

Date: 30.11.2022

To,  
**Deputy Director General of Forest (c)**  
**Ministry of Environment, Forest & Climate Change,**  
**Integrated Regional Office, Ground Floor, East Wing,**  
**New Secretariat Building, Civil Lines, Nagpur – 440001**

Dear Sir,

**Sub:** Half yearly Compliance report of Environment Clearance for Dighi Port development project 1<sup>st</sup> phase, Dighi, District Raigad, Maharashtra for the period of April 2022 to September 2022 – Reg.

**Ref:** 1. Environment Clearance for Dighi Port Limited (Phase I) dated 30.09.2005 (File No: 10-8/2005-IA- III)  
2. Corrigendum dated 26.12.2005: Dighi Port Development Project 1<sup>st</sup> Phase, Dighi, District Raigad, Maharashtra- Environment Clearance –Regarding ((F.No. 10-8/2005-IA-III)  
3. MoEF Letter dated 25.06.2012 “Handling of LNG Cargo at Dighi Port, Maharashtra, by M/s Dighi Port Regarding” (F.No. 10-8/2005-IA-III)  
4. MoEF&CC Corrigendum letter dated 27.01.2022

We would like to inform you that National Company Law Tribunal (NCLT), has approved the resolution plan of Adani Ports and Special Economic Zone (APSEZ) to acquire the Dighi Port Limited (DPL) under the Insolvency and Bankruptcy Code 2016, (IBC). Pursuant to the approval of APSEZ’s Resolution Plan by the NCLT, in accordance with the terms and conditions therein, APSEZ has completed the acquisition of the DPL on 15<sup>th</sup> February 2021. Intimation in this regard has already been submitted to your good office vide our letter No. DPL/ENV/2021/34 dated 25.05.2021.

DPL under its new management has started operation at Dighi Port in very limited way and is in the process of obtaining/restoring the requisite statutory permissions and complying with the requirements of all the statutory permissions (as applicable) in line to reliefs/waiver as given under IBC and approved resolution plan.

With reference to the captioned subject and cited reference above; we are herewith submitting the Half yearly compliance report for the compliance period **April 2022 to September 2022** to the conditions stipulated in the cited reference for your kind information.

Thanking you,  
Yours Sincerely,  
For, Dighi Port Limited

  
**Capt Ryan Fernandez**  
**Chief Operating Officer**

Encl: As above

**Copy to:**

1. The Director (Monitoring –IA-III Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110003 (Email : [monitoring-ec@nic.in](mailto:monitoring-ec@nic.in) )

Dighi Port Limited  
At & Po Dighi  
Taluka- Shrivardhan  
Dist:Raigad Maharashtra-402402  
CIN: U35110MH2000PLC127953

[info@adani.com](mailto:info@adani.com)  
[www.adaniports.com](http://www.adaniports.com)

2. Zonal Office, Central Pollution Control Board, Parivesh Bhawan, Opp. Ward No. 10 VMC Office Subhanpura, Vadodara – 390 023, Gujarat (Email: [westzonecpb@yahoo.com](mailto:westzonecpb@yahoo.com))
3. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> Floor, Road No. 8, Sion Circle, Mumbai- 400022 (Email : [ms@mpcb.gov.in](mailto:ms@mpcb.gov.in))
4. Member Secretary, Maharashtra Coastal Zone Management Authority, Director, Environment Department, 15<sup>th</sup> Floor, New Administrative Building, Opp. Mantralaya, Mumbai – 400032 ((Email : [dir1.mev-mh@nic.in](mailto:dir1.mev-mh@nic.in))
5. Regional Officer- Raigad, Maharashtra Pollution Control Board, Raigad Bhavan, 6th floor, Sector - 11, C.B.D Belapur, Navi Mumbai- 400 614 (Email : [roraigad@mpcb.gov.in](mailto:roraigad@mpcb.gov.in), [mpcbraigad@mpcb.gov.in](mailto:mpcbraigad@mpcb.gov.in))
6. S.R.O. Mahad, Maharashtra Pollution Control Board, Samaik Suvidha Kendra Building, MIDC - Mahad, District Raigad - 402 309 (Email : [sromahad@mpcb.gov.in](mailto:sromahad@mpcb.gov.in))

Dighi Port Limited  
At & Po Dighi  
Taluka- Shrivardhan  
Dist:Raigad Maharashtra-402402  
CIN: U35110MH2000PLC127953




[info@adani.com](mailto:info@adani.com)  
[www.adaniports.com](http://www.adaniports.com)

Registered Office: New Excelsior Building, A. K. Nayak Marg, Fort Mumbai, Maharashtra - 400001

	<b>Dighi Port Ltd</b>	<b>From: April 2022</b> <b>To : September 2022</b>
<b>Status of Conditions Stipulated in Environmental Clearance</b> <b>File no: 10-8/2005-IA-III dated: 30/09/2005</b>		


<b>Half yearly Compliance report on conditions stipulated in Environmental &amp; CRZ Clearance</b>		
<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
<b>A. Specific Conditions</b>		
(i)	The company must take up and earmark adequate funds for the socio-economic development and welfare measures in the area including drinking water supply, vocational training, fishery related development programmes (like cold storages).	<p><b>Being Complied</b></p> <p>Dighi Port Limited has earmarked adequate funds under Corporate Social Responsibility (CSR) scheme. The action on socio-economic aspects such as supply of water to nearby villages, financial support to the existing school, provision of ambulance, advantage to the local entrepreneurs for bauxite handling, etc. are already complied with. Also the actions on issues such as hospital for medical health, drinking water availability, vocational training, port cluster development for economic growth of the region are in the planning stage. The CSR activities are undertaken by Adani Foundation (AF), the CSR arm of Adani group. The CSR activities are based on the need assessment study conducted by AF, broadly in 4 major verticals</p> <ol style="list-style-type: none"> <li>1. Education</li> <li>2. Community Health</li> <li>3. Sustainable Livelihood Development</li> <li>4. Community Infrastructure Development</li> </ol> <p>Attached herewith details of activities and funding w.r.t CSR activities conducted by Adani Foundation and Dighi Port Limited as <b>Annexure 1</b>.</p>
(ii)	The fishing activities by the fishermen living in the settlement along the creek should not be hindered and a mechanism may be evolved for the movement of fishing boats vis-a-vis shipping activities.	<p><b>Being Complied</b></p> <p>The cargo handling activities involved in operation phase are confined to the project area and hence no hindrance to fishing is anticipated. Mechanism has been developed to communicate to all the stakeholder during vessel movement.</p>
(iii)	Company should take up green belt programme in the project area including an ecological park and a plan may be submitted to the Ministry within one year.	<p><b>Complied</b></p> <p>Although natural greenbelt/greenery exists in and around the Port; the port has taken plantation activities on North and South Side with suitable species (Karanj, Alstonia, Casurina etc.) along the periphery (North Side) and at appropriate places on South Side. The same shall be continued and greenbelt coverage will further be enhanced on continuous basis.</p>

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(iv)	The company may suitably modify the alignment of channel entrance including its width, turning circle, taking into consideration the wave traversal, its intensity etc. to facilitate smoother navigation of ships.	<b>Noted for Compliance</b>
(v)	The breakwater alignment and its design should be further modified based on relevant model studies, bore hole data etc. keeping in view the tranquillity condition required for berthing and manoeuvring of ships and subsequent cargo handling operations.	<b>Complied</b> No breakwater has been developed as of now. The same shall be developed based on project requirement based on modelling studies, bore hole data and study of other data/parameter as required.
(vi)	The height of dumping in the dumping site should be restricted to 30 cm as against 90 cm proposed.	<b>Complied</b> Maintenance dredging of quantity 5,69,724 cum was conducted during the compliance period. The said maintenance dredging activity was conducted in selected locations of channel area of Dighi Port only and dumping activity was conducted at approved location.
(vii)	The project proponent will not undertake any destruction of mangroves during construction and operation of the project.	<b>Complied</b>
(viii)	All the conditions stipulated by the Maharashtra Pollution Control Board in their Consent No.BO/Raigad-65/CE/CC-65, dated 7.4.2005 should be effectively implemented.	<b>Complied</b> All the conditions of the Consent to Establish granted vide Consent No. BO/Raigad-65/CE/CC-65 dated 7.4.2005 were complied with and subsequently Consent to Operate was granted by Maharashtra Pollution Control Board vide order dated 7.12.2011. Renewal of consent to operate has been recommended by MPCB vide 1 <sup>st</sup> CAC MoM Dated 13.04.2022. Attached herewith MPCB 1 <sup>st</sup> CAC MoM Dated 13.04.2022 for renewal of consent to operate as

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
		<b>Annexure 2.</b>
(ix)	Sewage arising in the port area should be disposed off through septic tank - soak pit system or shall be treated along with the industrial effluents to conform to the standards stipulated by Maharashtra Pollution Control Board and should be utilized/re-cycled for gardening, plantation and irrigation.	<b>Being Complied</b> Presently there is limited port related activity and domestic sewage generated is being treated through septic tank-soak pit system.
(x)	Adequate plantation should be carried out along the roads of the Port premises and a green belt shall be developed.	<b>Complied</b> Although natural greenbelt/greenery exists in and around the Port; the port has taken plantation activities on North and South Side with suitable species (Karanj, Alstonia, Casurina etc.) along the periphery (North Side) and at appropriate places on South Side. The same shall be continued and greenbelt coverage will further be enhanced on continuous basis.  

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
		
(xi)	DPL should prepare and regularly update the Disaster Management Plan from time to time.	<b>Complied</b> DPL has prepared Onsite Emergency Response Plan inclusive of Natural Calamities. The same is being followed and updated from time to time.
(xii)	Fire Fighting arrangements are examined to the new proposal.	DPL have provided required fire infrastructure for prevention and control of fire within port premises. Attached herewith details of firefighting infrastructure provided at Dighi Port as <b>Annexure 3</b> .
(xiii)	There should be no withdrawal of ground water in CRZ area, for this project. The proponent shall ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	<b>Being Complied</b> No groundwater is being withdrawn from CRZ area. Groundwater is being extracted outside CRZ area for which DPL obtained CGWA permission and same is attached as <b>Annexure 4</b> . Flowmeter and piezometer are installed as part of compliance of GGWA permission conditions. Attached herewith details of installation of flowmeter and piezometer as <b>Annexure No. 5</b> .
(xiv)	The project should not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	<b>Complied</b> Requisite permission from concerned authorities for electricity has been obtained. Water requirement is presently being met from Ground water and from rainwater harvesting pond. For Ground water withdrawal permission please refer <b>Annexure No. 4</b> .

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
		Attached herewith electricity supply permission received from Maharashtra State Electricity Distribution Co. Ltd. As <b>Annexure No. 6.</b>
(xv)	Specific arrangements for rainwater harvesting should be made in the project design and the rainwater so harvested should be optimally utilized. Details in this regard should be furnished to this Ministry's Regional Office at Bhopal within 3 months.	<b>Complied</b> DPL has developed a pond (25 m x 40 m x 3 m) for rainwater harvesting. The water so collected is distributed to nearby villagers. <div data-bbox="831 701 1396 1055" data-label="Image"> </div> <div data-bbox="831 1120 1396 1518" data-label="Image"> </div>
(xvi)	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.	<b>Complied.</b> All the project related construction/developments are in line to CRZ Notification 2011 as amended.
(xvii)	No land reclamation should be carried out for this project  <b>Corrigendum Dated 26.12.2005</b> (xvii) Reclamation within the Port area shall be carried out (+) 5 metre level from the existing ground level. The material for reclamation shall be mainly from the dredged material and the rest should be sourced from approved government areas in the vicinity. Further, the details pertaining to reclamation in	<b>Being Complied</b> This condition has been modified vide MoEF corrigendum dated 26.12.2005.  No reclamation was carried out during the compliance period.



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	the inter-tidal area should be provided to this Ministry within 3 months from the date of receipt of the letter."	
(xviii)	Green buffer zone should be provided all around the project area in consultation with local forest department and the report submitted to this Ministry's Regional Office at Bhopal.	<p><b>Being Complied</b></p> <p>Although natural green buffer zone exists in and around the Port; the port has taken plantation activities on North and South Side with suitable species along the periphery (North Side) and at appropriate places on South Side. The same shall be continued and greenbelt coverage will further be enhanced on continuous basis.</p>  

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(xix)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.	<b>Complied</b> Handling and Storage of product is strictly in accordance with CRZ Notification and as per the EC & CRZ Clearance obtained.
<b>General Conditions:</b>		
(i)	Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/ drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.	<b>Complied</b> Construction/development of the project is in accordance with existing Central/Local rules including CRZ Notification 1991 as amended. Requisite permission from concerned authorities have been obtained.
(ii)	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	<b>Complied</b> There was no construction during the compliance period. Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. were made for the workers during construction phase.
(iii)	The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the	<b>Being Complied</b> Presently there is limited port related activity and domestic sewage generated is being treated through septic tank-soak pit system. Sewage Treatment Plant of adequate capacity will be developed in phased manner based on the need.

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	standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.	<p>All the solid waste generated will be properly collected, source segregation of all types of Solid Waste will be practised and will be disposed as per the provision of Solid Waste Management Rules 2016, as amended.</p> <p>Environment Monitoring at site has been started from June-2021 and Ambient Air Quality, Noise, Soil, Marine Water and sediment, Ground Water and drinking water, DG Stack emission is being monitored on regular basis through NABL accredited and MoEF&amp;CC recognized laboratory. Summary of the monitoring report for the period Apr'22-Sep'22 is attached as <b>Annexure 7</b>.</p>
(iv)	The proponent shall obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 from the Maharashtra Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry	<p><b>Complied</b></p> <p>DPL has obtained Consent/NOC from MPCB vide letter No. BO/Raigad-65/CE/CC-65 dated 07.04.2005. The same was submitted to MoEF&amp;CC vide DPL letter dated 15.03.2008.</p> <p>Consent to Operate was granted by Maharashtra Pollution Control Board vide order dated 7.12.2011. Renewal of consent to operate has been recommended by MPCB vide 1<sup>st</sup> CAC MoM Dated 13.04.2022.</p> <p>Please refer <b>Annexure No. 3</b> for MPCB 1<sup>st</sup> CAC MoM Dated 13.04.2022 for renewal of consent to operate.</p>
(v)	The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.	<p><b>Being Complied</b></p> <p>Presently there is very limited port related activity and domestic sewage generated is being treated through septic tank-soak pit system. Sewage Treatment Plant of adequate capacity will be developed in phased manner.</p> <p>Environment Monitoring at site has been started from June-2021 and Ambient Air Quality, Noise, Soil, Marine Water and sediment, Ground Water and drinking water, DG Stack emission is being monitored on regular basis through NABL accredited and MoEF&amp;CC recognized laboratory. Summary of the monitoring report for the period April 22 to September 22 is attached as <b>Annexure 7</b>.</p> <p>The records of analysis reports are properly maintained and will be made available for inspection to the concerned State/Central officials during their visits.</p>
(vi)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with	<p><b>Complied</b></p> <p>Environment Monitoring at site has been started from June-2021 and Ambient Air Quality, Noise, Soil, Marine Water and sediment, Ground Water and</p>



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	standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	drinking water, DG Stack emission is being monitored on regular basis through NABL accredited and MoEF&CC recognized laboratory. Summary of the monitoring report for the period Apr'22-Sep'22 is attached as <b>Annexure 7</b> .
(vii)	The sand dunes and mangroves, if any, on the site should not be disturbed in any way.	<b>Noted for Compliance</b> There are no sand dunes and mangrove in the project area.
(viii)	A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<b>Complied</b>
(ix)	The Maharashtra Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	<b>Complied</b> This condition doesn't pertain to project proponent.
(x)	The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.	<b>Complied</b> Appropriate funds are being earmarked for environment protection measures (Viz. Regular Environment Monitoring, Greenbelt Development and Maintenance, Waste Management, Road Cleaning etc.). The funds earmarked are not diverted for any other purpose.
(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<b>Complied</b> Full support is being extended to the officers of Ministry/Regional Office, as well as officers of Central and State Pollution Control Board during their visit and the same shall be continued in future also.
(xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	<b>Complied</b> National Company Law Tribunal (NCLT), has approved the resolution plan of Adani Ports and Special Economic Zone (APSEZ) to acquire the Dighi Port Limited (DPL) under the Insolvency and Bankruptcy Code 2016, (IBC). Pursuant to the approval of APSEZ's Resolution Plan by the NCLT, in accordance with the terms and conditions therein, APSEZ has completed the acquisition of the DPL on 15 <sup>th</sup> February 2021. Intimation in this regard has been submitted by new management of DPL vide letter No. DPL/ENV/2021/34 dated 25.05.2021. Dighi Port Limited have submitted an applications for Environment Clearance for Balance EC work and development of Master Plan for expansion of Dighi Port to MoEF&CC, Gol. Expert Appraisal Committee (EAC), MoEF&CC, Gol, Gol have issued Terms of Reference (ToR).

