

## Vilas Shirke

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**From:** Vilas Shirke  
**Sent:** Wednesday, May 31, 2023 11:49 AM  
**To:** eccompliance-mh@gov.in; apccfccentral-ngp-mef@gov.in  
**Cc:** monitoring-ec@nic.in; westzonecpcb@yahoo.com; ms@mpcb.gov.in; dir1.mev-mh@nic.in; roraigad@mpcb.gov.in; mpcbraigad@mpcb.gov.in; sromahad@mpcb.gov.in; Anshul Sanduja  
**Subject:** Half yearly Compliance Report of Env. and CRZ Clearance for Dighi Port Development Project Phase 1, Dighi, Raigad, Maharashtra for the period Oct-2022 To Mar-23  
**Attachments:** Six Monthly Compliance Report - Oct 22 to Mar 23.pdf

Dear Sir/Madam,

Please find attached herewith, Half yearly Compliance report of Environment and CRZ Clearance for Dighi Port Development Project 1<sup>st</sup> phase, Dighi, District Raigad, Maharashtra for the period of October 2022 to March 2023.

Requesting you to acknowledge the same.

Thanks & Best Regards,

Vilas Shirke  
Head-Environment, Health and Safety  
Dighi Port Ltd.  
Mob : +91-8806977334  
Email : [vilas.shirke@adani.com](mailto:vilas.shirke@adani.com)  
[www.adaniports.com](http://www.adaniports.com)



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Date: 24/05/2023

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

**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 October 2022 to March 2023 – 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

Dear Sir,

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 **October 2022 to March 2023** to the conditions stipulated in the cited reference for your kind information.

Thanking You,  
For Dighi Port Limited

  
Mr. Kapilkumar Khandelwal 24/05/23  
Chief Executive Officer

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)

**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) )
2. Zonal Office, Central Pollution Control Board, Parivesh Bhawan, Opp. Ward No. 10 VMC Office Subhanpura, Vadodara – 390 023, Gujarat (Email: [westzonecpccb@yahoo.com](mailto:westzonecpccb@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 : [coraigad@mpcb.gov.in](mailto:coraigad@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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Registered Office: New Excelsior Building, A. K. Nayak Marg, Fort Mumbai, Maharashtra - 400001

	<b>Dighi Port Limited</b>	<b>From: October 2022</b> <b>To : March 2023</b>
<b>Status of Conditions Stipulated in Environmental and CRZ 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>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 Adani Foundation, 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>Dighi Port Limited is supplying water to nearby villages.</p> <p>Attached herewith details of CSR activities conducted by Adani Foundation 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. DPL is continuing to Educate/inform the fishermen about Port activities.</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>



	Dighi Port Limited	From: October 2022 To : March 2023
Status of Conditions Stipulated in Environmental and CRZ Clearance File no: 10-8/2005-IA-III dated: 30/09/2005		

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
		
(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 considering 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 10,38,525 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> There are no mangroves in the vicinity of project area.
(viii)	All the conditions stipulated by the	<b>Complied</b>

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
	Maharashtra Pollution Control Board in their Consent No.BO/Raigad-65/CE/CC-65, dated 7.4.2005 should be effectively implemented.	<p>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 for Dighi Southside has been granted by MPCB vide - Format1.0/CAC/UAN No.0000110738/CR/2303000156 Dated 26.12.2022.</p> <p>Consent to Operate for Dighi North side has been granted by Maharashtra Pollution Control Board vide Format1.0/CAC/UAN No.0000110738/CR/2303000156 Dated 02.03.2023.</p> <p>Consent To Establish for for storage and distribution of non-Classified liquid Cargo of 20000 KL Capacity has been granted by Maharashtra Pollution Control Board vide Format1.0/CAC/UAN No.0000149239/CE/2212001895 Dated 26.12.2022.</p>
(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.	<p><b>Being Complied</b></p> <p>Presently there is limited port related activity and domestic sewage generated is being treated through septic tank-soak pit system.</p> <p>Installation and commissioning of sewage treatment plant is in progress.</p>

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S. No.	Conditions	Compliance Status
		
(x)	Adequate plantation should be carried out along the roads of the Port premises and a green belt shall be developed.	<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> 




	Dighi Port Limited	From: October 2022 To : March 2023
Status of Conditions Stipulated in Environmental and CRZ Clearance File no: 10-8/2005-IA-III dated: 30/09/2005		

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S. No.	Conditions	Compliance Status
		  
(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



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<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>
		infrastructure provided at Dighi Port as <b>Annexure 2.</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 have obtained CGWA permission and same is attached as <b>Annexure 3.</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, outside sources (Tanker) and also from rainwater harvesting pond. Attached herewith electricity supply permission received from Maharashtra State Electricity Distribution Co. Ltd. As <b>Annexure No. 4.</b> For water supply permission please refer <b>Annexure No. 3.</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 being used for port operations and distributed to nearby villagers. 

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
		
(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 the inter-tidal area should be provided to this Ministry within 3 months from the date of receipt of the letter."	<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.
(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.	<b>Being Complied</b> 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.

	Dighi Port Limited	From: October 2022 To : March 2023
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S. No.	Conditions	Compliance Status
		 



	Dighi Port Limited	From: October 2022 To : March 2023
Status of Conditions Stipulated in Environmental and CRZ Clearance File no: 10-8/2005-IA-III dated: 30/09/2005		

Half yearly Compliance report on conditions stipulated in Environmental & CRZ Clearance		
S. No.	Conditions	Compliance Status
		 
(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	<b>Complied</b> Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. were made for the workers during construction phase.

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
	pollution of water and the surroundings.	
(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 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><b>Being Complied</b></p> <p>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. Installation and commissioning of 15 KLD Sewage Treatment Plant is in progress.</p> <p>All the solid waste generated is being properly collected, source segregation of all types of Solid Waste is practised and 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,GoI recognized laboratory. Summary of the monitoring report for the period Oct'22-Mar'23 is attached as <b>Annexure 5.</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,GoI 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 for Dighi Southside has been granted by MPCB vide - Format1.0/CAC/UAN No.0000110738/CR/2303000156 Dated 26.12.2022.</p> <p>Consent to Operate for Dighi North side has</p>

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		<p>been granted by Maharashtra Pollution Control Board vide Format1.0/CAC/UAN No.0000110738/CR/2303000156 Dated 02.03.2023.</p> <p>Consent To Establish for for storage and distribution of non-Classified liquid Cargo of 20000 KL Capacity has been granted by Maharashtra Pollution Control Board vide Format1.0/CAC/UAN No.0000149239/CE/2212001895 Dated 26.12.2022.</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,GoI recognized laboratory. Summary of the monitoring report for the period October 22 to March 23 is attached as <b>Annexure 5</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	<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</p>

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<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>
	environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.	sediment, Ground Water and drinking water, DG Stack emission is being monitored on regular basis through NABL accredited and MoEF&CC,GoI recognized laboratory. Summary of the monitoring report for the period Oct'22-Mar'23 is attached as <b>Annexure 5.</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 beings 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 Sate 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	<b>Complied</b>

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<b>Status of Conditions Stipulated in Environmental and CRZ Clearance</b> <b>File no: 10-8/2005-IA-III dated: 30/09/2005</b>		

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<b>S. No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
	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.	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). 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 6</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	<b>Complied</b>

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	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.envfornic.in">http://www.envfornic.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.	
(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>

**Enclosures:**

	<b>Dighi Port Limited</b>	<b>From: October 2022 To : March 2023</b>
<b>Status of Conditions Stipulated in Environmental and CRZ Clearance File no: 10-8/2005-IA-III dated: 30/09/2005</b>		

<b>Annexure Number</b>	<b>Details of Annexure</b>
Annexure 1:	Details of activities CSR activities conducted by Adani Foundation and Dighi Port Limited
Annexure 2	Details of firefighting infrastructure provided at Dighi Port
Annexure 3:	NOC obtained from Central Groundwater Authority (CGWA) for withdrawal of Groundwater.
Annexure 4:	Electricity supply permission received from Maharashtra State Electricity Distribution Co. Ltd.
Annexure 5:	Summary of Environment Monitoring during Compliance Period
Annexure 6:	Intimation to MoEF&CC,Gol regarding acquisition of Dighi Port by APSEZ

## **Brief Note on Dighi Port**

Environment Clearance (EC) for development of Dighi Port project was granted to M/s. Dighi Port Limited (DPL) by Ministry of Environment, Forest & Climate change (MoEF) vide their letter dated 30<sup>th</sup> September 2005 (F. No. 10-8/2005-IA-III).

Subsequently corrigendum was issued vide a MoEF letter dated 26.12.2005, permission for Handling of LPG Cargo was given by MoEF vide its letter dated 25.06.2012 and corrigendum regarding berth length was issued vide letter dated 27.01.2022.

As per the EC and CRZ clearance the development in Phase-1 involved construction of 4 new multi-purpose berths and strengthening upgrading of the existing one berth all the berths will be of 325 X 35 meters.

Previous developer has developed 2 berths on the north side (Agardanda) and 1 berth on south side (Dighi) also the strengthening work on the existing berth is completed. In addition, previous developer had carried out reclamation, dredging and development of various back-up infrastructure as per the approvals obtained.

Being an organization committed for protection and improvement of environment, DPL, under its new management, will comply with all the necessary environment approvals/ permits/ (as applicable) from the concerned authorities, comply with them and also abide MoEF&CC's directions and guidelines issued from time to time.

DPL under its new management is hereby submitting the compliance report for the period October 2022 to March 2023.



**ANNEXURE No. 1**  
**Details of CSR activities**



Distribution of Bio-Mass chullah





**Distribution of plants to farmers for Orchard development**





Educational development activities at various schools





Awareness on community health development





**Vermicompost and orchard development for sustainable livelihood.**





**Mushroom cultivation development program for sustainable livelihood**





**Mushroom cultivation development program for sustainable livelihood**





Sports competition for school children





**Support to Divyang villager by providing tricycle**





Health checkup camp for villagers





Community health development initiatives





**Capacity Building and Training program for Self Help Groups**





**Drawing Competition on National Safety Week conducted for School children from Dighi.**  
**Awareness among school children on fire safety.**  
**Winners of Drawing competition were felicitated and made aware about port operation and safety**



## ‘अदानी फाउंडेशन’मार्फत राजपुरी येथे आरोग्य तपासणी शिबिर संपन्न

■ प्रतिनिधी । मुरुड जंजिरा

अदानी फाउंडेशन दिधी अंतर्गत ग्रामपंचायत राजपुरी येथील जिल्हा परिषद मराठी शाळेमध्ये मोफत आरोग्य तपासणी शिबिर नुकतेच घेण्यात आले. या शिबिराला परिसरातील ग्रामस्थांचा उत्तम प्रतिसाद मिळाला.

‘अदानी फाउंडेशन’द्वारे आरोग्याचे विविध उपक्रम नेहमीच राबवले जातात. मकर संक्रांतीचे औचित्य साधत राजपुरीमध्ये मोफत आरोग्य तपासणी शिबिर घेण्यात आले. या शिबिरामध्ये गावातील एकूण २६० नागरिकांची आरोग्य तपासणी व १२४ लोकांची रक्त तपासणी करून आवश्यक तो औषध पुरवठाही मोफत करण्यात आला.

आरोग्याची वेळीच काळजी घेणे खुप

गरजेचे असते त्यामुळे ही आरोग्य तपासणी आणि उपचाराचे शिबिर राबवल्याचे ‘अदानी फाउंडेशन’च्या जयश्री काळे यांच्याकडून सांगण्यात आले. या शिबिराचे उद्घाटन ग्रामपंचायत राजपुरीचे सरपंच हिरकणी निदी यांनी केले. ग्रामपंचायत सदस्य प्रमोद लाडकर, पोलीस फाटील दीनानाथ आंबटकर आदी मान्यवरांनी या शिबिराविषयी समाधान व्यक्त करत भविष्यातही असेच समाजप्रयोगी व ग्रामस्थांना उपयोगी असणारे विविध उपक्रम राबवण्याचा मानस बोलून दाखवला.

