

AHPL/MoEF&CC/2021-22/05

Date: 29.11.2021

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
Email: rowz.bpl-mef@nic.in, eccompliance-guj@gov.in

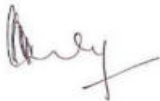
Dear Sir,

Sub.: Six Monthly Compliance Report of conditions stipulated in Environment and CRZ Clearance for the development of Multi Cargo Port with Supporting Utilities and Infrastructure Facilities at Hazira, Surat, Gujarat for the period: **April 2021 to September 2021 for Forest Land Inclusion.**

Ref.: Vide letter no.: File No.: 11-150/2010-IA.1H, Government of India, MoEF&CC (Impact Assessment Division), Development of Project Multi cargo port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s Adani Hazira Port Limited dated 29th September, 2020 -for Forest Land Inclusion

Please find enclosed herewith point wise compliance report of conditions stipulated in the above referred letters regarding Environment Clearance and Coastal Regulation Zone Clearance for the period of **April 2021 to September 2021**

For, **M/s Adani Hazira Port Limited,**



(Pranav Choudhary)
Authorized Signatory

Encl.: As above

Cc 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 (M.P.)
2. The Director (Monitoring - IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
3. The Director, Forests & Environment Department, Block - 14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat - 382 010.
4. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodara, Parivesh Bhawan, Opp. VMC Ward Office No.:10, Subhanpura, Vadodra-390 023.
5. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector - 10A, Gandhinagar-382 010 (Gujarat).
6. The Regional Officer, Gujarat Pollution Control Board, Belgium Square, Ring Road, Surat-395003, (Gujarat).

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**SIX MONTHLY COMPLIANCE REPORT
OF**

ENVIRONMENT AND CRZ CLEARANCE ISSUED BY MOEF & CC, NEW DELHI

VIDE LETTER NO.: File No.: 11-150/2010-IA.III, Government of India, MoEF&CC (Impact Assessment Division), Development of Project Multi cargo port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s Adani Hazira Port Limited dated **29th September, 2020** -for **Forest Land Inclusion**

SUBMITTED BY

**M/s. ADANI HAZIRA PORT. LTD.
HAZIRA, TAL-CHORYASI, DIST-SURAT
GUJARAT**

****Compliance Period- April 2021 to September 2021****

BRIEF SUMMARY OF FOREST INCLUSION

M/s Adani Hazira Port Private Limited had proposed the development of a Multi Cargo Port in Hazira, Surat District with supporting utilities and infrastructure facilities for its master plan spanning over an area of 873.27 ha which included forest land of 376.64 ha. The proposal was issued ToR on 07.04.2011 and the required EIA studies and Public Hearing (14.08.2012) was undertaken, project was recommended by Gujarat Coastal Zone Management Authority (GCZMA) vide letter No. ENV-10-2012-31-E dated 11th May 2012 and was appraised to the EAC for obtaining Environment and CRZ clearance. As the diversion of forest land was under process at the time of EC the same was excluded from the EC granted to AHPPL vide letter no. F.No.11-150/2010-IA-III dated 3rd May 2013. Hence the total area available for port development was 496.63 Ha. AHPPL commenced first five-year port development in the area available. In the first five years AHPPL has constructed 6 berths out of the proposed 12 berths, a total of 21.95 MMTPA of cargo was handled in the last financial year 2020-21 out of the approved 84.1 MMTPA.

Now out of 376.64 Ha applied forest land, the Stage-I forest clearance has been granted over an area of 301.0199 Ha vide order dated 17th October 2016(210.1594 Ha.) and 19th October 2016 (90.8605 Ha.) as mentioned below.

- In principle approval for diversion of 210.1594 ha of reserved forest land vide letter dated 17th October, 2016 bearing F.No. 8-36/2015-FC.
- In principle approval for diversion of 90.8605 ha of reserved forest land vide letter dated 19th October, 2016 bearing F.No. 8-35/2015-FC.

After obtaining the forest clearance, AHPPL approached MoEF&CC for inclusion of forest land in the approved area of port by expansion of earlier EC & CRZ clearance. MoEF&CC granted ToR for conduct of EIA studies on 13th December 2018 vide F. No. 10-80/2018-IA-III. EIA studies were conducted and the project was recommended by GCZMA vide letter number ENV-10-2020-172-Tcell dated 6th July 2020. Subsequently the proposal was appraised by EAC and EC&CRZ clearance was granted for inclusion of 301.0199 Ha area in the already approved area of AHPPL vide F. No. 11-150/2010_IA.III dated 29th September 2020.

As the Stage-I forest clearance is now obtained hence the development of balance components would be carried out after obtaining Stage-II forest clearance.

The table below details on the approved (as per 2013 EC) and development as per forest inclusion EC & CRZ clearance obtained for expansion.

Table 1 Summary of the Approved and Proposed Expansions

S. No	Description	Unit	Approved development (as per EC of 2013)	Development (as per EC of 2020)	Cumulative after Forest inclusion	Remarks
1	Berths	No	12 ¹	-	12	EC was obtained for development of 12 berths. Currently, 6 berths have been developed. The remaining will be developed subsequently.
2	Cargo Traffic	MMT	84.1	-	84.1	No additional cargo traffic envisaged apart from the amount permitted as per EC.
3	Port Area	Ha	496.63	301.0199 (376.64 ha of forest land that was initially proposed for diversion by AHPPL, upon consideration and evaluation by the forest department, was later agreed for 301.0199 ha)	797.6499	301.0119 Ha of forest land has been approved for diversion as per Stage – I Forest clearance obtained vide letter No. F.No. 8-36/2015-FC. and F.No. 8-35/2015-FC. This land will be used for port back up and utilities.
4	Land to be reclaimed	Ha	225.30 Ha at the North Side of Port limit and 84 Ha at South side of port limit.	-	225.30 Ha at the North Side of Port limit and 84 Ha at South side of port limit.	No additional reclamation is envisaged beyond the permitted EC level.
5	Dredging Limit	MM ³	Capital – 37 Maintenance- 11	-	Capital – 37 Maintenance- 11	No additional dredging beyond the permitted EC levels are envisaged.
6	Water	MLD	6	-	6	No additional water requirement is envisaged.

¹ 6 berths have been developed in the first five-year development, and the remaining 6 will be developed.

S. No	Description	Unit	Approved development (as per EC of 2013)	Development (as per EC of 2020)	Cumulative after Forest inclusion	Remarks
7	Power	MW	10	-	10	66 KV grid power supply is drawn from state electricity board supply.
8	Effluent Treatment Plant	MLD	2.5	-	2.5	An ETP of 50 KLD is currently operating against the permitted level of 2.5 MLD.
9	Sewage Treatment Plant	MLD	2.0	-	2.0	STP of 75 KLD is operating which is well below the permitted level of 2.0 MLD.

The stage –II forest clearance is under process, hence all the development at present is being carried out as per the EC & CRZ clearance granted vide F.No.11-150/2010-IA-III dated 3rd May 2013. AHPL will be submitting the compliance of both the EC's henceforth.

LIST OF ANNEXURES

Annexure	Details
1	Compliance To The Conditions Stipulated In CRZ Recommendations Issued By Forests & Environment Department, Government Of Gujarat To MOEF & CC, New Delhi Vide Letter No.: ENV-10-2012-30-E, Dated 11th May, 2012.
2.	Details Of The CSR Activities Along With Budgetary Provisions And Expenditures For The Financial Year: 2020-21
3	Photographs of Air Pollution Control Measures
4.	Environmental Monitoring / Analysis Results For The Period From October 2020 to March 2021
5.	Photograph of Stand by DG set
6	Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period October 2020 to March 2021
7	The Letter of SMC for reception of our solid waste
8	Copy of Acknowledgement of Submission of E Waste Returns FY 2020-21
9	Copy of QEHSE Environment Policy
10	Organogram of AHPPL - Environment Management Cell
11	Details of status of Implementation of EMP of Environment and CRZ clearance issued by MoEF&CC, New Delhi Vide letter no.: 11-150/2010-ia.iii, dated 03rd may, 2013
12	Copy of Environment Statement Form V
13	Environment Expenditure of the compliance period April 2021 to September 2021.

ENVIRONMENT AND CRZ CLEARANCE ISSUED BY MOEF & CC, NEW DELHI VIDE LETTER NO.: File No.: 11-150/2010-IA.III, Government of India, MoEF&CC (Impact Assessment Division), Development of Project Multi cargo port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s Adani Hazira Port Limited dated 29th September 2020 -for Forest Land Inclusion

Sr. No.	EC Condition	Compliance Status
A. SPECIFIC CONDITIONS		
(I)	Since the proposal is for the inclusion of 301.0199 ha of forest land in the existing project, the existing EC, (F.No.11-150/2010-IA-III dated 3rd May 2013), be amended to include the 301.0199 ha of forest land without any change in any conditions and other approved configuration and cargo profile of the project:	Noted, <ul style="list-style-type: none"> The permission is only for inclusion 301.0199 ha of forest land in the existing earlier approved area for developing back up for storage of various approved cargo without any change in any conditions and other approved configuration and cargo profile of the project as per existing EC, (F.No.11-150/2010-IA-III dated 3rd May 2013).
(II)	The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals/ consent/ permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.	Noted. <ul style="list-style-type: none"> Environment and CRZ clearance issued by MoEF&CC, New Delhi Vide letter no.: 11-150/2010-ia.iii, dated 03rd may, 2013 for development of port and the Environment and CRZ clearance is obtained for developing back up area in the proposed forest land parcel. PESO License from Chief Controller of Explosive, Nagpur vides Order No.: P/HQ/GJ/15/5294 (P270337), Renewed and valid till 31/12/2025. Copy of the PESO License is attached herewith License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502 / 51410 / 2013 and License No.: 18757, Renewed on 03-11-2018, valid till 23rd December 2023. Fire NOC for Liquid Terminal- Obtained NOC from Fire Officer, Surat, (Latest on 7th March 2019) and NOC from commissioner of Police (Dated-12th May 2019)
(III)	The project proponent shall abide by all the commitments and recommendations made in the Form-II, EIA and EMP report, submissions made during Public Hearing and also that have been made	Noted, <ul style="list-style-type: none"> All the commitments and recommendations made in the Form-II, EIA and EMP report Shall be implemented letter and spirit. We will submit the compliance status of EMP after obtaining Stage II forest Clearance and commencement of work in the Forest land.

	during their presentation to EAC.	<ul style="list-style-type: none"> The earlier Environment Clearance, vide letter no.: 11-150/2010-ia.iii, dated 03rd May, 2013 was obtained for Port and back up area development and we are complying all the stipulated conditions of the EC and status of compliance is being submitted to the authority. The Public Hearing was exempted for this proposal.
(IV)	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted, All the construction activities will be carried out according to the provisions of CRZ notification 2011.
(V)	All the recommendations and conditions specified by the Gujarat Coastal Zone Management Authority (GCZMA) vide letter No. ENV-10-2012-31-E dated 11th May 2012 and ENV-10-2020-172-Tcell dated 6th July, 2020 shall be complied with.	Noted, <ul style="list-style-type: none"> The GCZMA has not imposed any additional condition in the CRZ clearance and directed to comply the existing recommendation ENV-10-2012-31-E dated 11th May 2012. The compliance status of existing CRZ recommendation is being submitted with Six Monthly EC compliance report of existing EC, (F.No.11-150/2010-IA-III dated 3rd May 2013). The compliance Status of the same is enclosed as Annexure 1
(VI)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. Creek water monitoring program shall be implemented during the construction phase	Complied <ul style="list-style-type: none"> No creeks, channels and rivers are situated in the proposed forest area.
(vii)	No storage of petroleum products	Noted <ul style="list-style-type: none"> AHPPL is already having EC & CRZ vide letter no. F.No.11-150/2010-IA-III dated 3rd May 2013 for handling of Petroleum products. Also, as per the Stage-1 forest clearance AHPL has approval to use the forest area for liquid cargo handling.
(VIII)	Dredging shall not be carried out during the fish breeding season. Dredging, etc. shall be	Noted, <ul style="list-style-type: none"> No Capital dredging is carried out during the compliance period and the regular monitoring of physico Chemical parameters of sea Surface

	carried out in confined manner to reduce the impacts on marine environment. As committed, Silt curtains shall be used to minimize spreading of silt plume during dredging using online monitoring system. Turbidity should be monitored during the dredging. No removal of silt curtain unless baseline values are achieved	and bottom water is being carried out by a NABL accredited Laboratory and the results with respect to baseline is not showing any significant change in sea water quality. The Result of the sea water monitoring is attached herewith as Annexure 4 .
(IX)	Wherever possible, dredged material shall be used for bank nourishment. With the enhanced quantities, the impact of dumping on the estuarine environment should be monitored and necessary measures shall be taken on priority basis if any adverse impact is observed.	Noted. <ul style="list-style-type: none"> There is no dumping of dredged material, The dredged material is using in area reclamation and levelling in the port area. As per communication from MoEF&CC dated 12th November, 2003 bearing letter No.: J-16011/ 11/2003-IA-III conditions states "dumping of dredged spoils should be dumped at the sites A & C as per the following coordinates: - (A) 21°03' to 21°05' N & 72°28' to 72°30' E (C) 21°03' to 21°05' N & 72°30' to 72°32' E
(X)	An independent monitoring be carried out by any Government Agency/Institute to evaluate the impact during dredging. Impact of dredged material on estuarine environment along with shore line changes should be monitored by the PP and necessary mitigation measures be taken in case any adverse impact is observed. The details shall be submitted along with the six-monthly monitoring report.	Noted, <ul style="list-style-type: none"> Stage II forest clearance is under process no work is carried out in the forest area till now. No Capital dredging carried out and as per result of marine monitoring no change is observed in the result when compared to baseline results.
(XI)	Marine ecological monitoring and its mitigation measures for protection of phytoplankton, zooplanktons, macrobenthos, estuaries,	Being complied. <ul style="list-style-type: none"> Marine ecological monitoring as per EMP of EC, Letter n0- - MoEF&CC letter no. F.No.11-150/2010-IA-III dated 3rd May 2013 is being carried out and there is no impact observed on marine life.

	sea-grass, algae, sea weeds, Crustaceans, Fishes, coral reefs and mangroves etc. as given in the EIA-EMP Report shall be complied with in letter and spirit.	
(XII)	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be obtained and implement in letter and spirit.	Being Complied <ul style="list-style-type: none"> The wildlife conservation plan is framed and submitted in EIA report. Indian peafowl has been observed in the study area. The same plan has been submitted to Forest Department.
(XIII)	Sewage generated will be treated in STP of 75 KLD capacity. The treated water will be used for flushing, gardening and dust suppression within the port premises.	Complied <ul style="list-style-type: none"> STPs having cumulative capacity of 75 KLD are being operated and treated water from the same is used for gardening and other purposes. The inlet and outlet parameters are being monitored through MoEF&CC and NABL accredited Laboratory results are attached herewith as Annexure 4.
(XIV)	A continuous monitoring programme covering all the seasons on various aspects of the estuarine environment need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/ renowned Universities/ accredited Consultant with rich experiences in marine science aspects. The monitoring should cover various physico-chemical parameters along with PHC coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable measures to conserve the marine environment and its resources.	Noted <ul style="list-style-type: none"> Currently, marine water Surface and bottom water and sediments for key physicochemical and biological parameters are being monitored on monthly basis. The results are attached herewith as Annexure 4. The continuous monitoring of all seasons will be conducted after obtaining stage II forest clearance.

(XV)	Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance report to the regional office of MoEF&CC.	Noted <ul style="list-style-type: none"> Currently we are monitoring Ambient Air quality at 5 locations of which 4 are inside port and 1 in nearby village in down wind direction, twice in week for PM 10, PM 2.5, SO2, NOX, Pb, CO, Benzene, BaP, As, Ni, NH3 and O3 parameters. The results are attached herewith as Annexure 4. Continuous online monitoring of air quality shall be carried out after obtaining Stage II Forest clearance.
(XVI)	The actions shall be in accordance with proposed landscape planning concepts to minimise major landscape changes. The change in land use pattern shall be limited to the proposed port limits and be carried out in such a way as to ensure proper drainage by providing surface drainage systems including storm water network.	Noted. <ul style="list-style-type: none"> It shall be considered in planning during construction phase.
(XVII)	Suitable preventive measures be taken to trap spillage of fuel / engine oil and lubricants from the construction site. Measures should be taken to contain, control and recover the accidental spills of fuel during cargo handling.	Noted. <ul style="list-style-type: none"> No construction activity carried out during compliance period
(XVIII)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	Will be Complied <ul style="list-style-type: none"> As per the EC granted by MoEF&CC letter no. F.No.11-150/2010-IA-III dated 3rd May 2013, the same is being submitted with six monthly EC Compliance report .
(XIX)	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.	Being Complied. <ul style="list-style-type: none"> AHPL is conducting it's CSR activities through Adani Foundation in Four thrust area i.e. Education, Sustainable Livelihood, Community Infrastructure Development and Community Health. The details of CSR activities along with expenditure in CSR heads is being submitted to RO, MoEF&CC with Six Monthly EC compliance Report. The budget of current

		<p>Financial Year for CSR activities and expenditure in the compliance period is as under-</p> <table><tr><th>Sr. No.</th><th>Vertical</th><th>Approved Budget (In Lacs Rupees)</th><th>Utilization amount (In Lacs Rupees)</th></tr><tr><td>1</td><td>Education</td><td>142.80</td><td>19.01</td></tr><tr><td>2</td><td>Health</td><td>104.45</td><td>46.79</td></tr><tr><td>3</td><td>Sustainable Livelihood Development</td><td>147.43</td><td>18.02</td></tr><tr><td>4</td><td>Civil Infrastructure Development</td><td>248.03</td><td>24.17</td></tr></table> <ul style="list-style-type: none">The details of CSR activities along with expenditure is attached herewith as Annexure 2	Sr. No.	Vertical	Approved Budget (In Lacs Rupees)	Utilization amount (In Lacs Rupees)	1	Education	142.80	19.01	2	Health	104.45	46.79	3	Sustainable Livelihood Development	147.43	18.02	4	Civil Infrastructure Development	248.03	24.17
Sr. No.	Vertical	Approved Budget (In Lacs Rupees)	Utilization amount (In Lacs Rupees)																			
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3	Sustainable Livelihood Development	147.43	18.02																			
4	Civil Infrastructure Development	248.03	24.17																			
(XX)	<p>As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.1H dated 1st May, 2018, project proponent has proposed that an amount of Rs. 8.5 Crores (computed of slab basis for the project expansion cost of Rs. 1800 Crores) shall be earmarked under Corporate Environment Responsibility (CER) Plan with special focus on providing healthcare facilities to the government hospitals in light of COVID 19 pandemic. A small portion of the fund can also be used for the activities such as Health, Water supply, Sanitation, Road development, Solar lights in nearby areas and Education etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report.</p>	<p>Noted, It shall be carried out after obtaining Stage II Forest clearance once the work commences in the forest area.</p>																				

	and to the District Collector. It should be posted on the website of the project proponent.	
B. Standard Conditions:		
I. Statutory compliance:		
(I)	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (incase of the presence of schedule-I species in the study area).	Complied Only peafowl has been observed as Schedule I species in the Study area. The Wildlife Conservation Plan for the same has been submitted to Forest Department.
(II)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Noted, It shall be implemented once the construction starts after obtaining Stage – II forest clearance.
(III)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	Complied There is no ground water withdrawal at the port. AHPL is using treated Wastewater of KRIBHCO for Industrial Purposes and Taker water for drinking purposes., CSR activities carried out for augmentation and deepening of ponds in nearby villages for rainwater harvesting,
(IV)	All excavation related dewatering shall be as	Noted,

	duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction	
(V)	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Noted We have already adequate power available from DGVCL i.e. 2500 KVA for the proposed project. Apart from this we have installed 3.6 MW of solar panel and 2 MW of Wind mills to fulfil our energy requirements,
(VI)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied All the required permissions have been taken from the authorities and being submitted with Six Monthly EC compliance report of existing EC vide letter no. F.No.11-150/2010-IA-III dated 3rd May 2013. For more details please refer Specific Condition point no II
II. Air quality monitoring and preservation:		
(I)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.	Complied AAQ Is being monitoring at 5 location through MoEF&CC approved and NABL accredited Laboratory and results are being submitted with Six monthly EC compliance report of EC granted by MoEF&CC letter no. F.No.11-150/2010-IA-III dated 3rd May 2013. The results of Ambient Air Quality Monitoring is attached herewith as Annexure 4
(II)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	Noted, It is being implemented for existing project and same shall be implement for the proposed area during development and operation. Following control measures are in place and effectively working at port to control fugitive dust: - 1. Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood. 2. Water sprinklers in the coal yard,