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		Copy of the intimation letter submitted by new management of DPL vide letter No. DPL/ENV/2021/34 dated 25.05.2021 is attached <b>Annexure 8</b> .
(xiii)	This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	<b>Noted</b>
(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	<b>Noted for Compliance</b>
(xv)	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <a href="http://www.envforin.in">http://www.envforin.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	<b>Complied</b>
(xvi)	The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work	<b>Complied</b>
	The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The Project Proponent should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Maharashtra State and the Supreme Court's order dated 18 <sup>th</sup> April, 1996 in the Writ Petition No. 664 of 1993 to the extent the same are applicable to this proposal.	<b>Noted for Compliance</b>

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**Enclosures:**

<b>Annexure Number</b>	<b>Details of Annexure</b>
Annexure 1:	Details of activities and funding wrt CSR activities conducted by Adani Foundation
Annexure 2:	MPCB 1 <sup>st</sup> CAC MoM Dated 13.04.2022 for renewal of consent to operate
Annexure 3:	Details of firefighting infrastructure provided at Dighi Port
Annexure 4:	NOC obtained from Central Groundwater Authority (CGWA) for withdrawal of Groundwater.
Annexure 5:	Compliance of CGWA NOC
Annexure 6:	Electricity supply permission received from Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
Annexure 7:	Summary of Environment Monitoring during Compliance Period
Annexure 8:	Intimation to MoEF&CC,GoI regarding acquisition of Dighi Port by APSEZ

# Annexure 1 : Expenditure on Corporate Social Responsibility (CSR) by Adani Foundation and Dighi Port Limited

Sr No	Activities	Exp upto Sep.22 (Rs. In Lacs)
Adani Foundation		
1	General Management and Administration	0.31
2	Education	1.57
3	Community Health	12.09
4	Sustainable Livelihood Development	1.06
5	Community Infrastructure Development	0.00
Dighi Port Limited		
6	Water Supply to Villages	75.50
7	Total Expenditure on CSR activity	90.53





**Distribution of Education material and sports kit to school children of near by villages**





**Distribution of School bags to school children of nearby villages**





**Distribution of saplings to farmers for orchard development under sustainable livelihood program**





Training on masala making to Self Help Group women under sustainable livelihood program





**Distribution of Solar dryers for fish drying activity under sustainable livelihood program**



**Installation of Vermicompost beds under sustainable livelihood program**



## राजपुरी मराठी शाळेत प्रवेशोत्सव कार्यक्रम



### ■ प्रतिनिधी । नांदगाव

अदानी फाउंडेशनच्या वतीने रायगड जिल्हा परिषद मराठी शाळा, राजपुरी येथे शाळा प्रवेशोत्सव कार्यक्रमाचे आयोजन नुकतेच करण्यात आले होते. या कार्यक्रमाला प्रमुख पाहुणे म्हणून पंचायत समिती मुरुडचे गट शिक्षणाधिकारी बाबुराव पाखरे, मुरुड शिक्षण विभाग साधन व्यक्ती म्हात्रे, साटमकर, शाळा व्यवस्थापन समिती अध्यक्ष निलम चव्हाण, केंद्रप्रमुख जितेंद्र मकू, मुख्याध्यापिका पाटील, तसेच रा.जि.प.शाळा राजपुरी, डोंगरी व आगरदांडा येथील शिक्षक व विद्यार्थी उपस्थित होते. कार्यक्रमाची सुरुवात छत्रपती शिवायांच्या व माता सरस्वतीच्या प्रतिमेचे पूजन करून तसेच दीप प्रज्वलन करून करण्यात आले. कार्यक्रमाची प्रस्तावना अदानी फाउंडेशनच्या जयश्री काळे यांनी केली. गट शिक्षणाधिकारी पाखरे यांनी आपल्या मनोगतात अदानी फाउंडेशनच्या माध्यमातून अतिशय स्तुत्य उपक्रम हाती घेण्यात आला आहे असे सांगितले. दोन वर्षांच्या कोरोना काळानंतर शाळा सुरु झाल्या आहेत. विद्यार्थ्यांना शाळेत येण्यासाठी आवड व जिज्ञासा निर्माण व्हावी तसेच उमेद निर्माण व्हावी याकरिता शालेय बॅग वाटप ही अतिशय सुंदर संकल्पना साकार करण्यात आली. साधन व्यक्ती साटमकर यांनी अदानी फाउंडेशनला धन्यवाद देत मुलांमध्ये किलबिल तसेच खेळीमेळीचे वातावरण निर्माण होण्याकरिता आणि विद्यार्थ्यांमध्ये शिक्षणाचे ओढ निर्माण करण्याकरिता अदानी फाउंडेशनकडून पाया रचला जात आहे, असे मत मांडले. म्हात्रे यांनी विद्यार्थ्यांना पौष्टिक आहार मिळावा याकरिता अदानी फाउंडेशनकडून संकल्पना राबवावी असे विचार मांडले.

## अदानी फाउंडेशनच्यावतीने राजपुरी जि.प. शाळेत प्रवेशोत्सव कार्यक्रम



### विद्यार्थ्यांना बॅग किटचे वाटप करताना मान्यवर.

**मुरुड जंजिरा :** अदानी फाउंडेशनच्यावतीने जिल्हा परिषद मराठी शाळा राजपुरी येथे शाळा प्रवेशोत्सव कार्यक्रम घेण्यात आला. या कार्यक्रमाला प्रमुख पाहुणे म्हणून पंचायत समिती मुरुडचे गट शिक्षणाधिकारी बाबुराव पाखरे, मुरुड शिक्षण विभाग साधन व्यक्ती म्हात्रे, साटमकर, शाळा व्यवस्थापन समिती अध्यक्ष निलम चव्हाण, केंद्रप्रमुख जितेंद्र मकू, मुख्याध्यापिका पाटील, तसेच रा.जि. प. शाळा राजपुरी, डोंगरी व आगरदांडा येथील शिक्षक व विद्यार्थी उपस्थित होते. कार्यक्रमाची प्रस्तावना अदानी फाउंडेशनच्या जयश्री काळे यांनी केली. गट शिक्षणाधिकारी पाखरे यांनी आपल्या मनोगतात अदानी फाउंडेशनच्या उपक्रमाचे कौतुक केले. म्हात्रे यांनी विद्यार्थ्यांना पौष्टिक आहार

मिळावा याकरिता अदानी फाउंडेशनकडून संकल्पना राबवावी, असे सांगितले. यावेळी शिक्षकांसाठी बाला (बोलक्या भिंती) संकल्पनेवर आधारित चित्रकला स्पर्धेचे आयोजन केले व वयानुरूप वर्ग अनुरूप चित्रांची ओळख घेण्यात आली होती. यामध्ये सर्व शाळेतील शिक्षकांनी या स्पर्धेत भाग घेतला. स्पर्धेतील प्रथम, द्वितीय व तृतीय क्रमांकाचे मानकरी अनुक्रमे गणेश लक्ष्मण भोयजी, जितेंद्र जागनाथ मकू, अभिजित गुणवंतराव रोहणे यांना मान्यवरांच्या उपस्थिती गौरविण्यात आले. पहिलीतील सर्व विद्यार्थ्यांना बॅग किटचे वाटप करण्यात आले. कार्यक्रमाचे आभार प्रदर्शन राजपुरी मराठी शाळेचे प्रल्हाद गोंजी यांनी केले. हा कार्यक्रम यशस्वी करण्यासाठी अदानी फाउंडेशनचे अवधूत पाटील यांनी मेहनत घेतली.



## शाश्वत आजीविका विकास कार्यक्रमांतर्गत वृक्षारोपण

### अदानी फाउंडेशनचा उपक्रम; २७० कलमांचे केले वाटप

#### मुरुड-जंजिरा : पुढारी वृक्षारोपण

अदानी फाउंडेशन अंतर्गत ग्रामपंचायत आगरदांडा येथे १५ शेतकरी बांधवांना २७० हप्त्यांच्या आणि फसत वृक्षारोपण करण्यात आले. या कार्यक्रमात ग्रामपंचायत आगरदांडा सरपंच विलास शिर्के, शिवकट्टे, अंगणवाडी सेविका, दिदी पोर्ट लिमिटेड पर्यावरण प्रमुख विलास शिर्के, अदानी फाउंडेशन वरिष्ठ प्रकल्प अधिकारी जयश्री काळे उपस्थित होते.

शाळा आजीविका विकास कार्यक्रमांतर्गत अदानी फाउंडेशनचा फलोत्पादन प्रकियेवर भर देण्यात आला आहे. शेतकरींना फळादाखे लागवड केल्यास उपजीविकेचा आधार होणार आहे. यासाठी अदानी



फाउंडेशनने सरदा मूल्य उन्नत राखण्यात येत आहे. सरपंच शेतकरी बांधवांना २७० वृक्ष वाटप करताना हप्त्यांच्या आल्यास भागात वातावरण आणि मुलक पाणी वृक्ष संवर्धन अंतर्गत पर्यावरण दरो. समुदायिक शेत शेतकरी बांधवांना मान्यमूल्य शेतकरी बांधवांना उत्पादन उत्पादन वाढीसाठी पर्यावरण आहे.

एका दिवसात शेतकरी बांधवांना १०० हप्त्यांच्या वृक्ष संवर्धन अंतर्गत फलोत्पादन प्रकियेसाठी मुद्रा उत्पन्न करून देण्यात आले. शेतकरी बांधवांना मोठ्या प्रमाणात वापरात जाणारे फलोत्पादन प्रकियेवर भर देण्यात आला आहे. सर्व उपस्थितांनी अदानी फाउंडेशनचे निवेदनावरिता आभार मानले.

कार्यक्रमाचे प्रास्ताविक जयश्री काळे यांनी केले, तर आभार भरत मोरे यांनी केले. यावेळी अदानी फाउंडेशनच्या वरिष्ठ प्रकल्प अधिकारी जयश्री काळे, पर्यावरण आरोग्य व सुखा प्रमुख विलास शिर्के यांच्यासह विद्यार्थी व विद्यार्थिनी उपस्थित होत्या. अनंत मेंदाडकर यांनी योगासनाचे महत्त्व पटवून दिले. विलास शिर्के दिदी पोर्ट यांनी विद्यार्थ्यांना योगासनामुळे अभ्यासामध्ये वाढणारा कल तसेच दिनचर्येत घडून येणारा बदल यांचे महत्त्व पटवून दिले. जयश्री काळे यांनी योगाची प्रात्यक्षिके सादर करून शारीरिक व बौद्धिक तणाव मुक्तीसाठी योग किती महत्त्वाचा आहे हे विद्यार्थ्यांना सांगितले. प्रास्ताविक मुख्याध्यापक पडवळ यांनी तर आभार अदानी फाउंडेशनचे अवधूत पाटील यांनी मानले.



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सागर

योग दिन साजरा

दिधी येथे योग दिन कार्यशाळा

जागतिक योग दिनानिमित्त योग कार्यशाळा घेण्यात आलेली कार्यशाळा

बोर्ली पंचतन : अदानी फाउंडेशन दिधी पोर्ट लिमिटेड यांच्या संयुक्त विद्यमाने ग्रामपंचायत दिधी येथील अब्दुल सतार इस्माईल अंतुले हायस्कूल व कनिष्ठ महाविद्यालयात जागतिक योग दिनानिमित्त योग कार्यशाळा घेण्यात आली.

या वेळी मुख्याध्यापक अशोक पडवळ, शिक्षक व शिक्षकेतर कर्मचारी, शिक्षण समिती अध्यक्ष व सदस्य, अदानी फाउंडेशनच्या वरिष्ठ प्रकल्प अधिकारी जयश्री काळे, पर्यावरण आरोग्य व सुखा प्रमुख विलास शिर्के यांच्यासह विद्यार्थी व विद्यार्थिनी उपस्थित होत्या. अनंत मेंदाडकर यांनी योगासनाचे महत्त्व पटवून दिले. विलास शिर्के दिधी पोर्ट यांनी विद्यार्थ्यांना योगासनामुळे अभ्यासामध्ये वाढणारा कल तसेच दिनचर्येत घडून येणारा बदल यांचे महत्त्व पटवून दिले. जयश्री काळे यांनी योगाची प्रात्यक्षिके सादर करून शारीरिक व बौद्धिक तणाव मुक्तीसाठी योग किती महत्त्वाचा आहे हे विद्यार्थ्यांना सांगितले. प्रास्ताविक मुख्याध्यापक पडवळ यांनी तर आभार अदानी फाउंडेशनचे अवधूत पाटील यांनी मानले.



# अदानी फाऊंडेशनतर्फे वृक्षारोपण



वृक्षांचे वाटप करताना.

**मुख-जंजिरा :** अदानी फाऊंडेशन अंतर्गत ग्रामपंचायत प्रागरदंडा येथे १५ शेतकरी बांधवांना २७० हापूस आंबा आणि ऋणस यांची रोपे देऊन वृक्षारोपण करण्यात आले. या कार्यक्रमात ग्रामुख्याने ग्राम पंचायत आग्रदंडा सरपंच वैशाली डोंगरीकर, शिक्षकवृंद, अंगणवाडी सेविका, दीदी पोर्ट लिमिटेड पर्यावरण प्रमुख विलास शिर्के, अदानी फाऊंडेशन ग्रीन प्रकल्प अधिकारी जयश्री

काळे उपस्थित होते.

शाश्वत आजिविका विकास कार्यक्रम अंतर्गत अदानी फाऊंडेशन फलोत्पादन प्रक्रियेवर भर देण्यात आला आहे. शेतकऱ्यांनी फळ झाडांची लागवड केल्यास उपजीविकेचा आधार होणार आहे. यासाठी अदानी फाऊंडेशनतर्फे सदरचा स्तुत्य उपक्रम राबविण्यात येत आहे. गरजू शेतकरी बांधवांना २७० वृक्ष वाटप करताना विलास शिर्के

यांनी आपल्या भाषणात सांगितले की, शाश्वत आजिविका विकास कार्यक्रम अंतर्गत वृक्ष लागवड माध्यमातून शेतकरी बांधवांना उत्पादन वाढ तसेच प्रति वृक्ष २ किलो गांडूळ खत उत्तम वाढीसाठी आहे. एका दिव्यांग शेतकरी बांधवांना १०० हापूस आंबा वृक्ष संवर्धन अंतर्गत फलोत्पादन प्रक्रियासाठी सुद्धा उपलब्ध करून देण्यात आले.

शेतकरी बांधवांनी मोठ्या प्रमाणात वापरली जाणारी फलोत्पादन प्रक्रिया बाबत मनोगत व्यक्त केले. सवच उपस्थितांनी अदानी फाऊंडेशनचे नियोजन करिता आभार मानले. कार्यक्रमाचे प्रास्ताविक जयश्री काळे यांनी केले, तर आभार भरत मोरे कृषी विकास यांनी वयक्त केले. सदरचा कार्यक्रम आग्र दंडा ग्रामपंचयतीमध्ये आयोजित करण्यात आला होता.