या आरोग्य तपासणी शिबिरासाठी

मुंबई येथील डॉ.आर.एन.कुपर दवाखान्यातील कान नाक घसा तज्ञ,



त्वचारोग तज्ञ व महिलारोग तज्ञ, डॉ.आदिति शिंदे, डॉ.प्रतीक्षा बोधले, डॉ.दिशा व लाईफ लाईन पॅथॉलॉजी टीम अलिबाग या तज्ञांनी मोलाची सेवा बजावली.

## अदानी फाउंडेशनच्या वतीने मोफत आरोग्य तपासणी

। आगरदांडा । प्रतिनिधी ।

अदानी फाउंडेशन दिधी पोर्ट लिमिटेडच्या वतीने ग्रामपंचायत आगरदांडा येथे मोफत आरोग्य शिबिराचे आयोजन करण्यात आले होते. या कार्यक्रमास डॉ. आर एन डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली. यावेळी ऋषाली डोंगरीकर, चिराग भिमानी उपस्थित होते. या कार्यक्रमात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ लोकांनी या शिबिराचा लाभ घेतला. नितीन चांदोरकर औषध पुरवठा विभाग यांनी आपले योगदान दिले. कार्यक्रम यशस्वी करण्यासाठी सखी प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी अथक परिश्रम घेतले. कार्यक्रमाचे आभार प्रदर्शन अवबुध पाटील अदानी फाउंडेशन यांनी केले.



■ RINI NO. MAHARAJA/2004/1875 ■ वर्ष १९ ■ अंक १९० ■ पाने ६ ■ मुंबई, गुजरात, दि. २४ नोव्हेंबर २०२२ ■ विमल देव रायणे



शिंदे-फडणवीसांचा ‘प्लेन वी’ तयार ?

## महानगरी टाइम्स

रक्तक्षय निर्मूलन कार्यक्रम अंतर्गत ग्राम पंचायत आगरदांडा येथे पौष्टिक आहार स्पर्धा संपन्न

■ प्रतिनिधी । मुरुड जंजिरा

मुरुड महिले आरोग्य केंद्राच्या वतीने मोठा आहाराला सुरुवात देण्यात आली. यावेळी डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली.

यावेळी ऋषाली डोंगरीकर, चिराग भिमानी उपस्थित होते. या कार्यक्रमात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ लोकांनी या शिबिराचा लाभ घेतला. नितीन चांदोरकर औषध पुरवठा विभाग यांनी आपले योगदान दिले. कार्यक्रम यशस्वी करण्यासाठी सखी प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी अथक परिश्रम घेतले. कार्यक्रमाचे आभार प्रदर्शन अवबुध पाटील अदानी फाउंडेशन यांनी केले.

मुरुड महिले आरोग्य केंद्राच्या वतीने मोठा आहाराला सुरुवात देण्यात आली. यावेळी डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली.

यावेळी ऋषाली डोंगरीकर, चिराग भिमानी उपस्थित होते. या कार्यक्रमात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ लोकांनी या शिबिराचा लाभ घेतला. नितीन चांदोरकर औषध पुरवठा विभाग यांनी आपले योगदान दिले. कार्यक्रम यशस्वी करण्यासाठी सखी प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी अथक परिश्रम घेतले. कार्यक्रमाचे आभार प्रदर्शन अवबुध पाटील अदानी फाउंडेशन यांनी केले.

मुरुड महिले आरोग्य केंद्राच्या वतीने मोठा आहाराला सुरुवात देण्यात आली. यावेळी डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली.

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## लोकमत

### मोफत आरोग्य तपासणी



आगरदांडा : अदानी फाउंडेशन दिधी पोर्ट लिमिटेडच्या वतीने ग्रामपंचायत आगरदांडा येथे मोफत आरोग्य शिबिराचे आयोजन करण्यात आले होते. या कार्यक्रमात प्रामुख्याने मुंबई येथील डॉ. आर. एन. कुपर रुग्णालयातील तज्ज्ञ डॉ. दया तुपे (शल्य चिकित्सक), डॉ. अन्नू रवींद्र (त्वचा रोगतज्ज्ञ) डॉ. प्रगती नायर (शल्यचिकित्सक), डॉ. अक्षय जेगरकल (कान, नाक, घसा तज्ज्ञ) यांच्याकडून तपासणी करण्यात आली. उद्घाटनावेळी ग्रामपंचायत आगरदांडाच्या सरपंच ऋषाली डोंगरीकर, सदस्य, समाज अध्यक्ष, दिधी पोर्ट लिमिटेडच्या वतीने चिराग भिमानी उपस्थित होते. अदानी फाउंडेशनच्या वरिष्ठ प्रकल्प अधिकारी जयश्री काळे यांनी प्रास्ताविकातून आरोग्य शिबिराचे प्रयोजन स्पष्ट केले. शिबिरात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ जणांनी या शिबिराचा लाभ घेतला.

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## आगरदांडा येथे आरोग्य तपासणी

मुरुड, ता. १९ (वातमीदार)

: आगरदांडा ग्रामपंचायतीमधील ग्रामस्थांचे अदानी फाउंडेशन दिधी पोर्ट लिमिटेडतर्फे मोफत आरोग्य शिबिर घेण्यात आले. या शिबिरात मुंबई येथील डॉ. आर. एन. कुपर, शल्य चिकित्सक डॉ. दया तुपे, डॉ. प्रगती नायर, त्वचारोग तज्ज्ञ डॉ. अन्नू रवींद्र, ईएनटी तज्ज्ञ डॉ. अक्षय जेगरकल या डॉक्टरांनी ७९ रुग्णांची तपासणी केली. या वेळी आगरदांडा सरपंच ऋषाली डोंगरीकर, ग्रामपंचायत सदस्य, चिराग भिमानी, मुख्य अभियांत्रिकी विभागाचे प्रमुख, वरिष्ठ प्रकल्प अधिकारी जयश्री काळे उपस्थित होते. या शिबिरात डॉ. दया तुपे यांनी आरोग्यविषयक मार्गदर्शन केले. कार्यक्रमात अंगणवाडीसेविका, नितीन चांदोरकर, प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी परिश्रम घेतले.

## नवराष्ट्र

### आगरदांडा येथे पौष्टिक आहार स्पर्धा

अदानी फाउंडेशनचा अभिनव उपक्रम



मुरुड जंजिरा, (वा.) सुदूर महिले आरोग्य केंद्राच्या वतीने मोठा आहाराला सुरुवात देण्यात आली. यावेळी डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली. यावेळी ऋषाली डोंगरीकर, चिराग भिमानी उपस्थित होते. या कार्यक्रमात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ लोकांनी या शिबिराचा लाभ घेतला. नितीन चांदोरकर औषध पुरवठा विभाग यांनी आपले योगदान दिले. कार्यक्रम यशस्वी करण्यासाठी सखी प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी अथक परिश्रम घेतले. कार्यक्रमाचे आभार प्रदर्शन अवबुध पाटील अदानी फाउंडेशन यांनी केले.

### उपस्थित मान्यवरांकडून स्पर्धेतील विजेत्यांचा गौरव

मुरुड जंजिरा, (वा.) सुदूर महिले आरोग्य केंद्राच्या वतीने मोठा आहाराला सुरुवात देण्यात आली. यावेळी डॉ. अनु रविंद्र, डॉ. प्रगती नायर, डॉ. अक्षय जेगरकल या डॉक्टरांकडून सेवा प्रदान करण्यात आली. यावेळी ऋषाली डोंगरीकर, चिराग भिमानी उपस्थित होते. या कार्यक्रमात अंगणवाडी सेविका, ग्रामस्थ मंडळी यांनी सहकार्य केले. एकूण ७९ लोकांनी या शिबिराचा लाभ घेतला. नितीन चांदोरकर औषध पुरवठा विभाग यांनी आपले योगदान दिले. कार्यक्रम यशस्वी करण्यासाठी सखी प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी अथक परिश्रम घेतले. कार्यक्रमाचे आभार प्रदर्शन अवबुध पाटील अदानी फाउंडेशन यांनी केले.

एबीएनएल येत आहे. जयश्री काळे यांनी कार्यक्रमाच्या प्रवर्तकातून अभिप्रेत पाटील यांनी महिला हिंसेवलेखीन वाद अणुलेखा विषयक पौष्टिक आहार या प्रसंगा केली. शिबिरी आहार हा आपल्या घराण्याचे महत्त्व पटवून दिले. अलख शिंदे यांनी अदानी फाउंडेशन अंतर्गत अंगणवाडी सेविका यांच्याकडून यशस्वीपणे घेतले. यावेळी आरोग्य तपासणी शिबिरात डॉ. दया तुपे यांनी आरोग्यविषयक मार्गदर्शन केले. कार्यक्रमात अंगणवाडीसेविका, नितीन चांदोरकर, प्राजक्ता आडूळकर, सखी अर्चना कासार यांनी परिश्रम घेतले.

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## आगरदांडा येथे पौष्टिक आहार स्पर्धा संपन्न

दै.वाढळवारा

मुरुड जंजिरा, २३ नोव्हें. (सुधीर नाझरे): सुदुढ महिला आनंदी कुटुंबाचा सर्वात मोठा आधारस्तंभ असतो. दैनंदिन जीवनात अनेक गोष्टींमुळे किंवा धावपळीचे युगात आपण आपल्या आरोग्याकडे दुर्लक्ष करतो. कुटुंबियांच्या सुखाची जबाबदारी सर्वस्वी घरच्या लक्ष्मीची असते. महिलांचे आरोग्य सदुद्द रहावे व त्यांना आरोग्यविषयक पौष्टिक पदार्थ खाण्याची माहिती व्हावी यासाठी अदानी फाऊंडेशनकडून अभिनव उपक्रम राबवण्यात आला आहे.

कार्यक्रमाला प्रामुख्याने आगरदांडा ग्रामपंचायत

सरपंच ऋषाली डोंगरीकर, रायगड जिल्हा परिषद मराठी शाळा आगरदांडा मुख्याध्यापक अलका शिंदे, अदानी फाऊंडेशन वरिष्ठ प्रकल्प अधिकारी जयश्री काळे तसेच महिलावर्ग उपस्थित होत्या. या पौष्टिक आहार स्पर्धेमध्ये महिलांनी चढाओढीने भाग घेतला. प्रथम क्रमांकाच्या मानकरी रिमा राजेश डोंगरीकर व उज्वला भाटकर, द्वितीय क्रमांक मानकरी अर्पिता चिंधारकर, दीपा प्रविण खोत, तृतीय क्रमांकाच्या मानकरी रूपाली चिंधारकर आणि वैष्णवी विलास चिंधारकर ठरल्या. सर्व विजेत्या स्पर्धकास उपस्थित मान्यवरांकडून बक्षीस देऊन गौरविण्यात आले.

## पुण्य नगरी

### आगरदांडा येथील पौष्टिक आहार स्पर्धेला उत्स्फूर्त प्रतिसाद

। मुरुड : सुदुढ महिला आनंदी कुटुंबाचा सर्वात मोठा आधारस्तंभ असतो. दैनंदिन जीवनात अनेक गोष्टींमुळे किंवा धावपळीचे युगात आपण आपल्या आरोग्याकडे दुर्लक्ष करतो. कुटुंबियांच्या सुखाची जबाबदारी सर्वस्वी घरच्या लक्ष्मीची असते. महिलांचे आरोग्य सदुद्द रहावे व त्यांना आरोग्यविषयक पौष्टिक पदार्थ खाण्याची माहिती पडावे, यासाठी अदानी फाऊंडेशनने पौष्टिक आहार स्पर्धेचे आयोजन केले होते. त्यात येथील महिलांनी उत्स्फूर्त प्रतिसाद दिला.