		<p>3. Dust arresting sprinklers are installed on Coal Discharge Chute</p> <p>4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute,</p> <p>5. Water spray through Water Browsers,</p> <p>6. Water Mist Canon / Fog System,</p> <p>7. Wind Brake Shield of 14 meters high and 1900 meters long,</p> <p>8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin,</p> <p>9. Regular cleaning the roads through Road Sweeping Machines, and</p> <p>10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha within the port premises.</p> <p>The photographs of Covered Conveyor belts, Mist Canyon and water sprinkling system, Green Belt area, Wind break shield, Road sweeping machines are attached herewith as <u>Annexure 3.</u></p>
(III)	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	<p>Noted</p> <p>Adequate Wind break shield (14meter Height) and green belt area are available for existing development and shall be developed for the proposed area after obtaining Stage II Forest Clearance. Photograph of the existing wind break shield is attached herewith as <u>Annexure 3.</u></p>
(IV)	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	<p>Noted</p> <p>No Such activities in the compliance period. It shall be implemented in Construction phase.</p>
(V)	The Vessels shall comply the emission norms prescribed from time to time.	<p>Complied</p> <p>Before birthing of vessel, as per MARPOL requirements, their certificate are checked by marine team.</p>
(VI)	Diesel power generating sets proposed as source of backup power should be	<p>Complied</p>

	of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	It is being implement for existing project and the same shall be implemented for the proposed area after obtaining stage II Clearance. At present 10 stand by DG sets are operational and all are enclosed type and having adequate Stack Height. Routine inspection are carried out by GPCB., Photographs of the same is attached herewith as <u>Annexure 5</u>
(VII)	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Complied As per Traffic Study carried out by a competent agency, existing Infrastructure is adequate to cater present Traffic load. Discussions for strengthening of Road Network. Is going on with Hazira industrial Association with NHAI
III. Water quality monitoring and preservation:		
(I)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project	Noted there is no creek, channel or river is available in the proposed area.

	site and free flow of water is maintained.	
(II)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.	Noted No such activities during the compliance period. It shall be complied in construction phase.
(III)	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.	Noted It is being Complied. The Waste water from vessels are being collected by GPCB and GMB authorised agency. The details are being submitted to the authority along with EC compliance report of existing EC.- F.No.11-150/2010-IA-III dated 3rd May 2013. The details are attached herewith as <u>Annexure 6</u>
(IV)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Noted There is Oil Spill Contingency plan and verified by Indian Coast Guard as per their recommendations Sufficient resources are available at the port.
(V)	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	Noted There is no desalination plan in project area and no discharge or intake from sea. Hence not applicable at present.
(VI)	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	Noted No construction activity carried out during the compliance period. Appropriate measures shall be taken to trap Spillage of fuel and engine oil/lubricants during construction phase.
(VII)	Total freshwater use shall not exceed the proposed requirement as provided in the project details.	Noted
(VIII)	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing,	Noted Treated sewage is being utilized in horticulture. Results of outlet of Sewage Treatment Plant is attached herewith as <u>Annexure 4</u> .

	backwash, HVAC purposes and dust suppression.	
(IX)	A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.	Noted No disposal in public sewer. All the waste water generated in the port is treated properly and reused in irrigation of green belt area.
(X)	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	Noted There is no diversion of natural course of the river for this project.
(XI)	All the erosion control measures shall be taken at waterfront facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/ boundary line from the land area into the marine water body.	Noted.
IV. Noise monitoring and prevention:		
(I)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied The Ambient Noise and DG Noise Monitoring are being carried out by MoEF&CC approved and NABL Accredited agency. The Results are being submitted to the authority along with Six monthly EC compliance report of Existing EC. The results of Noise Monitoring is attached herewith as Annexure 4
(II)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.	Noted preventive and scheduled maintenance are being carried out for all equipment to avoid Noise pollution. The results of Noise level near Equipment is attached herewith as Annexure 4
(III)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for	Complied All the required measures are taken and implemented. All DG sets have Acoustic Enclosures and PPEs are provided to operating personnel. Trainings/ Tool Box Talk are imparted to wear PPEs.

	noise impact due to ground sources.	
(IV)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	<p>Noted</p> <p>The ambient Noise Level is being monitored at 5 locations by a MoEF&CC approved and NABL accredited Laboratory and the results are within limit.</p>
V. Energy Conservation measures:		
(I)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly;	<p>Being Complied</p> <p>3.5 MW capacity of solar panels are installed in the port premises. and 2 MW of Windmills are installed in Rojmal near Rajkot.</p>
(II)	Provide LED lights in their offices and residential areas.	<p>Being Complied</p> <p>All the conventional lights are replaced with energy efficient LED lights during 2016 to 2019. Total energy conservation through LED conversion through this initiative is 132503 Kwh/ Month.</p>
VI. Waste management:		
(I)	Dredged material shall be disposed safely in the designated areas.	<p>Complied.</p> <p>As per communication from MoEF&CC dated 12th November, 2003 bearing letter No.: J-16011/ 11/2003-IA-III conditions states "dumping of dredged spoils should be dumped at the sites A & C as per the following coordinates: - (A) 21°03' to 21°05' N & 72°28' to 72°30' E (C) 21°03' to 21°05' N & 72°30' to 72°32' E</p> <p>The maintenance dredging is being carried out through Water Injection dredger in which no Dredging material is generated. Some part of dredging is being carried out through Cutter Section Dredger and in this process Dredging material is being generated. No disposal has been done till date. All the dredging material is being utilized for level rising, reclamation and apart from the above activity, if any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p>
(II)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.	<p>Being complied.</p> <p>The dredged material is not dumped at any place and there is no shoreline change observed due to this.</p>

(III)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	<p>Being complied.</p> <p>The Sewage Treatment Plant (STP) of 75 KLD, Effluent Treatment of 50 KLD and Organic Waste Converter (OWC) of 100 Kg/day are installed. The STPs and OWC are being effectively operated in port premises to ensure proper waste water treatment and solid waste management.</p>
(IV)	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	<p>Being complied.</p> <p>Biodegradable Solid Wastes are being composted through Organic Waste Converter and the composts is utilized in horticulture purposes. Other Recyclable material are sold to recyclers and for disposal of inert material, AHPL has tie up with Surat Municipal Corporation (SMC) and inert waste is being sent to SMC's waste management facility .</p>
(V)	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	<p>Being complied.</p> <p>During the compliance period no C & D waste is generated, the waste generated in past was used for level raising. The C&D waste generated in future will be handled as per C&D waste management rules, 2016 as amended.</p>
(VI)	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.	<p>Being complied.</p> <p>We have tie up with Surat Municipal Corporation (SMC) for disposal of solid waste at their Khajod Solid Waste Facility on chargeable basis. The Letter of SMC is attached herewith as Annexure 7. Solid waste is being sent to SMC facility.</p>
(VII)	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	<p>Being complied.</p> <p>The Used CFLs and other E wastes are sent to GPCB authorized E waste recyclers. And we are Submitting E Waste returns every year. Copy of Acknowledgement of E Waste returns submitted to GPCB for FY 2020-21 is attached herewith as Annexure 8</p>
(VIII)	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery	<p>Being complied.</p> <p>There is an Oil Spill Contingency Plan approved by Indian Coast guard for existing operation. Oil Spill Contingency Plan has been prepared and the same was</p>

	of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered	approved by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).
VII. Green Belt:		
(I)	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Being Complied Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha till 30 th September 2021.
(II)	Top soil shall be separately stored and used in the development of green belt.	Noted The top soil will be conserved and shall be utilized for Green Belt development.
VIII. Marine Ecology:		
(I)	Dredging shall not be carried out during the fish breeding and spawning seasons.	Noted, being complied No capital dredging activity carried out during the compliance period.
(II)	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.	Noted, being complied
(III)	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.	Noted, being complied
(IV)	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/ Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Noted It shall be carried out after obtaining Stage II Forest clearance.

(V)	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.	Noted It shall be carried out after obtaining Stage II Forest clearance.
(VI)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.	Noted, It shall be carried out after obtaining Stage II Forest clearance.
(VII)	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	Closed There is no aquatic wildlife sanctuary near the AHPL port.
IX. Public hearing and Human health issues:		
(I)	The work space shall be maintained as per	Noted, being complied

	international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.	
(II)	Workers shall be strictly enforced to wear personal protective equipment like dust mask, ear muffs or ear plugs, whenever and wherever necessary/required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration	Noted, The required PPEs are being provided to workers . Trainings and inspection are being carried out to ensure use of PPE by the workers.
(III)	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDf.	AHPL is not carrying out any repair activity for old vessels. AHPL is only engaged in handling multipurpose cargo at Hazira port.
(IV)	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/accidents	Noted. The training on safety is imparted to all employees, associates, and workmen as per decided Training Need Identification. The various topic of training includes 7853 Hours. The details of training conducted during Compliance period is as under- For Quarter 1 (April 2021 to June 2021) Safety Training Hour 1390 Hrs (On Roll) 3679 Hrs (Worker) 5069 Hrs (Total) For Quarter 2 (July 2021 to September 2021) Safety Training Hour 524 Hrs (On Roll) 2260 Hrs (Worker) 2784 Hrs (Total)
(V)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management	Being Complied The HIRA is framed and implemented at Site. The Company has ISO 45001:2018 certified. Implementation of HIRA is being audited by auditors time to time. Emergency Preparedness Plan and


	Plan shall be implemented.	Disaster Management Plan approved by DISH is implemented at site. Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. <ul style="list-style-type: none"> DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind. safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014.
(VI)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted No construction activities are carried out in the forest land as Stage-II forest clearance is not yet obtained. Currently, for the minor construction activities carried out as per EC dated 3 rd May 2013 the construction labours are being engaged from local area they stay at their home.
(VII)	Occupational health surveillance of the workers shall be done on a regular basis.	Being Complied Pre-employment check-up and periodic health check-up are being conducted through TRI STAR Hospital Surat.

X. Corporate Environment Responsibility:

(I)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/violation of the environmental / forest /wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders /	Being Complied There is an Environment Policy approved by Board of Directors. Copy of the same is attached herewith as Annexure 9 .
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	stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
(II)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Being Complied, Details of Environment Management Cell is attached herewith as Annexure 10 .
(III)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Noted The details of implementation status of EMP for the EC obtained in 2013 is being submitted to the authority along with Six Monthly EC compliance report. The EMP for the Forest Land Inclusion EC will be submitted after commencement of work in the area. The Copy of EMP of EC obtained in 2013 is attached herewith as Annexure 11
(IV)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted.
XI. Miscellaneous:		
(I)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in	Being Complied The Copy of News Paper advertisement The conditions stipulated in copy of EC has been published in two newspapers as public notice i.e. Indian Express and Gujarat Guardian on 12.10.2020. Copy of the same was submitted to the MoEF&CC with last Six Monthly EC compliance Report through E Mail 'rowz.bpl-mef@nic.in, 'eccompliance-guj@gov.in' on 30.11.2020

	two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	and Acknowledgement of the same was received on 1.12.2020.
(II)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p>Complied</p> <p>The letter along with EC & CRZ clearance have been submitted to following authorities:</p> <ul style="list-style-type: none"> • The Sarpanch -Hazira Village, Junagam – Shivrampur Village, Suvali Village • District Collector – Surat • RO-GPCB-Surat • Chief Conservator of Forest – Surat • Surat Urban Development Authority – Surat <p>The copy of acknowledgement is submitted with last six monthly EC compliance report for period October 2020- March 2021</p>
(III)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<p>Complied</p> <p>Compliance report of conditions stipulated in Environment and CRZ Clearance is available on the company website i.e.: http://www.adaniports.com/ports-downloads</p>
(IV)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	<p>Complied</p> <p>It is being submitted regularly to the authorities. The last report was submitted on 31.05.2021 through E mail a acknowledgement was received on 03.06.2021.</p>
(V)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	<p>Complied</p> <p>The Environment Statement in Form-V for the Financial Year: 2020-21 is attached herewith as Annexure 12 same is also uploaded on APSEZ website at http://www.adaniports.com/ports-downloads.</p>

(VI)	<p>The criteria pollutant levels namely; PM2.5, PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Being Complied</p> <p>The Criteria Pollutant are being monitored at 5 location and being displayed at gate.</p> <ol style="list-style-type: none"> 1. At Port Gate NO 2 2. At CT Jetty 3. At Central Fire Pump House 4. HSE Building 5. Hazira Village <p>Photograph of Display Board</p> 
(VII)	<p>The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.</p>	<p>Noted</p> <p>Stage – II Forest Clearance is under process hence no work is started yet.</p>
(VIII)	<p>The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.</p>	<p>Noted</p>
(IX)	<p>The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.</p>	<p>Complied</p> <p>Public Hearing was exempted as per the ToR. The commitments of Public Hearing for Earlier EC obtained 2013 is being fulfilled and the details are being submitted along with SIX monthly EC Compliance Report for the EC.</p>

(X)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted								
(XI)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted								
(XII)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted								
(XIII)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted								
(XIV)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	<div>Being Complied</div> <div><ul style="list-style-type: none">Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the port, full support is extended and AHPL provides all additional information seek by them during the inspection.Last visit by representative of MoEF & CC - RO, Bhopal was on 4th August 2021. Mr. Subrat Mohapatra, Deputy Director General of Forest (Central) visited at AHPL Hazira on 04th August 2021. We have extended all required supports during his visit. During the compliance period, GPCB officials Mr. D M Rathod, DEE and N M Kavar, Scientific Officer have visited the port on 16.09.2021 and we extended all required supports during their visit.</div>								
(XV)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and	<div>As per 2013 EC AHPL is operating the port and has already obtained consent under air act water act and Hazardous Waste Rules. The details of the various consents obtained are as below:</div> <table><tr><th>Consent No.</th><th>Issued On</th><th>Submitted To MoEF & CC On</th></tr><tr><td>CTE_49766</td><td>05.10.2012</td><td>Along with Six Monthly Compliance Report</td></tr></table>			Consent No.	Issued On	Submitted To MoEF & CC On	CTE_49766	05.10.2012	Along with Six Monthly Compliance Report
Consent No.	Issued On	Submitted To MoEF & CC On								
CTE_49766	05.10.2012	Along with Six Monthly Compliance Report								

	Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.			dated 19.11.2014 & 19.05.2017.	
		CTE-64900	26.09.2014	Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.	
		CTE-74330	13.01.2016	Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.	
		CTE-77767	16.04.2016	Along with the Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.	
		CTE-101590	20.05.2019	Along with the Six Monthly Compliance Report dated 27.11.2019	
(XVI)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted			

Annexure 1

Compliance to the conditions stipulated in CRZ recommendation issued by Forests & Environment Department, Government of Gujarat to MoEF & CC, New Delhi ref no Env-10-2020-172-Tcell dated July 06, 2020

Compliance to the conditions stipulated in CRZ recommendation issued by Forests & Environment Department, Government of Gujarat to MoEF & CC, New Delhi ref no Env-10-2020-172-Tcell dated July 06, 2020 which is same as vide letter No.: ENV-10-2012-30-E dated 11th May, 2012 for modification / expansion of Multi-Cargo Port Facility at Hazira, Dist. - Surat by M/s. Adani Hazira Port. Limited: -

S. No.	Conditions	Compliance Status
A.	Specific Condition	
1.	The provision of CRZ Notification 2011 shall be strictly adhered by M/s. AHPL. No activity in contradiction to the provision of CRZ Notification shall be carried out by M/s. AHPPL.	<p>Complied.</p> <ul style="list-style-type: none"> Construction activities are carried out as as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in CRZ Notification has been done. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006 and subsequent amendments.
2	M/s. AHPPL shall not construct any storage facilities for material / chemicals in the CRZ area except for those permissible as per Annexure - II of CRZ Notification 2011 also for other hazardous chemicals, outside CRZ Areas, the AHPL shall consult SDMA for Disaster Management Plan.	<p>Complied.</p> <ul style="list-style-type: none"> Only permissible activities being carried out in CRZ area. Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. <p>Regular mock drill to ensure the compliance and preparedness is being done. Last Mock Drill (On Site) was on: 15.09.2021, the scenario of mock drill was – ACN leakage from vessel dock line at MPB jetty and caught fire Last Update of ERP & DMP : 03.02.2021</p> <ul style="list-style-type: none"> Last submission of ERP & DMP to Directorate Industrial Safety & Health (DISH) on 10.03.2021
3.	All necessary permissions from different Government Departments / agencies shall be obtained by M/s. AHPPL before commencing the activities.	<p>Complied.</p> <p>All the statutory permissions from the concerned statutory authorities are obtained i.e.: -</p> <ul style="list-style-type: none"> Environment and CRZ Clearance from MoEF & CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013, CTE & CTO from Gujarat Pollution Board PESO License from Chief Controller of Explosive, Nagpur License to work a

S. No.	Conditions	Compliance Status
		Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat. Please refer EC condition 9 for details.
4.	The AHPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	Noted and complied with. There are no adverse impacts on mangrove as well as flow of water with respect to development activities.
5.	No dredging, reclamation or any other project related activities shall be carried out in CRZ area categorized as CRZ-I (A) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas, if any in the region are not affected due to any of the project activities.	Complied. There is no dredging and reclamation activities occurred in CRZ I (A) area during the compliance period. The mangrove habitats near by the port are being protected by AHPL.
6.	The dredging material shall be disposed of at the location already approved by the Ministry of Environment and Forests, Government of India.	Complied. As per communication from MoEF&CC dated 12 th November, 2003 bearing letter No.: J-16011/ 11/2003-IA-III- Hazira Port Pvt Ltd conditions states "dumping of dredged spoils should be dumped at the sites A & C as per the following coordinates: - (A) 21°03' to 21°05' N & 72°28' to 72°30' E (C) 21°03' to 21°05' N & 72°30' to 72°32' E The maintenance dredging is being carried out through Water Injection dredger in which no Dredging material is generated. Some part of dredging is being carried out through Cutter Section Dredger and in this process Dredging material is being generated. No disposal has been done till date. All the dredging material is being utilized for level rising, reclamation and apart from the above activity, if any excess material generated will be disposed of at the location already approved by the MoEF&CC.
7.	All the recommendations and suggestions given by M/s. NIO and Cholamandalam MS Risk Services Ltd, Chennai in their EIA reports for conservation / protection and betterment of environment shall be implemented strictly by M/s. AHPL.	Complied. All the recommendations and suggestions for conservation/protection and betterment of environment are being implemented strictly. Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as <u>Annexure-11</u> .

S. No.	Conditions	Compliance Status
8.	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves, if any and other important coastal / marine / habitats. The construction activities shall be carried out only under the guidance / supervision of reputed institute / organization.	<p>Complied.</p> <p>There are no mangroves and other important coastal / marine / habitats presents within the port development area.</p> <p>There is no construction activity in the compliance period.</p> <p>The Port development work is supervised by Gujarat Maritime Board (GMB).</p>
9.	M/s. AHPPL shall strictly ensure that no creeks or rivers are blocked due to any activity at Shipyard.	<p>Complied.</p> <p>All the activities are carried out as per EC & CRZ clearance and no creeks are blocked due to development activities. Shipyard is not envisaged in our proposal.</p>
10.	The construction debris and / or any other type of waste shall not be disposed of into the sea, creek or in CRZ areas. The debris shall be removed from construction site immediately after the construction is over.	<p>Complied</p> <p>Construction and Demolition waste is being managed as per Construction and Demolition waste rules 2016.</p>
11.	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by construction labours.	<p>Complied.</p> <p>Labors have been managed through contractors and they are from surrounding villages so they stay in their own residential facilities in the surrounding villages.</p> <p>Drinking water, toilets and rest shelters are being provided to the labors during work.</p>
12.	M/s. AHPPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with National Oil Spill and Disaster Contingency Plan and shall submit the same to this department after having it vetted through Indian Coast Guard.	<p>Complied.</p> <ul style="list-style-type: none"> Oil Spill Contingency Plan is prepared and the same was approved by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). Disaster Management Plan was prepared prior to the commissioning of multi cargo port. DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind.safety/ 770560 dated 03.12.2012. Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. Regular mock drill to ensure the compliance and preparedness is being done. <p>Last Mock Drill (On Site) was on :15.09.2021</p>

S. No.	Conditions	Compliance Status
		Last Update of ERP & DMP : 03.02.2021 Last submission of ERP & DMP to Directorate Industrial Safety & Health (DISH) on 10.03.2021
13.	M/s. AHPPL shall bear the cost of external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environment impact of the proposed activities.	Noted and agreeing to bear the cost of external agency, if any that may be appointed by this department.
14.	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Complied. Jetty approach is supported by piles allowing adequate flow of water.
15.	The ground water shall not be tapped within the CRZ areas by the AHPPL to meet with the water requirements in any case.	Being Complied Ground water is not being used for any purpose in the Port. The industrial water requirement is being met through 2000KL of treated waste water from M/s. KRIBHCO and Domestic water requirement is met through tanker Water.
16.	M/s. AHPPL shall take up massive greenbelt development activities in consultation with Forest Dept. / GEER Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Being Complied The Green Belt is being developed by AHPL. The total Green Belt area developed till 30 th September 2021 is 78.49 Ha. Photograph of Green Belt area is attached herewith as Annexure 3
17.	Mangrove plantation in 200 Ha. shall be carried out in consultation with Gujarat Ecology Commission / Forest Dept. by M/s. AHPPL with in a period of two years from the issuance of CRZ clearance by MoEF, GoI and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Complied Company has carried out mangrove afforestation in an area of 200 hectares i.e.: 20 hectares in Kantiyajal and 180 hectares in Village Nada-Devla of District - Bharuch and same is completed. Consolidated report on mangrove plantation on an area of 200 hectares at Village: Kantiyajal, Taluka: Hansot and Village: Nada-Devla, Taluka: Jambusar, District: Bharuch (Gujarat) developed by M/s. Saline Area Vitalization Enterprise (SAVE) Limited, Ahmedabad. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 20.11.2017.
18.	The AHPPL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and action plan in	Complied <ul style="list-style-type: none"> AHPL has developed Bio-Shield Pilot Project at Village - Tankari Bandar, Taluka - Jambusar, District - Bharuch (Gujarat) on an