## शाश्वत आजिविका विकास कार्यक्रम अंतर्गत वृक्षारोपण, 'अदानी फाऊंडेशन'चा उपक्रम

■ प्रतिनिधी । नांदगाव

अदानी फाऊंडेशन अंतर्गत ग्राम पंचायत आग्रदंडा येथे १५ शेतकरी बांधवांना २७० हापूस आंबा आणि फणस वृक्षारोपण करण्यात आले. या कार्यक्रमात ग्रामुख्याने ग्राम पंचायत आग्रदंडा सरपंच वैशाली ऋषिकांत डोंगरीकर, शिक्षकवृंद, अंगणवाडी सेविका, दीदी पोर्ट लिमिटेड पर्यावरण प्रमुख विलास शिर्के,

अदानी फाऊंडेशन वरिष्ठ प्रकल्प अधिकारी जयश्री काळे उपस्थित होते.

गरजू शेतकरी बांधवांना २७० वृक्ष वाटप करताना विलास शिर्के यांनी आपल्या भाषणात सांगितले की शाश्वत आजिविका विकास कार्यक्रम अंतर्गत वृक्ष लागवड माध्यमातून शेतकरी बांधवांना उत्पादन वाढ तसेच प्रति वृक्ष दोन किलो गांडूळ खत उत्तम वाढीसाठी आहे



कोकण पट्टा हापूस आंब्यासाठी प्रसिद्ध आहे. वातावरण आणि मुबलक पाणी वृक्ष संवर्धन अंतर्गत फायद्याचे ठरते सामुदायिक शेती शेतकरी बांधवांना उत्पादन वाढीसाठी फायद्याचे आहे. एका दिव्यांग शेतकरी बांधवांना १०० हापूस आंबा वृक्ष संवर्धन अंतर्गत फलोत्पादन प्रक्रियेसाठी सुद्धा उपलब्ध करून देण्यात आले.

## शाळा प्रवेशोत्सव समारंभात 'अदानी फाऊंडेशन'तर्फे १५० विद्यार्थ्यांना शालेय बॅग किटचे वाटप

■ प्रतिनिधी । नांदगाव

मूल ही देवावरची फुले असतात. या मुलांना वयाच्या सहाव्या वर्षी शाळेत प्रवेश मिळतो. नवीन ज्ञानात मुले पाऊल ठेवतात. या मुलांमध्ये आनंदी वातावरण मिळावे करिता अदानी फाऊंडेशनच्या माध्यमाने शाळा प्रवेशोत्सव कार्यक्रमाचे आयोजन अदानी फाऊंडेशन दीदी पोर्ट लिमिटेडच्या वतीने करण्यात आले. या कार्यक्रमाला प्रशांत स्वामी विभागीय पोलीस निरीक्षक रमण्ड जिल्हा, गट शिक्षण अधिकारी श्रीवर्धनचे नवनाथ सावळे, केंद्रप्रमुख वामन खोपटकर, धर्मणकर, ग्रामपंचायत कुडगाव प्रथम नागरिक प्रमिल मेढाडकर, शाळा व्यवस्थापन समिती अध्यक्ष, अदानी दीदी पोर्ट सुहास भागवत, सुधाकर तांबे, उपाध्यक्ष, ग्रामपंचायत सत्य, समाज अध्यक्ष, रायगाव जिल्हा पोलिस, मराठी शाळा, कुडगाव मुख्याध्यापक मार्व्ह सर, शिक्षक वृंद व विद्यार्थी उपस्थित होते.

कार्यक्रमाची सुरुवात माना सरस्वती आणि शिवाजी महाराजांची प्रतिमा यांचे प्रतिमेला मान्यार्पण आणि दीपप्रज्वलन करून करण्यात आली. कार्यक्रमाला प्रमुख पाहुणे म्हणून कार्यरतले पोलीस उपनिरीक्षक रायगाड जिल्हा प्रशांत स्वामी यांनी आपल्या भाषणात विद्यार्थ्यांना मार्गदर्शन

करताना मुलांनी जागेपणी स्वतःच्या तसेच सतत मेहनत आणि परिश्रम विद्यार्थ्यांना यशाचे उंच शिखर गाठण्यास मदत करतात. अदानी फाऊंडेशन, दीदी पोर्ट लिमिटेडचा अभिनव उपक्रम पहिली वर्गाच्या विद्यार्थ्यांना लूक कॅा वाटप अतिशय स्तुत्य उपक्रम आहे. भविष्यात सुद्धा अदानी फाऊंडेशन विद्यार्थ्यांच्या सर्वांगीण विकासासाठी कार्यरत राहील, अशी आशा बागळतो. गट शिक्षण अधिकारी सावळे यांनी आपल्या उद्बोधनात विद्यार्थी हा शाळेचा केंद्र बिंदू असून त्याला घडवण्यासाठी अदानी फाऊंडेशन ने अतिशय अभिनव उपक्रम हाती घेतला आहे. जिल्हा परिषदेच्या शाळेच्या विद्यार्थ्यांना अशा सोबतीची अत्यंत निष्कडीची गरज आहे.

जगनाथ गोविंद खरणाकर ग्रामपंचायत सत्य आपल्या उद्बोधनात देवाला जागवण्यासाठी मंदिराला सकाळी भुरगळी पाहिजे. हिंदू संस्कृतीमध्ये कुंकू बाईच्या कायडी पाहिजे, विद्यार्थ्यांची शैक्षणिक बाग फुलवण्यासाठी अदानी फाऊंडेशनसारखे मांडी पाहिजे आणि म्हणून या अदानी फाऊंडेशनच्या अभिनेत्यासाठी जमलेल्या उपस्थितांची फक्त एक

जोरादार टाळी पाहिजे.

केंद्रप्रमुख नातारण खोपटकर यांनी आपल्या भाषणातून अदानी फाऊंडेशनचे आभार व्यक्त करीत विद्यार्थ्यांच्या मनाना आल्हाददायक वातावरण मिळण्यासाठी तसेच पहिल्या वर्गातील विद्यार्थी शाळा प्रवेशोत्सव कार्यक्रमाच्या माध्यमातून स्वतःला ओळख मिळावी. एका स्वागत



गीताच्या गायनाने कार्यक्रम आणि शालेय बॅग किट विद्यार्थ्यांना एक नवीन ऊर्जा प्रदान करते. अतिशय अभिनव उपक्रम 'अदानी फाऊंडेशन' ने 'सीएसआर'च्या माध्यमातून हाती घेतला आहे. अदानी फाऊंडेशनच्या वरिष्ठ प्रकल्प अधिकारी जयश्री काळे यांनी सीएसआरच्या माध्यमातून शैक्षणिक विकासासाठी राबविण्यात येणाऱ्या विविध कार्यक्रमांची माहिती दिली. शाळा प्रवेशोत्सव प्राथमिक वर्गातील विद्यार्थ्यांना आनंदमय वातावरण देण्यासाठी तसेच विद्यार्थ्यांना

एक ओळख मिळावी हा एक मुख्य उद्देश आहे.

सर्व विद्यार्थ्यांना शालेय बॅग किट वाटप करण्यात आले. या शालेय बॅगमध्ये बॉटर बॉटल, पाटी लेखन चित्रकला बुक, स्केच पेन, पेन्सिल, रबर, कटर, बुक बर्णमाला पुस्तक अशी किट वाटप करण्यात आली.

कार्यक्रमाचे प्रास्ताविक रायगाड जिल्हा परिषद मराठी शाळा, कुडगाव शिक्षक सुदर्शन विखे यांनी कार्यक्रमामे सुचसंचालन केले. कार्यक्रमाचे आभार प्रदर्शन मराठी शाळा, कुडगाव मुख्याध्यापक मार्व्ह सर यांनी केले. या कार्यक्रमाला

२५० विद्यार्थ्यांना शालेय बॅग किट वाटप करण्यात आले. दीदी आणि कुडगाव एकुण आठ शाळा दीदी, मणेर, नानवली, कर्नास, कुडगाव सर्व गावातील शाळेचे मुख्याध्यापक व शिक्षकवृंद उपस्थित होते. या कार्यक्रमाला यशस्वी करण्यासाठी रायगाड जिल्हा परिषद मराठी शाळा, कुडगावच्या सर्व शिक्षकांनी अथक परिश्रम घेतले. या कार्यक्रमाला नायकऱ्यांचा, शिक्षकांचा, ग्रामपंचायत कुडगाव तसेच उपस्थितांचा भरघोस प्रतिसाद मिळाला.







Water supply to villages through water tanker on daily basis.

# **MAHARASHTRA POLLUTION CONTROL BOARD**



Minutes of 1<sup>st</sup> Consent Appraisal Committee Meeting of 2022-2023 held on 13.04.2022 at MPCB, Mumbai.

Following members of the Consent Appraisal Committee were present:

- |  |                 |
|--|-----------------|
| 1. Shri. A. L. Jarhad,<br>Chairman, MPCB   | Chairman        |
| 2. Shri Ashok Shingare,<br>Member Secretary, M.P.C. Board.   | Member          |
| 3. Shri P.K. Mirashe,<br>Technical Advisor, MIDC.  | Member          |
| 4. Dr. Y. B. Sonkatte,<br>Joint Director (WPC), M.P.C. Board, Mumbai.  | Member Convener |
| 5. Additional Chief Secretary, Home (Transport) Dept., Mumbai & Representative from NEERI<br>- leave of absence was granted. |                 |

Following Officer of MPCB were present for the meeting:

- |  |                |
|--|----------------|
| 1. Shri V.M. Motghare<br>Joint Director (APC), M.P.C. Board, Mumbai.       | Invitee Member |
| 2. Dr. A.R. Supate,<br>Principal Scientific Officer, M.P.C. Board, Mumbai. | Invitee Member |
| 3. Shri N.N. Gurav,<br>Regional Officer (BMW), M.P.C. Board, Mumbai.       | Invitee Member |

Chairman of the committee welcomed the members of the committee and allowed proceeding of the meeting to start.

The meeting thereafter deliberated on the fresh agenda items [Booklet No. 3 of Consent to Renewal cases] placed before the committee and following decision were taken:



Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Up to	Remarks / Discussion
					<p>conditioning, cooling tower make up, firefighting etc., &amp; remaining shall be used on own land for gardening/irrigation purposes within premises.</p> <p>5. PP shall operate &amp; maintain the bio-gas plant for treatment &amp; disposal of biodegradable waste.</p> <p>6. PP shall not allot the plot to the trade effluent generating industry, however, if any industry in future is likely to come with industrial effluent, then it shall be mandatory for the industry to set up their own pollution control system/ETP to achieve zero discharge i.e. 100% recycle in the process.</p> <p>7. PP shall submit/extend the BG to form the sum of Rs. 25.0 Lakh towards O &amp; M of PCs and compliance of EC &amp; consent conditions.</p>
4	MPCB- CONSENT- 0000111539	Dighi Port Limited (south side) Dighi Port Limited Tal. Shrivardhan, Dist. Raigad, Shrivardhan	<b>APPROVED</b>  Renewal of consent to operate of Dighi Port [South Side]	30.09.2022	<p>Committee noted that, PP has submitted application for renewal of consent in the name of Dighi Port Ltd for operation of port in the Rajpuri Creek at Dighi (South side) having 2 nos. of Jetties/Berths (Multipurpose berths) and facilities for liquid storage and liquid cargos.</p> <p>Committee also noted that, PP has obtained Environmental Clearance in the name of Dighi Port Ltd on 30.09.2005 and corrigendum on 26.12.2005 for Dighi Port development project 1<sup>st</sup> phase, Dighi District- Raigad.</p> <p>Committee Further noted that Show Cause for Refusal was issued on 01/07/2021.</p>

Sr. No.	Application Unique Number	Industry name and Address	Decision on grant of consent	Consent granted Up to	Remarks / Discussion
					<p>PP submitted reply, as per submission of PP they obtain NOC from CGWA and obtain Corrigendum from MoEF&amp;CC in respect of Berths size on 27.01.2022. (Corrigendum of Environmental Clearance on 27.01.2022 in respect of berth size 325 x 34 mtrs dimensions with approach of 100 X 12mtrs instead of berth size 300 x 20mtrs dimensions with approach of 100 X 12mtrs.)</p> <p><b><u>After due deliberation, it was decided to grant Renewal of consent for South side</u></b>, by imposing following conditions:</p> <ol style="list-style-type: none"> <li>1. PP shall operate pollution control system scientifically to achieve the consented norms.</li> <li>2. PP shall submit/extend total Bank Guarantee of Rs. 25 lakh towards O &amp; M of pollution control systems and compliance of consent conditions.</li> </ol>
5	MPCB-CONSENT-0000114807	SAARLOHA ADVANCED MATERIALS PVT.LTD. (Formerly Kalyani Carpenter Special Steel Pvt. Limited) Sr.No.72-76, Mundhwa, Pune Mundhwa, Industrial Zone Haveli	<b>APPROVED</b>  Renewal with increase in CI	31.07.2026	<p>Committee noted that, PP has applied for renewal of consent with increase in capital investment, without change in production for manufacturing of Ingots or Blooms of various sizes and grades- 2,04,000 MT/A.</p> <p>Committee also noted that, this case was discussed in previous CAC meeting &amp; called the PP for presentation on detailed production process and pollution control system provided.</p> <p>Committee further noted that, PP has presented detailed manufacturing process &amp; APC system's provided including</p>

# Fire Infrastructure provided at Dighi Port



Water hydrant line with fire tower and hose reel points installed at Jetty area



# Fire Infrastructure provided at Dighi Port



2 Nos of Well-equipped fire tenders are in operation



# Fire Infrastructure provided at Dighi Port



Fire Extinguisher are installed at various locations of Dighi Port for fire control



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	Dighi Port Limited		
Project Address:	Dighi Port Limited, Village And Post- Dighi,, Taluka Shrivardhan, District- Raigad		
Village:	Dighi	Block:	Shrivardhan
District:	Raigad	State:	Maharashtra
Pin Code:			
Communication Address:	Dighi Port Limited, Village And Post - Dighi, Taluka - Shrivardhan, District - Raigad, Shrivardhan, Raigad, Maharashtra - 402402		
Address of CGWB Regional Office :	Central Ground Water Board Central Region, N.s. Building, Civil Lines, Nagpur, Maharashtra - 440001		

1.	NOC No.:	CGWA/NOC/INF/ORIG/2021/14086													
2.	Application No.:	21-4/6997/MH/INF/2021					3.	Category: (GWRE 2020)			Safe				
4.	Project Status:	Existing Project					5.	NOC Type:			New				
6.	Valid from:	20/12/2021					7.	Valid up to:			19/12/2026				
8.	Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering			Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
90.00		32850.00													
9.	Details of ground water abstraction /Dewatering structures														
Total Existing No.:1							Total Proposed No.:1								
			DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*			0	0	1	0	0	0	0	0	1	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):							68580.00							
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism							
Manual								DWLR**		DWLR With Telemetry					
**DWLR - Digital Water Level Recorder						1		0		1		0			

**(Compliance Conditions given overleaf)**

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE

**Validity of this NOC shall be subject to compliance of the following conditions:**

**Mandatory conditions:**

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**



# Compliance of CGWA NOC



Installation of Flowmeter with telemetry



Installation of Piezometer



(A Govt. of Maharashtra Undertaking )

CIN : U 40109MH2005SGC153645

PHONE NO: 02143-252099 / 253568

FAX NO : 252724

Email : [sepen@mahadiscom.in](mailto:sepen@mahadiscom.in)

Website : [www.mahadiscom.in](http://www.mahadiscom.in)

Office Of the Superintending Engineer (PC)

22KV Sub-Stn. Yard, Antore Road, Pen

PEN - Dist: Raigad - 402 107.