कार्यक्रमाला प्रामुख्याने आगरदांडा ग्रामपंचायत सरपंच ऋषाली डोंगरीकर, रायगड जिल्हा परिषद मराठी शाळा आगरदांडा मुख्याध्यापक अलका शिंदे, अदानी फाऊंडेशन वरिष्ठ



प्रकल्प अधिकारी जयश्री काळे तसेच महिलावर्ग उपस्थित होत्या. या पौष्टिक आहार स्पर्धेमध्ये महिलांनी चढाओढीने भाग घेतला. प्रथम क्रमांकाच्या मानकरी रिमा राजेश डोंगरीकर व उज्वला भाटकर, द्वितीय क्रमांक मानकरी अर्पिता चिंधारकर, दीपा प्रविण खोत, तृतीय क्रमांकाच्या मानकरी रूपाली चिंधारकर आणि वैष्णवी विलास चिंधारकर ठरल्या. सर्व विजेत्या स्पर्धकास उपस्थित मान्यवरांकडून बक्षीस देऊन गौरविण्यात आले.

प्रथम क्रमांकाच्या मानकरी रिमा राजेश डोंगरीकर व उज्वला भाटकर, द्वितीय क्रमांक मानकरी अर्पिता चिंधारकर, दीपा प्रविण खोत, तृतीय क्रमांकाच्या मानकरी रूपाली चिंधारकर आणि वैष्णवी विलास चिंधारकर ठरल्या. सर्व विजेत्या स्पर्धकास उपस्थित मान्यवरांकडून बक्षीस देऊन गौरविण्यात आले.

स्पर्धेतील विजेते प्रथम क्रमांक : रिमा राजेश डोंगरीकर व उज्वला भाटकर  
द्वितीय क्रमांक : अर्पिता चिंधारकर, दीपा प्रविण खोत  
तृतीय क्रमांक : रूपाली चिंधारकर आणि वैष्णवी विलास चिंधारकर

यातणे असे लक्षात दिसून येतात. दर ६ महिन्यांत हिमोक्थोमीन तपासणी करून घेणे आवश्यक असल्याचे मत जयश्री काळे यांनी या वेळी मांडले. या पौष्टिक आहार स्पर्धेमध्ये महिलांनी चढाओढीने भाग घेतला. या स्पर्धेत प्रथम, द्वितीय व तृतीय क्रमांका पटकराच्या स्पर्धकांना उपस्थित मान्यवरांच्या हस्ते बक्षीस देऊन त्यांचा गौरव करण्यात आला.

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## सागर

### कुडगाव येथे वाचन कोपरा तसेच बाला पेंटिंगचे उद्घाटन अदानी फाऊंडेशनच्यावतीने स्तुत्य उपक्रम

बोलींचतन (अंधपारटोस) :- औद्योगिक विकाससाठी चालना मिळावी म्हणून अदानी फाऊंडेशन दिधी पॅट लिमिटेडच्यावतीने वाचन कोपरा, बाला, किटी आणि इतर ३ विविध प्रकारचे पुस्तके देण्यात आली. शुभ उद्घाटन वरिष्ठ विद्यार्थ्यांचे शिक्षणाची आवड वाढावी तसेच शिक्षकांना सुद्धा शैक्षणिकीच्या वातावरणात शिबंद देणे अपेक्षित आहे. तसेच अदानी फाऊंडेशनच्या वतीने शाळेतील एक वर्ग सोती शैक्षणिक विकाससाठी चालना मिळावी यासाठी रंगवलीच्या माध्यमातून वैयक्तिक, मूल्य, मूल्यमापन, कल, चित्र, पोथी, ओळख अशी विविध प्रकारची उपक्रमे राबविले जात आहेत.



अदानी फाऊंडेशन ने सोतीओ पेंटिंग गेट, किटल सोलोजर किटी अक्का दिक पाथेकर, हेड कॅपिन पटेल, वरिष्ठ प्रकल्प कुडगाव ग्रामपंचायत सदस्य अशिका जयशी काळे अदानी

विहारा परिषद मराठी शाळा कुडगाव मुख्याध्यापक मार्कंड, शिक्षक व्द आणि शाळा व्यवस्थापन समिती सदस्य आणि बचत गटाच्या सहिदा, सेलकरी बांधव उपस्थित होते. श्री ओ ओ अदानी फाऊंडेशनचे वरिष्ठ विद्यार्थी गोडा यांनी आगरदांडा ग्रामपंचायत शैक्षणिक विकाससाठी चालना मिळावी, तसेच विद्यार्थ्यांना अभ्यासात गोडी निर्माण व्हावी म्हणून अदानी फाऊंडेशन वाचन कोपरा तसेच एक वर्गवारी रंगवलीच्या माध्यमातून शिक्षणाची विगडीत असे बळीस देण्यात आले आहे. ह्याचा निमित्तपणे विद्यार्थ्यांना लागू होत.

कविबंद आहोत. शिक्षकांनी आदानी फाऊंडेशनचे मर्यादा आभार मानले. मुख्याध्यापक कुडगाव मार्कंड यांनी आपल्या मर्यादातून अदानी फाऊंडेशन हे शाळा आणि ग्रामपंचायत यांच्या मधील एक दृढा त्वाव करत आहे. आगरी अदानी फाऊंडेशनचे मर्यादा आभार मानले. मुख्याध्यापक कुडगाव मार्कंड यांनी आपल्या मर्यादातून अदानी फाऊंडेशन हे शाळा आणि ग्रामपंचायत यांच्या मधील एक दृढा त्वाव करत आहे. आगरी अदानी फाऊंडेशनचे मर्यादा आभार मानले. मुख्याध्यापक कुडगाव मार्कंड यांनी आपल्या मर्यादातून अदानी फाऊंडेशन हे शाळा आणि ग्रामपंचायत यांच्या मधील एक दृढा त्वाव करत आहे.

## पुण्य नगरी

### दिधीमध्ये वाचन कोपरा कक्षाचे उद्घाटन

। मुरुड : दिधी येथील डॉ. बाबासाहेब आंबेडकर विद्यालयाला देण्यात आलेल्या तीन पुस्तकांची कपाटे, गोष्टीची पुस्तके व इतर पुस्तकांचे हस्तांतरण फीत कापून करण्यात आले.

कार्यक्रमाचे प्रास्ताविक वर्षा भट यांनी केले. अदानी फाऊंडेशन दिधी पोर्टकडून शाळांना वाचनालय उपलब्ध करून देण्यात आले आहे. सोबतच पुस्तक ठेवायला कपाट सुद्धा देण्यात आले आहे.

तसेच पुस्तक प्रदर्शनही भरवण्यात आले आहे. मुख्याध्यापक सचिन मापुस्कर यांनी शाळा कायम विना अनुदानित इंग्रजी शाळा असल्याने येणारे अडचणी फाऊंडेशनकडे मांडल्या. काळे मॅडम यांनी विद्यार्थ्यांना मार्गदर्शन करताना भविष्यातील संघी उपलब्ध करायच्या असतील तर शिक्षणाचे महत्त्व खूप मोठे आहे. वाचनाची व अभ्यासाची आवड वाढावी यासाठी फाऊंडेशन

नेहमी कार्यतत्पर असेल असे मत मांडले. शिका संघटित व्हा आणि संघर्ष करा या बाबासाहेबांच्या घोषवाक्याचे पूर्णपणे पालन करा, असे सांगण्यात आले. चंद्रकांत तलवातकर यांनी फाऊंडेशनचे आभार मानले आणि विद्यार्थ्यांना अभ्यासात गोडी निर्माण व्हावी आणि शिक्षणाप्रती जागृती निर्माण करण्यासाठी प्रयत्नशील आहेत म्हणून आभार व्यक्त केले.



### दिधी येथे वाचन कोपरा कक्षाचे उद्घाटन



बोलींचतन : डॉ.बाबासाहेब आंबेडकर विद्यालय आणि ज्यु कॉलेज दिधी येथे अदानी फाऊंडेशन यांच्या माध्यमातून देण्यात आलेल्या तीन पुस्तकांची कपाटे, गोष्टीची पुस्तके व इतर पुस्तकांचे हस्तांतरण फीत कापून करण्यात आले. या कार्यक्रमाला स्संस्थेचे चंद्रकांत तळवटकर, विद्यालयाचे मुख्याध्यापक सचिन मापुस्कर, अदानी फाऊंडेशनच्या वरिष्ठ प्रकल्प अधिकारी जयश्री काळे व अवधूत पाटील व दिधी येथील अदानी फाऊंडेशनच्या सौजन्याने सुरू असलेल्या दवाखान्याचे डॉ.मुकेश श्रीवर्धनकर उपस्थित होते. कार्यक्रमाचे प्रास्ताविक वर्षा भट यांनी केले. प्रमुख पाहुण्यांचे स्वागत पुष्पगुच्छ देवून गौरविण्यात आले. अदानी फाऊंडेशन दिधी पोर्ट लिमिटेडकडून सर्वच शाळांना वाचनालय उपलब्ध करून देण्यात आले आहे. सोबतच पुस्तक ठेवण्यासाठी कपाट सुद्धा देण्यात आले आहे.





Water supply to villages through water tanker on daily basis.

## **ANNEXURE No. 2**

**Details of firefighting infrastructure  
provided at Dighi Port**



# Fire Infrastructure provided at Dighi Port



Water hydrant line with fire tower and hose reel points installed at Jetty area.  
Regular mock drills on fire fighting are being conducted.



# 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

## **ANNEXURE No. 3**

**NOC obtained from Central  
Groundwater Authority (CGWA) for  
withdrawal of Groundwater.**



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.)**

## **ANNEXURE No. 4**

**Electricity supply permission received  
from Maharashtra State Electricity  
Distribution Co. Ltd.**

(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 MSEDCL 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

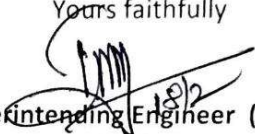
**18) HARMONIES CONTROL:** You should ensure that the total harmonies generated and injected to M.S.E.D.CO.LTD. System by your load should not be more than 3% and the individual harmonic shall not be more than 1%. You will correct any default on your part within 3 months.

**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/-

## **ANNEXURE No. 5**

### **Summary of Environment Monitoring during Compliance Period**



# **"ENVIRONMENTAL MONITORING REPORT"**

## **FOR**

# **DIGHI PORT LTD.**

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

**DIST: RAIGADH, MAHARASTRA**

**OCTOBER-2022 TO MARCH-2023**

**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.



**CONTENTS**

<b>Sr. No.</b>	<b>Title</b>	<b>Page No.</b>
<b>1</b>	<b>AMBIENT AIR QUALITY MONITORING</b>	<b>4</b>
<b>2</b>	<b>SEA WATER &amp; SEDIMENTS MONITORING</b>	<b>11</b>
<b>3</b>	<b>GROUND WATER MONITORING</b>	<b>22</b>
<b>4</b>	<b>DRINKING WATER MONITORING</b>	<b>26</b>
<b>5</b>	<b>NOISE LEVEL MONITORING</b>	<b>39</b>
<b>6</b>	<b>DG SET EMISSION AND NOISE MONITORING</b>	<b>46</b>
<b>7</b>	<b>WEATHER DATA MONITORING</b>	<b>48</b>