S. No.	Conditions	Compliance Status																				
	this regard shall have to be submitted to the MoEF - Gol and this Department.	area of 18 hectares with the help of a local NGO named SAVE.																				
19.	M/s. AHPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with Forest and Environment Dept. and the District Collector / District Development Officer.	<p>Being Complied</p> <p>CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.</p> <p>Appropriate financial contribution is being made to the . Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included. Please refer the Annexure-2 for the status of the CSR activities planned and carried out during the Compliance period.</p> <table><tr><th>Sr. No.</th><th>Vertical</th><th>Approved Budget (In Lacs Rupees)</th><th>Utilization amount (In Lacs Rupees)</th></tr><tr><td>1</td><td>Education</td><td>142.80</td><td>19.01</td></tr><tr><td>2</td><td>Health</td><td>104.45</td><td>46.79</td></tr><tr><td>3</td><td>Sustainable Livelihood Development</td><td>147.43</td><td>18.02</td></tr><tr><td>4</td><td>Civil Infrastructure Development</td><td>248.03</td><td>24.17</td></tr></table>	Sr. No.	Vertical	Approved Budget (In Lacs Rupees)	Utilization amount (In Lacs Rupees)	1	Education	142.80	19.01	2	Health	104.45	46.79	3	Sustainable Livelihood Development	147.43	18.02	4	Civil Infrastructure Development	248.03	24.17
Sr. No.	Vertical	Approved Budget (In Lacs Rupees)	Utilization amount (In Lacs Rupees)																			
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2	Health	104.45	46.79																			
3	Sustainable Livelihood Development	147.43	18.02																			
4	Civil Infrastructure Development	248.03	24.17																			
20.	A separate budget shall be earmarked for environment management and socio-economic activities including green belt development / mangrove plantation and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished along with the compliance report.	<p>Being Complied</p> <ul style="list-style-type: none">Environmental Management Plan is in place and the funds earmarked are being utilized for effective implementation of environmental safeguards and environment monitoring. Key components are Environment monitoring, Mangrove plantation, environmental studies etc.Please refer the Annexure-13 for details of budget and Expenditure for Environment Management for the compliance period April 2021 to September 2021.CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development.Please refer the Annexure-2 for the status of the CSR activities planned and carried out during the compliance period April 2021 to September 2021..																				
21.	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring	<p>Complied.</p> <ul style="list-style-type: none">Environment Management Cell has been set up with qualified staff to ensure the																				

S. No.	Conditions	Compliance Status
	and management during construction and operational phases of the project.	<p>effective implementation of environmental safe guards.</p> <ul style="list-style-type: none"> • In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. • Please refer the <u>Annexure-9</u> for Environment Management Cell Organogram.
22.	Environment Audit Report including the changes, if any, with respect to baseline environmental quality in the coastal and marine environment shall be submitted every year by M/s. AHPL to this Department as well as MoEF, Gol.	<p>Complied.</p> <ul style="list-style-type: none"> • Regular Environmental Monitoring are being carried out through a GPCB approved environment auditor M/s. Pollucon Laboratories, Surat (a MoEF&CC and NABL accredited laboratory) and others concerned authorities along with Six Monthly Compliance Report. • No significant changes observed with respect to past monitoring results.
23.	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s. AHPL on a regular basis to this Department as well as MoEF, Gol.	<p>Noted and complied with.</p> <ul style="list-style-type: none"> • Six monthly compliance reports are being submitted to all the concerned authorities on regular basis. • Last report was submitted on 28.05.2021 through E mail and acknowledgement of the same was received on 03.06.2021.
24.	Any other condition that may be stipulated by this Department / MoEF, Gol from time to time for environment protection / management purpose shall have to be complied with by M/s. AHPL.	Noted and comply with the additional conditions stipulated by the MoEF & CC, if any.

Annexure 2

**Details of Corporate Social Responsibility for the Compliance Period April 2021 to
September 2021**

Half Yearly Report of Adani Foundation – Hazira (H1-FY 2021-22)

Adani Foundation is working as a CSR wing of Adani Group and the CSR activities are being conducted in the four major thrust areas.

Four Major Thrust Areas of our CSR Activities:



A. Education:

• UTTHAN PROJECT :

The future of India depends upon the quality of education imparted to our children. We believe that it is the joint responsibility of the Government and citizens to improve school education. With an aim to enhance the quality of primary education in Surat District, Adani Foundation has implemented this *Utthan* Project in 10 Government Primary Schools of Hazira area from December-2019. The project is running successfully. Under this project focus is on progressive learners (PRIYA VIDYARTHI) and celebrate their progress, make learning joyful, provides adequate resources and facilities, strengthen the curricula to provide basic skills, especially in the areas of literacy, numeracy and skills for life and focus on Teachers' capacity building. During the first half of the FY 2021-22, the continuous focused was made on slow learners by Utthan Sahayak. Various days celebrations, organising mothers meet, support for Jawahar Navodaya and National Mean Merit Scholarship entrance exam preparation etc. activities were done during the first half year of the FY 2021-22. Also, activities/trainings for enhancement of skills of Utthan Sahayak were carried out during this period.



- **NAVCHETAN VIDHYALAY - JUNAGAM:**

Adani Foundation has been sponsoring this primary school in nearby village Junagam (Shivrampur) academically & administratively for last 8 years. The number of students are increasing every year in the school which is against the normal trend of reducing students in primary schools in rural area. The ratio of boys and girls are also at par, which shows the good academic facilities provided by Adani Foundation has motivated village people to send their girl child to school.

Due to the COVID19 scenario, Govt. of Gujarat has only permitted physical presence for class 6 and above students. However, online education to all the students were continuously given.



B. Sustainable Livelihood Development:

• **Project KAMDHENU**

Adani Foundation has signed MoU with BAIF for designing and implementing its activities related to Animal Husbandry. Under this project, awareness is created for best livestock management practices. Different types of trainings are imparted to cattle owners during the first half of FY 2021-22. Artificial Insemination (AI) is one of the very popular and most demanding activity under this project. Also to save energy and to do sustainable irrigation, the process for providing solar pump is initiated. Two dedicated centres are set up at Junagam (Shivrampur) and Barbodhan to undertake various activities by BAIF in nearby villages. The activities covered under this project are listed below:

- a) Trainings/Meetings to adopt best livestock practices
- b) Exposure Visits
- c) Calf rearing
- d) Deworming
- e) Infertility Camps
- f) Model Fodder Plot Development
- g) Sex Sorted Semen
- h) Artificial Insemination
- i) Vaccination for livestock
- j) Mineral Mixers



- SELF HELP GROUP**

Adani Foundation is working with SHGs groups in nearby 8 villages. The focus is on development of new SHGs and to empower them/make them self-sustained. Exposure visits are conducted for SHGs and material support is extended by Adani Foundation. During the first half of the FY 2021-22, various trainings and meetings conducted for SHGs.



C. Community Health:

The Adani Foundation firmly believe that improving the health of citizens can directly result in economic growth of the nation. Healthy people can utilise growth opportunities made available to them in a better way. Adani Foundation have committed itself to raising the standards of and strengthening healthcare systems in and around our operational village in Hazira area to ensure healthy lives and promote well-being at all ages in alignment with Sustainable Development Goals of the UN.

De-addiction Programme and Health Camps are regular activities which are carried out during the FY2021-22.



Media Coverage of the Adani Foundation – Hazira Activities during H1 – FY 2021-22



ઉત્થાન શાળા પ્રોજેક્ટ હેઠળ

વિદ્યાર્થીઓએ Plastic Waste Management Plant ની ઓનલાઈન મુલાકાત લીધી



સુરત: કોરોના કાળના કારણે શાળાઓને ઓનલાઈનના માધ્યમથી શિક્ષણ આપવામાં આવી રહ્યું છે. ત્યારે આજે પર્વાવરણની સ્થિતિને ધ્યાનમાં રાખીને અને જીવનશૈલી પર થતી અસરો જાણે, પર્વાવરણને પ્રદુષિત રાખનારા પરિસ્થિતિ વિશે સમજૂતી અને સેવા આપવાના હેતુએ Plastic Waste Management એન્ગેજીંગ પ્રોજેક્ટ અંતર્ગત હજુરા કાંઠા વિસ્તારની શાળાના ધોરણ ૬ થી ૮ના બાળકો માટે Virtual Tour (ઓનલાઈન પ્રવાસ) નું આયોજન કરવામાં આવ્યું હતું. ૨૫ ઓગસ્ટે આ પ્રથમ શાળાના ઉત્થાન સહાયક સેવક ગરુડાસરાએ Plastic Waste Management Plantની રૂબરૂ મુલાકાત કરી અને ત્યાંથી મેજકું હતું.

Tour (ઓનલાઈન પ્રવાસ) નું આયોજન કરવામાં આવ્યું હતું. આ પ્રકલ્પની પ્રાથમિક શાળાઓના ૧૦ સરકારી પ્રાથમિક શાળાના કુલ ૨૭૧ વિદ્યાર્થીઓએ ઓનલાઈન મુલાકાત પ્રવાસનો લાભ લીધો હતો. આ કાર્યક્રમ Ecovision Environmental Resources LLPના સહયોગ પ્રાપ્ત થયો હતો. મોટા પ્રાથમિક શાળાના ઉત્થાન સહાયક સેવકને ગરુડાસરાએ એક રીપોર્ટની જેમ Plastic Waste Management Plantની રૂબરૂ મુલાકાત કરી અને ત્યાંથી મેજકું હતું.

શુક્રવાર ૨૭ ઓગસ્ટ, ૨૦૨૧

સંક્ષિપ્ત સમાચાર

ઉત્થાન શાળાના વિદ્યાર્થીઓએ કરી Plastic Waste Management Plantની ઓનલાઈન મુલાકાત



સુરત: બાળકો પર્વાવરણની માનવજીવન અને જીવસૃષ્ટિ પર થતી અસરો જાણે, પર્વાવરણને પ્રદુષિત કરનારા પરિબળો વિશે સમજૂતી અને ઘટેલું તેમજ અન્ય કચરાના નિકાલની વ્યવસ્થા તેમજ Plastic Waste Management એન્ગેજીંગ બાળકોથી માહિતગાર થાય તે હેતુથી, અદાણી ફાઉન્ડેશન, હજુરાના ઉત્થાન પ્રોજેક્ટ અંતર્ગત હજુરા કાંઠા વિસ્તારની શાળાના ધોરણ ૬ થી ૮ના બાળકો માટે Virtual Tour (ઓનલાઈન પ્રવાસ) નું આયોજન કરવામાં આવ્યું હતું. ૨૫ ઓગસ્ટે યોજાયેલા કાર્યક્રમમાં હજુરા વિસ્તારની ૧૦ સરકારી પ્રાથમિક શાળાના કુલ ૨૭૧ વિદ્યાર્થીઓએ ઓનલાઈન મુલાકાત પ્રવાસનો લાભ લીધો. મોટા પ્રાથમિક શાળાના ઉત્થાન સહાયક સેવક ગરુડાસરાએ Plastic Waste Management Plantની રૂબરૂ મુલાકાત કરી અને ત્યાંથી ઓનલાઈન માધ્યમથી હજુરા, મુન્દ્રા અને નળત્રાણા વિસ્તારના ઉત્થાન પ્રકલ્પની પ્રાથમિક શાળાઓના ૫૨૨ વિદ્યાર્થીઓને જોડ્યા હતા. સેવકને દ્વારા ધ્યાનના સ્થાનિક કર્મચોરીની મદદથી આખા પ્લાન્ટની તમામ પ્રવૃત્તિઓ કમ્પાઉન્ડ રીતે સમજાવી, બાળકોને ઓનલાઈન માધ્યમથી નિદર્શન કરીને તમામ વિગતોથી માહિતગાર કરાવવામાં આવ્યા. સુરત નેચર કલ્પના શ્રી જગદીશભાઈ પરમારની સાથે વિદ્યાર્થીઓએ પ્રશ્નોત્તરી કરી અને પોતાની શંકાનું સમાધાન મેજકું હતું.

Sr. No.	Vertical	Activities/	Approved Budget (In Lacs)	Utilization amount (In Lacs)	Beneficiaries
1	Education	<ul style="list-style-type: none"> Adani foundation is sponsoring and managing the Primary wing of Navchetan Vidyalaya, Junagam. 430 students of Class JRKG to 8 are studying. Students came from 08 nearby villages and very lower socio economical families. 10 Government Primary schools are taken under project Utthan in coastal area of Hazira. AF has provided one Utthan Sahayak (Teacher) in each school, they are teaching slow learners and low achievers. During closure of school, Utthan teachers have taken classes at Faliya and Maholla. AF has also provided hardware and software study materials to the students who have enrolled themselves for Navodaya Vidyalaya Entrance Examination -2020-'21, 22 student have cracked entrance examination and selected. 	142.80	19.01	D: 1821 ID: 5463 Total: 7248
	Health	<ul style="list-style-type: none"> Adani foundation is working with PARIVARTAN trust for addicted people in Choryasi and Olpad blocks. PARIVARTAN treats addicted patients for de-addiction at their center, the program is 21 days residential. Total 13 patients got treatment in this year. Adani Foundation has organized a multi-specialty medical camp in Damka. 86 patients were treated. Regular gynecologist's visit is going on, in villages of Hazira coastal area of Choryasi. During these visits doctor treated adolescent girls, pregnant and lactating mothers and others women of villages total 9 visits conducted and 180 patients treated. Adani foundation has provided oxygen plants to Govt. hospital, Chikhli and Municipal hospital, Surat. To provide better healthcare facilities in Govt. hospital and improve facilities to serve community. 	104.45	46.79	D: 1049 ID: 3147 Total: 4196
	Sustainable Livelihood Development	<ul style="list-style-type: none"> Training of SHG members at Damka village was carried out to prepare mouth-fresheners. A faculty was from KRISHI VIGYAN KENDRA, Surat, 13 members of SHG trained. Adani Foundation is conducting separate activities in 31 villages of Choryasi and Olpad talukas under animal husbandry business, in which 786 animals have been artificially inseminated so far, 339 farmers of 12 villages have been trained in animal husbandry business. Animal Health Camps were conducted in 4 villages in which 147 animals were treated, 17 farmers of 4 villages were given BNH-10 for green fodder, to provide nutritious food to the animals, 328 farmers of 9 villages were given 984 kg mineral mixture for livestock development. AF selected 34 progressive farmers and provided 425 Kgs. of Paddy – GNR 3 seeds for the demonstration purpose. AF has distributed 1475 various varieties of mangoes saplings to 90 farmers in Hazira coastal area. AF selected 03 Primary Schools of Junagam, Hazira, Damka and started Eco Club project. To educate and sensitize students on ecological concepts and environment issues and ways for regenerating their schools and local surrounding. 150 students and two interested teachers are selected as PARYAVARN RAKSHAK. Completed snake awareness program in three school and 03 villages. 	147.43	18.02	D: 1335 ID: 4005 Total: 5340
	Civil Infrastructure Development	<ul style="list-style-type: none"> NA 	248.03	24.17	0

D: Direct Beneficiaries,
ID: Indirect Beneficiaries

ANNEXURE-3

Photographs of Green Belt Area and Air Pollution Control Measures



**Covered Coal Conveyor
Belt**



Wind Brake Shield At Coal Yard Area



Dust Suppression System (DSS)

Mist Canon System To Arrest Dust: -



**Water Sprinkling at Coal
Discharge Chute**



**Water Sprinkling at
Coal Yard Area**



Regular Water Sprinkling On Coal Heaps



Cargo Covered With Tarpaulin



Dumper Covered With Tarpaulin

Road Sweeping

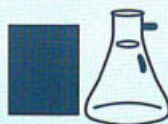


Green Belt Area



Annexure 4

Environment Monitoring Report (April 2021 – September 2021)



4A. AMBIENT AIR QUALITY MONITORING (APRIL 2021 TO SEPTEMBER 2021): -

Table-1.1: Ambient Air Quality Monitoring Results At Near Port Gate No.: 2

Sr. No.	Date of Sampling	Location-1: Near Port Gate No.: 2 (N 21° 05.426'E 72° 37.739')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2021	74.25	38.51	ND*	ND*	ND*	ND*	0.74	ND*	38.15	19.25	33.45	28.33
2	05/04/2021	80.36	44.22	0.75	ND*	2.42	ND*	0.64	ND*	22.52	24.72	38.32	24.59
3	08/04/2021	75.57	34.54	ND*	ND*	ND*	ND*	0.95	ND*	33.55	20.63	41.54	29.55
4	12/04/2021	88.22	42.59	ND*	ND*	ND*	ND*	0.71	ND*	30.35	22.20	45.35	21.67
5	15/04/2021	77.55	37.85	ND*	ND*	ND*	ND*	0.86	ND*	23.27	13.82	34.24	27.23
6	19/04/2021	92.51	50.58	0.80	ND*	2.34	ND*	0.92	ND*	37.34	26.31	39.51	25.35
7	22/04/2021	81.22	47.55	ND*	ND*	ND*	ND*	0.98	ND*	25.73	17.83	35.38	23.58
8	26/04/2021	90.34	40.32	ND*	ND*	ND*	ND*	0.90	ND*	27.64	25.27	42.56	18.24
9	29/04/2021	87.54	48.82	0.62	ND*	2.26	ND*	0.65	ND*	41.57	18.4	31.53	19.46
10	03/05/2021	90.22	51.51	0.72	ND*	2.52	10.43	0.53	ND*	33.75	21.57	32.46	21.56
11	06/05/2021	81.34	47.65	ND*	ND*	ND*	ND*	0.46	ND*	27.27	23.20	35.61	18.38
12	10/05/2021	80.27	41.57	ND*	ND*	ND*	ND*	0.87	ND*	23.46	17.65	29.66	23.55
13	13/05/2021	93.63	53.40	0.84	ND*	2.62	10.66	0.80	ND*	31.57	25.30	38.65	22.22
14	20/05/2021	88.26	49.57	ND*	ND*	ND*	ND*	0.56	ND*	29.46	19.45	33.42	29.43
15	24/05/2021	92.45	52.37	0.75	ND*	2.35	10.61	0.71	ND*	40.22	24.32	37.28	26.52
16	27/05/2021	83.41	46.26	ND*	ND*	ND*	ND*	0.64	ND*	25.65	26.38	45.35	24.77
17	31/05/2021	78.65	38.52	ND*	ND*	ND*	ND*	0.78	ND*	37.12	15.85	40.62	28.33
18	03/06/2021	94.27	53.54	0.85	ND*	2.22	10.43	0.94	ND*	29.44	20.59	38.55	22.47
19	07/06/2021	84.54	45.22	ND*	ND*	ND*	ND*	0.87	ND*	32.44	22.53	32.57	26.73
20	10/06/2021	74.57	40.24	ND*	ND*	ND*	ND*	1.03	ND*	26.27	16.55	30.47	24.37
21	14/06/2021	91.54	52.64	0.76	ND*	2.68	10.70	0.96	ND*	34.51	26.23	39.69	20.46
22	17/06/2021	78.37	36.53	ND*	ND*	ND*	ND*	0.98	ND*	28.67	24.35	28.56	28.23
23	21/06/2021	85.71	41.19	ND*	ND*	ND*	ND*	0.73	ND*	36.87	18.75	35.66	13.81
24	24/06/2021	93.53	50.37	0.77	ND*	2.22	10.55	0.82	ND*	39.15	25.34	40.42	25.36
25	28/06/2021	87.51	43.61	ND*	ND*	ND*	ND*	0.76	ND*	37.12	21.58	34.29	23.47
26	01/07/2021	93.48	52.37	0.66	ND*	2.64	10.37	0.76	ND*	34.82	22.59	37.54	28.8
27	05/07/2021	78.55	42.39	ND*	ND*	ND*	ND*	0.74	ND*	20.14	19.23	40.38	21.65
28	08/07/2021	86.51	50.30	0.77	ND*	2.45	10.24	0.61	ND*	29.92	24.55	33.62	30.42
29	12/07/2021	77.81	30.36	ND*	ND*	ND*	ND*	0.46	ND*	26.36	20.50	34.42	23.77