Ref. No: SE/PC/Tech/GRN/Cons...../

No 440

Date:

18 FEB 2022

## LOAD SANCTION ORDER

To,

M/s.Dighi Port Ltd.

At Po.Dighi, Tal:Shriwardhan,

Dist:Raigad

SUB: **New H.T. Power Supply for your Unit at above address.**

REF: 1) Your online application No.38367895

2) T. O. L. No. SE/PC/Tech/GRN/Cons.. /0159 dt.19.01.2022

3) T.O.L.No.EE/TDP/Tech/HT-New/0310 dt.9.02.2022

4) Tech Feasibility No.EE/ GRN /Tech/379 dt.10.02.2022

5) T. O. L. No. SE/PC/Tech/ GRN /Cons...../..... dt....01.2021

6) Cir.No.ED(Dist-II)/Guidelines/NoN SOP/25388 dt.11.09.2019

Dear Sirs,

With reference to your application for New H.T. supply to your above site, we are pleased to inform you that, the same is sanctioned on the following terms and conditions.

### **PURPOSE: PORT**

This Load Sanction is SUBJECT TO removal of Existing LT Connection & its line from the Premises of proposed HT Connection before Release of HT Connection.

#### **1) LOAD SANCTION:**

	<u>Connected Load(KW)</u>	<u>Maximum Demand (KVA)</u>
a)Present	----- KW	----- KVA
b)New	1200 KW	600 KVA
	-----	-----
2)Total	<b>1200 KW</b>	<b>600 KVA</b>
	=====	=====

This load sanction is valid up to **SIX MONTHS** from the date of issue of this order.

3) **PAYMENT** : Please arrange to make payments as detailed below within **Thirty** days from the date of issue of this order:

a)If you want that the MSSEDCL shall complete the works:

i) Fixed Service Connection Charges	Rs. - 0.00
ii) Security Deposit	Rs. - 0.00
iii) Cost of the Estimate / S.L.C.	Rs. - \
iv) Cost of HT metering.	Rs. - \
v) Cost of stamp fee of the agreement form	Rs. - 0.00

Total Rs. 0..00

( Rs.

only.)

Cont...2

b) If you want that, you shall complete the works yourself then, the following charges should be paid by you by D.D.

i) 1.3% S.C. on total estimate cost	Rs.	77,920/-
GST @ 18%	Rs.	14,026/-
ii) Fixed Service Connection Charges	Rs.	/-
iii) Security Deposit	Rs.	17,99,000/-
iv) Cost of stamp fee of the agreement form	Rs.	420/-
v) Processing Fee	Rs.	2,500/-
GST @ 18%	Rs.	450/-

Total Rs. 18,94,316/-

(Rs. Eighteen Lakh ninety four thousand three hundred sixteen only)

You are requested to pay the above amount by DD payable at Mumbai/Pen drawn in favour of M.S.E.D.Co.Ltd. in this office.

The Xerox copy of payment made may be submitted to this office and the concerned Division Office.

**\*\*\* If your future Load Exceeds 7500KVA, in that condition, as per MERC Regulations & Distribution Circular of MSEDCL u/r at (6) above, you will have to opt for EHV Voltage Level as it is mandatory as per provisions of MSEDCL Cir.No.ED(Dist-II)/Guidelines/NoN SOP/25388 dt.11.09.2019.**

**4) TRANSFORMER:** You will have to install your own transformer Sub-Station with transformer capacity of **750KVA** T/F in view of your sanction load & your request letter. The Transformer to be utilized should be BIS marked, BEE Certified and as per IS 1180 (Part I): 2014.

**a) POINT OF SUPPLY:** Location of point of supply will be decided by the MSEDCL and will be binding on you.

**5) CONSUMER'S APPARATUS:** As per condition No.13 of MSEDCL Ltd. condition of supply, you will have to provide the apparatus depending upon the load and KV.

**6) METERING (H.T.):**

a) You will have to provide 3 Nos. of Metering cubicle with 3CTs & 3PTs as per reference(5),

**CT Ratio 25/5A** VA Burden for CT's- 10VA, Class of Acc- 0.5S,

**PTR-22000 /110V**, VA Burden for PTs – 50VA Class of Acc-0.5

$\sqrt{3} \quad \sqrt{3}$

b) Meter will be provided by MSEDCL.

c) You will have to provide separate KWh meter for lighting load for Adm. Building / Residential colony for calculating electricity duty & applying correct tariff. You have to get tested sub-meters from Testing Division, Pen and declare the load for the specific purpose.

**7) METERING (L.T.):**

a) T.O.D. M.D. Meter - 1 No.

b) L.T. Current transformer class 0.5 accuracy - 3 Nos.

c) Molded case circuit breaker, 150A, 5KA - 1 No.

d) Outgoing terminal block - 1 No.

i) Residential Quarters ii) Rest House

iii) Water Pump of Colony iv) Colony St. lighting

v) Office Club vi) Office Lighting

Conti...3



**7) RATED VOLTAGE:** The supply will be given to you on 22KV three phase 50 C/S.

**8) CAPACITORS:** As per Condition No.30 (k) of MSEDCL's Conditions of supply, you will have to maintain power factor not less than 0.9 in order to maintain this required P.F. you will have to install tested capacitors of capacity **200 KVAR Total AT YOUR COST FOR THIS LOAD SANCTION.**

**9) AGREEMENT:** You will have to execute the agreement with MSEDCL in prescribed form in presence of Superintending Engineer (PC), Pen after payment Rs. **18,94,316/-** as above and Test Report. The cost of agreement forms will be borne by you. You will have to bring company Seal/Rubber Stamp, Power of Attorney, a copy of MSEDCL's Resolution and point of supply drawing at the time of execution of agreement.

**10) GENERATORS:** In case, you intend to install generator as standby unit, you will have to obtain the permission from our Head Office and Electrical Inspector.

**11) TEST REPORT:** You will have to submit the test report for installation of equipment/machinery/capacitors along with the mention of capacitors and ELCB etc.. The test report from Manufacturer in respect of the transformer, CB and HT equipment etc. should also be submitted in duplicate.

**12) GENERAL:** Electric supply will be governed by the rules and regulations of the MSEDCL as amended from time to time and Indian Electricity Act and Rules as applicable from time to time. You will have to get the entire installation approved by Electrical Inspector, a copy of which is required to be submitted to this office before commencement of supply.

**13) G-7 FORM:** You will have to maintain the information regarding units consumed, maximum demand etc. on day-to-day basis in the form prescribed by the MSEDCL and make it available for inspection on demand. This form shall be handed over to MSEDCL's representative at the time of monthly meter reading.

**14) M.D. LIMIT:** If you exceed sanctioned limit at any time, without prior permission, supply to your installation shall be liable for disconnection without any further notice from the MSEDCL and excess M.D. will be charged at higher rate as per MSEDCL's rule, and you will be liable to pay additional S.D. if M.D. exceeds three or more time in year as per condition 31(f)(I).

**15) ACCEPTANCE:** Please arrange to submit your acceptance in writing for the above terms and conditions and to the terms and govt. order under reference.

**16) UNAUTHORISED EXCEEDING LOAD:** Actual connected load in KW or MD in KVA should not be exceeded unless specific load release order received which is given after completion of MSEDCL's formalities i.e. prescribed application, payment and T.R. etc.

**17) AUTHORISED SIGNATORIES OF CONSUMERS:** You should furnish to us the names, designation and specimen signatories of at least two authorized representatives duly certified by you, who shall be empowered by you, to sign H.T. meter readings, routine test of T.V. meter & installation etc.. Please note that at least one of the authorized representatives should be available for signature at all times.

Conti...4

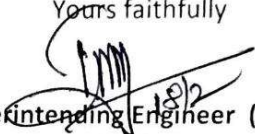
**18) HARMONIES CONTROL:** You should ensure that the total harmonies generated and injected to M.S.E.D.CO.LTD. System by your load should not be more than 3% and the individual harmonic shall not be more than 1%. You will correct any default on your part within 3 months.

**19) REMARKS:** On completion of above formalities, further action for extending supply facility will be taken from our end subject to technical feasibility. Any objections should be removed at your cost & risk.

The above sanction is subject to condition that you have to submit relevant documents as per this office Letter No. 159 dt.. 19.01.2022 before actual release of supply.

In case any clarification is required, you may contact this office.

Thanking you,

Yours faithfully  
  
Superintending Engineer (PC)  
PEN

**Copy to:**

- 1) The Executive Engineer, M.S.E.D.CO.LTD., Goregaon – This has ref. to letter No. 379 dt.10.02.2022
- 2) The Executive Engineer, M.S.E.D.CO.LTD., Testing Dn., Pen.
- 3) The Sr. Manager (F&A), M.S.E.D.CO.LTD., Pen.
- 4) The Dy.Ex. Engineer, M.S.E.D.CO.LTD, Shriwardhan
- 5) HT Billing /Ag. File/MF

**Details**

- A] Estimated cost: =Rs. 59,93,833/-
- B] 1.3% S.C. = Rs.77920/-+ GST – Rs.14026/-
- D] Cost of Ag. Form = Rs.420/-
- E) S.D. = Rs.17,99,000/-
- F] Processing fees = Rs.2500/- Plus GST – 450/-



# **"ENVIRONMENTAL MONITORING REPORT"**

## **FOR**

# **DIGHI PORT LTD.**

**AT&PO: DIGHI, TA: SHRIVARDHAN**

**DIST: RAIGADH, MAHARASTRA**

**APRIL-2022 TO SEPTEMBER-2022**

**PREPARED BY:**



**M/s POLLUCON LABORATORIES PVT.LTD.**

**PLOT NO.5/6 "POLLUCON HOUSE",**

**OPP. BALAJI INDUSTRIAL SOCIETY,**

**OLD SHANTINATH MILL LANE,**

**NEAR GAYTRI FARSAN, NAVJIVAN CIRCLE,**

**UDHANA MAGDALLA ROAD, SURAT-395007**

**PHONE/FAX – (+91 261) 263 5750, 263 5751.**

**E-mail: [pollucon@gmail.com](mailto:pollucon@gmail.com)**

**Web: [www.polluconlab.com](http://www.polluconlab.com)**



**TC-5945**



**ISO 9001:2015**



**ISO 14001:2015**



**ISO45001:2018**

# **"ENVIRONMENT MONITORING REPORT"**

**FOR**

# **DIGHI PORT LTD.**

**AT&PO: DIGHI, TA: SHRIVARDHAN**

**DIST: RAIGADH, MAHARASTRA**

For and on behalf of Pollucon Laboratories Pvt. Ltd., Surat

Approved by : Dr. Arun Kumar Bajpai

Signed : 

Designation : Lab Manager (Q)



This report has been prepared by Pollucon laboratories Pvt. Ltd. with all reasonable skills, care and diligence, incorporating our General Terms and Conditions of Business and taking account of the resources devoted, flow chart, diagram etc. is provided by the client itself.



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**CHAPTER – 1**  
**AMBIENT AIR QUALITY MONITORING**  
**MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**

**Results of AAQM for Near Main Gate Office Area – South Side [APRIL-2022 TO SEPTEMBER-2022]**

Sr. No.	Date of sampling	Respirable Particulate Matter (PM <sub>10</sub> )	Particulate Matter (PM <sub>2.5</sub> )	Sulphur Dioxide (SO <sub>2</sub> )	Oxides of Nitrogen	Carbon Monoxide as CO	Hydrocarbon as CH <sub>4</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
1	04/04/2022	56.93	24.83	7.13	18.24	0.18	ND*
2	07/04/2022	62.73	30.63	10.36	23.48	0.24	ND*
3	11/04/2022	74.13	36.43	16.55	31.66	0.52	ND*
4	14/04/2022	80.52	42.23	19.76	34.84	0.6	ND*
5	18/04/2022	69.31	37.73	14.93	29.17	0.36	ND*
6	21/04/2022	63.83	33.53	11.26	25.38	0.3	ND*
7	25/04/2022	70.64	38.36	15.44	30.57	0.47	ND*
8	28/04/2022	77.42	41.93	18.62	33.73	0.55	ND*
9	02/05/2022	54.24	22.94	7.85	16.17	0.19	ND*
10	05/05/2022	60.43	28.74	9.66	21.37	0.23	ND*
11	09/05/2022	72.62	34.16	15.43	29.56	0.53	ND*
12	12/05/2022	78.84	40.54	18.23	32.77	0.58	ND*
13	16/05/2022	67.13	35.34	13.75	27.95	0.37	ND*
14	19/05/2022	61.32	31.85	10.52	23.23	0.29	ND*
15	23/05/2022	68.5	36.64	14.33	28.44	0.48	ND*
16	26/05/2022	75.72	39.45	17.93	31.66	0.54	ND*
17	30/05/2022	82.92	43.23	20.15	35.85	0.6	ND*
18	02/06/2022	81.13	39.24	18.95	30.84	0.49	ND*
19	06/06/2022	60.3	27.44	10.75	14.67	0.22	ND*
20	09/06/2022	80.52	36.64	17.14	28.47	0.44	ND*
21	13/06/2022	74.71	34.83	14.55	25.24	0.38	ND*
22	16/06/2022	65.91	28.15	11.32	19.76	0.26	ND*
23	20/06/2022	70.22	31.34	13.84	21.54	0.34	ND*
24	23/06/2022	75.44	35.55	16.63	26.36	0.42	ND*
25	27/06/2022	68.64	29.75	12.44	20.94	0.32	ND*
26	30/06/2022	56.83	23.95	9.23	13.14	0.18	ND*
27	04/07/2022	46.22	15.92	8.83	10.17	0.24	ND*
28	07/07/2022	56.41	16.72	9.63	11.34	0.27	ND*
29	11/07/2022	62.63	22.14	12.46	16.56	0.36	ND*
30	14/07/2022	69.84	27.56	14.24	20.76	0.44	ND*
31	18/07/2022	75.14	35.34	16.76	26.97	0.52	ND*
32	21/07/2022	65.33	25.84	13.56	17.28	0.39	ND*
33	25/07/2022	73.52	32.65	15.33	23.48	0.47	ND*
34	28/07/2022	78.72	37.44	19.95	30.68	0.55	ND*
35	01/08/2022	80.1	43.23	20.93	36.84	0.6	ND*
36	04/08/2022	68.32	33.44	13.73	27.65	0.45	ND*



<b>37</b>	<b>08/08/2022</b>	51.52	21.64	9.15	18.44	0.31	ND*
<b>38</b>	<b>11/08/2022</b>	61.71	32.86	11.53	23.25	0.4	ND*
<b>39</b>	<b>15/08/2022</b>	77.91	40.12	18.33	33.74	0.49	ND*
<b>40</b>	<b>18/08/2022</b>	58.23	26.34	10.82	20.53	0.37	ND*
<b>41</b>	<b>22/08/2022</b>	70.43	35.55	15.65	28.37	0.46	ND*
<b>42</b>	<b>25/08/2022</b>	73.64	39.75	16.44	29.97	0.48	ND*
<b>43</b>	<b>29/08/2022</b>	79.83	42.94	19.25	34.16	0.52	ND*
<b>44</b>	<b>01/09/2022</b>	77.13	36.26	18.96	31.87	0.55	ND*
<b>45</b>	<b>05/09/2022</b>	51.32	27.44	9.74	17.66	0.27	ND*
<b>46</b>	<b>08/09/2022</b>	80.53	42.65	20.15	34.46	0.6	ND*
<b>47</b>	<b>12/09/2022</b>	67.71	31.85	14.54	25.26	0.41	ND*
<b>48</b>	<b>15/09/2022</b>	58.91	28.15	11.36	21.76	0.34	ND*
<b>49</b>	<b>19/09/2022</b>	70.24	34.33	15.86	26.55	0.48	ND*
<b>50</b>	<b>22/09/2022</b>	64.42	30.55	12.66	23.34	0.37	ND*
<b>51</b>	<b>26/09/2022</b>	74.64	35.76	16.44	28.97	0.53	ND*
<b>52</b>	<b>29/09/2022</b>	47.81	24.96	8.26	14.14	0.21	ND*