## **CHAPTER – 1**

### **AMBIENT AIR QUALITY MONITORING**

**MONITORING PERIOD: OCTOBER-2022 TO MARCH-2023**



**Results of AAQM for Near Main Gate Office Area – South Side [OCTOBER-2022 TO MARCH-2023]**

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	03/10/2022	69.91	33.82	15.14	26.25	0.44	ND*
2	06/10/2022	49.71	26.64	9.34	15.46	0.23	ND*
3	10/10/2022	76.14	37.44	17.54	29.64	0.55	ND*
4	13/10/2022	60.52	30.25	12.75	22.83	0.36	ND*
5	17/10/2022	82.33	44.75	21.95	35.13	0.62	ND*
6	20/10/2022	53.84	29.54	10.22	18.34	0.29	ND*
7	24/10/2022	72.64	36.34	16.44	27.57	0.50	ND*
8	27/10/2022	66.42	32.94	13.66	24.76	0.39	ND*
9	31/10/2022	79.22	38.15	19.86	32.95	0.57	ND*
10	03/11/2022	76.13	39.24	16.94	28.87	0.53	ND*
11	07/11/2022	69.34	35.46	14.76	26.68	0.44	ND*
12	10/11/2022	81.53	41.64	20.12	34.45	0.63	ND*
13	14/11/2022	60.73	31.85	12.54	21.25	0.33	ND*
14	17/11/2022	84.91	46.13	21.32	35.78	0.66	ND*
15	21/11/2022	72.23	37.35	15.82	27.54	0.49	ND*
16	24/11/2022	78.41	40.54	18.65	30.37	0.60	ND*
17	28/11/2022	62.61	34.75	13.44	24.94	0.40	ND*
18	01/12/2022	65.46	33.95	14.14	25.43	0.49	ND*
19	05/12/2022	73.46	35.88	16.98	28.90	0.56	ND*
20	08/12/2022	77.29	37.56	18.93	32.64	0.66	ND*
21	12/12/2022	60.12	31.68	13.65	23.46	0.45	ND*
22	15/12/2022	81.41	43.36	20.02	34.83	0.71	ND*
23	19/12/2022	58.01	29.83	12.01	20.01	0.39	ND*
24	22/12/2022	75.07	36.97	18.18	30.23	0.63	ND*
25	26/12/2022	69.37	34.03	15.51	26.92	0.54	ND*
26	29/12/2022	78.03	39.83	20.44	34.81	0.68	ND*
27	02/01/2023	78.25	38.44	19.72	31.81	0.64	ND*
28	05/01/2023	72.93	34.79	17.26	29.55	0.57	ND*
29	09/01/2023	64.64	32.31	13.96	26.29	0.50	ND*
30	12/01/2023	79.03	41.64	20.63	32.72	0.66	ND*
31	16/01/2023	59.49	28.95	11.53	21.95	0.40	ND*
32	19/01/2023	80.69	44.24	21.88	33.25	0.73	ND*
33	23/01/2023	67.48	33.15	16.80	27.13	0.56	ND*
34	26/01/2023	74.85	37.39	18.80	30.52	0.64	ND*
35	30/01/2023	62.26	29.83	12.44	24.11	0.44	ND*
36	02/02/2023	75.88	36.22	18.86	27.66	0.53	ND*

37	06/02/2023	81.29	41.76	22.21	32.35	0.71	ND*
38	09/02/2023	63.85	34.41	14.24	23.71	0.48	ND*
39	13/02/2023	77.61	39.83	20.59	30.49	0.63	ND*
40	16/02/2023	58.62	30.38	10.85	20.36	0.41	ND*
41	20/02/2023	76.22	38.91	19.36	29.24	0.58	ND*
42	23/02/2023	68.71	35.25	15.73	25.15	0.52	ND*
43	27/02/2023	78.34	40.33	21.42	31.38	0.68	ND*
44	02/03/2023	80.53	41.89	21.41	32.92	0.63	ND*
45	06/03/2023	72.88	37.56	18.48	28.11	0.56	ND*
46	09/03/2023	60.32	31.30	10.61	21.40	0.44	ND*
47	13/03/2023	79.77	40.12	20.79	31.12	0.61	ND*
48	16/03/2023	64.75	35.21	14.18	24.74	0.49	ND*
49	20/03/2023	82.48	42.69	22.26	34.89	0.74	ND*
50	23/03/2023	67.14	36.26	15.85	26.87	0.48	ND*
51	27/03/2023	78.60	39.62	19.54	30.63	0.60	ND*
52	30/03/2023	62.85	34.75	13.22	23.34	0.46	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 [OCTOBER-2022 TO MARCH-2023]**

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	03/10/2022	58.21	29.16	14.34	22.44	0.34	ND*
2	06/10/2022	47.41	23.33	8.13	14.26	0.13	ND*
3	10/10/2022	64.61	32.54	16.76	24.84	0.41	ND*
4	13/10/2022	51.81	25.74	10.55	19.65	0.25	ND*
5	17/10/2022	73.12	35.95	20.25	30.35	0.55	ND*
6	20/10/2022	48.33	24.25	9.93	17.13	0.23	ND*
7	24/10/2022	59.53	31.45	15.84	23.95	0.39	ND*
8	27/10/2022	53.71	28.66	11.42	20.56	0.32	ND*
9	31/10/2022	65.92	33.83	18.65	25.76	0.46	ND*
10	03/11/2022	62.31	34.45	14.25	23.15	0.44	ND*
11	07/11/2022	56.11	30.24	12.43	20.35	0.36	ND*
12	10/11/2022	69.71	37.83	16.62	26.53	0.49	ND*
13	14/11/2022	51.53	27.66	10.85	17.74	0.26	ND*
14	17/11/2022	76.24	38.33	18.13	29.97	0.58	ND*
15	21/11/2022	61.92	32.16	13.33	22.27	0.39	ND*
16	24/11/2022	66.82	35.95	15.54	24.45	0.44	ND*
17	28/11/2022	54.42	29.54	11.76	19.65	0.31	ND*
18	01/12/2022	47.05	24.70	10.46	17.93	0.30	ND*
19	05/12/2022	59.53	31.66	14.27	22.82	0.47	ND*
20	08/12/2022	68.04	34.16	16.66	24.13	0.50	ND*
21	12/12/2022	51.96	26.95	11.54	18.88	0.37	ND*
22	15/12/2022	72.67	36.33	18.10	29.60	0.64	ND*
23	19/12/2022	58.08	29.08	13.61	21.40	0.44	ND*
24	22/12/2022	62.48	32.08	15.83	23.66	0.49	ND*
25	26/12/2022	52.91	27.66	12.06	19.18	0.39	ND*
26	29/12/2022	66.19	35.41	17.20	25.18	0.53	ND*
27	02/01/2023	71.95	34.58	19.01	30.20	0.62	ND*
28	05/01/2023	60.75	29.87	16.00	24.74	0.49	ND*
29	09/01/2023	52.39	25.12	12.52	17.95	0.36	ND*
30	12/01/2023	67.68	33.24	18.43	28.45	0.55	ND*
31	16/01/2023	49.49	23.50	11.22	16.34	0.27	ND*
32	19/01/2023	63.11	31.24	16.17	25.19	0.50	ND*
33	23/01/2023	57.99	28.45	14.09	22.47	0.42	ND*
34	26/01/2023	64.55	32.54	17.48	26.97	0.52	ND*
35	30/01/2023	53.34	26.29	13.36	20.21	0.38	ND*
36	02/02/2023	61.32	30.16	14.32	25.45	0.48	ND*

37	06/02/2023	70.51	34.16	19.74	30.32	0.58	ND*
38	09/02/2023	48.18	25.16	8.57	18.33	0.33	ND*
39	13/02/2023	73.62	35.37	17.39	31.68	0.63	ND*
40	16/02/2023	56.76	29.12	15.95	23.81	0.46	ND*
41	20/02/2023	65.15	32.54	13.49	26.45	0.49	ND*
42	23/02/2023	50.36	28.54	12.15	21.24	0.40	ND*
43	27/02/2023	68.68	33.37	18.16	28.78	0.54	ND*
44	02/03/2023	69.81	34.33	17.12	26.32	0.55	ND*
45	06/03/2023	57.36	31.41	15.16	24.81	0.49	ND*
46	09/03/2023	50.66	28.74	10.94	18.43	0.36	ND*
47	13/03/2023	76.26	36.49	21.92	32.87	0.60	ND*
48	16/03/2023	47.44	26.33	9.45	17.69	0.30	ND*
49	20/03/2023	67.40	33.78	16.83	25.53	0.52	ND*
50	23/03/2023	52.19	30.16	14.19	22.89	0.48	ND*
51	27/03/2023	72.94	35.16	20.17	29.90	0.57	ND*
52	30/03/2023	51.39	29.74	11.37	20.86	0.41	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 [OCTOBER-2022 TO MARCH-2023]**

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	03/10/2022	63.43	33.34	15.86	24.98	0.39	ND*
2	06/10/2022	52.23	24.16	10.63	16.73	0.25	ND*
3	10/10/2022	73.84	39.76	19.46	31.14	0.46	ND*
4	13/10/2022	59.64	27.54	12.23	21.54	0.29	ND*
5	17/10/2022	83.31	42.22	23.73	37.35	0.50	ND*
6	20/10/2022	54.13	26.95	11.55	17.87	0.27	ND*
7	24/10/2022	66.92	34.84	17.36	26.65	0.41	ND*
8	27/10/2022	62.51	31.46	13.92	22.46	0.34	ND*
9	31/10/2022	77.72	41.64	20.13	33.23	0.48	ND*
10	03/11/2022	70.82	36.92	15.43	26.37	0.46	ND*
11	07/11/2022	64.64	33.75	13.22	22.16	0.37	ND*
12	10/11/2022	76.42	40.14	18.85	33.77	0.52	ND*
13	14/11/2022	55.22	30.54	11.64	18.57	0.33	ND*
14	17/11/2022	79.72	41.35	22.35	37.25	0.55	ND*
15	21/11/2022	66.54	35.84	14.12	25.95	0.44	ND*
16	24/11/2022	72.32	39.63	17.93	30.86	0.50	ND*
17	28/11/2022	57.91	31.46	12.55	21.43	0.34	ND*
18	01/12/2022	55.11	29.45	11.25	20.47	0.40	ND*
19	05/12/2022	67.82	34.42	15.94	25.52	0.52	ND*
20	08/12/2022	72.23	36.84	18.38	32.15	0.56	ND*
21	12/12/2022	62.71	30.62	12.17	21.18	0.42	ND*
22	15/12/2022	75.75	38.13	21.46	36.69	0.61	ND*
23	19/12/2022	51.45	28.25	10.09	17.57	0.37	ND*
24	22/12/2022	69.45	35.38	17.01	29.46	0.52	ND*
25	26/12/2022	63.97	32.63	13.02	24.98	0.48	ND*
26	29/12/2022	74.08	37.05	19.22	33.32	0.58	ND*
27	02/01/2023	75.02	36.13	20.28	34.98	0.60	ND*
28	05/01/2023	65.57	33.92	14.53	26.64	0.49	ND*
29	09/01/2023	61.95	29.16	11.57	22.63	0.44	ND*
30	12/01/2023	74.43	35.34	19.16	31.15	0.54	ND*
31	16/01/2023	50.39	27.54	9.14	18.36	0.38	ND*
32	19/01/2023	76.28	37.51	22.47	35.01	0.63	ND*
33	23/01/2023	64.46	32.00	12.81	25.59	0.47	ND*
34	26/01/2023	70.15	34.29	16.05	30.10	0.52	ND*
35	30/01/2023	56.55	28.12	10.26	19.94	0.41	ND*
36	02/02/2023	66.64	34.88	16.84	28.42	0.50	ND*

37	06/02/2023	75.58	39.68	23.34	36.30	0.55	ND*
38	09/02/2023	60.84	31.37	13.51	23.44	0.41	ND*
39	13/02/2023	70.61	37.72	20.90	32.21	0.62	ND*
40	16/02/2023	55.34	29.29	10.67	20.78	0.36	ND*
41	20/02/2023	68.32	36.71	17.13	29.27	0.53	ND*
42	23/02/2023	63.51	33.34	15.65	26.50	0.46	ND*
43	27/02/2023	73.23	38.68	21.72	33.58	0.58	ND*
44	02/03/2023	75.68	37.51	20.58	35.64	0.63	ND*
45	06/03/2023	64.29	34.84	17.54	29.83	0.52	ND*
46	09/03/2023	52.27	27.29	9.88	20.91	0.31	ND*
47	13/03/2023	73.88	36.59	19.16	33.12	0.60	ND*
48	16/03/2023	59.42	30.50	12.71	24.11	0.44	ND*
49	20/03/2023	77.46	41.51	22.70	37.75	0.66	ND*
50	23/03/2023	62.17	32.71	14.33	27.37	0.49	ND*
51	27/03/2023	69.16	35.46	18.13	30.85	0.56	ND*
52	30/03/2023	53.69	28.50	10.14	22.56	0.37	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: OCTOBER-2022 TO MARCH-2023**