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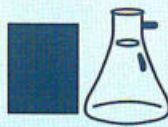
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30	15/07/2021	89.55	47.21	ND*	ND*	ND*	ND*	0.85	ND*	30.39	18.71	39.29	27.2
31	19/07/2021	69.32	44.77	ND*	ND*	ND*	ND*	0.95	ND*	37.67	16.43	36.27	26.33
32	22/07/2021	85.34	48.25	0.68	ND*	2.56	10.77	1.03	ND*	22.53	23.31	42.71	29.51
33	26/07/2021	79.52	41.53	ND*	ND*	ND*	ND*	0.55	ND*	27.41	17.85	30.36	25.8
34	29/07/2021	90.22	49.28	ND*	ND*	ND*	ND*	0.86	ND*	35.66	21.28	38.58	20.87
35	02/08/2021	76.35	43.40	ND*	ND*	ND*	ND*	0.87	ND*	27.57	16.63	39.56	21.47
36	05/08/2021	85.60	51.53	ND*	ND*	ND*	ND*	0.65	ND*	35.35	20.60	34.66	16.36
37	09/08/2021	92.42	47.64	0.85	ND*	2.76	10.88	0.98	ND*	31.47	26.35	44.57	27.94
38	12/08/2021	78.39	44.20	ND*	ND*	ND*	ND*	0.64	ND*	37.64	21.73	42.71	22.90
39	16/08/2021	86.36	48.62	ND*	ND*	ND*	ND*	0.71	ND*	41.38	17.65	36.40	29.47
40	19/08/2021	75.31	42.23	ND*	ND*	ND*	ND*	0.82	ND*	25.66	19.31	33.94	24.32
41	23/08/2021	94.28	52.36	0.58	ND*	2.42	10.49	0.90	ND*	34.33	12.40	30.34	26.17
42	26/08/2021	89.31	45.27	ND*	ND*	ND*	ND*	1.03	ND*	28.45	25.15	41.57	28.78
43	30/08/2021	79.42	40.34	ND*	ND*	ND*	ND*	0.97	ND*	32.31	23.51	35.36	25.42
44	02/09/2021	69.34	32.40	ND*	ND*	ND*	ND*	0.63	ND*	22.48	23.46	34.44	19.56
45	06/09/2021	79.52	48.33	0.63	ND*	2.56	10.66	1.01	ND*	33.46	15.84	37.70	15.62
46	09/09/2021	72.69	34.54	ND*	ND*	ND*	ND*	0.89	ND*	20.33	21.59	32.45	22.42
47	13/09/2021	67.51	31.65	ND*	ND*	ND*	ND*	0.95	ND*	32.49	18.34	36.36	25.36
48	16/09/2021	78.62	44.34	ND*	ND*	ND*	ND*	1.00	ND*	26.32	20.61	31.72	23.49
49	20/09/2021	80.62	49.68	0.80	ND*	2.42	10.37	0.71	ND*	29.41	25.51	38.49	18.38
50	23/09/2021	77.52	37.65	ND*	ND*	ND*	ND*	0.85	ND*	23.68	17.84	26.52	20.68
51	27/09/2021	70.62	30.37	ND*	ND*	ND*	ND*	0.92	ND*	31.59	22.38	33.8	24.66
52	30/09/2021	81.36	43.58	0.72	ND*	ND*	10.60	0.73	ND*	28.64	19.35	39.49	21.52

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5
 ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01
 ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2
 ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 ND*: - Not Detected - Arsenic as As (ng/m^3): 2
 ND*: - Not Detected - Nickel as Ni (ng/m^3): 5

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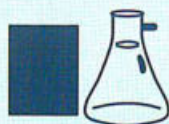


Table-1.2: Ambient Air Quality Monitoring Results at HSE Building Terrace

Sr. No.	Date of Sampling	Location-2: HSE Building Terrace (N 21° 05.043' E 72° 38.491')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2021	50.27	24.37	ND*	ND*	ND*	ND*	0.34	ND*	16.53	13.69	28.24	26.25
2	05/04/2021	62.33	32.51	ND*	ND*	ND*	ND*	0.57	ND*	10.52	11.65	23.66	18.33
3	08/04/2021	52.37	26.32	ND*	ND*	ND*	ND*	0.70	ND*	12.36	16.43	31.62	23.44
4	12/04/2021	69.27	30.67	ND*	ND*	ND*	ND*	0.60	ND*	21.63	10.39	26.21	25.83
5	15/04/2021	71.21	31.58	ND*	ND*	ND*	ND*	0.79	ND*	13.73	8.93	21.63	16.29
6	19/04/2021	63.64	36.37	ND*	ND*	ND*	ND*	0.55	ND*	23.44	12.63	25.26	13.55
7	22/04/2021	70.63	33.55	ND*	ND*	ND*	ND*	0.78	ND*	14.46	15.10	19.5	11.57
8	26/04/2021	54.26	28.74	ND*	ND*	ND*	ND*	0.63	ND*	18.27	18.68	22.44	14.43
9	29/04/2021	80.21	45.66	ND*	ND*	ND*	ND*	0.53	ND*	22.34	14.31	24.34	12.30
10	03/05/2021	77.55	41.25	ND*	ND*	ND*	ND*	0.44	ND*	12.62	11.58	21.56	15.23
11	06/05/2021	64.51	36.83	ND*	ND*	ND*	ND*	0.60	ND*	17.52	16.56	28.23	20.24
12	10/05/2021	70.25	38.28	ND*	ND*	ND*	ND*	0.45	ND*	15.36	13.44	25.37	12.56
13	13/05/2021	55.36	27.62	ND*	ND*	ND*	ND*	0.76	ND*	13.43	15.68	27.52	14.57
14	20/05/2021	72.43	35.52	ND*	ND*	ND*	ND*	0.66	ND*	16.33	14.38	30.24	26.86
15	24/05/2021	58.36	26.53	ND*	ND*	ND*	ND*	0.37	ND*	19.56	8.40	16.44	22.38
16	27/05/2021	73.55	39.27	ND*	ND*	ND*	ND*	0.26	ND*	14.24	12.26	24.21	18.29
17	31/05/2021	50.24	19.67	ND*	ND*	ND*	ND*	0.49	ND*	27.54	10.40	29.32	23.45
18	03/06/2021	84.23	45.68	ND*	ND*	ND*	ND*	0.62	ND*	19.52	12.58	24.62	12.55
19	07/06/2021	60.22	35.41	ND*	ND*	ND*	ND*	0.44	ND*	15.32	18.53	27.23	21.57
20	10/06/2021	69.44	32.48	ND*	ND*	ND*	ND*	0.84	ND*	13.41	9.55	18.70	16.23
21	14/06/2021	58.63	28.35	ND*	ND*	ND*	ND*	0.45	ND*	16.53	19.52	36.47	18.27
22	17/06/2021	68.22	30.44	ND*	ND*	ND*	ND*	0.65	ND*	25.34	14.33	23.74	24.54
23	21/06/2021	80.22	34.26	ND*	ND*	ND*	ND*	0.48	ND*	20.47	16.98	31.26	11.26
24	24/06/2021	62.51	23.44	ND*	ND*	ND*	ND*	0.29	ND*	18.94	11.51	20.31	23.68
25	28/06/2021	72.53	37.54	ND*	ND*	ND*	ND*	0.49	ND*	27.52	13.53	25.83	17.83
26	01/07/2021	82.39	43.88	ND*	ND*	ND*	ND*	0.54	ND*	18.52	14.62	20.62	18.3
27	05/07/2021	68.58	34.58	ND*	ND*	ND*	ND*	0.37	ND*	11.49	11.45	23.68	14.68
28	08/07/2021	60.48	33.53	ND*	ND*	ND*	ND*	0.56	ND*	21.59	18.28	27.61	20.33
29	12/07/2021	56.36	23.66	ND*	ND*	ND*	ND*	0.27	ND*	29.67	16.90	29.58	15.68
30	15/07/2021	75.31	36.54	ND*	ND*	ND*	ND*	0.77	ND*	26.46	13.27	32.35	16.32
31	19/07/2021	53.99	22.76	ND*	ND*	ND*	ND*	0.81	ND*	23.69	10.50	21.63	21.35

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32	22/07/2021	63.49	35.43	ND*	ND*	ND*	ND*	0.65	ND*	17.55	19.61	34.27	25.34
33	26/07/2021	66.78	32.57	ND*	ND*	ND*	ND*	0.32	ND*	19.33	15.32	26.69	12.81
34	29/07/2021	70.28	37.02	ND*	ND*	ND*	ND*	0.38	ND*	22.77	12.54	31.70	24.28
35	02/08/2021	54.66	24.31	ND*	ND*	ND*	ND*	0.34	ND*	14.37	8.74	31.60	23.44
36	05/08/2021	71.28	42.65	ND*	ND*	ND*	ND*	0.57	ND*	21.22	10.35	21.67	18.14
37	09/08/2021	76.52	35.83	ND*	ND*	ND*	ND*	0.29	ND*	18.39	16.52	26.49	13.57
38	12/08/2021	68.57	27.51	ND*	ND*	ND*	ND*	0.70	ND*	15.94	18.58	32.47	14.99
39	16/08/2021	81.69	44.36	ND*	ND*	ND*	ND*	0.42	ND*	31.54	11.29	16.54	26.54
40	19/08/2021	70.29	25.35	ND*	ND*	ND*	ND*	0.62	ND*	10.97	13.53	24.37	17.41
41	23/08/2021	57.34	34.35	ND*	ND*	ND*	ND*	0.50	ND*	23.54	6.29	15.62	20.19
42	26/08/2021	74.55	39.47	ND*	ND*	ND*	ND*	0.86	ND*	20.32	17.83	27.86	22.34
43	30/08/2021	69.33	32.42	ND*	ND*	ND*	ND*	0.74	ND*	29.31	19.53	30.66	19.51
44	02/09/2021	55.31	25.48	ND*	ND*	ND*	ND*	0.46	ND*	16.39	15.64	18.36	22.65
45	06/09/2021	70.65	36.33	ND*	ND*	ND*	ND*	0.26	ND*	19.58	12.72	30.47	12.16
46	09/09/2021	50.62	22.48	ND*	ND*	ND*	ND*	0.80	ND*	13.66	17.35	19.70	18.55
47	13/09/2021	46.36	18.60	ND*	ND*	ND*	ND*	0.65	ND*	17.85	10.71	24.28	20.37
48	16/09/2021	54.50	26.51	ND*	ND*	ND*	ND*	0.57	ND*	20.58	16.28	21.55	11.67
49	20/09/2021	63.55	34.43	ND*	ND*	ND*	ND*	0.50	ND*	12.61	19.72	27.48	15.71
50	23/09/2021	68.43	28.45	ND*	ND*	ND*	ND*	0.37	ND*	15.63	8.59	23.62	10.80
51	27/09/2021	71.36	33.45	ND*	ND*	ND*	ND*	0.52	ND*	11.49	14.47	20.36	17.78
52	30/09/2021	59.57	35.35	ND*	ND*	ND*	ND*	0.62	ND*	18.28	6.56	16.37	16.24

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5
ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01
ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2
ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
ND*: - Not Detected - Arsenic as As (ng/m^3): 2
ND*: - Not Detected - Nickel as Ni (ng/m^3): 5

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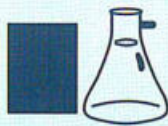


Table-1.3: Ambient Air Quality Monitoring Results at Central Water Pump House

Sr. No.	Date of Sampling	Location-3: Central Water Pump House (N 21° 04.697'E 72° 38.420')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2021	56.36	28.67	ND*	ND*	ND*	ND*	0.29	ND*	18.51	6.48	21.26	17.58
2	05/04/2021	67.66	37.29	ND*	ND*	ND*	ND*	0.18	ND*	27.24	18.26	30.34	11.66
3	08/04/2021	58.24	20.24	ND*	ND*	ND*	ND*	0.48	ND*	21.53	10.32	25.37	14.26
4	12/04/2021	62.44	24.25	ND*	ND*	ND*	ND*	0.37	ND*	14.54	15.61	32.33	19.31
5	15/04/2021	57.27	29.55	ND*	ND*	ND*	ND*	0.69	ND*	11.27	17.52	29.43	22.23
6	19/04/2021	72.26	32.83	ND*	ND*	ND*	ND*	0.72	ND*	19.21	13.56	20.54	18.15
7	22/04/2021	54.31	26.11	ND*	ND*	ND*	ND*	0.49	ND*	12.81	7.50	17.54	15.52
8	26/04/2021	65.44	31.62	ND*	ND*	ND*	ND*	0.39	ND*	22.41	11.35	26.37	10.88
9	29/04/2021	71.52	41.52	ND*	ND*	ND*	ND*	0.26	ND*	25.65	8.30	28.68	21.46
10	03/05/2021	62.45	26.50	ND*	ND*	ND*	ND*	0.38	ND*	10.25	9.55	16.55	19.57
11	06/05/2021	75.66	39.54	ND*	ND*	ND*	ND*	0.36	ND*	25.35	14.63	25.24	16.47
12	10/05/2021	64.23	25.30	ND*	ND*	ND*	ND*	0.30	ND*	20.32	11.31	19.35	17.26
13	13/05/2021	50.33	22.40	ND*	ND*	ND*	ND*	0.52	ND*	11.23	17.23	23.55	12.30
14	20/05/2021	52.41	24.54	ND*	ND*	ND*	ND*	0.18	ND*	21.86	12.37	18.68	22.61
15	24/05/2021	76.26	40.22	ND*	ND*	ND*	ND*	0.29	ND*	34.23	16.42	24.63	24.23
16	27/05/2021	60.55	36.28	ND*	ND*	ND*	ND*	0.50	ND*	18.53	10.53	29.44	13.43
17	31/05/2021	55.81	23.59	ND*	ND*	ND*	ND*	0.32	ND*	22.51	13.55	26.22	25.52
18	03/06/2021	68.53	25.62	ND*	ND*	ND*	ND*	0.40	ND*	21.22	7.66	15.38	20.58
19	07/06/2021	72.65	29.86	ND*	ND*	ND*	ND*	0.24	ND*	28.42	15.28	24.35	17.65
20	10/06/2021	46.21	18.63	ND*	ND*	ND*	ND*	0.63	ND*	22.66	12.31	20.51	12.76
21	14/06/2021	66.56	30.57	ND*	ND*	ND*	ND*	0.70	ND*	13.95	9.67	26.86	14.63
22	17/06/2021	70.63	33.45	ND*	ND*	ND*	ND*	0.38	ND*	10.82	6.27	12.65	16.68
23	21/06/2021	62.34	26.25	ND*	ND*	ND*	ND*	0.64	ND*	23.51	8.33	25.63	24.24
24	24/06/2021	71.56	37.64	ND*	ND*	ND*	ND*	0.37	ND*	30.73	14.52	30.62	19.38
25	28/06/2021	67.04	32.12	ND*	ND*	ND*	ND*	0.22	ND*	20.57	16.27	21.35	11.54
26	01/07/2021	76.55	37.56	ND*	ND*	ND*	ND*	0.50	ND*	23.59	17.54	26.37	13.6
27	05/07/2021	58.47	24.27	ND*	ND*	ND*	ND*	0.40	ND*	17.27	7.68	19.6	11.25
28	08/07/2021	68.66	36.31	ND*	ND*	ND*	ND*	0.14	ND*	25.34	9.66	22.34	18.68
29	12/07/2021	61.36	28.61	ND*	ND*	ND*	ND*	0.33	ND*	15.52	11.6	14.61	10.33
30	15/07/2021	55.66	22.54	ND*	ND*	ND*	ND*	0.44	ND*	19.52	16.43	21.34	12.30
31	19/07/2021	46.72	19.66	ND*	ND*	ND*	ND*	0.34	ND*	28.37	6.27	17.54	23.48

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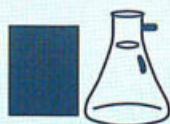
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32	22/07/2021	74.53	35.56	ND*	ND*	ND*	ND*	0.62	ND*	12.62	10.33	16.38	21.25
33	26/07/2021	56.22	25.33	ND*	ND*	ND*	ND*	0.39	ND*	24.59	12.59	23.52	15.38
34	29/07/2021	62.33	32.18	ND*	ND*	ND*	ND*	0.48	ND*	27.32	15.84	35.29	17.52
35	02/08/2021	51.51	27.34	ND*	ND*	ND*	ND*	0.60	ND*	19.54	6.59	19.59	17.18
36	05/08/2021	62.46	32.57	ND*	ND*	ND*	ND*	0.80	ND*	26.52	18.37	30.48	12.26
37	09/08/2021	70.35	40.27	ND*	ND*	ND*	ND*	0.46	ND*	10.34	10.51	33.61	15.33
38	12/08/2021	58.65	23.57	ND*	ND*	ND*	ND*	0.40	ND*	23.48	12.45	22.70	11.16
39	16/08/2021	48.64	26.37	ND*	ND*	ND*	ND*	0.66	ND*	28.69	14.55	28.38	19.67
40	19/08/2021	52.46	30.26	ND*	ND*	ND*	ND*	0.56	ND*	13.33	11.31	14.74	14.33
41	23/08/2021	77.22	44.56	ND*	ND*	ND*	ND*	0.58	ND*	18.56	8.36	18.38	23.62
42	26/08/2021	65.23	33.53	ND*	ND*	ND*	ND*	0.55	ND*	15.38	15.56	24.62	18.66
43	30/08/2021	54.28	25.68	ND*	ND*	ND*	ND*	0.63	ND*	21.63	17.19	21.54	13.41
44	02/09/2021	45.43	19.36	ND*	ND*	ND*	ND*	0.49	ND*	19.22	18.19	23.91	12.54
45	06/09/2021	51.31	27.36	ND*	ND*	ND*	ND*	0.31	ND*	14.38	13.38	27.60	17.61
46	09/09/2021	61.61	29.47	ND*	ND*	ND*	ND*	0.34	ND*	18.65	11.42	21.40	11.33
47	13/09/2021	57.35	24.57	ND*	ND*	ND*	ND*	0.76	ND*	13.42	14.70	31.31	23.39
48	16/09/2021	50.36	35.45	ND*	ND*	ND*	ND*	0.24	ND*	10.34	8.29	18.65	15.37
49	20/09/2021	55.38	28.42	ND*	ND*	ND*	ND*	0.25	ND*	25.49	12.25	24.35	13.61
50	23/09/2021	63.45	23.47	ND*	ND*	ND*	ND*	0.47	ND*	17.69	15.4	20.38	19.26
51	27/09/2021	59.42	26.45	ND*	ND*	ND*	ND*	0.42	ND*	21.63	19.53	17.55	14.79
52	30/09/2021	75.42	42.60	ND*	ND*	ND*	ND*	0.56	ND*	15.54	7.59	22.64	18.13

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

- ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.1
 ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01
 ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2
 ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 ND*: - Not Detected - Arsenic as As (ng/m^3): 2
 ND*: - Not Detected - Nickel as Ni (ng/m^3): 5

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Table-1.4: Ambient Air Quality Monitoring Results at Container Terminal

Sr. No.	Date of Sampling	Location-4: Container Terminal (N 21° 05.187'E 72° 37.774)											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2021	69.35	32.49	ND*	ND*	ND*	ND*	0.44	ND*	29.67	11.58	25.15	19.53
2	05/04/2021	75.66	41.40	ND*	ND*	ND*	ND*	0.73	ND*	22.46	6.16	26.15	16.32
3	08/04/2021	64.51	31.21	ND*	ND*	ND*	ND*	0.33	ND*	25.21	13.27	22.32	21.27
4	12/04/2021	74.54	36.59	ND*	ND*	ND*	ND*	0.61	ND*	16.34	19.08	36.16	17.28
5	15/04/2021	61.51	27.89	ND*	ND*	ND*	ND*	0.85	ND*	14.35	10.68	24.28	18.67
6	19/04/2021	82.41	42.30	ND*	ND*	ND*	ND*	0.68	ND*	26.21	15.25	31.43	15.32
7	22/04/2021	65.36	45.70	ND*	ND*	ND*	ND*	0.54	ND*	10.63	9.70	23.53	22.08
8	26/04/2021	60.21	34.34	ND*	ND*	ND*	ND*	0.50	ND*	17.54	17.27	30.64	12.37
9	29/04/2021	58.62	35.57	ND*	ND*	ND*	ND*	0.58	ND*	30.65	12.27	20.26	14.66
10	03/05/2021	68.57	31.59	ND*	ND*	ND*	ND*	0.81	ND*	16.26	13.66	26.36	17.66
11	06/05/2021	53.67	21.66	ND*	ND*	ND*	ND*	0.27	ND*	20.21	11.24	21.24	22.41
12	10/05/2021	59.35	29.22	ND*	ND*	ND*	ND*	0.22	ND*	18.56	7.66	23.31	10.24
13	13/05/2021	78.37	42.38	ND*	ND*	ND*	ND*	0.55	ND*	21.63	12.63	20.47	16.26
14	20/05/2021	62.87	28.51	ND*	ND*	ND*	ND*	0.47	ND*	25.44	16.21	22.32	24.32
15	24/05/2021	70.67	36.51	ND*	ND*	ND*	ND*	0.65	ND*	28.41	14.83	28.68	15.34
16	27/05/2021	52.64	24.35	ND*	ND*	ND*	ND*	0.41	ND*	11.52	18.3	34.56	11.38
17	31/05/2021	67.51	34.19	ND*	ND*	ND*	ND*	0.62	ND*	17.51	8.63	31.25	13.11
18	03/06/2021	60.36	34.55	ND*	ND*	ND*	ND*	0.52	ND*	24.51	14.27	27.51	18.62
19	07/06/2021	68.61	26.51	ND*	ND*	ND*	ND*	0.81	ND*	12.57	12.51	20.63	24.66
20	10/06/2021	50.44	21.56	ND*	ND*	ND*	ND*	0.55	ND*	15.55	15.64	24.29	16.33
21	14/06/2021	77.65	39.37	ND*	ND*	ND*	ND*	0.33	ND*	10.54	17.74	29.49	10.27
22	17/06/2021	56.55	23.43	ND*	ND*	ND*	ND*	0.47	ND*	18.65	11.36	17.57	13.40
23	21/06/2021	70.52	29.45	ND*	ND*	ND*	ND*	0.31	ND*	14.57	10.20	21.55	25.20
24	24/06/2021	78.65	40.66	ND*	ND*	ND*	ND*	0.25	ND*	26.53	16.83	25.47	17.53
25	28/06/2021	55.34	27.33	ND*	ND*	ND*	ND*	0.27	ND*	19.96	6.35	31.57	14.51
26	01/07/2021	70.51	33.84	ND*	ND*	ND*	ND*	0.66	ND*	29.45	8.52	34.55	21.51
27	05/07/2021	65.69	28.47	ND*	ND*	ND*	ND*	0.17	ND*	13.73	18.51	30.49	19.57
28	08/07/2021	77.52	45.25	ND*	ND*	ND*	ND*	0.63	ND*	16.59	16.53	19.36	15.21
29	12/07/2021	72.62	35.60	ND*	ND*	ND*	ND*	0.21	ND*	22.81	14.25	32.57	18.47
30	15/07/2021	66.24	27.57	ND*	ND*	ND*	ND*	0.53	ND*	15.33	10.25	18.44	24.59
31	19/07/2021	59.35	34.18	ND*	ND*	ND*	ND*	0.57	ND*	32.26	12.30	31.60	11.50