ND\*: - Not Detected; Detection Limit: Hydrocarbon as CH<sub>4</sub> (µg/m<sup>3</sup>): 50

**Results of AAQM for Near Jetty (Berth No. - 1) – South Side [APRIL-2022 TO SEPTEMBER-2022]**

Sr. No.	Date of sampling	Respirable Particulate Matter (PM10)	Particulate Matter (PM 2.5)	Sulphur Dioxide (SO <sub>2</sub> )	Oxides of Nitrogen	Carbon Monoxide as CO	Hydrocarbon as CH <sub>4</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
1	04/04/2022	67.23	35.16	15.35	26.47	0.46	ND*
2	07/04/2022	58.44	26.33	9.14	18.26	0.19	ND*
3	11/04/2022	63.64	32.54	12.76	23.88	0.36	ND*
4	14/04/2022	77.8	37.74	17.54	28.65	0.55	ND*
5	18/04/2022	65.13	34.95	13.25	24.35	0.4	ND*
6	21/04/2022	54.33	23.25	7.95	17.15	0.15	ND*
7	25/04/2022	62.52	30.45	10.85	21.95	0.25	ND*
8	28/04/2022	73.73	36.66	16.44	27.54	0.53	ND*
9	02/05/2022	65.42	33.24	14.14	24.36	0.47	ND*
10	05/05/2022	56.23	24.45	8.36	16.18	0.19	ND*
11	09/05/2022	61.82	30.66	11.56	21.75	0.37	ND*
12	12/05/2022	75.64	35.83	16.72	26.55	0.54	ND*
13	16/05/2022	63.31	32.16	12.95	22.26	0.41	ND*
14	19/05/2022	52.13	21.33	7.22	15.96	0.14	ND*
15	23/05/2022	60.92	28.54	9.44	19.83	0.26	ND*
16	26/05/2022	71.54	34.74	15.66	25.47	0.52	ND*
17	30/05/2022	76.73	39.95	18.83	29.65	0.56	ND*
18	02/06/2022	70.34	34.45	16.26	28.14	0.45	ND*
19	06/06/2022	62.12	24.25	12.42	22.34	0.27	ND*
20	09/06/2022	56.71	20.83	9.65	17.57	0.16	ND*
21	13/06/2022	68.53	32.66	14.85	26.76	0.33	ND*
22	16/06/2022	60.21	22.33	11.14	20.96	0.24	ND*
23	20/06/2022	65.91	26.16	13.35	24.27	0.29	ND*
24	23/06/2022	73.84	39.95	19.54	30.45	0.5	ND*
25	27/06/2022	57.44	21.54	10.75	19.66	0.19	ND*
26	30/06/2022	54.62	19.75	8.94	13.87	0.11	ND*
27	04/07/2022	43.42	13.25	9.13	10.36	0.17	ND*
28	07/07/2022	52.21	17.45	7.34	14.14	0.23	ND*
29	11/07/2022	65.81	31.66	15.53	24.75	0.45	ND*
30	14/07/2022	45.62	16.83	8.73	11.56	0.21	ND*
31	18/07/2022	63.31	26.16	14.93	21.23	0.42	ND*
32	21/07/2022	55.13	21.33	11.25	18.97	0.31	ND*
33	25/07/2022	62.94	23.54	12.46	19.86	0.37	ND*
34	28/07/2022	74.52	34.74	16.62	26.46	0.5	ND*
35	01/08/2022	75.32	36.45	18.25	28.15	0.54	ND*
36	04/08/2022	57.13	24.25	11.45	18.35	0.29	ND*

<b>37</b>	<b>08/08/2022</b>	46.73	16.83	7.62	12.58	0.14	ND*
<b>38</b>	<b>11/08/2022</b>	56.53	22.66	9.86	16.76	0.23	ND*
<b>39</b>	<b>15/08/2022</b>	66.21	34.33	16.13	26.97	0.36	ND*
<b>40</b>	<b>18/08/2022</b>	53.93	19.12	8.36	16.26	0.18	ND*
<b>41</b>	<b>22/08/2022</b>	61.84	26.95	12.56	20.44	0.3	ND*
<b>42</b>	<b>25/08/2022</b>	63.43	28.54	13.72	21.67	0.32	ND*
<b>43</b>	<b>29/08/2022</b>	69.6	35.74	17.96	27.85	0.41	ND*
<b>44</b>	<b>01/09/2022</b>	63.32	31.45	17.25	24.14	0.44	ND*
<b>45</b>	<b>05/09/2022</b>	46.13	22.25	8.45	16.36	0.21	ND*
<b>46</b>	<b>08/09/2022</b>	71.71	33.83	19.64	29.54	0.53	ND*
<b>47</b>	<b>12/09/2022</b>	56.53	27.66	13.83	21.74	0.32	ND*
<b>48</b>	<b>15/09/2022</b>	49.21	23.33	9.13	18.96	0.23	ND*
<b>49</b>	<b>19/09/2022</b>	57.92	29.16	14.34	22.26	0.37	ND*
<b>50</b>	<b>22/09/2022</b>	51.83	26.95	10.55	19.47	0.3	ND*
<b>51</b>	<b>26/09/2022</b>	62.44	30.54	15.76	23.65	0.39	ND*
<b>52</b>	<b>29/09/2022</b>	45.62	21.75	7.94	13.87	0.11	ND*

ND\*: - Not Detected; Detection Limit: Hydrocarbon as CH<sub>4</sub> (µg/m<sup>3</sup>): 50



**Results of AAQM for Security Main Gate No. 1 – North Side [APRIL-2022 TO SEPTEMBER-2022]**

Sr. No.	Date of sampling	Respirable Particulate Matter (PM <sub>10</sub> )	Particulate Matter (PM <sub>2.5</sub> )	Sulphur Dioxide (SO <sub>2</sub> )	Oxides of Nitrogen	Carbon Monoxide as CO	Hydrocarbon as CH <sub>4</sub>
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
1	04/04/2022	62.42	33.34	11.84	22.97	0.32	ND*
2	07/04/2022	54.23	28.16	8.62	16.78	0.22	ND*
3	11/04/2022	67.83	35.75	14.45	28.17	0.41	ND*
4	14/04/2022	74.64	39.55	18.23	32.57	0.54	ND*
5	18/04/2022	57.32	29.25	9.75	20.36	0.27	ND*
6	21/04/2022	66.11	34.96	13.53	26.87	0.37	ND*
7	25/04/2022	73.94	39.84	17.35	30.68	0.47	ND*
8	28/04/2022	80.52	43.43	20.93	34.46	0.6	ND*
9	02/05/2022	60.93	31.46	10.35	20.87	0.33	ND*
10	05/05/2022	52.72	26.24	7.12	14.64	0.21	ND*
11	09/05/2022	65.11	33.84	13.75	26.48	0.42	ND*
12	12/05/2022	72.5	38.63	17.55	30.26	0.53	ND*
13	16/05/2022	55.34	27.33	8.22	18.74	0.29	ND*
14	19/05/2022	64.82	32.13	12.93	24.55	0.36	ND*
15	23/05/2022	71.61	37.92	16.83	28.33	0.48	ND*
16	26/05/2022	78.41	43.56	19.45	32.97	0.58	ND*
17	30/05/2022	69.24	36.76	15.64	27.14	0.46	ND*
18	02/06/2022	63.84	23.95	9.45	11.36	0.22	ND*
19	06/06/2022	75.64	35.75	16.23	28.13	0.37	ND*
20	09/06/2022	85.44	42.14	20.85	33.76	0.56	ND*
21	13/06/2022	69.23	29.54	13.64	20.57	0.27	ND*
22	16/06/2022	79.72	37.34	18.33	31.27	0.47	ND*
23	20/06/2022	66.54	26.83	12.14	16.95	0.26	ND*
24	23/06/2022	78.33	36.63	17.93	30.86	0.44	ND*
25	27/06/2022	82.93	39.43	19.53	32.45	0.54	ND*
26	30/06/2022	71.12	33.25	14.73	23.66	0.32	ND*
27	04/07/2022	47.92	17.44	7.32	14.86	0.32	ND*
28	07/07/2022	55.72	23.24	10.13	19.65	0.4	ND*
29	11/07/2022	66.13	33.84	15.75	26.47	0.52	ND*
30	14/07/2022	60.54	27.66	11.53	21.27	0.44	ND*
31	18/07/2022	50.32	21.36	8.23	16.74	0.36	ND*
32	21/07/2022	73.84	34.13	17.93	29.54	0.54	ND*
33	25/07/2022	63.64	30.96	14.83	23.33	0.47	ND*
34	28/07/2022	84.42	41.55	20.44	34.97	0.61	ND*
35	01/08/2022	86.81	39.93	22.46	31.34	0.55	ND*
36	04/08/2022	62.62	28.75	16.24	22.17	0.39	ND*

<b>37</b>	<b>08/08/2022</b>	52.44	22.15	11.85	16.74	0.24	ND*
<b>38</b>	<b>11/08/2022</b>	62.22	28.54	14.63	21.58	0.38	ND*
<b>39</b>	<b>15/08/2022</b>	74.73	37.34	20.32	29.24	0.5	ND*
<b>40</b>	<b>18/08/2022</b>	57.5	25.83	13.15	18.97	0.33	ND*
<b>41</b>	<b>22/08/2022</b>	66.31	30.62	17.95	24.86	0.44	ND*
<b>42</b>	<b>25/08/2022</b>	71.94	31.46	18.53	26.45	0.47	ND*
<b>43</b>	<b>29/08/2022</b>	79.11	38.26	21.74	30.64	0.53	ND*
<b>44</b>	<b>01/09/2022</b>	75.84	39.93	19.45	32.33	0.46	ND*
<b>45</b>	<b>05/09/2022</b>	52.64	24.74	10.23	16.16	0.25	ND*
<b>46</b>	<b>08/09/2022</b>	81.43	40.14	22.84	36.76	0.48	ND*
<b>47</b>	<b>12/09/2022</b>	61.23	31.54	14.63	23.55	0.37	ND*
<b>48</b>	<b>15/09/2022</b>	57.72	25.32	11.34	20.23	0.27	ND*
<b>49</b>	<b>19/09/2022</b>	64.52	32.83	16.15	25.98	0.39	ND*
<b>50</b>	<b>22/09/2022</b>	60.32	29.62	12.93	21.83	0.32	ND*
<b>51</b>	<b>26/09/2022</b>	71.93	37.42	18.54	30.47	0.44	ND*
<b>52</b>	<b>29/09/2022</b>	50.14	22.24	9.73	15.66	0.23	ND*

ND\*: - Not Detected; Detection Limit: Hydrocarbon as CH<sub>4</sub> (µg/m<sup>3</sup>): 50



## **CHAPTER – 2**

### **SEA WATER AND SEA SEDIMENTS MONITORING MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**

## Results of Sea water Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near South Jetty) – South Side					
GPS Location			18°16'34.8384" N 72°58'11.7516" E					
Date of sampling			25/04/2022		31/05/2022		27/06/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.14	8.07	8.19	8.07	7.99	7.9
2	Temperature	°C	30.5	30.3	30.3	30.1	29.8	29.7
3	Total Suspended Solids	mg/L	41	35	37	30	32	28
4	BOD (3 Days @ 27 °C)	mg/L	3.14	2.80	2.60	Not Detected	2.30	Not Detected
5	Dissolved Oxygen	mg/L	5.95	5.85	5.95	5.85	6.00	5.90
6	Salinity	ppt	28.64	29.38	28.35	28.50	28.29	28.34
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µmol/L	3.28	3.14	2.68	2.54	2.47	2.39
9	Nitrite as NO <sub>2</sub>	µmol/L	0.73	0.69	0.73	0.6	0.56	0.43
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.38	2.24	2.38	2.21	2.19	1.96
11	Phosphates as PO <sub>4</sub>	µmol/L	2.47	2.38	2.1	2.03	1.93	1.87
12	Total Nitrogen	µmol/L	6.39	6.07	5.79	5.35	5.22	4.78
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	30168	30872	29898	30146	29890	29884
15	COD	mg/L	13.49	11.6	11.68	10.32	12.14	9.37
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.66	2.37	2.59	2.34	2.67	2.48
16.2	Phaeophytin	mg/m <sup>3</sup>	0.17	0.18	1.00	1.13	2.04	0.90
16.3	Cell Count	No <sub>x</sub> 10 <sup>3</sup> /L	186	134	172	112	194	126
16.4	Name of Group Number and name of group species of each group	--	Thallasiosira sp., Gymnodium sp., Cyclotella sp., Skeletonema sp., Guinardia sp.	Coscinodiscus sp., Fragillaria sp., Peridinium sp., Nitzschia sp., Navicula sp.	Thallasiosira sp., Coscinodiscus sp., Rhizosolenia sp., Skeletonema sp., Amphiprora sp.	Scendesmus sp., Pleurosigma sp., Nitzschia sp., Synedra sp., Navicula sp.	Thallasiosira sp., Coscinodiscus sp., Peridinium sp., Synedra sp.	Nitzschia sp., Navicula sp., Pleurosigma sp., Skeletonema sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	25		31		35	
17.2	Name of Group Number and name of group species of each group	--	Gastropods, Polychaetes, Chaetognathes, Decapods		Copepods, Polychaetes, Decapods		Copepods, Polychaetes, Decapods	
17.3	Total Biomass	mL/100 m <sup>3</sup>	2.45		2.90		3.25	

18	<b>Microbiological Parameters</b>							
18.1	Total Bacterial Count	CFU/mL	$3.0 \times 10^5$	$1.4 \times 10^5$	$2.5 \times 10^6$	$2.9 \times 10^5$	$2.8 \times 10^5$	$1.7 \times 10^5$
18.2	Total Coliform	/mL	Present	Present	Present	Present	Present	Present
18.3	E.coli	/mL	Present	Present	Present	Present	Present	Present
18.4	Enterococcus species	/mL	$8.6 \times 10^2$	$7.4 \times 10^2$	$3.1 \times 10^6$	$1.9 \times 10^5$	$6.7 \times 10^2$	$5.3 \times 10^2$
18.5	Salmonella species	/mL	Present	Present	Present	Present	Present	Present
18.6	Shigella species	/mL	Present	Present	Present	Present	Present	Present
18.7	Vibrio species	/mL	Present	Present	Present	Present	Present	Present



## Results of Sea water Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near South Jetty) – South Side					
GPS Location			18°16'34.8384" N 72°58'11.7516" E					
Date of sampling			25/07/2022		22/08/2022		12/09/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.06	8.01	8.29	8.17	8.36	8.29
2	Temperature	°C	29.9	29.8	29.8	29.6	29.4	29.3
3	Total Suspended Solids	mg/L	44	33	57	39	64	52
4	BOD (3 Days @ 27 °C)	mg/L	2.1	Not Detected	1.8	Not Detected	2.5	Not Detected
5	Dissolved Oxygen	mg/L	6.20	6.00	6.00	5.85	6.20	6.10
6	Salinity	ppt	28.10	28.30	27.76	28.98	27.56	28.40
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µmol/L	2.36	2.28	2.97	2.86	2.54	2.49
9	Nitrite as NO <sub>2</sub>	µmol/L	0.62	0.56	0.35	0.27	0.38	0.34
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.36	2.1	2.17	2.04	2.2	2.16
11	Phosphates as PO <sub>4</sub>	µmol/L	2.08	1.6	2.29	2.13	1.98	1.87
12	Total Nitrogen	µmol/L	5.14	4.92	5.49	5.17	5.12	4.99
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29608	29598	29368	29648	28992	28712
15	COD	mg/L	13.80	11.60	7.20	6.00	10.00	8.00
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.32	2.12	2.18	2.05	2.59	2.48
16.2	Phaeophytin	mg/m <sup>3</sup>	0.66	0.37	1.19	1.33	2.10	0.96
16.3	Cell Count	No <sub>x</sub> 10 <sup>3</sup> /L	116	172	136	104	184	120
16.4	Name of Group Number and name of group species of each group	--	Thallasiosira sp., Cheatoceros sp., Coscinodiscus sp., Skeletonema sp.	Navicula sp., Pleurosigma sp., Synedra sp., Nitzschia sp.	Guinardio sp., Rhizosolenia sp., Coscinodiscus sp., Skeletonema sp.	Fragillaria sp., Pleurosigma sp., Synedra sp., Nitzschia sp.	Thallasiosira sp., Coscinodiscus sp., Peridinium sp., Synedra sp.	Nitzschia sp., Navicula sp., Pleurosigma sp., Skeletonema sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	28		34		39	
17.2	Name of Group Number and name of group species of each group	--	Polychaetes, Decapods, Gastropods		Mysids, Polychaetes, Gastropods		Polychaetes, Decapods, Mysids	
17.3	Total Biomass	mL/100 m <sup>3</sup>	2.48		3.10		2.55	