## 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			25/10/2022		08/11/2022		22/12/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.24	8.17	8.13	8.07	8.25	8.2
2	Temperature	°C	29.8	29.6	29.7	29.5	29.6	29.4
3	Total Suspended Solids	mg/L	45	37	42	34	37	31
4	BOD (3 Days @ 27 °C)	mg/L	3.16	1.64	3.6	3.5	4	3.8
5	Dissolved Oxygen	mg/L	6.1	5.95	6.05	5.9	5.9	5.7
6	Salinity	ppt	27.94	28.32	28.2	28.56	28.32	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	3.15	2.95	2.89	2.78	3.56	3.47
9	Nitrite as NO <sub>2</sub>	µmol/L	0.46	0.39	0.31	0.25	0.43	0.36
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.57	2.5	2.74	2.67	1.95	1.82
11	Phosphates as PO <sub>4</sub>	µmol/L	2.24	2.18	1.95	1.83	2.67	2.5
12	Total Nitrogen	µmol/L	6.18	5.84	5.94	5.7	5.9	5.64
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29512	29890	29784	30168	30319	30415
15	COD	mg/L	13.8	10.4	16.2	14.7	21	18
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.75	2.42	2.64	2.4	2.93	2.61
16.2	Phaeophytin	mg/m <sup>3</sup>	1.59	0.9	1.69	0.92	1.4	0.71
16.3	Cell Count	No <sub>2</sub> x 10 <sup>3</sup> /L	254	196	232	208	258	240
16.4	Name of Group Number and name of group species of each group	--	Nitzschia sp. Skeletone ma sp. Coscinodiscus sp. Rhizosolenia sp. Thalassiosira sp.	Peridinium sp. Navicula sp. Pleurosigma sp. Fragillaria sp.	Staurastrum sp. Ulothrix sp. Scenedesmus sp. Nitzschia sp. Coscinodiscus sp.	Navicula sp. Thalassiosira sp. Pleurosigma sp. Synedra sp.	Skeletone ma sp. Ulothrix sp. Leptocylinthrus sp. Coscinodiscus sp. Rhizosolenia sp. Scenedesmus sp.	Cyclotella sp. Nitzschia sp. Synedra sp. Synedra sp. Skeletone ma sp. Fragillaria sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	34		29		33	
17.2	Name of Group Number and name of group species of each	--	Lamellibranches Gastropods Copepods		Copepods Gastropods Foraminiferans		Copepods Polychaetes Gastropods	

	group		Fish larvae		Polychaetes			
17.3	Total Biomass	mL/ 100 m <sup>3</sup>	3.25		2.70		3.15	
18	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/mL	3.6 x 10 <sup>4</sup>	2.3 x 10 <sup>5</sup>	3.1 x 10 <sup>4</sup>	2.3 x 10 <sup>5</sup>	2.8 x 10 <sup>4</sup>	1.6 x 10 <sup>5</sup>
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	6.8 x 10 <sup>2</sup>	9.2 x 10 <sup>2</sup>	5.6 x 10 <sup>2</sup>	8.5 x 10 <sup>2</sup>	4.3 x 10 <sup>2</sup>	7.1 x 10 <sup>2</sup>
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			23/01/2023		20/02/2023		27/03/2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.15	8.09	8.21	8.15	8.31	8.27
2	Temperature	°C	29.5	29.4	29.9	29.7	30.2	30
3	Total Suspended Solids	mg/L	43	35	58	49	47	38
4	BOD (3 Days @ 27 °C)	mg/L	3.6	3.1	2.96	2.74	3.46	3.07
5	Dissolved Oxygen	mg/L	5.85	5.8	5.8	5.7	6	5.95
6	Salinity	ppt	28.4	28.79	28.14	28.68	28.96	29.34
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	3.74	3.61	4.07	3.92	3.82	3.69
9	Nitrite as NO <sub>2</sub>	µmol/L	0.56	0.42	0.63	0.57	0.53	0.42
10	Ammonical Nitrogen as NH <sub>3</sub>	µmol/L	2.09	1.93	2.39	2.21	2.49	2.35
11	Phosphates as PO <sub>4</sub>	µmol/L	2.47	2.3	2.61	2.39	2.37	2.28
12	Total Nitrogen	µmol/L	6.86	6.14	7.35	6.94	7.14	6.93
13	Petroleum Hydrocarbon	µg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29968	30149	29314	30218	30492	30904
15	COD	mg/L	17	12	14.8	11.2	13.4	11
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	3.31	2.91	3.09	2.85	2.8	2.56
16.2	Phaeophytin	mg/m <sup>3</sup>	0.37	0.6	1.11	0.47	1.33	0.76
16.3	Cell Count	No <sub>x</sub> × 10 <sup>3</sup> /L	342	305	289	278	278	269
16.4	Name of Group Number and name of group species of each group	--	Skeletonema sp. Ulothrix sp. Leptocylindrus sp. Coscinodiscus sp. Rhizosolenia sp.	Cyclotella sp. Pleurosigma sp. Fragillaria sp. Navicula sp.	Rhizosolenia sp. Skeletonema sp. Ulothrix sp. Coscinodiscus sp. Guinardia sp. Thalassiosira sp.	Navicula sp. Synedra sp. Gyrodinium sp. Leptocylindrus sp. Skeletonema sp.	Rhizosolenia sp. Ulothrix sp. Melosira sp. Guinardia sp. Skeletonema sp.	Nitzschia sp. Synedra sp. Leptocylindrus sp. Pleurosigma sp. Navicula sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	24		35		31	
17.2	Name of Group Number and name of group species of each group	--	Copepods Polychaetes Gastropods		Polychaetes Foraminiferans Lamellibranches Copepods		Copepods Polychaetes Foraminiferans Amphipods	

17.3	Total Biomass	mL/ 100 m <sup>3</sup>	2.10	3.40	2.90			
18	<b>Microbiological Parameters</b>							
18.1	Total Bacterial Count	CFU/mL	$3.1 \times 10^4$	$1.9 \times 10^5$	$3.4 \times 10^4$	$2.1 \times 10^5$	$2.4 \times 10^5$	$2.1 \times 10^5$
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	$3.8 \times 10^2$	$8.9 \times 10^2$	$5.6 \times 10^2$	$7.5 \times 10^2$	$6.9 \times 10^2$	$8.1 \times 10^2$
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			25/10/2022		08/11/2022		22/12/2022	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.2	8.15	8.17	8.15	8.29	8.23
2	Temperature	°C	29.7	29.6	29.8	29.7	29.7	29.6
3	Total Suspended Solids	mg/L	48	39	41	36	45	34
4	BOD (3 Days @ 27 °C)	mg/L	3.4	1.82	3.7	3.5	4.51	3.6
5	Dissolved Oxygen	mg/L	6.2	6.1	6.15	5.9	5.95	5.75
6	Salinity	ppt	27.96	28.57	28.14	28.43	28.39	28.82
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	3.07	2.95	2.91	2.73	3.84	3.73
9	Nitrite as NO <sub>2</sub>	μmol/L	0.32	0.27	0.35	0.27	0.37	0.31
10	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	2.47	2.31	2.61	2.53	2.16	2.08
11	Phosphates as PO <sub>4</sub>	μmol/L	2.18	2.09	1.9	1.81	2.25	2.14
12	Total Nitrogen	μmol/L	5.86	5.53	5.87	5.53	6.45	7.95
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29507	30119	29706	29934	30298	30401
15	COD	mg/L	12.4	10.92	14.2	13	19	17
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.45	2.32	2.61	2.56	2.8	2.67
16.2	Phaeophytin	mg/m <sup>3</sup>	0.95	1.17	0.78	0.93	0.69	0.73
16.3	Cell Count	No.x 10 <sup>3</sup> /L	240	228	249	234	253	229
16.4	Name of Group Number and name of group species of each group	--	Thallasiosira sp. Coscinodiscus sp. Skeletone ma sp. Guinardia sp. Thalassionema sp.	Nitzschia sp. Navicula sp. Fragillaria sp. Coscinodiscus sp. Cymbella sp.	Ankistrodesmus sp. Ulothrix sp. Scenedesmus sp. Rhizosolenia sp. Triceratium sp. Thalassionema sp.	Navicula sp. Nitzschia sp. Pleurosigma sp. Synedra sp. Skeletone ma sp.	Coscinodiscus sp. Scenedesmus sp. Rhizosolenia sp. Triceratium sp. Nitzschia sp. Ulothrix sp.	Navicula sp. Synedra sp. Rhizosolenia sp. Fragillaria sp. Skeletone ma sp. Pleurosigma sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	31		29		30	
17.2	Name of Group Number and name of	--	Bivalves Copepods		Copepods Gastropods		Copepods Mysods	



	group species of each group		Polychaetes Mysids		Foraminiferans Polychaetes		Gastropods Decapods	
17.3	Total Biomass	mL/ 100 m <sup>3</sup>	2.95		2.70		2.60	
18	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/mL	2.6 x 10 <sup>6</sup>	3.4 x 10 <sup>5</sup>	3.1 x 10 <sup>4</sup>	2.3 x 10 <sup>5</sup>	3.4 x 10 <sup>6</sup>	1.8 x 10 <sup>5</sup>
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	7.1 x 10 <sup>2</sup>	5.8 x 10 <sup>2</sup>	5.6 x 10 <sup>2</sup>	8.5 x 10 <sup>2</sup>	7.6 x 10 <sup>2</sup>	5.7 x 10 <sup>2</sup>
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			23/01/2023		20/02/2023		27/03/2023	
			Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.21	8.17	8.26	8.2	8.34	8.27
2	Temperature	°C	29.4	29.2	29.8	29.7	30.3	30.2
3	Total Suspended Solids	mg/L	41	32	56	43	45	37
4	BOD (3 Days @ 27 °C)	mg/L	4.3	3.1	3.2	2.8	3.9	3.2
5	Dissolved Oxygen	mg/L	5.95	5.85	5.9	5.75	5.95	5.85
6	Salinity	ppt	28.16	28.37	27.98	28.34	28.3	29.4
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	3.97	3.89	4.12	4.06	3.9	3.78
9	Nitrite as NO <sub>2</sub>	μmol/L	0.56	0.43	0.58	0.43	0.63	0.52
10	Ammonical Nitrogen as NH <sub>3</sub>	μmol/L	2.61	2.39	2.39	2.21	2.75	2.61
11	Phosphates as PO <sub>4</sub>	μmol/L	2.17	2.06	2.16	2.05	2.39	2.24
12	Total Nitrogen	μmol/L	8.21	7.2	7.35	6.93	7.45	7.13
13	Petroleum Hydrocarbon	μg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
14	Total Dissolved Solids	mg/L	29713	29984	29618	29893	29876	30894
15	COD	mg/L	16	11	11.5	10.2	14.6	12.3
16	<b>Phytoplankton</b>							
16.1	Chlorophyll	mg/m <sup>3</sup>	2.93	2.72	2.86	2.75	2.93	2.69
16.2	Phaeophytin	mg/m <sup>3</sup>	0.26	0.36	0.1	0.6	0.26	0.33
16.3	Cell Count	No.x 10 <sup>3</sup> /L	345	285	274	265	302	285
16.4	Name of Group Number and name of group species of each group	--	Coscinodiscus sp. Skeletone ma sp. Rhizosolenia sp. Triceratium sp. Melosira sp. Ulothrix sp.	Navicula sp. Synedra sp. Cymbella sp. Fragillaria sp. Nitzschia sp.	Coscinodiscus sp. Skeletone ma sp. Rhizosolenia sp. Melosira sp. Scenedesmus sp.	Nitzschia sp. Rhizosolenia sp. Fragillaria sp. Gyrosigma sp. Synedra sp.	Rhizosolenia sp. Melosira sp. Leptocylinthus Triceratium sp. Cymbella sp.	Navicula sp. Synedra sp. Synedra sp. Gyrosigma sp. Skeletone ma sp.
17	<b>Zooplanktons</b>							
17.1	Abundance (Population)	Nox10 <sup>3</sup> /100m <sup>3</sup>	25		33		39	
17.2	Name of Group Number and name of group species of each	--	Copepods Bivalves Gastropods		Copepods Polychaetes Isopods		Copepods Bivalves Polychaetes	

