્નપુર્ણા પ્રોજેક્ટ અંતર્ગત કૃષિ વિજ્ઞાન કેન્દ્ર, ચાસવડ દ્વારા ખેડૂતો માટે તુવેર જીટી ૧૦૪ બીયારણ રહિયાદ, કોલીયાદ અને કલાદ્રા ગામમાં ૨૩ ખેડૂતોને વિતરણ કરવામાં આવ્યું હતું.



અદાણી ફાઉન્ડેશન દ્વારા ખેડૂતોને વિના મૂલ્યે બિયારણ વિતરણ કરાયું હતું. (તસ્વીર : સૈયદ અમજદ, વાગરા)

હતું. આ બીયારણ નવસારી યુનિવર્સિટી દ્વારા ૨૦૧૭માં શંસોધન કરવામાં આવ્યું હતું અને તે માત્ર હાલ માં નવસારી યુનિવર્સિટી પરથી વિતરણ કરવામાં આવે છે. જે બજારમાં ઉપલબ્ધ નથી. આ પ્રકારની જીટી ૧૦૪ તુવેર બીયારણની વેરાયટી ફી માં ડેમો પ્લોટ માટે ખેડૂતોને વિતરણ કરવામાં આવ્યું હતું. કૃષિ વિજ્ઞાન કેન્દ્ર, ચાસવડ દ્વારા આ હાથશ્રીડ વેરાયટી ખેડૂતોને થતા ફાયદા વિશે વિસ્તારથી સમજ પુરી પાડવામાં આવી હતી.

લડત

અદાણી ફાઉન્ડેશન દ્વારા જાગેશ્વર ગામમાં આંતરરાષ્ટ્રિય યોગ દિવસની ઉજવણી



કાર્યક્રમમાં બહેનોએ વિવિધ પ્રકારના યોગાસનો કર્યા જેમાં કુભકાસન, કોણાસન, તાડાસન, પદમાસન, વ્રજાસન, વૃક્ષાસન, દયાનાસન, સુર્ય નમસ્કાર કરવામાં આવ્યા હતા. અદાણી ફાઉન્ડેશન કાર્યક્રમ દ્વારા આરોગ્ય નિરોગી રાખવા, માનસિક સ્વાસ્થ્ય જાળવવા તથા હૃદયરોગ જેવા રોગોને નિયંત્રણમાં રાખવા વિવિધ આસનો અને તેનું મહત્વ બતાવવામાં આવ્યું હતું. સમગ્ર કાર્યક્રમને સફળ બનાવવા ગામના બહેનોનો સારો સાથ-ઉજવવામાં આવ્યો. જેમાં ફાયદા બતાવવામાં આવ્યા. સહકાર મળ્યો હતો.

૨૧ જુન આંતરરાષ્ટ્રીય કુલ-૨૫ કિશોરી અને યોગ દિવસ દહેજ વિસ્તારના બહેનોએ ઉત્સાહપુર્વક ભાગ લીધો અદાણી ફાઉન્ડેશન દ્વારા યોગનું મહત્વ અને ફાયદા બતાવવામાં આવ્યા. સહકાર મળ્યો હતો.

નથી? ગાર્ડ-પોસ્ટ માં જગ્યા નથી તો નોટિફિકેશન વિભાગ દ્વારા એકલુઅન્ટ પર્મિટ કેમ રોકવામાં આવતું નથી? ઉદ્યોગો એ પણ આવા સંજોગો માં એકલુઅન્ટ ના ના ગુન્હા બાબતે પ્રકૃતિ સુરક્ષા ડિવિઝન દ્વારા ૧૨ વર્ગ ચોરસ ફીટના પ્લોટ માં બાંધવાની બાંધકામ નિકાલ કરતા પકડાયા હતા એવું જ કે હવાય કે વાડ જ રીલેડ ગળે છે.