18	<b>Microbiological Parameters</b>							
18.1	Total Bacterial Count	CFU/mL	$3.0 \times 10^4$	$2.1 \times 10^5$	$3.4 \times 10^4$	$1.7 \times 10^5$	$2.9 \times 10^4$	$1.6 \times 10^5$
18.2	Total Coliform	/mL	Present	Present	Present	Present	Present	Present
18.3	E.coli	/mL	Present	Present	Present	Present	Present	Present
18.4	Enterococcus species	/mL	$6.4 \times 10^2$	$7.8 \times 10^2$	$5.6 \times 10^2$	$8.6 \times 10^2$	$5.8 \times 10^2$	$8.9 \times 10^2$
18.5	Salmonella species	/mL	Present	Present	Present	Present	Present	Present
18.6	Shigella species	/mL	Present	Present	Present	Present	Present	Present
18.7	Vibrio species	/mL	Present	Present	Present	Present	Present	Present

## Results of Sea water Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near North Jetty) –North Side					
GPS Location			18°16'54.6276" N 72°59'0.0816" E					
Date of sampling			25/04/2022		31/05/2022		27/06/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.20	8.14	8.13	8.08	8.03	7.96
2	Temperature	°C	30.5	30.4	30.4	30.1	29.8	29.7
3	Total Suspended Solids	mg/L	34	28	32	29	35	32
4	BOD (3 Days @ 27 °C)	mg/L	3.20	2.68	2.80	Not Detected	2.3	Not Detected
5	Dissolved Oxygen	mg/L	5.95	5.85	5.95	5.85	6.05	5.95
6	Salinity	ppt	28.54	29.36	28.14	28.36	28.36	28.64
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
8	Nitrate as NO <sub>3</sub>	µmol/L	3.21	3.17	2.54	2.38	2.41	2.35
9	Nitrite as NO <sub>2</sub>	µmol/L	0.69	0.61	0.81	0.77	0.62	0.57
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.47	2.38	2.35	2.26	2.23	2.18
11	Phosphates as PO <sub>4</sub>	µmol/L	2.58	2.49	2.06	1.95	1.94	1.82
12	Total Nitrogen	µmol/L	6.37	6.16	5.7	5.41	5.26	5.1
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	30173	30874	29268	29918	29916	30174
15	COD	mg/L	14.68	12.15	11.64	10.26	11.98	9.94
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.61	2.44	2.67	2.42	2.56	2.50
16.2	Phaeophytin	mg/m <sup>3</sup>	0.33	0.47	2.95	0.95	1.04	0.85
16.3	Cell Count	No.x 10 <sup>3</sup> /L	192	144	186	116	162	130
16.4	Name of Group Number and name of group species of each group	--	Coscinodiscus sp., Thalassiosira sp., Skeletonema sp., Cyclotella sp., Rhizosolenia sp.	Nitzschia sp., Pleurosigma sp., Guinardia sp., Biddulphia sp.	Coscinodiscus sp., Skeletonema sp., Skeletonema sp., Rhizosolenia sp., Guinardia sp.	Nitzschia sp., Pleurosigma sp., Scendesmus sp., Fragillaria sp.	Coscinodiscus sp., Navicula sp., Rhizosolenia sp., Guinardia sp.	Nitzschia sp., Pleurosigma sp., Fragillaria sp., Synedra sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	27		35		29	
17.2	Name of Group Number and name of group species of each group	--	Copepods, Gastropods, Decapods, Polychaetes		Bivalves, Decapods, Polychaetes		Bivalves, Amphipods, Polychaetes, Gastropods	
17.3	Total Biomass	mL/100 m <sup>3</sup>	2.60		3.45		2.85	



18	<b>Microbiological Parameters</b>							
18.1	Total Bacterial Count	CFU/mL	$2.1 \times 10^6$	$1.8 \times 10^5$	$6.5 \times 10^2$	$4.7 \times 10^2$	$1.5 \times 10^6$	$2.4 \times 10^5$
18.2	Total Coliform	/mL	Present	Present	Present	Present	Present	Present
18.3	E.coli	/mL	Present	Present	Present	Present	Present	Present
18.4	Enterococcus species	/mL	$8.4 \times 10^2$	$5.7 \times 10^2$	$8.4 \times 10^2$	$5.9 \times 10^2$	$7.1 \times 10^2$	$6.8 \times 10^2$
18.5	Salmonella species	/mL	Present	Present	Present	Present	Present	Present
18.6	Shigella species	/mL	Present	Present	Present	Present	Present	Present
18.7	Vibrio species	/mL	Present	Present	Present	Present	Present	Present

## Results of Sea water Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near North Jetty) –North Side					
GPS Location			18°16'54.6276" N 72°59'0.0816" E					
Date of sampling			25/07/2022		22/08/2022		12/09/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.09	8.06	8.15	8.11	8.35	8.28
2	Temperature	°C	30.0	29.8	29.8	29.6	29.3	29
3	Total Suspended Solids	mg/L	42	35	37	37	58	48
4	BOD (3 Days @ 27 °C)	mg/L	2.12	Not Detected	1.90	Not Detected	1.96	Not Detected
5	Dissolved Oxygen	mg/L	6.30	6.20	6.40	6.00	6.10	6.00
6	Salinity	ppt	28.12	28.30	28.10	28.20	27.60	28.30
7	Oil & Grease	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	1.5	Not Detected
8	Nitrate as NO <sub>3</sub>	μmol/L	2.38	2.30	2.55	2.50	2.60	2.51
9	Nitrite as NO <sub>2</sub>	μmol/L	0.65	0.58	0.70	0.62	0.41	0.38
10	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	2.19	2.12	2.40	2.30	2.10	2.00
11	Phosphates as PO <sub>4</sub>	μmol/L	2.10	1.65	1.90	1.70	1.84	1.80
12	Total Nitrogen	μmol/L	5.22	5.00	5.65	4.62	5.11	4.89
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29906	29848	29846	29710	28712	28642
15	COD	mg/L	12.40	11.00	10.00	8.00	8.00	6.00
16	Phytoplankton							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.59	2.34	2.26	2.16	2.3	2.6
16.2	Phaeophytin	mg/m <sup>3</sup>	0.60	0.30	1.26	1.44	1.8	1.2
16.3	Cell Count	No.x 10 <sup>3</sup> /L	184	122	190	130	170	140
16.4	Name of Group Number and name of group species of each group	--	Cheatocerous sp., Thallasiosira sp., Skeletonema sp., Coscinodiscus sp.	Rhizosolenia sp., Navicula sp., Nitzschia sp., Synedra sp.	Skeletonema sp., Synedra sp., Peridiniom sp., Coscinodiscus sp., Guinardia sp.	Navicula sp., Pleurosigma sp., Fragillaria sp., Cymbella sp.	Cheatocerous sp., Thallasiosira sp., Skeletonema sp., Coscinodiscus sp.	Rhizosolenia sp., Navicula sp., Nitzschia sp., Synedra sp.
17	Zooplanktons							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	26		34		26	
17.2	Name of Group Number and name of group species of each group	--	Decapods, Copepods, Ctenophores		Polychaetes, Copepods, Isopods, Mysids		Bivalves, Decapods, Polychaetes	
17.3	Total Biomass	mL/100 m <sup>3</sup>	2.19		2.90		2.90	
18	Microbiological Parameters							

18.1	Total Bacterial Count	CFU/mL	$3.1 \times 10^6$	$1.7 \times 10^5$	$1.8 \times 10^6$	$3.3 \times 10^5$	$1.5 \times 10^6$	$3.2 \times 10^5$
18.2	Total Coliform	/mL	Present	Present	Present	Present	Present	Present
18.3	E.coli	/mL	Present	Present	Present	Present	Present	Present
18.4	Enterococcus species	/mL	$8.2 \times 10^2$	$6.8 \times 10^2$	$6.4 \times 10^2$	$5.2 \times 10^2$	$6.7 \times 10^2$	$6.3 \times 10^2$
18.5	Salmonella species	/mL	Present	Present	Present	Present	Present	Present
18.6	Shigella species	/mL	Present	Present	Present	Present	Present	Present
18.7	Vibrio species	/mL	Present	Present	Present	Present	Present	Present



## Results of Sea Sediment Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near South Jetty) – South Side					
GPS Location			18°16'34.8384" N 72°58'11.7516" E					
Date of sampling			25/04/2022	31/05/2022	27/06/2022	25/07/2022	22/08/2022	12/09/2022
1	Organic Matter	%	1.43	1.31	1.47	1.35	1.24	1.1
2	Phosphorus as P	µg/g	0.33	0.36	0.33	0.36	0.39	0.29
3	Texture	--	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	6.32	5.92	6.02	6.32	5.98	5.80
5.2	Total Chromium as Cr+3	µg/g	54.86	51.86	58.47	56.00	41.32	34.00
5.3	Manganese as Mn	µg/g	874	849	876	856	718	802
5.4	Iron as Fe	%	6.42	5.84	5.94	6.12	5.86	6.10
5.5	Nickel as Ni	µg/g	37.86	37.68	28.43	25.20	31.27	24.60
5.6	Copper as Cu	µg/g	61.73	81.29	69.28	67.40	57.64	42.80
5.7	Zinc as Zn	µg/g	68.15	67.94	75.64	80.40	72.39	84.60
5.8	Lead as Pb	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Amphiods, Polychaetes, Gastropods	Amphiods, Polychaetes, Crustaceans	Gastropods, Polychaetes, Bivalves	Gastropods, Polychaetes, Decapods	Gastropods, Polychaetes, Decapods, Amphipods	Gastropods, Polychaetes, Crustaceans,,
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferan, Nematodes	--	Foraminiforans	Nematodes	Foraminiforans	Foraminiforans
6.3	Population	no/m <sup>2</sup>	382	352	380	324	526	550

## Results of Sea Sediment Monitoring

SR. NO.	PARAMETERS	UNIT	RESULTS					
Sampling Location			(Near North Jetty) –North Side					
GPS Location			18°16'54.6276" N 72°59'0.0816" E					
Date of sampling			25/04/2022	31/05/2022	27/06/2022	25/07/2022	22/08/2022	12/09/2022
1	Organic Matter	%	1.84	1.96	1.53	1.40	1.20	1.05
2	Phosphorus as P	µg/g	0.36	0.41	0.36	0.38	0.31	0.24
3	Texture	--	Clay	Clay	Clay	Clay	Clay	Clay
4	Petroleum Hydrocarbon	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5	<b>Heavy Metals</b>							
5.1	Aluminum as Al	%	6.28	6.12	5.98	6.80	6.12	5.92
5.2	Total Chromium as Cr+3	µg/g	54.31	36.84	51.27	48.00	35.00	30.00
5.3	Manganese as Mn	µg/g	819	826	856	842	811	795
5.4	Iron as Fe	%	6.34	5.73	5.92	6.04	5.90	6.02
5.5	Nickel as Ni	µg/g	31.40	37.56	29.37	26.80	20.80	22
5.6	Copper as Cu	µg/g	63.85	52.94	61.89	65.30	55.60	44.80
5.7	Zinc as Zn	µg/g	70.14	63.80	72.75	78.90	81.40	86.80
5.8	Lead as Pb	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
5.9	Mercury as Hg	µg/g	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
6	<b>Benthic Organisms</b>							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaetes, Amphiods, Polychaetes	Crustaceans, Amphiods, Polychaetes	Polychaetes, Gastropods, Bivalves	Gastropods, Crustaceans, Bivalves, Ostracods	Gastropods, Crustaceans, Bivalves	Gastropods, Crustaceans, Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Foraminiferan, Nematodes	Nematodes	Foraminiforans	Foraminiforans	Nematodes	Foraminiforans
6.3	Population	no/m <sup>2</sup>	409	382	409	380	468	526

## **CHAPTER – 3**

### **GROUND WATER QUALITY MONITORING**

**MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**



**Results of Ground Water Quality Monitoring**

SR. NO.	PARAMETERS	UNIT	RESULT		
Sampling Location			Main Borewell-South Side		
Date of sampling			25/04/2022	31/05/2022	27/06/2022
1	Colour	Hazen	3	3	4
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.11	0.09	0.12
5	pH	--	7.63	7.65	7.43
6	Total Hardness	mg/L	65	65	69
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	23.49	22.9	18
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	169	169	152
11	Calcium as Ca	mg/L	19.2	14.8	16.8
12	Magnesium as Mg	mg/L	4.08	6.72	6.48
13	Copper	mg/L	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	8.24	6.84	5.92
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.005	< 0.005	< 0.005
21	Cyanide as CN	mg/L	< 0.01	< 0.01	< 0.01
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05

26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	98	106	93
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>				
30	Coliforms	/100 ml	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>				
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1

32.22	Isoproturon	µg/L	<0.1	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1	< 0.1

**Results of Ground Water Quality Monitoring**

SR. NO.	PARAMETERS	UNIT	RESULT	
Sampling Location		Main Borewell-South Side		
Date of sampling			25/07/2022	12/09/2022
1	Colour	Hazen	3	4
2	Odour	--	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable
4	Turbidity	NTU	0.16	0.18
5	pH	--	7.55	7.65
6	Total Hardness	mg/L	74	82
7	Iron	mg/L	<0.05	<0.05
8	Chloride as Cl	mg/L	21.9	25.9
9	Fluorides as F	mg/L	<0.05	<0.05
10	Total Dissolved Solids	mg/L	184	206
11	Calcium as Ca	mg/L	14	16
12	Magnesium as Mg	mg/L	9.36	10.08
13	Copper	mg/L	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01
15	Sulphate as SO4	mg/L	7.8	9.6
16	Nitrate Nitrogen as NO3	mg/L	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.005	< 0.005
21	Cyanide as CN	mg/L	< 0.01	< 0.01
22	Lead as Pb	mg/L	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05



26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1
27	Alkalinity	mg/L	98	110
28	Aluminum	mg/L	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>			
30	Coliforms	/100 ml	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent
<b>B</b>	<b>Pesticides</b>			
32.1	Alachlor	µg/L	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1

32.22	Isoproturon	µg/L	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1

## **CHAPTER – 4**

### **DRINKING WATER MONITORING**

**MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**

**Results of Drinking Water quality monitoring**

SR. NO.	PARAMETERS	UNIT	RESULT		
Sampling Location			South Side -Office Kitchen Cooler Water		
Date of sampling			25/04/2022	31/05/2022	27/06/2022
1	Colour	Hazen	2	2	3
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.06	0.06	0.09
5	pH	--	7.29	7.56	7.68
6	Total Hardness	mg/L	15	29	19
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	4.9	4.9	3.49
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	68	72	59
11	Calcium as Ca	mg/L	5.2	5.2	4.8
12	Magnesium as Mg	mg/L	0.48	3.84	1.68
13	Copper	mg/L	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	3.15	3.45	2.38
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	2	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.005	< 0.005	< 0.005
21	Cyanide as CN	mg/L	< 0.01	< 0.01	< 0.01
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05



26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	18	24	18
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>				
30	Coliforms	/100 ml	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>				
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1