	group		Decapods		Mysids		Foraminiferans	
17.3	Total Biomass	mL/ 100 m <sup>3</sup>	2.45		3.05		3.80	
18	Microbiological Parameters							
18.1	Total Bacterial Count	CFU/mL	3.1 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	1.9 x 10 <sup>5</sup>	2.2 x 10 <sup>5</sup>
18.2	Total Coliform	/mL	Present	Present	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	Present	Present
18.3	E.coli	/mL	Present	Present	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	Present	Present
18.4	Enterococcus species	/mL	8.1 x 10 <sup>2</sup>	6.2 x 10 <sup>2</sup>	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	6.1 x 10 <sup>2</sup>	8.4 x 10 <sup>2</sup>
18.5	Salmonella species	/mL	Present	Present	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	Present	Present
18.6	Shigella species	/mL	Present	Present	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	Present	Present
18.7	Vibrio species	/mL	Present	Present	2.9 x 10 <sup>6</sup>	2.4 x 10 <sup>5</sup>	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			25/10/2022	08/11/2022	22/12/2022	23/01/2023	20/02/2023	27/03/2023
1	Organic Matter	%	1.39	1.21	1.32	1.4	1.37	1.53
2	Phosphorus as P	µg/g	0.37	0.34	0.42	0.38	0.44	0.35
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	%	5.97	6.13	5.86	6.12	5.92	5.74
5.2	Total Chromium as Cr+3	µg/g	61.28	54.65	56.32	43.98	51.37	43.28
5.3	Manganese as Mn	µg/g	742	809	759	814	768	694
5.4	Iron as Fe	%	5.94	6.2	5.82	5.92	6.13	5.27
5.5	Nickel as Ni	µg/g	35.29	27.19	34.92	29.17	35.98	29.16
5.6	Copper as Cu	µg/g	61.37	75.31	69.27	79.85	81.73	71.35
5.7	Zinc as Zn	µg/g	71.93	65.27	87.26	68.12	72.69	84.93
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)	--	Amphipods Polychaetes Crustacean s	Brachyura Polychaetes Crustacean s	Brachyura Polychaetes Gastropods	Crustacean s Polychaetes Gastropods	Crustacean s Polychaetes Gastropods Isopods	Crustacean s Polychaetes Gastropods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	--	--	Nematodes	Foraminifer ans	Foraminifer ans
6.3	Population	no/m <sup>2</sup>	614	468	556	676	585	323

## 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			25/10/2022	08/11/2022	22/12/2022	23/01/2023	20/02/2023	27/03/2023
1	Organic Matter	%	1.58	1.27	1.39	1.18	1.27	1.13
2	Phosphorus as P	µg/g	0.33	0.46	0.37	0.32	0.46	0.38
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	%	6.14	6.03	5.97	6.09	5.72	5.43
5.2	Total Chromium as Cr+3	µg/g	47.68	39.15	43.68	37.18	40.93	33.56
5.3	Manganese as Mn	µg/g	842	709	801	756	801	704
5.4	Iron as Fe	%	6.43	5.98	6.12	5.95	6.02	5.87
5.5	Nickel as Ni	µg/g	35.19	41.75	31.94	27.56	35.61	41.29
5.6	Copper as Cu	µg/g	69.25	73.65	62.98	75.23	60.29	53.76
5.7	Zinc as Zn	µg/g	71.96	62.29	75.64	66.17	79.13	72.18
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)	--	Gastropods Crustacean s Bivalves	Crustacean s Gastropods Polychaetes Bivalves	Polychaetes Gastropods Crustacean s	Polychaetes Gastropods Crustacean s Bivalves	Crustacean s Polychaetes Gastropods	Polychaetes Amphipods Crustacean s Bivalves
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes	--	Foraminifer ans	Nematodes	Foraminifer ans	Nematodes
6.3	Population	no/m <sup>2</sup>	556	409	528	614	673	382

## **CHAPTER – 3**

### **GROUND WATER QUALITY MONITORING**

**MONITORING PERIOD: OCTOBER-2022 TO MARCH-2023**



**Results of Ground Water Quality Monitoring**

<b>SR. NO.</b>	<b>PARAMETERS</b>	<b>UNIT</b>	<b>RESULT</b>			
<b>Sampling Location</b>			<b>Main Borewell-South Side</b>			
<b>Date of sampling</b>			<b>25/10/2022</b>	<b>08/11/2022</b>	<b>22/12/2022</b>	<b>27/03/2023</b>
1	Colour	Hazen	3	3	4	3
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.13	0.15	0.2	0.17
5	pH	--	7.51	7.6	7.62	7.73
6	Total Hardness	mg/L	70	64	70	67
7	Iron	mg/L	<0.05	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	16.99	21	23.9	20.49
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	173	168	184	176
11	Calcium as Ca	mg/L	12.8	14	16	15.2
12	Magnesium as Mg	mg/L	9.12	6.96	7.2	6.96
13	Copper	mg/L	<0.02	<0.02	<0.02	<0.02
14	Manganese as Mn	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
15	Sulphate as SO <sub>4</sub>	mg/L	8.37	7.25	8.18	9.13
16	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	<0.01	<0.01	<0.01	<0.01
17	Mercury as Hg	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0005
18	Cadmium as Cd	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
19	Selenium as Se	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
20	Arsenic as As	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
21	Cyanide as CN	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
22	Lead as Pb	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
23	Zinc as Zn	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
24	Anionic Detergents as MBAS	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
25	Hexavalent Chromium as Cr+6	mg/L	< 0.05	< 0.05	< 0.05	< 0.05

26	Oil & Grease (Mineral Oil)	mg/L	<0.1	<0.1	<0.1	<0.1
27	Alkalinity	mg/L	93	98	87	94
28	Aluminum	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
29	Boron	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
<b>A</b>	<b>Microbiological Parameters</b>					
30	Coliforms	/100 ml	Absent	Absent	Absent	Absent
31	Escherichia coli	/100 ml	Absent	Absent	Absent	Absent
<b>B</b>	<b>Pesticides</b>					
32.1	Alachlor	µg/L	<0.1	<0.1	<0.1	<0.1
32.2	Atrazine	µg/L	<0.1	<0.1	<0.1	<0.1
32.3	Aldrin	µg/L	<0.01	<0.01	<0.01	<0.01
32.4	Dieldrin	µg/L	<0.01	<0.01	<0.01	<0.01
32.5	Alpha HCH	µg/L	<0.001	<0.001	<0.001	<0.001
32.6	Beta HCH	µg/L	<0.01	<0.01	<0.01	<0.01
32.7	Butachlor	µg/L	<0.1	<0.1	<0.1	<0.1
32.8	Chlorpyrifos	µg/L	<0.1	<0.1	<0.1	<0.1
32.9	Delta HCH	µg/L	<0.01	<0.01	<0.01	<0.01
32.10	2,4- D	µg/L	<0.1	<0.1	<0.1	<0.1
32.11	o,p DDT	µg/L	<0.1	<0.1	<0.1	<0.1
32.12	p,p DDT	µg/L	<0.1	<0.1	<0.1	<0.1
32.13	o,p DDE	µg/L	<0.1	<0.1	<0.1	<0.1
32.14	p,p DDE	µg/L	<0.1	<0.1	<0.1	<0.1
32.15	o,p DDD	µg/L	<0.1	<0.1	<0.1	<0.1
32.16	p,p DDD	µg/L	<0.1	<0.1	<0.1	<0.1
32.17	Alpha Endosulfan	µg/L	<0.1	<0.1	<0.1	<0.1
32.18	Beta Endosulfan	µg/L	<0.1	<0.1	<0.1	<0.1
32.19	Endosulfansulphate	µg/L	<0.1	<0.1	<0.1	<0.1
32.20	Ethion	µg/L	<0.1	<0.1	<0.1	<0.1
32.21	Gamma – HCH (Lindane)	µg/L	<0.1	<0.1	<0.1	<0.1

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



## **CHAPTER – 4**

### **DRINKING WATER MONITORING**

**MONITORING PERIOD: OCTOBER-2022 TO MARCH-2023**

**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>25/10/2022</b>	<b>08/11/2022</b>	<b>22/12/2022</b>
1	Colour	Hazen	3	2	1
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.09	0.05	0.03
5	pH	--	7.56	7.37	7.08
6	Total Hardness	mg/L	17	24	28
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	3.99	4.49	4.9
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	59	68	85
11	Calcium as Ca	mg/L	3.2	5.2	6
12	Magnesium as Mg	mg/L	2.16	2.64	3.12
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	2.95	1.83	2.09
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	22	19	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**

<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>23/01/2023</b>	<b>20/02/2023</b>	<b>27/03/2023</b>
1	Colour	Hazen	<1.0	2	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.07	0.08	0.07
5	pH	--	7.25	7.41	7.54
6	Total Hardness	mg/L	29	23	26
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	5.5	3.49	4.99
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	64	57	70
11	Calcium as Ca	mg/L	5.6	5.2	6.8
12	Magnesium as Mg	mg/L	3.6	2.4	2.16
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	1.94	2.61	3.78
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	< 0.0005
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	23	26	24
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>North Side - Office Kitchen Cooler Water</b>		
<b>Date of sampling</b>			<b>25/10/2022</b>	<b>08/11/2022</b>	<b>22/12/2022</b>
1	Colour	Hazen	3	2	1
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.08	0.06	0.03
5	pH	--	7.5	7.41	7.11
6	Total Hardness	mg/L	19	23	30
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	4.5	4	5.1
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	50	61	88
11	Calcium as Ca	mg/L	3.6	5.6	6.4
12	Magnesium as Mg	mg/L	2.4	2.16	3.36
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	2.68	1.93	3.15
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	20	22	16
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			23/01/2023	20/02/2023	27/03/2023
1	Colour	Hazen	<1.0	2	<1.0
2	Odour	--	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.05	0.06	0.07
5	pH	--	7.21	7.39	7.48
6	Total Hardness	mg/L	28	23	25
7	Iron	mg/L	<0.05	<0.05	<0.05
8	Chloride as Cl	mg/L	5.99	3.99	5.49
9	Fluorides as F	mg/L	<0.05	<0.05	<0.05
10	Total Dissolved Solids	mg/L	62	54	72
11	Calcium as Ca	mg/L	5.2	5.6	6
12	Magnesium as Mg	mg/L	3.6	2.16	2.4
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	2.03	2.54	3.91
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	< 0.0005
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	< 0.005
21	Cyanide as CN	mg/L	< 0.0001	< 0.0001	< 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	21	24	23
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: OCTOBER-2022 TO MARCH-2023**

**Results of Day Time Noise level monitoring**

<b>October-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>25/10/2022</b>	<b>25/10/2022</b>	<b>25/10/2022</b>
<b>1</b>	6:00-7:00	60.3	64.5	66.3
<b>2</b>	7:00-8:00	52.1	58.7	56.4
<b>3</b>	8:00-9:00	59.7	57.3	55.2
<b>4</b>	9:00-10:00	61.6	63.1	59.1
<b>5</b>	10:00-11:00	63.9	65.8	66.2
<b>6</b>	11:00-12:00	52.2	55.4	52.5
<b>7</b>	12:00-13:00	60.7	52.6	64.5
<b>8</b>	13:00-14:00	51.6	62.8	59.9
<b>9</b>	14:00-15:00	61.3	53.2	61.6
<b>10</b>	15:00-16:00	54.2	60.6	53.5
<b>11</b>	16:00-17:00	62.4	61.4	64.8
<b>12</b>	17:00-18:00	55.6	56.3	54.2
<b>13</b>	18:00-19:00	52.4	54.7	66.9
<b>14</b>	19:00-20:00	64.8	56.2	60.3
<b>15</b>	20:00-21:00	53.1	64.4	62.5
<b>16</b>	21:00-22:00	59.8	51.3	57.4
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>October-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>25/10/2022 &amp; 26/10/2022</b>	<b>25/10/2022 &amp; 26/10/2022</b>	<b>25/10/2022 &amp; 26/10/2022</b>
<b>1</b>	22:00-23:00	53.9	57.7	52.4
<b>2</b>	23:00-00:00	56.5	59.9	50.6
<b>3</b>	00:00-01:00	60.2	58.6	59.1
<b>4</b>	01:00-02:00	54.4	49.3	60.2
<b>5</b>	02:00-03:00	57.3	55.1	53.8
<b>6</b>	03:00-04:00	52.1	57.6	50.1
<b>7</b>	04:00-05:00	58.9	54.1	56.6
<b>8</b>	05:00-06:00	53.7	61.3	53.5
<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.