11.08.2021

અદાણી ફાઉન્ડેશન, દહેજના સૌજન્યથી સાધદાદા મહીલા સમી મંડળ દ્વારા અમુલ પાલેરનું ઉદ્ઘાટન



અદાણી ફાઉન્ડેશન અને લખી ગામના એસએચજી (SHG) સાધદાદા મહિલા સમી મંડળ દ્વારા મહિલા સમી મંડળનું અમુલ પાલેર ખોલવાનું સ્વપ્ન સાકાર થયું છે. પાલેરના ઉદ્ઘાટન સમારોહની શરૂઆત પૂજા-અર્ચના સાથે કરી હતી. પૂજા બાદ પાલેરનું વિધિવત ઉદ્ઘાટન કરવામાં આવ્યું હતું. આ પ્રસંગે નાયબ સરપંચ લખી ગામ અજયગોહિલ, અદાણી પોર્ટ અને અદાણી ફાઉન્ડેશનની ટીમ, સ્વ-સહાય જૂથોના સભ્યો અને અન્ય ગામજનો ઉપસ્થિત રહ્યા હતા. અદાણી ફાઉન્ડેશન અને લાઈવ લીહુડ મીશનમ ગુજરાત અને ગ્રામ પંચાયત દ્વારા અમુલ પાલેર માટે વિવિધ રીતે મદદ કરવામાં આવી છે જ્યારે SHG દ્વારા પણ પાલેર શરૂ કરવા માટે નાણાકીય સહયોગ આપવામાં આવેલ છે.



રચના અને આજીવિકા મિશન હેઠળ નોંધણી ફેબ્રુઆરી ૨૦૨૦ માં કરવામાં આવ્યું હતું. સભ્યોએ એક્સપોઝર મુલાકાત ઓફલાઈન અને ઓનલાઈન તાલીમમાં ભાગ લીધો હતો. જાન્યુઆરી ૨૦૨૧ માં લખી ગામ ક્રિકેટ ટૂર્નામેન્ટ દરમિયાન નાસ્તાની તૈયારી માટેનો તેને પ્રથમ ઓર્ડર પણ મળ્યો હતો. SHG સાધદાદા મહિલા સમી મંડળના બધા બહેનો અદાણી ફાઉન્ડેશનના સહયોગ બદલ ખૂબ ખુશ આભાર માન્યો.

11.08.2021

અદાણી ફાઉન્ડેશન, દહેજના સૌજન્યથી સાધદાદા મહીલા સમી મંડળ દ્વારા અમુલ પાલેરનું ઉદ્ઘાટન



અદાણી ફાઉન્ડેશન અને લખી ગામના એસએચજી (SHG) સાધદાદા મહિલા સમી મંડળ દ્વારા મહિલા સમી મંડળનું અમુલ પાલેર ખોલવાનું સ્વપ્ન સાકાર થયું છે. પાલેરના ઉદ્ઘાટન સમારોહની શરૂઆત પૂજા-અર્ચના સાથે કરી હતી. પૂજા બાદ પાલેરનું વિધિવત ઉદ્ઘાટન કરવામાં આવ્યું હતું. આ પ્રસંગે નાયબ સરપંચ લખી ગામ અજયગોહિલ, અદાણી પોર્ટ અને અદાણી ફાઉન્ડેશનની ટીમ, સ્વ-સહાય જૂથોના સભ્યો અને અન્ય ગામજનો ઉપસ્થિત રહ્યા હતા. અદાણી ફાઉન્ડેશન અને લાઈવ લીહુડ મીશનમ ગુજરાત અને ગ્રામ પંચાયત દ્વારા અમુલ પાલેર માટે વિવિધ રીતે મદદ કરવામાં આવી છે જ્યારે SHG દ્વારા પણ પાલેર શરૂ કરવા માટે નાણાકીય સહયોગ આપવામાં આવેલ છે.



રચના અને આજીવિકા મિશન હેઠળ નોંધણી ફેબ્રુઆરી ૨૦૨૦ માં કરવામાં આવ્યું હતું. સભ્યોએ એક્સપોઝર મુલાકાત ઓફલાઈન અને ઓનલાઈન તાલીમમાં ભાગ લીધો હતો. જાન્યુઆરી ૨૦૨૧ માં લખી ગામ ક્રિકેટ ટૂર્નામેન્ટ દરમિયાન નાસ્તાની તૈયારી માટેનો તેને પ્રથમ ઓર્ડર પણ મળ્યો હતો. SHG સાધદાદા મહિલા સમી મંડળના બધા બહેનો અદાણી ફાઉન્ડેશનના સહયોગ બદલ ખૂબ ખુશ આભાર માન્યો.

APPRECIATION