32.22	Isoproturon	µg/L	<0.1	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1	< 0.1

**Results of Drinking Water quality monitoring**

<b>SR. NO.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>		
<b>Sampling Location</b>			<b>South Side -Office Kitchen Cooler Water</b>		
<b>Date of sampling</b>			<b>25/07/2022</b>	<b>22/08/2022</b>	<b>12/09/2022</b>
1	Colour	Hazen	2	3	2
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.12	0.16	0.11
5	pH	--	7.39	7.49	7.35
6	Total Hardness	mg/L	15	18	20
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	4.9	5.9	8.9
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	48	54	68
11	Calcium as Ca	mg/L	4.0	6.0	4.0
12	Magnesium as Mg	mg/L	1.20	0.72	2.40
13	Copper	mg/L	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	3.60	4.80	3.10
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.005	< 0.005	< 0.005
21	Cyanide as CN	mg/L	< 0.01	< 0.01	< 0.01
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05

26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	28	23	20
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>				
30	Coliforms	/100 ml	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>				
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1



32.22	Isoproturon	µg/L	<0.1	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1	< 0.1

**Results of Drinking Water quality monitoring**

SR. NO.	PARAMETERS	UNIT	RESULT		
Sampling Location			North Side - Office Kitchen Cooler Water		
Date of sampling			25/04/2022	31/05/2022	27/06/2022
1	Colour	Hazen	2	4	3
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.07	0.07	0.08
5	pH	--	7.29	7.35	7.57
6	Total Hardness	mg/L	16	24	19
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	3.99	12.9	4.49
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	69	65	56
11	Calcium as Ca	mg/L	4.8	6.0	4.4
12	Magnesium as Mg	mg/L	0.72	2.16	1.92
13	Copper	mg/L	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	3.20	3.40	2.28
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.001	< 0.001	< 0.001
21	Cyanide as CN	mg/L	< 0.0001	< 0.0001	< 0.0001
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1

25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05
26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	19	18	15
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>				
30	Coliforms	/100 ml	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>				
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1

32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1
32.22	Isoproturon	µg/L	<0.1	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1	< 0.1



**Results of Drinking Water quality monitoring**

SR. NO.	PARAMETERS	UNIT	RESULT		
Sampling Location			North Side - Office Kitchen Cooler Water		
Date of sampling			25/07/2022	22/08/2022	12/09/2022
1	Colour	Hazen	2	3	2
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.11	0.14	0.1
5	pH	--	7.42	7.56	7.45
6	Total Hardness	mg/L	14	18	21
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	4.85	5.6	4.9
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	44	64	54
11	Calcium as Ca	mg/L	4.0	4.8	4.0
12	Magnesium as Mg	mg/L	0.96	1.44	2.64
13	Copper	mg/L	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	3.52	3.86	2.50
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.001	< 0.001	< 0.001
21	Cyanide as CN	mg/L	< 0.0001	< 0.0001	< 0.0001
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05

26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	24	21	28
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>				
30	Coliforms	/100 ml	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>				
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1

32.22	Isoproturon	µg/L	<0.1	<0.1	<0.1
32.23	Malathion	µg/L	<0.1	<0.1	<0.1
32.24	Methyl parathion	µg/L	<0.1	<0.1	<0.1
32.25	Monocrotophos	µg/L	<0.1	<0.1	<0.1
32.26	Phorate	µg/L	<0.1	<0.1	<0.1
33	Phenolic compounds	mg/L	< 0.0005	< 0.0005	< 0.0005
34	Residual Chlorine	mg/L	< 0.1	< 0.1	< 0.1

## **CHAPTER – 5**

### **NOISE LEVEL MONITORING**

**MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**



**Results of Day Time Noise level monitoring**

<b>April-2022</b>				
<b>Day Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>18/04/2022</b>	<b>18/04/2022</b>	<b>18/04/2022</b>
<b>1</b>	6:00-7:00	59.7	58.8	65.3
<b>2</b>	7:00-8:00	59.9	62.4	58.2
<b>3</b>	8:00-9:00	57.0	53.7	55.7
<b>4</b>	9:00-10:00	61.8	58.7	67.0
<b>5</b>	10:00-11:00	56.0	57.5	65.8
<b>6</b>	11:00-12:00	59.4	62.7	60.3
<b>7</b>	12:00-13:00	57.8	61.6	63.8
<b>8</b>	13:00-14:00	59.3	56.8	63.5
<b>9</b>	14:00-15:00	59.0	54.1	66.1
<b>10</b>	15:00-16:00	55.8	60.2	59.5
<b>11</b>	16:00-17:00	56.7	58.4	67.4
<b>12</b>	17:00-18:00	56.4	61.9	64.9
<b>13</b>	18:00-19:00	57.3	56.6	65.9
<b>14</b>	19:00-20:00	62.0	53.2	64.0
<b>15</b>	20:00-21:00	58.9	60.4	62.8
<b>16</b>	21:00-22:00	61.0	56.5	56.9
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>April-2022</b>				
<b>Night Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>18/04/2022 &amp; 19/04/2022</b>	<b>18/04/2022 &amp; 19/04/2022</b>	<b>18/04/2022 &amp; 19/04/2022</b>
<b>1</b>	22:00-23:00	53.1	56.2	50.3
<b>2</b>	23:00-00:00	51.5	52.5	54.1
<b>3</b>	00:00-01:00	50.6	58.9	62.6
<b>4</b>	01:00-02:00	45.8	53.0	56.3
<b>5</b>	02:00-03:00	50.5	55.0	51.4
<b>6</b>	03:00-04:00	57.4	52.3	52.7
<b>7</b>	04:00-05:00	50.0	54.0	62.7
<b>8</b>	05:00-06:00	57.9	46.9	50.2
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

**Results of Day Time Noise level monitoring**

<b>May-2022</b>				
<b>Day Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>31/05/2022</b>	<b>31/05/2022</b>	<b>31/05/2022</b>
<b>1</b>	6:00-7:00	63.6	66.6	70.6
<b>2</b>	7:00-8:00	54.2	68.3	63.8
<b>3</b>	8:00-9:00	62.5	55.1	59.2
<b>4</b>	9:00-10:00	66.7	63.7	72.5
<b>5</b>	10:00-11:00	60.1	65.6	70.4
<b>6</b>	11:00-12:00	54.3	57.2	63.1
<b>7</b>	12:00-13:00	52.6	68.9	67.9
<b>8</b>	13:00-14:00	63.2	61.3	68.4
<b>9</b>	14:00-15:00	65.2	61.7	62.3
<b>10</b>	15:00-16:00	60.0	65.3	55.4
<b>11</b>	16:00-17:00	59.1	62.2	60.3
<b>12</b>	17:00-18:00	63.4	67.3	69.5
<b>13</b>	18:00-19:00	56.4	52.3	61.2
<b>14</b>	19:00-20:00	66.3	58.1	68.6
<b>15</b>	20:00-21:00	62.4	67.8	58.7
<b>16</b>	21:00-22:00	67.2	61.4	65.5
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>May-2022</b>				
<b>Night Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>31/05/2022 &amp; 01/06/2022</b>	<b>31/05/2022 &amp; 01/06/2022</b>	<b>31/05/2022 &amp; 01/06/2022</b>
<b>1</b>	22:00-23:00	53.1	56.2	50.3
<b>2</b>	23:00-00:00	51.5	52.5	54.1
<b>3</b>	00:00-01:00	50.6	58.9	62.6
<b>4</b>	01:00-02:00	45.8	53.0	56.3
<b>5</b>	02:00-03:00	50.5	55.0	51.4
<b>6</b>	03:00-04:00	57.4	52.3	52.7
<b>7</b>	04:00-05:00	50.0	54.0	62.7
<b>8</b>	05:00-06:00	57.9	46.9	50.2
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

**Results of Day Time Noise level monitoring**

June-2022				
Day Time dB(A)				
SR. NO.	Sampling Time	Near Main Gate Office Area – South Side	Near Jetty (Berth No. - 1) – South Side	Security Main Gate No. 1 – North Side
		27/06/2022	27/06/2022	27/06/2022
1	6:00-7:00	66.8	70.5	64.2
2	7:00-8:00	56.2	72.6	68.7
3	8:00-9:00	68.5	60.2	55.1
4	9:00-10:00	62.1	68.2	69.6
5	10:00-11:00	65.4	61.4	67.3
6	11:00-12:00	59.3	62.7	60.4
7	12:00-13:00	56.1	64.8	70.5
8	13:00-14:00	60.4	58.6	65.1
9	14:00-15:00	61.3	67.4	65.6
10	15:00-16:00	63.6	70.3	59.4
11	16:00-17:00	55.2	66.0	63.8
12	17:00-18:00	66.9	63.2	64.3
13	18:00-19:00	62.8	56.3	57.2
14	19:00-20:00	63.7	64.4	71.4
15	20:00-21:00	67.3	71.6	64.7
16	21:00-22:00	64.1	66.3	68.3
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

June-2022				
Night Time dB(A)				
SR. NO.	Sampling Time	Near Main Gate Office Area – South Side	Near Jetty (Berth No. - 1) – South Side	Security Main Gate No. 1 – North Side
		27/06/2022 & 28/06/2022	27/06/2022 & 28/06/2022	27/06/2022 & 28/06/2022
1	22:00-23:00	56.7	60.1	54.5
2	23:00-00:00	55.2	58.9	56.9
3	00:00-01:00	52.3	63.4	59.4
4	01:00-02:00	50.4	56.1	61.2
5	02:00-03:00	47.9	59.8	55.4
6	03:00-04:00	61.3	49.2	56.3
7	04:00-05:00	45.6	61.4	58.5
8	05:00-06:00	62.4	52.4	45.2
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

**Results of Day Time Noise level monitoring**

<b>July-2022</b>				
<b>Day Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>25/07/2022</b>	<b>25/07/2022</b>	<b>25/07/2022</b>
<b>1</b>	6:00-7:00	62.4	58.8	68.3
<b>2</b>	7:00-8:00	55.2	64.4	54.2
<b>3</b>	8:00-9:00	61.3	53.7	58.5
<b>4</b>	9:00-10:00	65.4	58.7	71.5
<b>5</b>	10:00-11:00	60.6	57.5	69.4
<b>6</b>	11:00-12:00	54.3	62.7	58.1
<b>7</b>	12:00-13:00	61.7	64.6	66.2
<b>8</b>	13:00-14:00	62.5	55.5	60.4
<b>9</b>	14:00-15:00	52.1	61.4	68.5
<b>10</b>	15:00-16:00	60.5	54.1	57.0
<b>11</b>	16:00-17:00	64.7	66.8	63.5
<b>12</b>	17:00-18:00	59.6	70.2	66.4
<b>13</b>	18:00-19:00	52.2	58.2	70.6
<b>14</b>	19:00-20:00	66.7	53.2	62.2
<b>15</b>	20:00-21:00	63.6	67.9	65.1
<b>16</b>	21:00-22:00	58.4	59.8	61.5
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>July-2022</b>				
<b>Night Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>25/07/2022 &amp; 26/07/2022</b>	<b>25/07/2022 &amp; 26/07/2022</b>	<b>25/07/2022 &amp; 26/07/2022</b>
<b>1</b>	22:00-23:00	58.6	62.5	48.6
<b>2</b>	23:00-00:00	55.2	57.8	60.2
<b>3</b>	00:00-01:00	53.4	54.2	58.4
<b>4</b>	01:00-02:00	51.9	50.1	61.3
<b>5</b>	02:00-03:00	47.5	59.6	54.8
<b>6</b>	03:00-04:00	60.1	57.4	49.7
<b>7</b>	04:00-05:00	56.3	61.5	57.6
<b>8</b>	05:00-06:00	55.4	52.8	53.3
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.



**Results of Day Time Noise level monitoring**

<b>August-2022</b>				
<b>Day Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>22/08/2022</b>	<b>22/08/2022</b>	<b>22/08/2022</b>
<b>1</b>	6:00-7:00	66.5	54.2	72.6
<b>2</b>	7:00-8:00	59.1	68.9	59.8
<b>3</b>	8:00-9:00	66.4	57.1	52.4
<b>4</b>	9:00-10:00	67.2	63.6	68.1
<b>5</b>	10:00-11:00	62.1	56.3	64.2
<b>6</b>	11:00-12:00	56.8	59.2	62.3
<b>7</b>	12:00-13:00	64.3	68.4	63.5
<b>8</b>	13:00-14:00	66.1	52.2	62.7
<b>9</b>	14:00-15:00	55.6	59.7	71.4
<b>10</b>	15:00-16:00	58.7	56.4	60.2
<b>11</b>	16:00-17:00	62.4	61.3	65.5
<b>12</b>	17:00-18:00	57.3	66.2	61.4
<b>13</b>	18:00-19:00	55.1	63.3	67.1
<b>14</b>	19:00-20:00	63.7	56.1	58.4
<b>15</b>	20:00-21:00	61.5	65.3	63.0
<b>16</b>	21:00-22:00	59.5	57.2	64.5
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>August-2022</b>				
<b>Night Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>22/08/2022 &amp; 23/08/2022</b>	<b>22/08/2022 &amp; 23/08/2022</b>	<b>22/08/2022 &amp; 23/08/2022</b>
<b>1</b>	22:00-23:00	54.1	59.4	49.7
<b>2</b>	23:00-00:00	59.7	52.3	55.4
<b>3</b>	00:00-01:00	51.3	58.9	61.3
<b>4</b>	01:00-02:00	56.3	52.4	58.5
<b>5</b>	02:00-03:00	50.5	60.6	57.0
<b>6</b>	03:00-04:00	57.6	51.2	53.6
<b>7</b>	04:00-05:00	59.2	57.4	54.2
<b>8</b>	05:00-06:00	52.1	49.5	55.6
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

**Results of Day Time Noise level monitoring**

<b>September-2022</b>				
<b>Day Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>12/09/2022</b>	<b>12/09/2022</b>	<b>12/09/2022</b>
<b>1</b>	6:00-7:00	55.2	60.5	61.6
<b>2</b>	7:00-8:00	57.7	61.0	60.5
<b>3</b>	8:00-9:00	56.1	55.4	51.9
<b>4</b>	9:00-10:00	58.3	60.2	61.4
<b>5</b>	10:00-11:00	58.4	61.2	59.7
<b>6</b>	11:00-12:00	55.6	59.7	54.7
<b>7</b>	12:00-13:00	56.2	57.5	59.8
<b>8</b>	13:00-14:00	54.7	58.3	55.2
<b>9</b>	14:00-15:00	57.2	56.2	64.8
<b>10</b>	15:00-16:00	56.3	58.4	55.5
<b>11</b>	16:00-17:00	59.1	54.3	60.2
<b>12</b>	17:00-18:00	59.3	61.5	58.9
<b>13</b>	18:00-19:00	54.8	58.7	61.2
<b>14</b>	19:00-20:00	59.8	57.3	56.5
<b>15</b>	20:00-21:00	57.6	60.4	55.3
<b>16</b>	21:00-22:00	54.2	58.2	56.8
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>September-2022</b>				
<b>Night Time dB(A)</b>				
<b>SR. NO.</b>	<b>Sampling Time</b>	<b>Near Main Gate Office Area – South Side</b>	<b>Near Jetty (Berth No. - 1) – South Side</b>	<b>Security Main Gate No. 1 – North Side</b>
		<b>12/09/2022 &amp; 13/09/2022</b>	<b>12/09/2022 &amp; 13/09/2022</b>	<b>12/09/2022 &amp; 13/09/2022</b>
<b>1</b>	22:00-23:00	56.2	57.7	48.2
<b>2</b>	23:00-00:00	53.7	55.6	53.6
<b>3</b>	00:00-01:00	57.2	53.1	54.2
<b>4</b>	01:00-02:00	50.7	57.3	52.4
<b>5</b>	02:00-03:00	53.2	51.8	50.6
<b>6</b>	03:00-04:00	56.3	53.3	47.0
<b>7</b>	04:00-05:00	54.8	50.0	51.1
<b>8</b>	05:00-06:00	50.4	56.1	46.5
<b>Night Time Limit<sup>#</sup></b>		<b>70 dB(A)Leq</b>		