**Results of Day Time Noise level monitoring**

<b>November-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>08/11/2022</b>	<b>08/11/2022</b>	<b>08/11/2022</b>
<b>1</b>	6:00-7:00	56.2	62.7	64.9
<b>2</b>	7:00-8:00	54.1	60.4	62.5
<b>3</b>	8:00-9:00	62.3	59.2	52.1
<b>4</b>	9:00-10:00	65.3	57.4	63.4
<b>5</b>	10:00-11:00	60.5	61.6	67.7
<b>6</b>	11:00-12:00	57.6	56.1	56.3
<b>7</b>	12:00-13:00	62.9	59.3	57.7
<b>8</b>	13:00-14:00	58.3	60.6	53.6
<b>9</b>	14:00-15:00	56.4	58.4	68.4
<b>10</b>	15:00-16:00	62.7	55.2	54.1
<b>11</b>	16:00-17:00	66.3	64.3	69.6
<b>12</b>	17:00-18:00	53.4	67.4	62.3
<b>13</b>	18:00-19:00	59.1	61.3	63.1
<b>14</b>	19:00-20:00	63.7	52.1	54.0
<b>15</b>	20:00-21:00	58.4	59.8	61.5
<b>16</b>	21:00-22:00	64.9	54.6	58.7
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>November-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>08/11/2022 &amp; 09/11/2022</b>	<b>08/11/2022 &amp; 09/11/2022</b>	<b>08/11/2022 &amp; 09/11/2022</b>
<b>1</b>	22:00-23:00	55.4	52.9	46.3
<b>2</b>	23:00-00:00	53.2	62.3	54.6
<b>3</b>	00:00-01:00	57.6	53.4	55.7
<b>4</b>	01:00-02:00	51.2	54.7	57.3
<b>5</b>	02:00-03:00	60.3	50.2	59.9
<b>6</b>	03:00-04:00	55.3	53.2	48.5
<b>7</b>	04:00-05:00	54.2	59.6	61.3
<b>8</b>	05:00-06:00	57.1	56.5	58.4
<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>December-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>15/12/2022</b>	<b>15/12/2022</b>	<b>15/12/2022</b>
<b>1</b>	6:00-7:00	60.8	66.4	60.9
<b>2</b>	7:00-8:00	56.6	62.5	66.0
<b>3</b>	8:00-9:00	65.4	55.1	57.2
<b>4</b>	9:00-10:00	69.7	56.3	62.1
<b>5</b>	10:00-11:00	63.2	65.8	64.6
<b>6</b>	11:00-12:00	54.1	60.2	59.8
<b>7</b>	12:00-13:00	60.7	63.9	61.5
<b>8</b>	13:00-14:00	61.2	64.1	55.2
<b>9</b>	14:00-15:00	58.9	56.4	71.3
<b>10</b>	15:00-16:00	66.1	59.9	56.7
<b>11</b>	16:00-17:00	64.2	68.4	66.2
<b>12</b>	17:00-18:00	51.8	70.5	65.6
<b>13</b>	18:00-19:00	62.5	64.2	60.4
<b>14</b>	19:00-20:00	66.7	55.6	57.3
<b>15</b>	20:00-21:00	61.4	63.8	67.2
<b>16</b>	21:00-22:00	67.3	52.1	61.8
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>December-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>15/12/2022 &amp; 16/12/2022</b>	<b>15/12/2022 &amp; 16/12/2022</b>	<b>15/12/2022 &amp; 16/12/2022</b>
<b>1</b>	22:00-23:00	57.4	55.1	50.2
<b>2</b>	23:00-00:00	51.3	59.8	52.1
<b>3</b>	00:00-01:00	60.2	56.7	58.9
<b>4</b>	01:00-02:00	54.8	57.3	60.2
<b>5</b>	02:00-03:00	56.2	52.9	57.4
<b>6</b>	03:00-04:00	58.7	56.1	51.3
<b>7</b>	04:00-05:00	59.3	62.7	63.4
<b>8</b>	05:00-06:00	60.5	58.3	55.2
<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>January-2023</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>19/01/2023</b>	<b>19/01/2023</b>	<b>19/01/2023</b>
<b>1</b>	6:00-7:00	63.9	65.4	58.5
<b>2</b>	7:00-8:00	60.1	66.3	70.4
<b>3</b>	8:00-9:00	69.9	58.7	61.8
<b>4</b>	9:00-10:00	71.5	60.3	65.9
<b>5</b>	10:00-11:00	65.7	62.2	66.5
<b>6</b>	11:00-12:00	58.2	64.9	61.3
<b>7</b>	12:00-13:00	63.7	66.5	68.8
<b>8</b>	13:00-14:00	65.8	69.2	58.1
<b>9</b>	14:00-15:00	61.4	59.5	69.5
<b>10</b>	15:00-16:00	69.5	62.7	59.2
<b>11</b>	16:00-17:00	62.7	70.2	69.3
<b>12</b>	17:00-18:00	55.2	67.7	62.4
<b>13</b>	18:00-19:00	66.3	62.5	63.9
<b>14</b>	19:00-20:00	68.2	59.8	61.1
<b>15</b>	20:00-21:00	59.2	66.2	72.5
<b>16</b>	21:00-22:00	71.4	55.4	66.6
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>January-2023</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>19/01/2023 &amp; 20/01/2023</b>	<b>19/01/2023 &amp; 20/01/2023</b>	<b>19/01/2023 &amp; 20/01/2023</b>
<b>1</b>	22:00-23:00	60.1	58.6	52.2
<b>2</b>	23:00-00:00	54.8	55.2	54.6
<b>3</b>	00:00-01:00	63.6	60.4	62.5
<b>4</b>	01:00-02:00	52.9	54.1	57.3
<b>5</b>	02:00-03:00	59.4	57.7	60.1
<b>6</b>	03:00-04:00	61.5	63.8	53.8
<b>7</b>	04:00-05:00	62.7	59.2	61.9
<b>8</b>	05:00-06:00	57.5	54.6	58.4
<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>February-2023</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>16/02/2023</b>	<b>16/02/2023</b>	<b>16/02/2023</b>
<b>1</b>	6:00-7:00	66.7	62.8	60.2
<b>2</b>	7:00-8:00	62.2	68.2	66.1
<b>3</b>	8:00-9:00	67.1	61.3	64.4
<b>4</b>	9:00-10:00	69.5	56.2	66.5
<b>5</b>	10:00-11:00	68.2	64.1	62.0
<b>6</b>	11:00-12:00	61.3	67.4	68.9
<b>7</b>	12:00-13:00	59.8	62.5	66.5
<b>8</b>	13:00-14:00	69.1	71.4	61.4
<b>9</b>	14:00-15:00	65.0	55.8	66.3
<b>10</b>	15:00-16:00	72.1	66.3	63.5
<b>11</b>	16:00-17:00	66.3	68.4	70.0
<b>12</b>	17:00-18:00	58.7	70.1	59.4
<b>13</b>	18:00-19:00	63.2	65.8	60.5
<b>14</b>	19:00-20:00	71.3	57.4	64.9
<b>15</b>	20:00-21:00	56.0	69.1	69.4
<b>16</b>	21:00-22:00	67.7	59.6	63.5
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>February-2023</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>16/02/2023 &amp; 17/02/2023</b>	<b>16/02/2023 &amp; 17/02/2023</b>	<b>16/02/2023 &amp; 17/02/2023</b>
<b>1</b>	22:00-23:00	58.2	55.4	56.1
<b>2</b>	23:00-00:00	56.1	59.8	58.3
<b>3</b>	00:00-01:00	60.5	57.3	59.5
<b>4</b>	01:00-02:00	55.8	60.2	53.6
<b>5</b>	02:00-03:00	58.4	54.1	56.8
<b>6</b>	03:00-04:00	63.5	60.5	55.2
<b>7</b>	04:00-05:00	65.9	55.4	59.9
<b>8</b>	05:00-06:00	61.6	52.0	62.5
<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.

**Results of Day Time Noise level monitoring**

<b>March-2023</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>27/03/2023</b>	<b>27/03/2023</b>	<b>27/03/2023</b>
<b>1</b>	6:00-7:00	70.5	64.4	62.8
<b>2</b>	7:00-8:00	65.2	70.6	68.3
<b>3</b>	8:00-9:00	64.3	63.8	60.5
<b>4</b>	9:00-10:00	72.4	58.9	63.9
<b>5</b>	10:00-11:00	64.1	62.7	68.1
<b>6</b>	11:00-12:00	59.6	69.9	66.5
<b>7</b>	12:00-13:00	62.6	65.1	68.2
<b>8</b>	13:00-14:00	72.5	68.6	65.3
<b>9</b>	14:00-15:00	62.4	58.3	64.5
<b>10</b>	15:00-16:00	69.6	64.3	59.2
<b>11</b>	16:00-17:00	63.5	66.2	68.4
<b>12</b>	17:00-18:00	61.5	68.5	65.1
<b>13</b>	18:00-19:00	60.6	63.1	64.4
<b>14</b>	19:00-20:00	69.7	61.6	62.5
<b>15</b>	20:00-21:00	59.5	67.5	72.4
<b>16</b>	21:00-22:00	71.4	61.2	66.1
<b>Day Time Limit<sup>#</sup></b>		<b>75 dB(A)Leq</b>		

**Results of Night Time Noise level monitoring**

<b>March-2023</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>27/03/2023 &amp; 28/03/2023</b>	<b>27/03/2023 &amp; 28/03/2023</b>	<b>27/03/2023 &amp; 28/03/2023</b>
<b>1</b>	22:00-23:00	56.1	58.6	57.8
<b>2</b>	23:00-00:00	54.3	62.4	61.3
<b>3</b>	00:00-01:00	58.5	60.3	54.7
<b>4</b>	01:00-02:00	59.1	54.9	56.2
<b>5</b>	02:00-03:00	55.4	57.4	53.2
<b>6</b>	03:00-04:00	60.2	56.2	58.1
<b>7</b>	04:00-05:00	62.3	53.1	61.3
<b>8</b>	05:00-06:00	59.7	54.0	57.4
<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**

### **DG SET EMISSION AND NOISE MONITORING MONITORING PERIOD: OCTOBER-2022 TO MARCH-2023**

**D.G. Stack Emission and Noise Monitoring Results**

SR. NO.	TEST PARAMETER	UNIT	DG Stack (180 KVA)
			24/11/2022
			RESULTS
1	Particulate Matter	mg/Nm <sup>3</sup>	27.6
2	Sulfur Dioxide as SO <sub>2</sub>	ppm	6.9
3	Oxides of Nitrogen as NOX	ppm	24.2
4	<b>Noise Level Monitoring</b>		
4.1	Near DG Set	dB(A)	74.3