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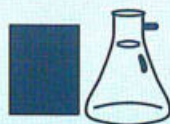
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32	22/07/2021	67.52	41.29	ND*	ND*	ND*	ND*	0.97	ND*	14.39	17.66	21.28	14.39
33	26/07/2021	46.53	21.52	ND*	ND*	ND*	ND*	0.30	ND*	21.29	9.37	17.36	20.21
34	29/07/2021	79.14	43.69	ND*	ND*	ND*	ND*	0.58	ND*	18.39	11.43	25.52	12.94
35	02/08/2021	73.52	36.31	ND*	ND*	ND*	ND*	0.41	ND*	22.59	12.64	23.71	25.64
36	05/08/2021	55.30	25.38	ND*	ND*	ND*	ND*	0.49	ND*	20.59	13.69	26.37	14.85
37	09/08/2021	65.34	31.50	ND*	ND*	ND*	ND*	0.37	ND*	14.59	20.76	29.49	17.64
38	12/08/2021	70.38	38.57	ND*	ND*	ND*	ND*	0.89	ND*	33.37	16.35	27.56	20.39
39	16/08/2021	54.37	30.46	ND*	ND*	ND*	ND*	0.61	ND*	36.58	19.29	24.23	21.79
40	19/08/2021	60.58	35.35	ND*	ND*	ND*	ND*	0.47	ND*	21.37	9.44	20.29	19.35
41	23/08/2021	71.55	39.37	ND*	ND*	ND*	ND*	0.31	ND*	15.36	15.46	33.28	18.59
42	26/08/2021	53.59	24.53	ND*	ND*	ND*	ND*	0.14	ND*	26.41	18.46	30.54	24.54
43	30/08/2021	62.57	28.30	ND*	ND*	ND*	ND*	0.24	ND*	17.66	14.62	18.45	15.61
44	02/09/2021	50.31	22.59	ND*	ND*	ND*	ND*	0.58	ND*	13.33	13.68	27.38	18.46
45	06/09/2021	58.39	39.55	ND*	ND*	ND*	ND*	0.38	ND*	23.58	8.46	23.52	11.45
46	09/09/2021	46.33	19.43	ND*	ND*	ND*	ND*	0.48	ND*	15.46	12.35	28.45	16.69
47	13/09/2021	52.45	21.59	ND*	ND*	ND*	ND*	0.53	ND*	10.63	9.58	21.63	13.53
48	16/09/2021	62.55	31.63	ND*	ND*	ND*	ND*	0.41	ND*	22.68	6.37	15.68	19.65
49	20/09/2021	67.62	42.46	ND*	ND*	ND*	ND*	0.64	ND*	18.34	14.21	19.32	10.53
50	23/09/2021	49.32	26.31	ND*	ND*	ND*	ND*	0.45	ND*	12.41	11.16	16.38	17.53
51	27/09/2021	54.36	23.69	ND*	ND*	ND*	ND*	0.27	ND*	19.33	17.61	26.37	12.21
52	30/09/2021	64.33	38.42	ND*	ND*	ND*	ND*	0.6	ND*	11.32	10.22	29.19	14.28

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

- ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5
- ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01
- ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2
- ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
- ND*: - Not Detected - Arsenic as As (ng/m^3): 2
- ND*: - Not Detected - Nickel as Ni (ng/m^3): 5

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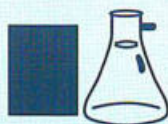


Table-1.5: Ambient Air Quality Monitoring Results at Hazira Village

Sr. No.	Date of Sampling	Location-5: Hazira Village (N 21° 05.44' E 72° 38.44')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	01/04/2021	79.36	35.36	ND*	ND*	ND*	ND*	0.96	ND*	30.57	15.75	30.58	23.67
2	05/04/2021	85.34	48.43	0.84	ND*	2.62	ND*	0.81	ND*	33.46	22.35	35.65	21.57
3	08/04/2021	70.36	37.55	ND*	ND*	ND*	ND*	0.87	ND*	15.61	18.77	39.11	25.64
4	12/04/2021	83.44	45.50	ND*	ND*	ND*	ND*	0.66	ND*	26.55	26.26	42.36	27.58
5	15/04/2021	66.52	34.80	ND*	ND*	ND*	ND*	1.01	ND*	20.55	20.33	38.45	24.27
6	19/04/2021	87.67	46.58	0.69	ND*	2.52	ND*	0.76	ND*	32.45	23.43	36.23	28.27
7	22/04/2021	75.21	40.36	ND*	ND*	ND*	ND*	0.89	ND*	22.63	13.42	27.66	18.58
8	26/04/2021	86.26	44.17	ND*	ND*	ND*	ND*	0.62	ND*	25.34	21.25	33.33	16.64
9	29/04/2021	93.43	38.26	0.50	ND*	2.45	ND*	0.45	ND*	28.37	24.25	40.35	13.23
10	03/05/2021	82.66	46.29	0.62	ND*	2.26	10.18	0.58	ND*	25.55	16.8	28.56	25.33
11	06/05/2021	89.36	43.51	ND*	ND*	ND*	ND*	0.72	ND*	23.54	21.2	31.36	27.86
12	10/05/2021	75.34	34.64	ND*	ND*	ND*	ND*	0.40	ND*	13.67	15.25	35.42	21.67
13	13/05/2021	88.25	47.58	0.72	ND*	2.42	10.51	0.74	ND*	24.20	23.51	32.56	24.55
14	20/05/2021	77.63	45.57	ND*	ND*	ND*	ND*	0.82	ND*	33.43	22.3	37.65	20.85
15	24/05/2021	87.62	48.54	0.65	ND*	2.15	10.33	0.61	ND*	37.52	20.26	33.66	28.12
16	27/05/2021	78.81	42.24	ND*	ND*	ND*	ND*	0.57	ND*	21.56	24.51	40.24	22.58
17	31/05/2021	86.45	30.66	ND*	ND*	ND*	ND*	0.39	ND*	34.37	18.53	36.44	18.53
18	03/06/2021	89.61	49.37	0.73	ND*	2.34	10.26	0.86	ND*	33.44	17.49	35.45	15.34
19	07/06/2021	78.55	42.55	ND*	ND*	ND*	ND*	0.6	ND*	20.17	20.46	32.39	22.58
20	10/06/2021	64.27	28.52	ND*	ND*	ND*	ND*	0.71	ND*	18.23	14.59	27.60	18.89
21	14/06/2021	86.52	50.25	0.62	ND*	2.42	10.44	0.88	ND*	30.22	22.96	33.47	23.52
22	17/06/2021	62.42	25.31	ND*	ND*	ND*	ND*	0.78	ND*	21.53	16.72	25.36	25.58
23	21/06/2021	75.64	38.67	ND*	ND*	ND*	ND*	0.61	ND*	28.82	21.24	40.24	21.22
24	24/06/2021	85.33	44.25	0.65	ND*	2.16	10.39	0.92	ND*	25.41	23.49	34.6	27.52
25	28/06/2021	77.21	40.87	ND*	ND*	ND*	ND*	0.85	ND*	34.35	15.34	28.69	29.27
26	01/07/2021	88.63	47.54	0.56	ND*	2.46	10.60	0.98	ND*	31.59	25.37	31.25	23.56
27	05/07/2021	72.61	31.25	ND*	ND*	ND*	ND*	0.84	ND*	24.46	16.27	37.37	25.61
28	08/07/2021	81.53	48.23	0.61	ND*	2.25	10.14	0.90	ND*	35.38	21.56	30.54	19.41
29	12/07/2021	68.47	30.26	ND*	ND*	ND*	ND*	0.42	ND*	32.56	18.47	26.91	21.83
30	15/07/2021	82.46	43.38	ND*	ND*	ND*	ND*	0.60	ND*	38.63	20.29	35.36	22.67
31	19/07/2021	64.51	40.66	ND*	ND*	ND*	ND*	0.73	ND*	40.25	14.54	28.36	29.25

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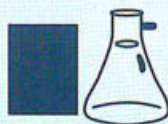
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32	22/07/2021	80.27	45.33	0.54	ND*	2.40	10.44	0.52	ND*	26.58	22.33	38.69	20.8
33	26/07/2021	73.57	35.80	ND*	ND*	ND*	ND*	0.47	ND*	33.66	19.63	33.44	24.36
34	29/07/2021	85.53	46.35	ND*	ND*	ND*	ND*	0.80	ND*	30.61	17.36	29.34	26.46
35	02/08/2021	66.31	32.43	ND*	ND*	ND*	ND*	0.68	ND*	18.65	18.64	37.60	25.16
36	05/08/2021	77.5	38.44	ND*	ND*	ND*	ND*	1.02	ND*	33.52	15.28	23.47	28.47
37	09/08/2021	82.68	45.32	0.75	ND*	2.36	10.11	0.88	ND*	27.33	22.32	38.54	22.66
38	12/08/2021	52.67	20.32	ND*	ND*	ND*	ND*	0.76	ND*	36.43	19.63	29.40	27.59
39	16/08/2021	74.32	42.34	ND*	ND*	ND*	ND*	0.94	ND*	24.51	24.54	32.57	23.21
40	19/08/2021	65.42	39.21	ND*	ND*	ND*	ND*	0.44	ND*	15.65	17.56	27.39	20.27
41	23/08/2021	86.85	47.54	0.75	ND*	2.24	10.70	0.85	ND*	31.37	20.35	39.63	29.37
42	26/08/2021	80.35	41.62	ND*	ND*	ND*	ND*	0.96	ND*	23.68	23.64	34.32	16.16
43	30/08/2021	73.67	36.45	ND*	ND*	ND*	ND*	0.92	ND*	26.33	21.67	28.55	21.51
44	02/09/2021	62.49	28.39	ND*	ND*	ND*	ND*	0.78	ND*	24.31	21.61	30.72	13.86
45	06/09/2021	75.6	42.63	0.55	ND*	2.18	10.39	0.61	ND*	29.64	18.61	33.73	16.57
46	09/09/2021	66.38	30.27	ND*	ND*	ND*	ND*	0.74	ND*	23.49	13.27	25.38	25.73
47	13/09/2021	61.36	27.52	ND*	ND*	ND*	ND*	0.86	ND*	22.33	16.58	27.65	19.38
48	16/09/2021	67.52	38.63	ND*	ND*	ND*	ND*	0.77	ND*	30.63	19.14	26.27	21.24
49	20/09/2021	79.49	45.7	0.69	ND*	2.36	10.18	0.94	ND*	16.64	22.42	34.26	24.35
50	23/09/2021	73.46	33.55	ND*	ND*	ND*	ND*	0.79	ND*	19.48	14.67	29.4	14.67
51	27/09/2021	64.36	29.44	ND*	ND*	ND*	ND*	0.88	ND*	21.65	24.54	36.53	22.15
52	30/09/2021	70.54	40.65	0.62	ND*	ND*	10.22	0.69	ND*	25.38	20.24	32.70	18.66

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

ND*: - Not Detected - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.1
 ND*: - Not Detected - Carbon Monoxide as CO (mg/m^3): 0.01
 ND*: - Not Detected - Benzene as C_6H_6 ($\mu\text{g}/\text{m}^3$): 2
 ND*: - Not Detected - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 ND*: - Not Detected - Arsenic as As (ng/m^3): 2
 ND*: - Not Detected - Nickel as Ni (ng/m^3): 5

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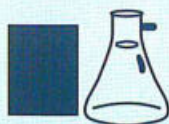
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4B. GROUND WATER QUALITY MONITORING: -

Table-1.6A: Ground Water Quality Results for the period: April, 2021 to September, 2021

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
			15/04/2021	06/05/2021	25/06/2021	29/07/2021	31/08/2021	29/09/2021
1	Colour	Hazen	3	4	3	4	2	2
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.12	0.15	0.17	0.18	0.17	0.13
5	pH Value	--	7.58	7.42	7.69	7.58	7.61	7.74
6	Total Hardness as CaCO ₃	mg/L	362	386	413	364	420	406
7	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Chloride as Cl	mg/L	152	132	140	128	148	114
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	0.3	0.37	0.28	0.36	0.17	0.21
11	Total Dissolved Solids	mg/L	1423	1327	1293	1328	1248	984
12	Calcium as Ca	mg/L	38.4	42.4	46.4	48.4	52	74.4
13	Magnesium as Mg	mg/L	63.84	67.2	71.28	58.32	62.88	52.8
14	Copper as Cu	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
16	Sulphate as SO ₄	mg/L	72.4	79.0	72.3	69.3	22.9	24.6
17	Nitrate Nitrogen as NO ₃	mg/L	13.80	11.20	9.64	7.46	7.20	5.32
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
22	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.093	0.120	0.150	0.210	0.180	0.240
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromium as Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	623	593	524	413	416	403
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
31	Boron as B	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32	Pesticides							
32.1	Alachlor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.4	Alpha HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.5	Beta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyrifos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected



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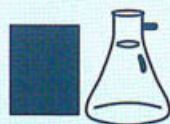
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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER BORE WELL					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
			15/04/2021	06/05/2021	25/06/2021	29/07/2021	31/08/2021	29/09/2021
32.8	Delta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p&p,p-Isomers of DDT, DDE & DDD	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 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 Ground Water.

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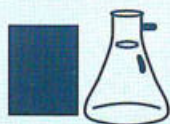


Table-1.6B: Ground Water Quality Results for the period: April, 2021 to September, 2021

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
			15/04/2021	06/05/2021	25/06/2021	29/07/2021	31/08/2021	29/09/2021
1	Colour	Hazen	4	3	4	3	4	3
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.16	0.12	0.15	0.19	0.15	0.17
5	pH Value	--	8.13	8.03	7.93	7.86	7.78	7.83
6	Total Hardness as CaCO ₃	mg/L	382	364	402	392	360	356
7	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Chloride as Cl	mg/L	102	112	123	112	132	108
9	Residual Free Chlorine	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
10	Fluoride as F	mg/L	Not Detected	Not Detected	0.075	0.093	0.093	0.098
11	Total Dissolved Solids	mg/L	1026	1056	1027	1168	928	906
12	Calcium as Ca	mg/L	67.2	62.8	56.8	58.4	48.0	52.8
13	Magnesium as Mg	mg/L	51.36	49.68	62.4	59.04	57.6	53.78
14	Copper as Cu	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
15	Manganese as Mn	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
16	Sulphate as SO ₄	mg/L	30.6	35.4	31.8	35.8	18.4	16.4
17	Nitrate Nitrogen as NO ₃	mg/L	9.84	7.56	5.92	6.39	5.68	4.28
18	Phenolic compounds as C ₆ H ₅ OH	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
19	Mercury as Hg	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
20	Cadmium as Cd	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
21	Selenium as Se	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
22	Arsenic as As	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
23	Cyanide as CN	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
24	Lead as Pb	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
25	Zinc as Zn	mg/L	0.14	0.19	0.17	0.19	0.14	0.12
26	Anionic Detergents as MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
27	Chromium as Cr ⁺⁶	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
28	Mineral Oil	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
29	Alkalinity	mg/L	376	365	328	304	312	326
30	Aluminum as Al	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
31	Boron as B	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32								
32.1	Alachor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.2	Atrazine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.3	Aldrin/Dieldrine	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.4	Alpha HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.5	Beta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.6	Butachlor	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.7	Chlorpyrifos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.8	Delta HCH	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

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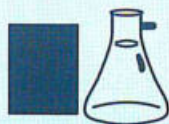
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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
			15/04/2021	06/05/2021	25/06/2021	29/07/2021	31/08/2021	29/09/2021
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.10	DDT (o,p&p,p-Isomers of DDT, DDE & DDD	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.12	Ethion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.13	Gamma – HCH (Lindane)	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.14	Isoproturon	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.15	Malathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.16	Methyl Parathion	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.17	Monocrotophos	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
32.18	Phorate	µg/l	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 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 Ground Water.

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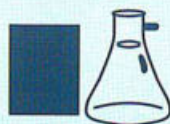
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4C. SURFACE WATER QUALITY MONITORING: -

Table-1.7: Surface Water (Pond) Quality Results for the period: April, 2021 to September, 2021

Sr. No.	Parameters	Unit	At Mora Village (Surface Water – Pond)					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
			15/04/2021	06/05/2021	25/06/2021	29/07/2021	31/08/2021	29/09/2021
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	7	5	4	3	2	3
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	7.59	7.31	7.19	7.36	7.21	7.64
5	Turbidity	NTU	0.13	0.15	0.13	0.15	0.11	0.12
6	Total Dissolved Solids	mg/L	714	702	719	629	608	738
7	Total Hardness as CaCO ₃	mg/L	309	324	336	298	216	246
8	Chloride as Cl	mg/L	108	116	110	96	86	92
9	Fluoride as F	mg/L	0.23	0.19	0.27	0.25	0.17	0.26
10	Iron as Fe	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
11	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
12	E-Coli	/100 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 Surface Water.

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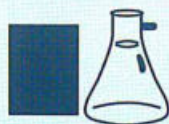
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4D. SEA WATER QUALITY MONITORING: -

Table-1.8: Sea Water Quality Analysis Results of CB2 South End towards Landside from the Sea Basin for the period: April, 2021 to September, 2021

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.17	8.13	7.93	7.89	8.14	8.07	8.05	8.01	7.98	7.92	8.01	8.05
2	Temperature	°C	30.3	30.1	30.4	30.2	30.2	30.1	29.9	29.7	29.7	29.6	29.9	29.7
3	Total Suspended Solids	mg/L	259	227	267	248	247	228	228	203	236	228	128	112
4	BOD (3 Days @ 27 °C)	mg/L	3.2	Not Detected	4.1	Not Detected	3.6	Not Detected	3.2	Not Detected	3.0	Not Detected	2.3	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.7	5.9	5.7	6.0	5.8	5.8	5.6	5.9	5.7	6.0	5.8
6	Salinity	ppt	31.2	31.6	30.4	30.6	30.1	30.3	30.86	30.52	30.52	30.79	22.84	23.98
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	3.93	3.62	4.26	3.98	3.19	2.87	2.37	2.18	2.63	2.41	2.39	2.28
9	Nitrite as NO ₂	μmol /L	0.85	0.51	1.13	0.87	0.71	0.69	1.7	1.76	1.38	1.19	1.25	1.14
10	Ammonical Nitrogen as NH ₃	μmol /L	2.76	2.47	2.5	2.41	2.89	2.73	2.51	2.37	2.42	2.37	2.34	2.23
11	Phosphates as PO ₄	μmol /L	2.19	1.93	3.18	2.90	2.63	2.48	1.62	1.79	1.98	1.83	2.19	1.94
12	Total Nitrogen	μmol /L	7.54	6.6	7.89	7.26	6.79	6.29	6.58	6.31	6.43	5.97	5.98	5.65
13	Petroleum Hydrocarbon	μg/L	15.0	Not Detected	17.4	Not Detected	13.6	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	32576	32490	32296	32483	32107	32218	32738	32420	32496	32674	24612	25714
15	COD	mg/L	25.3	19.2	23.4	18.2	19.4	Not Detected	18.0	Not Detected	14.8	12.0	9.6	Not Detected
A Phytoplankton														
16.1	Chlorophyll	mg/ m ³	2.76	2.4	2.67	2.38	2.72	2.46	2.63	2.44	2.52	2.35	2.61	2.56
16.2	Phaeophytin	mg/ m ³	0.26	0.17	0.36	0.19	0.3	0.11	0.37	0.13	0.55	0.22	1.98	2.03
16.3	Cell Count	No.x 10 ³ / L	174	86	150	96	124	102	158	106	124	84	150	106
16.4	Name of Group Number and name of group species of each group	--	Navicul a sp. Closteri um sp. Scened esmus sp. Rhizoso lenia sp. Skeleto nema sp.	Nitzschi a sp. Fragilla ria sp. Synedr a sp. Melosir a sp.	Scened esmus sp. Spirulin a sp. Thallasi osira sp. Biddulp hia sp. Skeleto nema sp.	Nitzschi a sp. Navicul a sp. Melosir a sp. Cyclotel la sp.	Ankistr odesm us sp. Coscino discus sp. Nitzschi a sp. Melosir a sp.	Navicul a sp. Thallasi osira sp. Synedr a sp. Cyclotel la sp.	Rhizoso lenia sp. Thallasi onema sp. Pleuros igma sp. Coscino discus sp.	Nitzschi a sp. Navicul a sp. Synedr a sp. Biddulp hia sp.	Biddulp hia sp. Thallasi onema sp. Scened esmus sp. Skeleto nema sp. Melosir a sp.	Nitzschi a sp. Navicul a sp. Synedr a sp. Gyrosig ma sp.	Rhizoso lenia sp. Skeleto nema sp. Peridini um sp. Navicul a sp. Scened esmus sp.	Nitzschi a sp. Ankistr odesm us sp. Peridini um sp. Synedr a sp.