Limit<sup>#</sup>: The specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

**CHAPTER – 6**  
**WEATHER DATA MONITORING**  
**MONITORING PERIOD: APRIL-2022 TO SEPTEMBER-2022**

Date	Avg wind Speed (m/s)	Temperature (°C)	RH %	Precip. (mm)
01/04/2022	2.12	27.6	72.27	0.00
02/04/2022	1.67	28.0	75.42	0.00
03/04/2022	1.94	28.3	74.36	0.00
04/04/2022	1.75	29.2	74.98	0.00
05/04/2022	2.02	31.0	73.55	0.00
06/04/2022	1.59	29.9	77.56	0.00
07/04/2022	1.53	29.9	77.20	0.00
08/04/2022	1.50	29.9	79.55	0.00
09/04/2022	1.72	30.6	77.36	0.00
10/04/2022	1.69	30.4	77.09	0.00
11/04/2022	1.68	29.8	74.45	0.00
12/04/2022	2.02	30.1	71.39	0.00
13/04/2022	2.25	30.4	70.40	0.00
14/04/2022	1.74	30.5	73.44	0.00
15/04/2022	1.70	30.3	75.09	0.00
16/04/2022	1.83	29.2	74.67	0.00
17/04/2022	1.90	29.6	73.09	0.00
18/04/2022	2.07	30.9	64.64	0.00
19/04/2022	1.90	29.8	72.18	0.00
20/04/2022	2.69	30.5	73.95	0.00
21/04/2022	3.13	32.8	57.86	0.00
22/04/2022	2.50	31.5	72.23	0.00
23/04/2022	1.74	31.7	67.49	0.00
24/04/2022	2.15	30.6	75.56	0.00
25/04/2022	2.71	31.1	70.00	0.00
26/04/2022	2.43	30.7	72.21	0.00
27/04/2022	3.23	30.6	75.39	0.00
28/04/2022	2.00	31.1	74.79	0.00
29/04/2022	2.34	31.0	77.57	0.00
30/04/2022	1.87	30.5	76.67	0.00
01/05/2022	2.24	30.4	76.94	0.00
02/05/2022	2.30	30.8	75.76	0.00
03/05/2022	2.27	30.6	75.97	0.00
04/05/2022	2.30	30.8	73.81	0.00
05/05/2022	2.75	30.4	75.27	0.00
06/05/2022	2.92	30.1	76.22	0.00
07/05/2022	2.84	30.1	77.73	0.00
08/05/2022	3.11	29.9	79.74	0.00
09/05/2022	2.62	30.0	79.61	0.00
10/05/2022	2.91	30.2	78.08	0.00
11/05/2022	1.88	30.2	78.45	0.00
12/05/2022	2.02	30.4	77.53	0.00
13/05/2022	2.20	31.0	74.04	0.00
14/05/2022	1.98	30.4	74.93	0.00
15/05/2022	2.60	30.3	75.95	0.00
16/05/2022	2.95	30.8	75.39	0.00
17/05/2022	2.39	30.4	75.67	0.00
18/05/2022	2.23	30.1	75.15	0.00
19/05/2022	2.32	30.0	75.21	0.00
20/05/2022	1.74	30.0	76.71	0.00

21/05/2022	2.03	30.6	74.44	0.00
22/05/2022	2.01	31.3	74.06	0.00
23/05/2022	1.98	31.7	74.60	0.00
24/05/2022	2.22	31.6	74.07	0.00
25/05/2022	2.10	31.1	73.97	0.00
26/05/2022	2.50	30.9	73.13	0.00
27/05/2022	2.43	31.1	70.61	0.00
28/05/2022	2.16	31.2	70.37	0.00
29/05/2022	2.39	31.0	71.61	0.00
30/05/2022	2.38	30.8	72.30	0.00
31/05/2022	2.68	30.9	71.83	0.00
01/06/2022	1.92	30.1	74.48	0.00
02/06/2022	2.42	30.7	74.01	0.00
03/06/2022	2.55	30.5	73.65	0.00
04/06/2022	2.26	30.4	74.79	0.00
05/06/2022	1.98	30.5	74.66	0.00
06/06/2022	1.83	31.0	72.99	0.00
07/06/2022	1.61	31.1	74.09	0.00
08/06/2022	2.07	31.2	75.34	0.00
09/06/2022	2.17	30.3	76.39	0.00
10/06/2022	3.53	30.2	74.34	0.00
11/06/2022	----	----	----	----
12/06/2022	2.95	28.5	83.76	0.00
13/06/2022	3.04	29.1	78.18	1.02
14/06/2022	2.45	30.3	75.52	0.00
15/06/2022	2.20	29.9	77.99	3.30
16/06/2022	1.86	28.9	82.19	9.14
17/06/2022	1.75	29.7	81.00	7.87
18/06/2022	1.95	28.4	83.03	7.37
19/06/2022	2.33	27.6	85.60	29.21
20/06/2022	2.12	26.0	90.67	47.51
21/06/2022	2.57	25.7	91.23	40.38
22/06/2022	2.75	27.2	86.74	21.59
23/06/2022	2.03	27.5	84.95	8.64
24/06/2022	3.16	27.5	85.93	2.80
25/06/2022	2.93	25.8	92.89	63.49
26/06/2022	2.92	26.3	92.40	85.09
27/06/2022	1.97	27.0	90.16	3.56
28/06/2022	2.08	26.6	90.75	26.41
29/06/2022	4.30	27.5	88.54	53.86
30/06/2022	5.17	25.6	92.88	48.76
31/05/2022	2.68	30.9	71.83	0.00
01/07/2022	2.05	26.4	92.11	41.65
02/07/2022	2.80	28.5	85.83	27.95
03/07/2022	7.08	29.1	83.54	9.91
04/07/2022	11.40	27.2	89.92	67.57
05/07/2022	2.76	25.8	93.91	98.58
06/07/2022	2.35	26.8	91.40	81.28
07/07/2022	2.82	26.8	90.68	21.61
08/07/2022	3.46	27.6	86.85	18.29
09/07/2022	3.64	27.1	86.67	8.89
10/07/2022	3.43	27.2	83.66	5.34



11/07/2022	----	----	----	----
12/07/2022	3.79	21.0	76.31	2.29
13/07/2022	3.95	24.8	88.26	25.66
14/07/2022	----	----	----	----
15/07/2022	0.72	23.2	80.03	10.91
16/07/2022	----	----	----	----
17/07/2022	----	----	----	----
18/07/2022	1.10	27.0	81.32	3.05
19/07/2022	3.18	28.3	83.81	3.56
20/07/2022	2.59	27.3	86.90	7.88
21/07/2022	3.86	27.5	86.10	4.58
22/07/2022	2.62	28.3	82.75	0.00
23/07/2022	3.39	27.6	84.82	7.63
24/07/2022	4.28	27.5	85.51	4.32
25/07/2022	12.22	28.4	82.74	1.53
26/07/2022	11.31	27.0	85.68	5.08
27/07/2022	1.46	26.7	87.62	1.53
28/07/2022	1.44	28.5	83.67	0.00
29/07/2022	1.08	29.5	82.13	0.00
30/07/2022	1.14	29.9	79.46	0.00
31/07/2022	1.25	29.7	79.62	0.51
01/08/2022	1.57	29.9	78.10	0.00
02/08/2022	1.20	29.3	80.98	4.56
03/08/2022	11.32	28.3	84.64	7.37
04/08/2022	11.18	28.1	86.57	10.42
05/08/2022	2.39	27.5	87.16	25.92
06/08/2022	1.66	26.2	91.89	69.60
07/08/2022	1.93	25.6	94.03	86.65
08/08/2022	2.62	25.5	94.93	97.53
09/08/2022	2.84	26.6	89.72	33.28
10/08/2022	2.26	26.1	90.66	21.34
11/08/2022	2.74	26.6	89.69	27.94
12/08/2022	6.17	26.6	88.64	30.00
13/08/2022	2.12	27.2	87.88	28.46
14/08/2022	1.97	27.1	86.94	18.03
15/08/2022	2.54	27.2	86.38	7.38
16/08/2022	1.94	26.7	88.41	16.50
17/08/2022	1.67	27.3	87.32	13.73
18/08/2022	2.03	27.3	87.00	8.63
19/08/2022	2.20	27.0	88.19	11.94
20/08/2022	2.46	27.7	85.59	2.55
21/08/2022	2.67	27.2	86.55	4.32
22/08/2022	3.14	27.1	87.13	7.37
23/08/2022	2.70	27.0	88.48	11.94
24/08/2022	2.47	27.0	87.42	5.86
25/08/2022	1.78	26.9	88.05	5.86
26/08/2022	1.60	27.8	84.74	0.51
27/08/2022	1.55	28.1	82.71	1.53
28/08/2022	1.55	28.2	82.40	2.29
29/08/2022	1.25	28.2	82.59	0.00
30/08/2022	0.91	28.8	81.74	0.00
31/08/2022	1.11	29.4	83.57	0.00

01/09/2022	1.13	29.3	81.74	0.00
02/09/2022	1.29	29.7	82.70	0.00
03/09/2022	1.36	29.5	83.10	0.00
04/09/2022	1.05	28.3	88.00	0.00
05/09/2022	0.95	29.3	81.86	0.00
06/09/2022	0.95	29.1	82.01	0.00
07/09/2022	1.17	28.3	85.55	0.00
08/09/2022	1.09	27.8	85.28	0.00
09/09/2022	1.32	28.4	85.87	0.00
10/09/2022	1.86	28.0	85.28	0.00
11/09/2022	1.47	28.2	85.39	0.00
12/09/2022	1.59	27.2	89.53	0.00
13/09/2022	3.83	26.6	90.87	31.26
14/09/2022	3.37	27.3	87.71	20.84
15/09/2022	2.32	27.5	86.67	11.94
16/09/2022	4.24	26.1	91.07	38.10
17/09/2022	1.74	27.3	86.81	5.85
18/09/2022	1.36	26.5	87.29	4.32
19/09/2022	1.55	25.8	89.01	5.84
20/09/2022	1.54	25.4	87.86	8.13
21/09/2022	1.23	25.5	86.01	0.51
22/09/2022	1.42	26.7	83.87	3.81
23/09/2022	2.20	24.9	90.73	24.65
24/09/2022	1.58	25.6	90.72	51.32
25/09/2022	1.51	26.4	87.44	3.05
26/09/2022	9.07	26.7	85.74	1.53
27/09/2022	11.03	27.2	84.70	0.00
28/09/2022	11.04	27.7	84.63	0.00
29/09/2022	11.23	27.7	87.46	0.00
30/09/2022	8.33	28.2	86.38	0.00

NOTE: Instrument was not in operation during 10<sup>th</sup> June, 2022 at 15:00 to 12<sup>th</sup> June, 2022 at 19:59, 11<sup>th</sup> July, 2022 at 00:00 to 11<sup>th</sup> July, 2022 at 23:59, 14<sup>th</sup> July, 2022 at 00:00 to 14<sup>th</sup> July, 2022 at 23:59 and 15<sup>th</sup> July, 2022 at 00:00 to 16<sup>th</sup> July, 2022 at 23:59 due to censor fault and maintenance work.



Ports and  
Logistics

DPL/ENV/2021/34

Date: 25-05-2021

**The Director (IA-III Division),  
Ministry of Environment, Forest & Climate Change,  
Indira Paryavaran Bhawan, Jor Bagh Road,  
New Delhi – 110003**

Dear Sir,

**Sub: Intimation regarding Acquisition of Dighi Port Limited by Adani Ports and Special Economic Zone Limited (APSEZ).**

**Ref:** 1. Environment Clearance for Dighi Port Limited (Phase I) dated 30.09.2005 (File No: 10-8/2005-IA- III)  
2. Corrigendum dated 26.12.2005: Dighi Port Development Project 1<sup>st</sup> Phase, Dighi, District Raigarh, Maharashtra-Environment Clearance –Regarding ((F.No. 10-8/2005-IA-III)  
3. MoEF Letter dated 25.06.2012 "Handling of LNG Cargo at Dighi Port, Maharashtra, by M/s Dighi Port Regarding" (F.No. 10-8/2005-IA-III)

The Environment Clearance for Dighi Port Limited (Phase I) was granted by Ministry of Environment and Forests (MoEF) vide letter dated 30.9.2005 (**Reference 1**). EC Corrigendum was issued vide a MoEF letter dated 26.12.2004 (**Reference 2**) and Permission for Handling of LPG Cargo was given by MoEF vide its letter dated 25.06.2012 (**Reference 3**).

With reference to the captioned subject; this is to inform you that, National Company Law Tribunal (NCLT), has approved the resolution plan of Adani Ports and Special Economic Zone (APSEZ) to acquire the Dighi Port Limited (DPL) under the Insolvency and Bankruptcy Code 2016, (IBC). Pursuant to the approval of APSEZ's Resolution Plan by the NCLT, in accordance with the terms and conditions therein, APSEZ has completed the acquisition of the DPL on 15<sup>th</sup> February 2021.

This is for your kind information and record please.

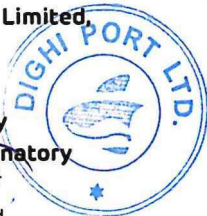
Thanking you,

Yours Sincerely,

For, Dighi Port Limited,

**Ganesh Poojary**  
**Authorised Signatory**

Dighi Port Limited  
At & Po Dighi  
Taluka Shrivardhan  
Dist: Raigad Maharashtra-402402  
CIN: U35110MH2000PLC127953



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[www.adaniports.com](http://www.adaniports.com)

Registered Office: New Excelsior Building, A. K. Nayak Marg, Fort Mumbai, Maharashtra - 400001



Ports and  
Logistics

**Encl:**

1. Environment Clearance for Dighi Port Limited (Dated 30.09.2005)
2. EC Corrigendum dated 26.12.2005
3. MoEF Letter dated 25.06.2012 "Handling of LNG Cargo at Dighi Port"

**Copy to:**

1. Deputy Director General of Forest (c) Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur – 440001 (Email : [apccfcentral-ngp-mef@gov.in](mailto:apccfcentral-ngp-mef@gov.in))
2. Zonal Office, Central Pollution Control Board, Parivesh Bhawan, Opp. Ward No. 10 VMC Office Subhanpura, Vadodara – 390 023, Gujarat (Email: [westzonecpcb@yahoo.com](mailto:westzonecpcb@yahoo.com))
3. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> Floor, Road No. 8, Sion Circle, Mumbai-400022 (Email : [ms@mpcb.gov.in](mailto:ms@mpcb.gov.in))
4. Member Secretary, Maharashtra Coastal Zone Management Authority, Director, Environment Department, 15<sup>th</sup> Floor, New Administrative Building, Opp. Mantralaya, Mumbai – 400032 ((Email : [dir1.mev-mh@nic.in](mailto:dir1.mev-mh@nic.in))
5. Regional Officer- Raigad, Maharashtra Pollution Control Board, Raigad Bhavan, 6th floor, Sector - 11, C.B.D Belapur, Navi Mumbai- 400 614 (Email : [roraigad@mpcb.gov.in](mailto:roraigad@mpcb.gov.in), [mpcbraigad@mpcb.gov.in](mailto:mpcbraigad@mpcb.gov.in))
- ✓ 6. S.R.O. Mahad, Maharashtra Pollution Control Board, Samaik Suvidha Kendra Building, MIDC - Mahad, District Raigad - 402 309 (Email : [sromahad@mpcb.gov.in](mailto:sromahad@mpcb.gov.in))

Dighi Port Limited  
At & Po Dighi  
Taluka- Shrivardhan  
Dist:Raigad Maharashtra-402402  
CIN: U35110MH2000PLC127953

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