Results on 15 % O2 Correction when Oxygen is greater than 15 %



## **CHAPTER – 7**

### **WATHER DATA MONITORING**

**MONITORING PERIOD: OCTOBER-2022 TO NOVEMBER-2022**

Date	Avg wind Speed (m/s)	Temperature (°C)	RH %	Precip. (mm)
01/10/2022	2.68	27.7	84.32	0.00
02/10/2022	2.51	28.0	84.17	0.00
03/10/2022	2.44	27.9	82.95	0.00
04/10/2022	2.95	28.0	83.27	0.00
05/10/2022	2.35	28.3	85.76	0.00
06/10/2022	1.99	27.2	88.40	3.81
07/10/2022	2.07	24.4	93.22	152.91
08/10/2022	2.09	25.5	89.14	44.46
09/10/2022	1.63	27.2	85.16	0.00
10/10/2022	1.59	27.1	87.88	0.00
11/10/2022	1.75	27.1	89.88	0.51
12/10/2022	1.74	26.5	89.43	3.56
13/10/2022	1.69	26.9	87.36	0.00
14/10/2022	1.71	27.7	85.60	2.55
15/10/2022	1.95	28.2	82.20	0.00
16/10/2022	2.02	29.2	76.05	0.00
17/10/2022	1.75	29.0	80.13	0.00
18/10/2022	1.94	27.8	85.36	0.00
19/10/2022	1.88	28.4	83.34	0.00
20/10/2022	2.00	28.7	84.78	0.00
21/10/2022	1.78	28.8	83.68	0.00
22/10/2022	1.80	28.8	82.54	0.00
23/10/2022	2.06	27.9	75.26	0.00
24/10/2022	2.51	26.5	74.44	0.00
25/10/2022	2.25	26.0	78.03	0.00
26/10/2022	2.21	26.9	76.60	0.00
27/10/2022	2.35	27.0	75.86	0.00
28/10/2022	2.28	26.9	72.52	0.00
29/10/2022	2.34	26.7	71.48	0.00
30/10/2022	2.15	27.1	68.67	0.00
31/10/2022	2.26	26.9	68.55	0.00
01/11/2022	2.65	26.5	68.73	0.00
02/11/2022	2.41	26.9	73.35	0.00
03/11/2022	2.02	27.6	71.42	0.00
04/11/2022	2.59	26.9	69.72	5.84
05/11/2022	2.62	27.3	68.31	0.00
06/11/2022	2.42	26.9	69.72	0.00
07/11/2022	2.48	26.2	74.06	0.00
08/11/2022	2.39	26.2	73.91	0.00
09/11/2022	2.23	26.5	73.51	0.00
10/11/2022	2.51	26.7	70.78	0.00
11/11/2022	1.63	27.2	69.14	0.00
12/11/2022	2.33	27.3	69.71	0.00
13/11/2022	2.40	26.8	71.83	0.00
14/11/2022	2.29	26.5	76.09	0.00
15/11/2022	2.16	27.5	74.01	0.00
16/11/2022	2.40	25.7	77.41	0.00

17/11/2022	2.56	26.7	71.38	0.00
18/11/2022	2.94	26.1	66.42	0.00
19/11/2022	2.42	25.8	65.98	0.00
20/11/2022	2.75	25.1	65.18	0.00
21/11/2022	2.66	24.4	66.09	0.00
22/11/2022	2.49	24.9	69.39	0.00
23/11/2022	2.51	26.1	69.61	0.00

Weather Data - December 2022						
Sr. No.	Date	Temperature (° C)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction in degree	Precipitation mm
1	01.12.2022	26.9	69.1	2.6	202.0	0.0
2	02.12.2022	26.0	71.1	2.2	208.7	0.0
3	03.12.2022	26.6	70.2	2.4	214.2	0.0
4	04.12.2022	27.5	75.0	2.3	209.5	0.0
5	05.12.2022	27.9	77.5	2.0	233.3	0.0
6	06.12.2022	28.2	74.4	2.2	203.5	0.0
7	07.12.2022	27.3	72.8	2.3	225.3	0.0
8	08.12.2022	26.4	73.9	2.0	226.7	0.0
9	09.12.2022	25.9	63.9	2.3	220.6	0.0
10	10.12.2022	25.0	66.0	2.5	220.4	0.0
11	11.12.2022	26.5	66.9	2.1	226.4	0.0
12	12.12.2022	28.2	67.1	1.7	214.3	0.0
13	13.12.2022	29.1	71.6	2.0	199.2	0.0
14	14.12.2022	28.2	74.0	1.9	227.4	0.0
15	15.12.2022	28.5	73.0	1.8	205.4	0.0
16	16.12.2022	27.9	73.4	2.2	217.6	0.0
17	17.12.2022	29.1	70.5	1.9	218.4	0.0
18	18.12.2022	28.9	72.4	2.3	232.0	1.5
19	19.12.2022	28.0	69.7	2.4	228.6	0.0
20	20.12.2022	26.7	69.3	2.9	220.6	0.0
21	21.12.2022	26.4	69.9	2.6	220.3	0.0
22	22.12.2022	26.2	71.8	2.8	220.1	0.0
23	23.12.2022	25.1	71.3	2.7	233.1	0.0
24	24.12.2022	24.1	67.4	2.4	238.6	0.0
25	25.12.2022	23.2	70.9	2.1	240.1	0.0
26	26.12.2022	23.6	73.4	2.3	242.8	0.0
27	27.12.2022	25.1	70.9	2.5	230.6	0.0
28	28.12.2022	26.0	68.4	2.5	234.2	0.0
29	29.12.2022	26.0	64.5	2.6	229.6	0.0
30	30.12.2022	25.3	67.6	2.6	224.0	0.0
31	31.12.2022	24.8	70.4	3.1	251.7	0.0



Weather Data – January 2023						
Sr. No.	Date	Temperature (° C)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction in degree	Precipitation mm
1	01.01.2023	23.6	69.4	2.3	251.6	0.0
2	02.01.2023	24.0	71.0	2.6	234.9	0.0
3	03.01.2023	24.1	71.2	2.4	236.1	0.0
4	04.01.2023	24.6	71.8	1.8	217.3	0.0
5	05.01.2023	25.2	73.5	2.3	222.1	0.0
6	06.01.2023	26.7	69.8	2.1	208.8	0.0
7	07.01.2023	27.1	67.3	1.9	208.2	0.0
8	08.01.2023	26.4	68.0	2.2	216.9	0.0
9	09.01.2023	25.4	63.4	2.7	226.6	0.0
10	10.01.2023	24.6	64.2	2.6	221.6	0.0
11	11.01.2023	24.2	66.0	2.7	226.1	0.0
12	12.01.2023	22.9	71.1	3.1	242.6	0.0
13	13.01.2023	23.7	71.1	3.3	249.0	0.0
14	14.01.2023	22.2	67.2	2.8	260.3	0.0
15	15.01.2023	21.7	68.4	2.4	245.7	0.0
16	16.01.2023	22.3	72.5	2.3	242.8	0.0
17	17.01.2023	22.3	73.3	2.3	233.4	0.0
18	18.01.2023	23.9	69.6	1.9	203.4	0.0
19	19.01.2023	23.2	72.1	2.3	236.3	0.0
20	20.01.2023	23.2	71.4	2.6	238.0	0.0
21	21.01.2023	23.1	70.4	2.8	240.2	0.0
22	22.01.2023	22.8	66.2	3.0	256.4	0.0
23	23.01.2023	22.0	68.5	3.4	261.7	0.0
24	24.01.2023	21.8	68.5	2.6	271.1	0.0
25	25.01.2023	22.2	65.2	2.8	268.1	0.0
26	26.01.2023	22.8	68.8	2.3	249.0	0.0
27	27.01.2023	25.7	70.3	2.3	195.6	0.0
28	28.01.2023	26.1	68.2	2.0	175.8	0.0
29	29.01.2023	25.4	72.8	2.6	225.6	0.0

30	30.01.2023	24.7	72.6	3.1	309.0	0.0
31	31.01.2023	25.6	72.5	2.6	267.5	0.0

Weather Data - February 2023						
Sr. No.	Date	Temperature (° C)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction in degree	Precipitation mm
1	01.02.2023	27.0	66.8	2.8	205.5	0.0
2	02.02.2023	27.7	65.1	3.0	231.1	0.0
3	03.02.2023	26.8	61.3	2.9	226.7	0.0
4	04.02.2023	25.6	65.9	2.7	227.5	0.0
5	05.02.2023	25.8	65.2	2.6	237.7	0.0
6	06.02.2023	24.6	68.4	2.7	248.8	0.0
7	07.02.2023	24.8	68.0	2.7	257.0	0.0
8	08.02.2023	25.0	68.0	2.8	226.7	0.0
9	09.02.2023	27.3	63.8	2.8	219.7	0.0
10	10.02.2023	25.5	67.8	2.9	246.6	0.0
11	11.02.2023	25.4	65.7	3.2	240.6	0.0
12	12.02.2023	25.5	65.4	3.1	227.5	0.0
13	13.02.2023	28.4	55.4	3.9	217.3	0.0
14	14.02.2023	26.6	60.3	3.1	235.2	0.0
15	15.02.2023	26.8	57.3	3.0	228.2	0.0
16	16.02.2023	28.1	53.6	3.4	218.9	0.0
17	17.02.2023	27.9	58.2	3.4	236.2	0.0
18	18.02.2023	27.7	60.3	3.4	237.1	0.0
19	19.02.2023	27.2	62.7	2.3	209.0	0.0
20	20.02.2023	26.0	71.2	2.5	238.2	0.0
21	21.02.2023	26.1	71.2	3.0	238.3	0.0
22	22.02.2023	25.6	72.3	3.2	284.7	0.0
23	23.02.2023	26.3	68.0	2.7	237.2	0.0
24	24.02.2023	26.9	66.8	2.6	224.3	0.0

25	25.02.2023	27.2	64.6	2.8	249.0	0.0
26	26.02.2023	27.5	62.0	2.8	229.7	0.0
27	27.02.2023	27.4	64.9	1.9	213.9	0.0
28	28.02.2023	26.6	64.4	2.5	237.9	0.0

Weather Data - March 2023						
Sr. No.	Date	Temperature (° C)	Relative Humidity (%)	Wind Speed (m/s)	Wind Direction in degree	Precipitation mm
1	01.03.2023	26.8	63.6	2.5	223.3	0.0
2	02.03.2023	28.5	58.8	1.9	223.8	0.0
3	03.03.2023	28.7	61.5	2.2	213.2	0.0
4	04.03.2023	28.8	59.7	2.3	222.3	0.0
5	05.03.2023	29.1	59.0	1.8	208.1	0.0
6	06.03.2023	30.0	57.2	2.6	197.5	0.0
7	07.03.2023	29.7	51.8	2.8	144.0	0.0
8	08.03.2023	28.4	60.2	2.4	238.8	0.0
9	09.03.2023	31.2	53.5	2.6	233.6	0.0
10	10.03.2023	30.8	49.0	2.6	233.2	0.0
11	11.03.2023	26.0	60.0	1.6	191.7	0.0
12	12.03.2023	34.6	51.4	2.8	212.1	0.0
13	13.03.2023	30.6	60.1	1.9	180.9	0.0
14	14.03.2023	29.6	65.2	2.3	215.5	0.0
15	15.03.2023	29.3	68.1	1.3	211.8	0.0
16	16.03.2023	29.1	72.1	1.7	189.0	0.0
17	17.03.2023	28.2	68.6	2.2	207.7	0.0
18	18.03.2023	28.2	72.7	1.9	231.4	0.0
19	19.03.2023	28.3	70.3	1.9	208.5	0.0
20	20.03.2023	27.9	67.1	2.2	257.5	0.0
21	21.03.2023	27.2	70.4	1.7	214.3	0.3
22	22.03.2023	27.4	70.3	2.4	243.5	0.0

23	23.03.2023	28.1	71.7	2.8	230.1	0.0
24	24.03.2023	27.5	67.5	2.4	258.2	0.0
25	25.03.2023	26.3	67.2	2.6	256.7	0.0
26	26.03.2023	26.8	70.6	2.4	229.6	0.0
27	27.03.2023	27.4	70.8	2.3	240.5	0.0
28	28.03.2023	27.4	71.0	2.1	244.0	0.0
29	29.03.2023	27.5	70.5	2.0	237.1	0.0
30	30.03.2023	28.2	70.6	2.2	238.0	0.0
31	31.03.2023	28.8	64.9	2.3	230.8	0.0



## **ANNEXURE No. 6**

**Intimation to MoEF&CC,Gol regarding  
acquisition of Dighi Port by APSEZ**



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.

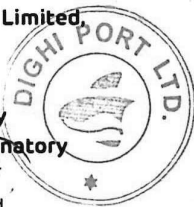
Thanking you,

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: [westzonecpqb@yahoo.com](mailto:westzonecpqb@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 : [rorraigad@mpcb.gov.in](mailto:rorraigad@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  
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CIN: U35110MH2000PLC127953

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