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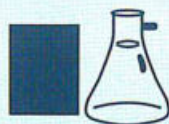
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S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B Zooplanktons														
17.1	Abundance (Population)	Nox10 3/100 m3	30		27		20		24		21		18	
17.2	Name of Group Number and name of group species of each group	--	Hydrozoans Polychaetes Bivalves Ostracodes		Copepods Decapods Chaetognathes		Polychaetes Copepods Decapods		Polychaetes Decapods Amphipods		Copepods Polychaetes Amphipods		Copepods Polychaetes Chaetognathes Amphipods	
17.3	Total Biomass	ml/10 0 m ³	2.95		2.60		2.05		2.10		2.05		1.85	
C Microbiological Parameters														
18.1	Total Bacterial Count	CFU/ ml	2470		2550		2819		2710		2650		2540	
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-1.9: Sea Water Quality Analysis Results of MP1 West End towards Channel from the Sea Basin for the period: April, 2021 to September, 2021

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.19	8.15	8.03	7.98	8.15	8.03	7.96	7.93	7.95	7.92	7.98	8.02
2	Temperature	°C	30.3	30.1	30.4	30.2	30.2	30.1	29.7	29.5	29.8	29.6	29.9	29.8
3	Total Suspended Solids	mg/L	256	238	261	247	245	229	231	214	245	230	158	139
4	BOD (3 Days @ 27 °C)	mg/L	3.5	Not Detected	3.3	Not Detected	3.1	Not Detected	2.8	Not Detected	2.9	Not Detected	2.5	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.7	5.9	5.8	6.0	5.9	5.8	5.7	5.9	5.8	6.0	5.9
6	Salinity	ppt	31.1	31.6	30.3	30.5	30	30.4	31.1	31.42	30.84	30.98	23.3	24.46
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	µmo l/L	3.98	3.75	4.17	3.92	3.26	3.15	2.56	2.10	2.45	2.35	2.34	2.28
9	Nitrite as NO ₂	µmo l/L	0.83	0.61	0.92	0.81	0.58	0.46	1.27	1.58	1.35	1.33	1.29	1.17
10	Ammonical Nitrogen as NH ₃	µmo l/L	2.64	2.48	2.51	2.23	2.19	2.10	2.35	2.29	2.53	2.48	2.24	2.18
11	Phosphates as PO ₄	µmo l/L	2.13	1.97	2.47	2.29	2.51	2.37	1.67	1.49	1.86	1.73	1.98	1.86
12	Total Nitrogen	µmo l/L	7.45	6.84	7.60	6.96	6.03	5.71	6.18	5.97	6.33	6.16	5.87	5.63
13	Petroleum Hydrocarbon	µg/L	17.6	Not Detected	15.8	Not Detected	13.6	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	32964	33502	32207	32396	31924	32316	32924	33264	32714	32865	25128	26184
15	COD	mg/L	23.50	19.30	25.80	17.40	18.90	Not Detected	17.80	Not Detected	13.98	11.80	11.32	8.26
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.61	2.24	2.56	2.18	2.71	2.37	2.52	2.14	2.34	1.97	2.56	2.45
16.2	Phaeophytin	mg/m ³	0.52	0.12	0.58	0.17	0.23	0.20	0.51	0.25	0.69	0.43	2.03	2.37
16.3	Cell Count	No.x 10 ³ /L	170	86	148	94	136	104	126	92	118	86	152	106
16.4	Name of Group Number and name of group species of each group	--	Thalasi onema sp. Skeleto nema sp. Coscino discus sp. Rhizoso lenia sp. Melosir a sp.	Nitzschi a sp. Navicul a sp. Fragilla ria sp. Ceratiu m sp.	Nitzschi a sp. Coscino discus sp. Biddulp hia sp. Skeleto nema sp. Thallasi osira sp.	Thalas sio thrix sp. Navicul a sp. Melosir a sp. Cyclote lla sp.	Thallasi onema sp. Nitzschi a sp. Gyro sigma sp. Coscino discus sp.	Nitzsch ia sp. Cheato cerous sp. Synedr a sp. Melosir a sp.	Skeleto nema sp. Thallasi onema sp. Scened esmus sp. Coscino discus sp. Pleuros igma sp.	Nitzschi a sp. Navicul a sp. Peridini um sp. Cyclotel la sp.	Melosir a sp. Thallasi onema sp. Scened esmus sp. Coscino discus sp.	Nitzschi a sp. Synedr a sp. Pleuros igma sp. Cyclotel la sp.	Peridini um sp. Scened esmus sp. Ankistr odesm us sp. Thallasi osira sp. Skeleto nema sp.	Navicul a sp. Nitzschi a sp. Melosir a sp. Coscino discus sp.

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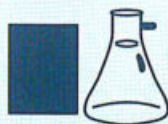
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S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B	Zooplanktons													
17.1	Abundance (Population)	Nox10 3/100 m3	28		24		26		21		20		17	
17.2	Name of Group Number and name of group species of each group	--	Hydrozoans Polychaetes Bivalves Gastropods		Chaetognathes Decapods Amphipods Polychaetes		Polychaetes Amphipods Decapods		Polychaetes Amphipods Copepods		Polychaetes Isopods Decapods		Copepods Amphipods Polychaetes Ostracods	
17.3	Total Biomass	ml/10 0 m³	2.65		2.10		2.25		1.90		1.95		1.65	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ ml	2390		2510		2690		2450		2540		2610	
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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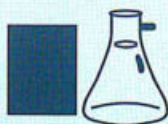


Table-1.10: Sea Water Quality Analysis Results of CB1 End towards Channel from the Sea Basin for the period: April, 2021 to September, 2021

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.2	8.16	7.98	7.92	8.13	8.1	7.99	8.02	7.98	7.94	7.96	8.03
2	Temperature	oC	30.3	30	30.4	30.2	30.2	30	29.8	29.7	29.9	29.8	29.8	29.6
3	Total Suspended Solids	mg/L	259	231	278	249	239	217	224	209	231	219	146	123
4	BOD (3 Days @ 27 °C)	mg/L	3.30	Not Detected	3.60	Not Detected	3.34	Not Detected	3.10	Not Detected	3.00	Not Detected	2.46	Not Detected
5	Dissolved Oxygen	mg/L	5.8	5.7	5.8	5.6	5.9	5.8	5.9	5.7	5.9	5.8	6	5.9
6	Salinity	ppt	31.2	31.6	30.1	30.4	30	30.3	30.34	31.74	30.76	30.94	21.48	22.68
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	µmo/L	4.13	3.87	4.28	4.17	3.21	3.15	2.47	2.28	2.58	2.49	2.31	2.2
9	Nitrite as NO ₂	µmo/L	0.69	0.43	0.91	0.83	0.78	0.63	1.72	1.35	1.43	1.37	1.27	1.21
10	Ammonical Nitrogen as NH ₃	µmo/L	2.71	2.35	2.37	2.25	2.28	2.1	2.38	2.19	2.49	2.41	2.23	2.19
11	Phosphates as PO ₄	µmo/L	2.34	2.17	2.5	2.39	2.39	2.25	2.8	3.17	2.37	2.26	2.16	2.06
12	Total Nitrogen	µmo/L	7.53	6.65	7.56	7.25	6.27	5.88	6.57	5.82	6.5	6.27	5.81	5.6
13	Petroleum Hydrocarbon	µg/L	15	Not Detected	17.4	Not Detected	14.6	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	33198	33476	32018	32306	31942	32368	32246	33560	32642	32812	23286	24464
15	COD	mg/L	24.3	18.5	21.9	17.6	20.3	Not Detected	17.8	Not Detected	14.8	13.6	10.38	8.32
A Phytoplankton														
16.1	Chlorophyll	mg/m ³	2.65	2.18	2.69	2.20	2.56	2.36	2.60	2.21	2.46	2.24	2.40	2.18
16.2	Phaeophytin	mg/m ³	0.29	0.13	0.25	0.11	0.58	0.21	0.54	0.15	0.67	0.12	2.19	2.00
16.3	Cell Count	No.x 10 ³ /L	178	84	144	90	136	102	148	102	136	94	158	102
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Pleurosigma sp. Thalassiosira sp. Rhizosolenia sp.	Navicula sp. Nitzschia sp. Melosira sp. Synedra sp.	Scenedesmus sp. Skeletonema sp. Thalassiosira sp. Cocconeis sp. Rhizosolenia sp.	Nitzschia sp. Navicula sp. Biddulphia sp. Synedra sp.	Biddulphia sp. Thalassiosira sp. Cheatoceus sp. Rhizosolenia sp. Thalassiosira sp.	Nitzschia sp. Melosira sp. Synedra sp. Navicula sp.	Cocconeis sp. Thalassiosira sp. Rhizosolenia sp. Thalassiosira sp.	Navicula sp. Melosira sp. Synedra sp. Cyclotella sp.	Cocconeis sp. Skeletonema sp. Rhizosolenia sp. Thalassiosira sp. Melosira sp.	Navicula sp. Pleurosigma sp. Synedra sp. Fragillaria sp. Nitzschia sp.	Navicula sp. Ankistrodesmus sp. Scenedesmus sp. Rhizosolenia sp.	Nitzschia sp. Thalassiosira sp. Melosira sp. Synedra sp.

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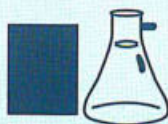
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S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			APR-21		MAY-21		JUN-21		JUL-21		AUG-21		SEP-21	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
B	Zooplanktons													
17.1	Abundance (Population)	Nox10 3/100 m3	28		25		23		20		22		18	
17.2	Name of Group Number and name of group species of each group	--	Ostracodes Mysids Polychaetes Gastropods		Decapods Mysids Gastropods Copepods		Copepods Polychaetes Ostracods		Copepods Polychaetes Decapods Bivalves		Copepods Polychaetes Ostracods Isopods		Chaetognaths Amphipods Copepods	
17.3	Total Biomass	ml/10 0 m ³	2.4		2.10		2.05		1.90		2.15		1.75	
C	Microbiological Parameters													
18.1	Total Bacterial Count	CFU/ ml	2380		2450		2590		2300		2480		2510	
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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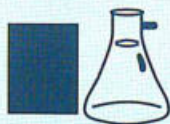
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4E. DUMP POND DISCHARGE WATER QUALITY MONITORING: -

Table-1.11: Dump Pond Water Quality Analysis Results for the Period: April, 2021 to September, 2021

Sr. No.	Parameters	Unit	20/05/2021	20/05/2021	31/08/2021	31/08/2021
			OLD COAL YARD	PET COCK	OLD COAL YARD	PET COCK
1	pH	--	8.37	8.71	7.46	7.82
2	Total Dissolved Solids	mg/L	2568	1986	2021	1216
3	Total Suspended Solids	mg/L	57	65	49	62
4	Turbidity	NTU	14.2	13.8	12.8	9.7
5	BOD (3 Days @ 27 °C)	mg/L	32	30.8	34	24
6	Dissolved Oxygen	mg/L	5.9	5.7	5.9	6
7	COD	mg/L	168	139	142	112
8	Salinity	ppt	1.55	1.3	1.48	0.76
9	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
10	Total Hardness as CaCO ₃	mg/L	172	162	175	139
11	Fluoride as F	mg/L	0.38	0.41	0.46	0.27
12	Chloride as Cl	mg/L	859	725	819	418
13	Zinc as Zn	mg/L	0.61	0.37	0.58	0.23
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

Detection Limit, Mercury as Hg: 0.00025 mg/L, Oil & Grease: 2.0 mg/L, Cadmium as Cd: 0.001 mg/L, Lead as Pb: 0.005 mg/L

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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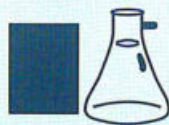
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4F. AMBIENT NOISE LEVEL MONITORING: -

Table-1.12: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	01/04/2021	03/05/2021	03/06/2021	01/07/2021	02/08/2021	02/09/2021
6:00-7:00	71.6	70.8	53.9	52.8	68.4	67.4
7:00-8:00	60.8	60.4	63.1	66.0	65.1	60.8
8:00-9:00	68.2	67.9	61.0	61.1	52.9	66.1
9:00-10:00	65.7	64.7	62.3	62.2	51.3	64.3
10:00-11:00	69.1	68.3	58.4	59.8	52.0	50.0
11:00-12:00	71.1	70.5	52.8	53.1	66.0	59.9
12:00-13:00	58.7	58.5	69.3	67.4	65.7	66.6
13:00-14:00	64.8	64.2	65.6	66.6	57.3	67.9
14:00-15:00	61.9	61.5	57.2	57.2	63.1	66.7
15:00-16:00	57.7	57.5	55.6	54.3	61.0	56.6
16:00-17:00	55.3	55.2	63.7	63.8	58.3	48.5
17:00-18:00	63.9	63.9	64.9	64.6	65.2	53.3
18:00-19:00	53.2	53.1	64.8	65.7	65.6	58.5
19:00-20:00	62.6	61.8	65.2	67.1	58.1	66.8
20:00-21:00	69.4	69.3	67.0	66.8	52.3	59.6
21:00-22:00	67.7	66.8	59.0	58.3	57.1	62.0

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

Day Time shall mean from 6:00 am to 10:00 pm

Table-1.13: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	01/04/2021 & 02/04/2021	03/05/2021 & 04/05/2021	03/06/2021 & 04/06/2021	01/07/2021 & 02/07/2021	02/08/2021 & 03/08/2021	02/09/2021 & 03/09/2021
22:00-23:00	62.4	61.6	56.7	55.7	51.5	51.3
23:00-00:00	61.5	61.0	62.2	61.8	53.2	51.6
00:00-01:00	64.0	63.5	59.6	58.1	48.7	46.3
01:00-02:00	58.4	57.7	50.8	49.4	53.7	45.2
02:00-03:00	51.2	51.0	57.4	59.9	51.8	52.8
03:00-04:00	60.7	59.8	59.2	57.7	49.2	55.5
04:00-05:00	58.6	57.9	57.7	58.6	54.3	56.2
05:00-06:00	55.4	54.6	59.9	61.0	55.2	58.9

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

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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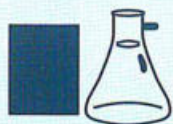


Table-1.14: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	08/04/2021	06/05/2021	10/06/2021	08/07/2021	09/08/2021	09/09/2021
6:00-7:00	57.4	56.7	58.9	60.2	70.2	58.6
7:00-8:00	61.5	61.3	57.9	57.1	68.7	62.2
8:00-9:00	69.6	69.2	60.5	61.4	66.1	62.7
9:00-10:00	58.3	57.9	54.3	52.9	66.3	66.0
10:00-11:00	67.4	66.5	56.4	55.5	57.7	67.8
11:00-12:00	67.8	66.9	58.1	60.0	63.5	70.6
12:00-13:00	65.4	64.5	59.8	61.3	59.7	65.8
13:00-14:00	55.9	55.1	66.9	66.4	66.9	65.9
14:00-15:00	67.3	66.6	64.3	64.3	55.2	62.9
15:00-16:00	63.7	63.4	66.2	68.6	68.9	59.1
16:00-17:00	70.8	70.4	60.2	61.5	57.9	59.3
17:00-18:00	54.9	54.8	62.1	60.1	62.4	60.0
18:00-19:00	56.5	55.7	57.8	56.0	57.6	64.4
19:00-20:00	55.2	54.9	68.7	71.6	59.8	62.1
20:00-21:00	63.4	62.5	56.1	57.3	61.9	56.2
21:00-22:00	63.8	63.6	53.4	53.8	56.1	68.9

#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

Table-1.15: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	08/04/2021 & 09/04/2021	06/05/2021 & 07/05/2021	10/06/2021 & 11/06/2021	08/07/2021 & 09/07/2021	09/08/2021 & 10/08/2021	09/09/2021 & 10/09/2021
22:00-23:00	60.0	59.1	59.1	60.0	54.0	56.9
23:00-00:00	66.5	65.9	55.3	52.8	53.6	55.9
00:00-01:00	54.7	54.4	54.5	54.2	51.0	52.6
01:00-02:00	61.8	61.2	61.5	62.5	50.6	50.2
02:00-03:00	59.9	59.0	64.6	63.7	52.2	48.3
03:00-04:00	58.1	57.6	55.0	54.1	51.9	57.0
04:00-05:00	65.8	65.7	57.5	57.2	52.1	55.6
05:00-06:00	60.8	60.7	60.0	58.2	54.2	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.
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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Table-1.16: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	12/04/2021	10/05/2021	14/06/2021	12/07/2021	12/08/2021	13/09/2021
6:00-7:00	68.3	68.0	56.2	56.9	67.7	59.8
7:00-8:00	64.4	63.5	56.8	55.9	51.6	56.5
8:00-9:00	67.1	66.7	60.9	63.4	55.8	52.6
9:00-10:00	60.7	59.8	65.8	67.5	59.9	61.3
10:00-11:00	65.9	65.6	69.0	69.9	58.4	63.4
11:00-12:00	68.4	67.7	68.9	70.8	67.3	55.4
12:00-13:00	62.0	61.2	68.5	69.1	55.4	56.4
13:00-14:00	57.6	56.8	65.9	66.7	53.4	59.4
14:00-15:00	66.1	65.5	59.3	57.7	56.5	51.2
15:00-16:00	69.2	68.6	61.5	60.9	65.5	58.1
16:00-17:00	58.9	58.2	61.2	62.3	53.2	58.7
17:00-18:00	61.7	60.7	61.7	63.7	65.0	60.9
18:00-19:00	56.8	56.6	63.2	61.2	61.2	52.3
19:00-20:00	60.6	59.7	62.0	63.6	53.1	57.0
20:00-21:00	56.6	55.9	67.2	69.8	66.7	64.8
21:00-22:00	54.7	53.9	67.5	66.1	64.6	51.8

*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.

Table-1.17: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	12/04/2021 & 13/04/2021	10/05/2021 & 11/05/2021	14/06/2021 & 15/06/2021	12/07/2021 & 13/07/2021	12/08/2021 & 13/08/2021	13/09/2021 & 14/09/2021
22:00-23:00	58.5	58.1	56.5	57.3	53.5	59.2
23:00-00:00	62.5	61.8	60.5	58.8	56.3	55.2
00:00-01:00	62.2	61.9	58.9	58.3	60.7	61.4
01:00-02:00	57.6	56.9	57.6	57.4	58.7	63.5
02:00-03:00	60.1	59.3	60.1	62.4	63.1	58.4
03:00-04:00	53.8	53.4	53.8	54.3	54.9	60.8
04:00-05:00	56.1	56.0	56.1	58.9	62.7	57.8
05:00-06:00	59.2	58.2	56.6	57.1	56.9	63.2

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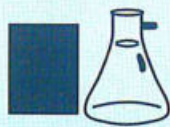


Table-1.18: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	05/04/2021	13/05/2021	07/06/2021	05/07/2021	06/08/2021	06/09/2021
6:00-7:00	63.5	63.1	65.7	65.8	65.3	67.5
7:00-8:00	60.3	59.3	55.4	58.2	56.9	62.6
8:00-9:00	65.3	65.2	52.5	51.7	62.5	54.6
9:00-10:00	59.9	59.0	60.8	59.6	51.8	54.4
10:00-11:00	58.0	57.8	59.5	61.8	61.8	70.2
11:00-12:00	61.1	61.0	56.5	54.8	50.3	66.5
12:00-13:00	66.7	65.8	53.5	52.7	55.3	66.9
13:00-14:00	68.9	68.1	60.6	60.3	51.1	54.5
14:00-15:00	68.5	68.2	66.6	68.4	51.7	54.1
15:00-16:00	57.2	57.0	66.1	67.8	49.5	55.8
16:00-17:00	54.6	53.7	66.5	64.5	53.7	61.0
17:00-18:00	58.1	57.4	56.6	57.0	63.6	57.6
18:00-19:00	66.2	66.2	65.3	66.5	50.8	69.1
19:00-20:00	62.5	61.9	55.2	56.2	50.1	55.3
20:00-21:00	54.0	53.4	66.4	68.3	64.1	65.7
21:00-22:00	56.4	56.3	55.5	54.5	53.0	68.2

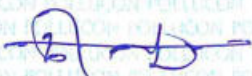
#dB(A) Leq. Denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
Day Time shall mean from 6:00 am to 10:00 pm.

Table-1.19: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	05/04/2021 & 06/04/2021	13/05/2021 & 14/05/2021	07/06/2021 & 08/06/2021	05/07/2021 & 06/07/2021	06/08/2021 & 07/08/2021	06/09/2021 & 07/09/2021
22:00-23:00	65.4	65.1	56.4	56.9	60.8	48.6
23:00-00:00	61.3	61.1	55.9	58.5	55.9	47.3
00:00-01:00	63.8	62.8	61.6	59.8	53.8	58.0
01:00-02:00	56.6	55.9	58.2	57.9	57.8	57.3
02:00-03:00	62.6	61.7	58.5	59.5	53.4	52.3
03:00-04:00	60.2	59.9	53.5	50.2	61.5	56.8
04:00-05:00	53.3	53.1	62.8	61.5	49.9	60.9
05:00-06:00	55.8	55.7	56.2	58.7	48.8	50.3

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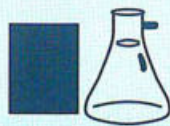


Table-1.20: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	15/04/2021	20/05/2021	17/06/2021	17/07/2021	16/08/2021	16/09/2021
6:00-7:00	58.6	58.1	57.5	58.4	62.1	60.3
7:00-8:00	64.0	63.8	63.6	62.0	63.4	58.9
8:00-9:00	54.3	53.6	51.6	50.2	57.2	62.5
9:00-10:00	59.8	59.5	52.1	50.8	63.3	70.0
10:00-11:00	62.4	61.7	63.9	63.5	64.0	63.9
11:00-12:00	59.1	58.3	60.3	60.4	59.2	59.0
12:00-13:00	52.2	51.3	53.7	52.4	56.3	70.1
13:00-14:00	56.7	56.5	55.1	55.7	58.8	64.9
14:00-15:00	63.6	63.2	55.0	55.0	62.8	63.2
15:00-16:00	51.5	51.2	54.9	54.7	63.9	68.1
16:00-17:00	56.3	56.1	51.3	51.6	60.1	71.5
17:00-18:00	54.8	54.3	57.0	55.6	58.9	63.1
18:00-19:00	65.2	64.3	58.8	61.7	57.8	67.6
19:00-20:00	65.6	65.1	63.0	63.1	58.0	65.1
20:00-21:00	61.8	61.4	61.3	63.9	61.6	62.4
21:00-22:00	66.8	66.1	63.5	62.4	56.7	58.2

#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.

Table-1.21: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2021 to September, 2021 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	15/04/2021 & 16/04/2021	20/05/2021 & 21/05/2021	17/06/2021 & 18/06/2021	17/07/2021 & 18/07/2021	16/08/2021 & 17/08/2021	16/09/2021 & 17/09/2021
22:00-23:00	56.2	55.6	50.3	49.8	61.2	56.4
23:00-00:00	50.9	50.1	61.2	59.2	55.1	50.6
00:00-01:00	61.0	60.0	51.9	51.2	53.0	52.5
01:00-02:00	59.6	59.4	58.6	60.3	60.3	60.6
02:00-03:00	58.0	57.8	54.4	55.8	58.6	59.1
03:00-04:00	63.7	63.1	61.8	63.0	52.0	56.5
04:00-05:00	64.9	64.8	55.4	54.8	52.9	58.1
05:00-06:00	59.1	58.7	60.3	59.4	53.1	62.2

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

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.

Note: The Noise Level of Hazira Village is compare with the Industrial area Norms as Hazira Village is Surround By Numbers of industries.

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4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -

Table-1.22: DG Sets Stack Monitoring Results for the period: April, 2021 to September, 2021

Table-1.22 (a): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
			20/05/2021	30/08/2021	20/05/2021	30/08/2021	20/05/2021	30/08/2021
1	Particulate Matter	mg/Nm ³	22.6	24.3	20.3	22.59	28.49	23.4
2	Sulphur Dioxide	ppm	6.68	5.47	5.6	4.56	7.67	6.34
3	Oxide of Nitrogen	ppm	30.2	33.54	34.5	29.4	37.49	35.57
4	Carbon Monoxide (CO)	mg/m ³	21.86	17.18	19.63	16.8	14.94	19.42
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.22 (b): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	SS-1 LT DG -320 KVA		SS3 -DG -200 KVA		LT Phase -1 (625 KVA)	
			20/05/2021	30/08/2021	25/05/2021	30/08/2021	25/05/2021	31/08/2021
1	Particulate Matter	mg/Nm ³	15.59	22.41	19.27	21.68	26.52	30.53
2	Sulphur Dioxide	ppm	5.07	6.28	6.13	6.06	8.06	7.27
3	Oxide of Nitrogen	ppm	37.21	35.43	31.54	35.61	37.59	34.56
4	Carbon Monoxide (CO)	mg/m ³	11.45	13.74	8.02	6.87	13.74	14.89
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.22 (c): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	LT Phase -2 (750 KVA)		ER-1 (100 KVA)	
			25/05/2021	31/08/2021	25/05/2021	30/08/2021
1	Particulate Matter	mg/Nm ³	28.52	32.45	24.52	27.53
2	Sulphur Dioxide	ppm	7.05	6.91	5.23	6.3
3	Oxide of Nitrogen	ppm	39.52	38.32	33.41	36.37
4	Carbon Monoxide (CO)	mg/m ³	11.45	17.18	9.16	12.6
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

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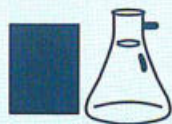


Table-1.22 (d): DG Sets Stack Monitoring Results:

Sr. No.	Parameters	Unit	NDG Building (380 KVA)		Custom Building (320 KVA)	
			25/05/2021	31/08/2021	25/05/2021	30/08/2021
1	Particulate Matter	mg/Nm ³	21.57	17.52	17.61	19.54
2	Sulphur Dioxide	ppm	7.33	6.95	4.35	5.32
3	Oxide of Nitrogen	ppm	36.27	33.5	33.41	31.57
4	Carbon Monoxide (CO)	mg/m ³	10.31	9.16	13.74	11.45
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	Not Detected	Not Detected	Not Detected	Not Detected

Table-1.23: DG Sets Noise Level Monitoring Results for the period: April, 2021 to September, 2021

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
	Sampling Date	25 & 20/05/2021	30 & 31/08/2021
1.	DG SET TOYO DENKI - 1	65.6	67.5
2.	DG SET TOYO DENKI - 2	64.8	66.4
3.	DG SET TOYO DENKI - 3	64.2	65.8
4.	SS-1 LT DG -320 KVA	66.4	64.2
5.	SS3 -DG -200 KVA	65.1	67.2
6.	LT PHASE -1 (625 KVA)	70.4	68.8
7.	LT PHASE -2 (750 KVA)	63.2	66.4
8.	ER-1 (100 KVA)	67.8	65.1
9.	NDG BUILDING (380 KVA)	65.6	62.3
10.	CUSTOM BUILDING (320 KVA)	64.2	62.8

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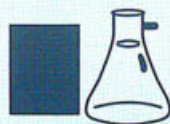
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4H. SEA SEDIMENT QUALITY MONITORING: -

Table-1.24: Sea Sediment Quality Results of CB2 South End towards Landside for the period: April, 2021 to September, 2021

S. NO	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N 21° 5'1.92", E 72°37'56.58")					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
1	Organic Matter	%	0.53	0.45	0.40	0.43	0.39	0.36
2	Phosphorus as P	µg/g	734	592	613	634	678	623
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
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	%	4.63	4.72	4.91	4.58	4.87	4.72
5.2	Total Chromium as Cr ⁺³	µg/g	127	135	128	117	138	117
5.3	Manganese as Mn	µg/g	615	582	613	572	654	620
5.4	Iron as Fe	%	4.70	4.63	4.86	4.64	4.73	4.58
5.5	Nickel as Ni	µg/g	41.30	32.90	42.70	38.00	38.49	29.13
5.6	Copper as Cu	µg/g	29.80	25.70	36.90	29.40	31.58	36.28
5.7	Zinc as Zn	µg/g	112	103	123	106	112	134
5.8	Lead as Pb	µg/g	3.18	2.91	2.76	1.93	2.37	2.29
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Gastropods Crustaceans	Polychaetes Gastropods Crustaceans	Polychaetes Gastropods Bivalves	Polychaetes Copepods Decapods	Polychaetes Bivalves Crustaceans	Polychaetes Gastropods Decapods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	Foraminifera ns	Nematodes	Foraminifera ns	Foraminifera ns	Nematodes
6.3	Population	No./m ²	324	293	263	294	294	234

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

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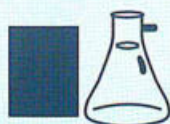


Table-1.25: Sea Sediment Quality Results of MP1 West End towards Channel of Sea Basin for the period: April, 2021 to September, 2021

S. NO.	PARAMETERS	UNIT	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'9.78", E 72°37'24.48")					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
1	Organic Matter	%	0.54	0.47	0.39	0.43	0.37	0.35
2	Phosphorus as P	µg/g	729	529	504	576	546	614
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
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	%	4.65	4.89	4.92	4.58	4.69	4.7
5.2	Total Chromium as Cr ⁺³	µg/g	139	102	134	113	124	108
5.3	Manganese as Mn	µg/g	658	593	608	568	708	659
5.4	Iron as Fe	%	4.52	4.76	4.83	4.69	4.86	4.62
5.5	Nickel as Ni	µg/g	43.60	35.90	45.20	37.80	27.93	23.80
5.6	Copper as Cu	µg/g	37.5	26.8	37.6	29.4	39.8	34.9
5.7	Zinc as Zn	µg/g	108	115	129	134	124	107
5.8	Lead as Pb	µg/g	2.70	3.46	2.83	2.56	2.39	2.18
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes Crustaceans Ostracods Bivalves	Polychaetes Crustaceans Gastropods	Polychaetes Crustaceans Gastropods	Polychaetes Bivalves Amphipods	Polychaetes Bivalves Crustaceans	Decapods Polychaetes Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns	Nematodes	--	Foraminifera ns	Foraminifera ns	--
6.3	Population	No./m ²	382	294	235	264	234	263

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

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Table-1.26: Sea Sediment Quality Results of CB1 End towards Channel for the period: April, 2021 to September, 2021

S. NO.	PARAMETERS	UNIT	CB1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'14.67" ; E 72°37'40.14")					
			APR-21	MAY-21	JUN-21	JUL-21	AUG-21	SEP-21
1	Organic Matter	%	0.56	0.48	0.38	0.41	0.37	0.34
2	Phosphorus as P	µg/g	613	561	610	569	629	579
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
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	%	4.79	4.82	4.90	4.68	4.73	4.68
5.2	Total Chromium as Cr ⁺³	µg/g	135	113	128	113	139	112
5.3	Manganese as Mn	µg/g	680	579	610	529	678	608
5.4	Iron as Fe	%	4.73	4.63	4.76	4.53	4.65	4.59
5.5	Nickel as Ni	µg/g	45.9	31.9	41.2	38.6	32.8	27.3
5.6	Copper as Cu	µg/g	27.6	22.4	35.8	29.4	37.5	32.94
5.7	Zinc as Zn	µg/g	120	108	119	107	118	105
5.8	Lead as Pb	µg/g	27.6	3.17	2.74	1.93	2.14	2.19
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 Gastropods Amphipods	Polychaetes Crustaceans Gastropods	Polychaetes Gastropods Bivalves	Polychaetes Bivalves Crustaceans	Polychaetes Bivalves Copepods	Decapods Polychaetes Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminifera ns	Nematodes	--	Foraminifera ns	Foraminifera ns	--
6.3	Population	No./m ²	322	263	381	323	235	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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4I. SOIL QUALITY MONITROING: -

Table-1.27A: Soil Quality Testing Results for the period: April, 2021 to September, 2021

SR. NO.	PARAMETERS	UNIT	NEAR PORT GATE NO. 2	
			29/06/2021	29/09/2021
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	1.6	2.0
3	Coarse Sand	%	7.4	9.0
4	Medium Sand	%	27	25
5	Fine Sand	%	39	41
6	Total Sand	%	75	77
7	Silt + Clay	%	25	23
8	pH (1:5)	--	8.63	8.52
9	Electricity Conductivity	µmho/cm	1648	1701
10	Alkali matter	mg/kg	590	542
11	Cation Exchange Capacity	meq/100 gm	15.24	13.90
12	Sodium Absorption Ratio	--	10.39	10.25
13	Organic Matter	mg/kg	0.58	0.52
14	Available Nitrogen	meq/100 gm	0.69	0.45
15	Available Potassium	mg/kg	6.42	6.90
16	Available Phosphorus	mg/kg	0.86	0.62
17	Available Sodium	mg/kg	7.42	10.80
18	Permeability	cm/sec	1.56×10^{-7}	1.45×10^{-7}

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

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Table-1.27B: Soil Quality Testing Results for the period: April, 2021 to September, 2021

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	
			29/06/2021	29/09/2021
1	Type	--	Sandy Loam	Sandy Loam
Grain Size Analysis				
2	Gravel	%	2.3	2.8
3	Coarse Sand	%	7.7	7.2
4	Medium Sand	%	18	21
5	Fine Sand	%	45	40
6	Total Sand	%	73	71
7	Silt + Clay	%	27	29
8	pH (1:5)	--	8.86	8.75
9	Electricity Conductivity	µmho/cm	2014	1984
10	Alkali matter	mg/kg	512	496
11	Cation Exchange Capacity	meq/100 gm	11.28	11.10
12	Sodium Absorption Ratio	--	10.56	10.30
13	Organic Matter	mg/kg	0.47	0.40
14	Available Nitrogen	meq/100 gm	0.68	0.48
15	Available Potassium	mg/kg	6.42	7.20
16	Available Phosphorus	mg/kg	0.57	0.45
17	Available Sodium	mg/kg	6.93	10.40
18	Permeability	cm/sec	1.15×10^{-7}	1.10×10^{-7}

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

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Annexure 5
Photograph of Stand by DG Set



Shot on Y15
Vivo AI camera

Annexure 6

**Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved
Third Party During period October 2020 to March 2021**

Details of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period April 2021 to September 2021

Detail of Wastes Collection & Disposed Off From Vessels				
SR No.	Date	Vessel Name	Party Name	Quantity (CBM)
1	15.06.2021	MV.PORTITISSA	CHITARAKUT TRADING AND IND.	4.5 CBM
2	31.07.2021	MT.PACIFIC BLUE	CHITARAKUT TRADING AND IND.	2.2 CBM
3	03.08.2021	MT.GS FUTURE	HARISH A. PANDYA	5.54 CBM
4	13.08.2021	CLARKE QUAY	HARISH A. PANDYA	4 CBM
5	16.08.2021	MT.BOW CHAIN	HARISH A. PANDYA	3 CBM
6	24.08.2021	CAPE SUPPLIER	HARISH A. PANDYA	2 CBM
7	15.09.2021	MV.CYMONA GLORY	HARISH A. PANDYA	3.55
8	17.09.2021	MV.SCARLET LADY	HARISH A. PANDYA	16.13
9	24.09.2021	MV.GCL MAHANADI	HARISH A. PANDYA	3 CBM
10	28.09.2021	TUG AB 3000	HARISH A. PANDYA	0.01 CBM
11	01.10.2021	MT HAKUBA GALAXY	HARISH A. PANDYA	1.2 CBM
12	13.10.2021	TUG COASTAL COMMANDOR	HARISH A. PANDYA	1.056 CBM
13	14.10.2021	MV.CEYLON PRINCESS	HARISH A. PANDYA	4.9 CBM
14	21.10.2021	MT.MARITIME POLARIS	HARISH A. PANDYA	3 CBM

Annexure 7

The Letter of SMC for Reception of Our Solid Waste



E. H. PATHAN
Executive Engineer (Drainage)
Surat Municipal Corporation

DNG/Out/No. 5151
DT. 26/03/2021

To:

Adani Hazira Port Limited
At & Post Hazira,
Tal. Choriyasi, Dist. Surat
Surat 394270

Subject: Regarding Disposal of Waste generated from Your Hazira Port at Khajod Solid Waste Disposal Site.

Ref:- (i) Neelkanth Enterprise's letter dated 03.12.2020
(ii) This office letter no. DNG/Out/No./3435 Dt.29.12.2020
(iii) Your letter no. AHPL/SMC/Solid Waste/2021/252 Dt.28.01.2021


Respected Sir,

With reference to the above mentioned subject, in line with your letter mentioned under reference (iii), You are hereby permitted to dispose inert waste generated within your premises at Khajod Disposal Site vide your own vehicles and manpower. Moreover, following points are to be considered while disposing inert at Khajod Disposal Site,

- The waste shall be transported vide your own vehicles and manpower and the same shall be weighed at Khajod Weigh Bridge and then disposed off, in line with instructions of the site supervisor.
- You shall have to pay administrative charges of Rs.1210/- per M.T. towards disposal of the waste (inert) till 31/03/2021 and Rs. 1331/- per M.T. towards disposal of the waste (inert) from 01/04/2021 to 31/03/2022 in line with the rates sanctioned vide Standing Committee Resolution no. 113/2019.
- Considering the quantum of waste mentioned in your letter mentioned under reference (iii), you are hereby requested to deposit Rs. 100000/- (one lac only) towards administrative charges for disposal of waste. The same shall be adjusted in line with your monthly statement of waste disposed at Khajod Disposal site.
- Moreover, it should be strictly noted that the waste to be disposed off at Khajod Disposal Site should not contain any organic/hazardous waste. Only processing rejects/inert shall be disposed off at Khajod Disposal Site.
- All applicable statutory clearances/NOC, for disposing inert waste generated from your plant premises at Khajod Disposal Site shall have to be obtained by you.

Thanking You,

Yours Faithfully,


Executive Engineer
Drainage Department
Surat Municipal Corporation

Drainage Department, Surat Municipal Corporation
Old West Zone Office, Tadwadi,
Rander Road,
Surat - 395 009

☎ (261) 278 0057 Ext.201
☎ (261) 245 1935, 242 2110
✉ xen.drg.smc@gmail.com
Visit us at www.suratmunicipal.gov.in

Annexure 8

Copy of Acknowledgement submission of E Waste Returns for FY 2020-21



Ports and
Logistics

AHPPL/GPCB/2020-21/006

Date: 24.06.2021
GPCB ID: 35352

To

✓ The Regional Officer,
Gujarat Pollution Control Board, 338,
Belgium Square, Typical 1st Floor, Opp.
Linear Bus Stand, Ring Road,
Surat - 364 002 (Gujarat)

Sub.: Submission the Annual Return of e-waste in Form-3 for the Financial Year: 2020-21.

Dear Sir,

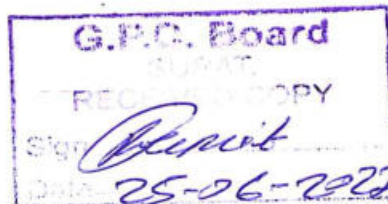
Please find enclosed herewith the Annual Return of e-Wastes in Form-3 as required under the E-Waste (Management) Rules, 2016, for FY 2020-21.

This is for your kind reference and record please.
Thanking You,

Yours faithfully,
For Adani Hazira Port Ltd.

(Pranav Choudhary)
Authorized Signatory

Encl.: Annual Return of e-Wastes in Form-3 for the Financial Year: 2020-21.
Cc to: The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10/A, Gandhinagar-382 010 (Gujarat)



Adani Hazira Port Ltd
At & PO Hazira
Choryashi
Surat 394 270
Gujarat, India
CIN: U45209GJ2009PTC058789

Tel +91 261 220 7780
Fax +91 261 220 7777
info@adani.com
www.adaniports.com

Annexure 9
Copy of QEHSE Policy

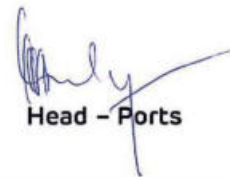


Adani Hazira Port Ltd.

Quality, Environment, OH&S and Energy Policy (QEHSE Policy)

Adani Hazira Port Ltd. is committed to excellence in the area of Quality, Environment, Occupational Health & Safety and Energy in port Business. We consider QEHSE responsibilities are integral part of our Business. To meet this commitment, AHPL shall abide by the following Principles:

- ◆ Satisfy our customers by maintaining a standard of service that consistently meets the agreed requirements;
- ◆ Focus on Occupational Health & Safety of employees & workers, pollution prevention, preservation of natural resources & protection of Environment at all times and in all circumstances.
- ◆ Identify and analyse the QEHSE risks arising from our activities to reduce them to the lowest possible levels.
- ◆ Eliminate or reduce the potential and severity of injuries, damages to material and non-material assets and impact on Environment & community arising out of our operations.
- ◆ Conform to applicable legislations, regulations and other requirement on QEHSE and take additional measures considered necessary.
- ◆ Committed to ensure the availability of information and necessary resources to achieve QEHSE objectives and targets using effective management system and review to improve performance.
- ◆ Shall strive toward reduction in consumption of energy, use of renewable energy and procure energy efficient equipment, products and services.
- ◆ Develop, conduct & promote education, training and ensure worker's participation and consultation to improve QEHSE performance
- ◆ Continually improve QEHSE management system by monitoring, evaluating and reviewing through the definitions of operational standards, assessments and audits.
- ◆ Communicate our policies and standards to employees & workers, suppliers, business partners and where ever necessary work with them to raise their standards.



Head - Ports

Date: 15th September 2020

Annexure 10

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL



Adani Hazira Port Limited

**From: October 2020 to
March 2021**

PRANAV CHOUDHARY
CEO - AHPPL

RUPESH JAMBUDI
Head - HSEF
(DIS & Diploma In Civil)

Yagnesh Dalal
Senior Manager –HSEF
(OHS&F)
(B.Sc. PDIS, NEBOSH)

Nandan Kumar
Dy. Manager - HSE (Environment)
(M.Sc Environmental Science)

JAYDIPSINH GOHIL
Incharge - Safety (LT, DC) &
Occupational Health
Associate Manager
(DIS, B.Sc.)

CHETAN PATEL
Incharge - Safety (ES, CT, CFS)
Deputy Manager
(PGDIS & B.Sc.)

DUSHYANT JAVIYA
Incharge - Fire
Deputy Manager
(Dip. In Fire & Safety, BA)

STP & ETP- Supervisor

STP & ETP - Operators & Helpers
(08Nos.)

Prateek Smart
Ast. Manager
(Dip -EHS, M.Sc)

Kinjal Patel
Shift Officer-Saf. & Fire
Officer
(B.Sc- Fire & Safety.)

M. JAVID A.PATHAN
Shift Officer-Saf. & Fire
Sr. Officer
(PGDIS, B.Sc.)

YOGENDRA SOLANKI
Officer - Fire (LT)
Sr. Officer
(SFO, BA)

ANSHUMAN SHARMA
Sr. Officer
(B.E. - Fire & Safety)

**Shift Fire
Officers**
04Nos.

Fire Crew
56Nos.

HSE - Marshals

	Adani Hazira Port Limited	From: October 2020 to March 2021
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Annexure 11

**Details of status of Implementation of EMP of Environment and CRZ clearance issued
by MoEF&CC, New Delhi Vide letter no.: 11-150/2010-ia.iii, dated 03rd may, 2013**

Compliance Status of EMP as mentioned in the Integrated EIA Report, Sep.2012:

S. No.	EMP Conditions	Compliance Status as on 30.09.2021
I.	AS PER TERRESTRIAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: -	
A	CONSTRUCTION PHASE:-	
1.	Dredged Soils Management Plan: AHPL has been permitted to dredge about 37 million cubic meter of soil, which shall be reused for backfilling in the project site. The dredged soil samples will be collected and analysed periodically for designated pollutants as per the recommendations of statutory authorities.	Complied. No disposal was done till date. All the dredging material was utilized for level raising, reclamation. If any excess material generated will be disposed of at the location already approved by the MoEF&CC.
2.	Air Quality Management: Fugitive dust will be generated during construction phase of the project due to handling of wet dredged and excavated soils. Dust control program will be implemented to reduce the dust generation during construction at project site. Water sprinkling will be adopted on haulage roads and construction site.	Being Complied Water sprinkling was being done on haulage roads on regular basis.
3.	Noise Control Programs: 1. Onsite fabrication activities should be undertaken at a designated location, which should be located away from the office buildings and any other working areas. 2. 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 can be installed. 3. Portable diesel engine generators and diesel engine driven compressors, if any, should be covered with noise enclosures.	Complied Fabrication activities was done at a designated location away from the office buildings and working areas. Complied Noise level was below 85 dB(A) during the fabrication. Currently no fabrication activities are going on. Complied. In-built noise enclosures are available in portable diesel engine generators and diesel engine driven compressors to reduce the noise level.
4.	Sewage Management Program: Sewage generated from the construction site will be treated in modular STP and shall be used for green belt development / landscaping after achieving prescribed standards by GPCB.	Being Complied Sewage generated from the construction site is being treated in STP and treated water is being used for greenbelt development.
5.	Solid and Hazardous Waste Management Program: The solid waste generated should be segregated and categorized under various rules such as HWM 2008, SWM 2000, the Batteries Rules 2001 including processing	Being Complied All the wastes are being segregate at source and handled as per applicable rules/ guidelines and disposed off through GPCB approved agency.

	of used oil by authorized recyclers should be carried out by the rules and procedures prescribed by CPCB and also meet the requirements of GPCB.	
6.	Construction Phase Storm Water Runoff: It has been recommended to adopt soil stabilization plans and storm water sedimentation basins to control the silt before discharging the storm water into sea.	Complied Separate storm water was developed to discharge the storm water.
7.	Sanitation: The facilities presently available with the nearby villages will continued to be used during construction activities and no major sanitation problem is expected during construction period. The workers at the project site will be provided with proper sanitation arrangement.	Complied Proper sanitation arrangements were available for workers at project site.
B.	OPERATION PHASE: -	
1.	Air Quality Management:	
i.	Cargo-Handling Equipment: 1. Retrofitting the old equipment to meet the vehicular emission standards. 2. All the vehicles and equipment will be certified with PUC norms shall be deployed.	Being Complied All the deployed vehicles and equipment are PUC certified.
ii.	Standby Diesel Generators: DG Sets will be operated on clean diesel fuel with sulphur content less than 0.5%. Minimum stack height of 30m will be provided to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Being Complied DG Sets are being operated only in case of power failure, DG are operated on clean diesel fuel with sulphur content less than 0.5% and provided the adequate stack height are being provided as per CPCB/GPCB norms to disperse the gases into the atmosphere.
iii.	Fugitive Coal Dust Control Program: The management of AHPL has proposed to adopt the following fugitive coal dust control measures: - a. Dry Fog System - A new, proven and cost effective technique to control dust is "Dry Fog" system to suppress the dust from the air. The name fog is just what it implies small droplets of water injected into the air. Fogging works by releasing very small droplets of water into the air. Airborne dust particles adhere to the water droplet and agglomerate. If the fog is generated in the right way, by using pressurized water, the energy required	Complied. Following control measures are in place and effectively working at port to control fugitive dust: - 1. Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood. 2. Water sprinklers in the coal yard, 3. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute, 4. Water spray through Water Browsers,

	<p>can be very low between 2 to 3 kW for a system requiring hundreds of nozzles, e.g.: A large stockpile tripper conveyor - giving considerable operating cost savings when compared to other techniques, The sprinkler droplet sizes should be maintained less than 100 microns.</p> <p>b. Sprinklers: Once stockpiled, water can be sprayed on the stockpiles to keep them damped down. Swivelling sprinklers should be used along the lengths of the stockpile with caution, however, as the volume of water required can be significant, causing drainage and run-off treatment problems.</p>	<p>5. Water Mist Canon / Fog System,</p> <p>6. Wind Brake Shield of 14 meters high and 1900 meters long,</p> <p>7. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin,</p> <p>8. Regular cleaning of the roads through Road Sweeping Machines, and</p> <p>9. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha within the port premises.</p>
2.	<p>Noise Control Program:</p> <p>The following source noise control plans have been suggested: -</p> <ul style="list-style-type: none"> ➤ Covering of sound intensive components with insulation. ➤ Using noise absorbing building materials if required for housing compressors and diesel generators etc. as per the guidelines suggested by Central Pollution Control Board. ➤ Adopting low noise driving (Eco-driving) ➤ Using silent exhaust pipes for major diesel engine vehicles and heavy trucks operated inside the port. ➤ Planting trees which act as barrier to arrest dispersion of noise levels. ➤ Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible. 	<p>Complied.</p> <ul style="list-style-type: none"> • All the sound intensive components (DG Set and Compressor) are with acoustic enclosures. • Green belt development is in progress. • All RTGs and Quay Cranes are electricity operated.
3.	<p>Waste Water Management:</p> <p>Port handling operations would generate wastewater from the following sources: -</p> <ol style="list-style-type: none"> 1. Ship ballast water, 2. Ship deck wastewater including sewage, 3. Rejects from desalination plant, 4. Workshop and vehicle maintenance shop wastewater, 5. Leachate from coal stock yard, 6. Floor cleaning and tank cleaning wastewater from the liquid tank farm, 7. Sewage from port facilities. The proposed wastewater treatment and 	<p>Being Complied</p> <ul style="list-style-type: none"> - AHPL is not accepting Ballast/ Sewage water from Ships. - Desalination plant not yet installed. - There is no effluent generation from workshop. Vehicle maintenance is not done in port premises. - There is no leachate from dump pond. - Tank cleaning wastewater is being treated into ETP.

	<p>reuse program has been presented hereunder: -</p> <p>A variety of vessels use the waters within the port, including bulk coal ships, tugs and line boats. Discharges from bulk ships are not expected to occur within the port because these large ships normally have on-board storage and sewage treatment plants, allowing discharge of treated effluent at sea as per the provision of MARPOL.</p> <ul style="list-style-type: none"> ➤ Except monsoon, leachate from coal stock yard is not envisaged. However small quantities, if any, will be treated in the effluent treatment plant. Wastewater from vehicle work-shops will also be treated in the proposed onsite effluent treatment plant. ➤ As far as possible all chemical spills at liquid handling facilities will be treated with dry spill absorbing material and water will not be used. Spillage if any occurs will be treated in a dedicated onsite wastewater treatment plant, which consists of an oil removal unit, primary chemical treatment unit and biological treatment units followed by activated carbon unit. Biologically treated wastewater will be further treated in the central sewage treatment plant. Treated wastewater will be used for dust suppression and horticulture applications at the facility. No treated wastewater will be discharged outside the port facilities. 	<p>- Domestic waste water is being treated in the STP and then used for horticulture purpose within the port premises.</p> <p>Complied. Dedicated coal dump pond is provided to collect the runoff (if any) from coal yard and it is further reused for dust suppression purpose into coal yard.</p> <p>Complied with. No spill has occurred till date. If, spills occurred, spilled material/chemical will be treated into ETP and treated waste-water will be reused in greenbelt development / plantation purpose.</p>
4.	<p>Storm Water Management Plan:</p> <ul style="list-style-type: none"> ➤ Storm water from the coal stockpile area will be passed through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. It has been proposed to construct a garland drain for all bulk storage facilities to avoid silting into the marine eco-system. ➤ All liquid storage tanks will be provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains shall 	<p>Complied Garland drain for all bulk storage facilities are provided to avoid silting into the marine eco-system. Storm water from the coal stockpile area is collected into dump ponds to remove the coal sediment.</p> <p>Complied. All liquid storage tanks are provided with dykes to avoid any cross contamination of storm water from</p>

	be designed in order to avoid any flooding of the coal stock yard and liquid chemical tank farm areas.	chemical spills. Storm water drains and effluents drains are separate.
5.	<p>Solid and Hazardous Waste Management:</p> <ul style="list-style-type: none"> ➤ Solid wastes generated from the port handling facilities consist of packaging waste such as wood, paper/carton, steel scrap etc. ➤ All the hazardous wastes and solid wastes such as Oil containing cargo residue, Chemical containing cargo residue and sludge, contaminated cotton waste, spent exchange resin and ETP Sludge, etc. shall be segregated at source and stored at the earmarked area. ➤ Recyclable wastes will be collected and disposed to waste recycling vendors through certified recyclers wherever applicable. ➤ Hazardous wastes include contaminated chemical spills, spent dry adsorbing spill absorbing material used for large marine and onshore chemical spills, used lubricating oils and greases. The chemicals spill inventories and spent dry absorbing material will be stored in a dedicated onsite tank and will be disposed to authorized hazardous waste incinerators. ➤ Spent lube oils and greases will be disposed to authorized used oil recycling vendors. ➤ A dedicated and completely enclosed shed will be identified to store the hazardous wastes in order to avoid any cross contamination from storm water. ➤ All the waste should be segregated, collected, categorized as per the HWM 	<p>Complied.</p> <ul style="list-style-type: none"> - Solid wastes generated during port development i.e.: construction & demolition wastes are reused for level rising of low lying area within the port premises. Kitchen/ Food, Horticulture/Garden wastes are being sent to Organic Waste Converter (OWC) to convert it into compost and reused as manure in greenbelt/plantation. - Packaging materials generated from the cargo handling i.e.: Wood, Paper/Carton, Steel Scrap, Plastic/Tarpaulin etc. are collected and sold out to recyclers. <p>Complied. All the wastes are segregated at source and stored at a dedicated Hazardous Waste storage shed/yard.</p> <p>Complied. Recyclable waste is being collected and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied. No spill has occurred till date.</p> <p>Complied. Recyclable wastes is being collected and disposed off through CPCB/GPCB registered recyclers.</p> <p>Complied. All the wastes are stored at a dedicated hazardous waste storage shed/yard.</p> <p>Being Complied</p>

	Rules 2008, SWM Rules 2000 and Batteries Rules 2001 prescribed by CPCB under Environmental Protection Act, 1986.	All the wastes are being segregate at source and handled as per applicable rules/ guidelines.
6.	Greenbelt and Plantation: <ul style="list-style-type: none"> ➤ AHPL will develop thick green belt plantation in and around the proposed project facility covering 81.27 Ha. Efforts will be taken to increase the green cover in and around the project boundary using local species with a view to ameliorating project related disturbances and enhancing the ecological value of the area. Greenbelt would be developed as per the CPCB guidelines. ➤ A capital cost of Rs. 1.62 Crore and an annual recurring budget of Rs. 0.65 Crore will be earmarked for this purpose. 	Complied Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 78.49 ha till 30 th September 2021. Horticulture budget for FY 2021-22 is Rs. 160 Lakhs.
7.	Community Development Plan: AHPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows: <ol style="list-style-type: none"> 1. Infrastructure development for educational facilities like building of schools, computer rooms, multipurpose activity halls 2. Supporting education through distribution of stationary, scholarships, science kits, bicycles to children, conducting education camps, competitions. 3. Strengthening the community health by arranging health camps, AID awareness camps, providing financial support to senior citizens and poor people, building dispensaries and mobile dispensaries. 4. Improvement of rural sanitation by conducting mass awareness campaign, helping villagers for constructing and maintaining household toilets, school toilets. 5. Improvement in animal husbandry and agriculture by arranging camps for farmers and cattle owners, conducting programs to use new irrigation technologies, organic farming, and free fodder supply. 	Complied. <ul style="list-style-type: none"> • CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. • Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports. • Please refer the Annexure-2 for the status of the CSR activities during the compliance period Financial Year: 2021-22.

	<p>6. Organizing need based skill development program to women and youth for their empowerment.</p> <p>7. Rural infrastructure development by construction of rainwater harvesting ponds, check dams, roads, bus stops, drainage systems, fish landing shed, solar street lamps.</p> <p>AHPL has committed to spend about Rs. 8.21 Crore in the first five years of the operation towards various rural upliftment and community development programs and tentative budget has been presented in the below table - Budgeted Expenditure for CSR and Community Development Activities:-</p> <table border="1" data-bbox="329 751 885 1081"> <thead> <tr> <th>S. No.</th><th>Descriptions</th><th>Budgeted Amount For 1st 5 year Period (Amount rupees in Crore)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Education</td><td>2.29</td></tr> <tr> <td>2</td><td>Community Health</td><td>1.18</td></tr> <tr> <td>3</td><td>Sustainable Livelihood Activities</td><td>1.43</td></tr> <tr> <td>4</td><td>Rural Infrastructure Development</td><td>2.04</td></tr> <tr> <td>5</td><td>Entry Point Activities</td><td>1.27</td></tr> <tr> <td colspan="2">Total</td><td>8.21</td></tr> </tbody> </table>	S. No.	Descriptions	Budgeted Amount For 1 st 5 year Period (Amount rupees in Crore)	1	Education	2.29	2	Community Health	1.18	3	Sustainable Livelihood Activities	1.43	4	Rural Infrastructure Development	2.04	5	Entry Point Activities	1.27	Total		8.21	
S. No.	Descriptions	Budgeted Amount For 1 st 5 year Period (Amount rupees in Crore)																					
1	Education	2.29																					
2	Community Health	1.18																					
3	Sustainable Livelihood Activities	1.43																					
4	Rural Infrastructure Development	2.04																					
5	Entry Point Activities	1.27																					
Total		8.21																					
II.	MARINE ENVIRONMENT MANAGEMENT PLAN:																						
A.	<p>CONSTRUCTION PHASE: -</p> <ul style="list-style-type: none"> ➤ The dredge spoil generated during capital dredging will be used for land reclamation for the port development and associated utilities. ➤ Unused dredged material will be disposed off at approved dump sites to the north of port area including dredged soil generated through maintenance dredging. ➤ Appropriate dredging methodology shall be adopted to control the generation of high levels of suspended solids. If the suspended solids concentration increases, the dredging operation should be stopped till the normal conditions are achieved. ➤ General clean up along the corridor used for construction related activities, adjacent intertidal areas, creeks etc. should be undertaken and all the discarded materials must be removed from the site and aesthetic quality of the 	<p>Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation.</p> <p>Complied If any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p> <p>Noted & Being Complied Monitoring of turbidity level in the sea water is being done and there is no abnormal increase observed.</p> <p>Being Complied. Clean up of the area is regularly being done.</p>																					

	surroundings to be restored, once the construction activities are completed.	
B.	<p>OPERATION PHASE: - The following mitigation measures are recommended during port operation: -</p> <ul style="list-style-type: none"> ➤ Sewage generated from the port operations will be treated in sewage treatment plant and treated water shall be used for horticulture and green belt development. ➤ All the solid waste generated from the port will be properly segregated, stored and disposed as per the applicable statutory requirement. ➤ All the structures shall be designed in such a way that it should not restrict the prevailing tidal ingress in the creek and mangrove habitats in the vicinity to ensure good health condition. ➤ Coastline between Suwali Point and Tapti Estuary mouth and around the port area will be periodically surveyed to assess erosion and accretion. Should the need arises the corrective action in terms of shore stabilization shall be undertaken. <ul style="list-style-type: none"> ➤ All the minor and major spillages of chemicals will be effectively controlled with appropriate tools and equipments. ➤ An oil/chemical spill management plan shall be evolved and be in place for tier-1 (100t) and tier-2 (700t) spills in consultation with Gujarat Maritime Board/Coast Guard. 	<p>Complied. Sewage generated from the port operations is being treated in STP and treated water is being used for horticulture and green belt development.</p> <p>Complied. All the solid waste generated from the port is properly segregated, stored and disposed as per the applicable rules.</p> <p>Being Complied Free flow to the mangrove is not restricted by any of our activity.</p> <p>Complied. Shoreline change study was conducted by NIO, Vizag during the period from November, 2014 to December, 2015. Study confirms that there is no significant change in the nearby shoreline except for the approved layout of the AHPL. The report did not warrant any mitigation measures.</p> <p>Noted and Being Complied. M/s AHPL has issued the work order for Shoreline Change Assessment in the port boundary and nearby the area to a reputed Institute for carrying out shoreline change assessment and the report will be submitted after completion of the study.</p> <p>There is no oil spill till date.</p> <p>Complied. Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>Noted and Being Complied No effluent is being discharged.</p> <p>Complied. Please refer the Annexure-4D for the Sea Water Quality Monitoring /</p>

	<ul style="list-style-type: none"> ➤ All the marine outfall shall meet the Gujarat Pollution Control Board Effluent Discharge Criteria for Seawater Disposal Standards. ➤ Monitoring of water area of the port and effluent disposal sited shall be studied for pH and Corg, Suspended Solids, DO, BOD in order to identify for deviations if any from the baseline environmental quality. ➤ The mitigation measures suggested for effluent release and maintaining of effluent disposal sites should also be adopted for effluent release by NIKO should be implemented. 	<p>Analysis Reports for the compliance period April 2021 to September 2021</p> <p>Noted, AHPL is not discharging any effluent outside the port premises.</p>
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Adani Hazira Port Limited

**From: October 2020 to
March 2021**

Annexure 12

Copy of Form V Environment Statement

o/c

adani

Ports and
Logistics

AHPPL/GPCB/2021-22/05

Date: 24.06.2021

GPCB ID: 35352

To

The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector-10A,
Gandhinagar-382 010 (Gujarat)

Dear Sir,

Sub.: Environmental Statement in Form-V for the financial year 2020-21 of M/s. Adani Hazira Port Pvt. Ltd.

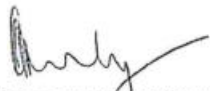
Ref.: I. Consolidated consent and authorization (CC&A) vide consent order no. AWH-87176 dated 17.07.2017
II. Amended CC&A granted vide Order No.: AW-104319, Ref. No.: GPCB/CCA-SRT-1314(8)/ID_35352/528583 dated 02.12.2019.
III. CCA order No: H- I 11966, Dated-16/04/2021

With reference to the above subject and reference, please find enclosed herewith **Environmental Statement in Form-V** prescribed under Rule, 14 of the Environment (Protection) Rules, 1986 for M/s. Adani Hazira Port Pvt. Ltd., At & PO: Hazira, Taluka: Choryashi, District: Surat (Gujarat) for the financial year ending **31st March'2021**.

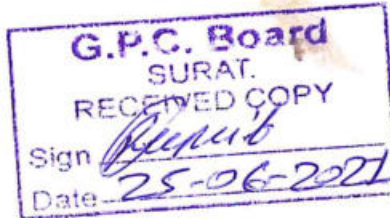
This is for your kind reference and record please.

Thanking You,

Yours faithfully,
For Adani Hazira Port Ltd.



(Pranav Choudhary)
Authorized Signatory



Encl.: - Environmental Statement in Form-V for the Financial Year: 2020-21.

✓ **Cc to:** - The Regional Officer, Gujarat Pollution Control Board, 338, Belgium Square, Opp. Linear Bus Stand, Ring Road, Surat-364 002 (Gujarat)

Adani Hazira Port Ltd
At & PO Hazira
Choryashi
Surat 394 270
Gujarat, India
CIN: U45209GJ2009PTC058789

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Fax +91 261 220 7777
info@adani.com
www.adaniports.com

	Adani Hazira Port Limited	From: October 2020 to March 2021
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Annexure 13

Environment Expenditure of the compliance period April 2021 to September 2021.

Environment Expenditure of the compliance period April 2021 to September 2021.

Sr No	Activities	Budget for FY 2021-22	Expenditure
		(In Lacs INR)	(In Lacs INR)
1	Environmental Study/Audit/Survey/Consultancy Services	50	14.7
2	Legal and Statutory Charges	15	12
3	Environmental Monitoring Services	22	6.05
4	Hazardous Waste Management	33	3.8
5	Horticulture Development – Greenery and Plantation	160	65.04
6	O&M of Sewage Treatment Plant and Effluent Treatment Plant	18	8.55
7	Disposal of Bio medical Waste	1.8	0.81
8	Water Sprinkling for dust suppression	250	109.04
9	Miscellaneous Environmental Initiatives and Salary of Environmental Professionals	20	9.5
10	ISO 14001:2015 (EMS) audit, certification, and internal audit training	2	1.2
Total		571.80	230.69

Expenditure of last three Years

Year	Budget	Expenditure (In Lacs INR)
2018-19	270.69	1344.71
2019-20	363.80	326.76
2020-21	479.63	418.11