

DEENDAYAL PORT AUTHORITY
(Erstwhile: DEENDAYAL PORT TRUST)

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EG/WK/4751/Part (Ro-Pax)/ **347**

Dated: **07/08/2023**

To,
The Deputy Director General of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office, Gandhinagar,
A wing- 407 & 409, Aryan Bhawan,
Near CH-3 Circle,

Sector 10 A, Gandhinagar – 382 010.

Sub: Bifurcation (600 mt waterfront out of total 4800 mt) of Environmental and CRZ clearance issued to M/s Essar Bulk Terminal Limited for Expansion of Port Facility at Hazira, Surat, Gujarat – **Submission of Compliance Report of Stipulated Conditions in EC & CRZ Clearance and Monitoring datasheet req.**

- Ref.:**
1. Bifurcation (600 mt water front out of total 4800 mt) of Environmental and CRZ Clearance issued to M/s Essar Bulk Terminal Limited for expansion of port facility at Hazira, Surat, Gujarat by the MoEF&CC, GoI vide letter F.No. 11-46/2011 - IA III dated 4/4/2022.
 2. Environmental and CRZ Clearance for the expansion of port facility at Hazira, Surat, Gujarat by M/s Essar Bulk Terminal Ltd by the MoEF&CC, GoI vide letter F.No. 11-46/2011 - IA III dated 06/05/2014
 3. DPT Letter no. EG/WK/4751/Part (Ro-Pax)/156 dated 05/08/2022

Sir,

It is requested to kindly refer above cited reference for the said subject.

In this regard, it is to state that, the MoEF&CC, GoI, New Delhi vide above mentioned letter dated 4/4/2022 cited at Reference 1 had issued Bifurcation of Environmental and CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter of even number dated 6th May, 2014 in the name of Deendayal Port Trust for **"Development of 600 m Waterfront and 24 ha. Back up Area at Hazira, Surat by Deendayal Port Trust (Now: Deendayal Port Authority)"**.

In the said letter dated 4/4/2022, the MoEF&CC, GoI under Para 8 has mentioned that, Deendayal Port Authority shall comply with all the specific & general conditions stipulated in the EC & CRZ Clearance of even no. dated 6th May, 2014 cited at Reference 2.

.....Cont.....

Accordingly, kindly find enclosed herewith compliance report of the conditions stipulated in the EC & CRZ Clearance granted by the MoEF&CC, GoI dated 6th May, 2014 (**Annexure I**) & Monitoring Report in Data Sheet (**Annexure II**) (for the period up to May, 2023) along with all the necessary annexures, for kind information and record please.

Further, as per the MoEF&CC, Notification S.O.5845 (E) dated 26.11.2018, which stated that "In the said notification, in paragraph 10, in sub-paragraph (ii), **for the words "hard and soft copies" the words "soft copy" shall be substituted**". Accordingly, we are submitting herewith soft copy of the compliance report via e-mail ID : eccompliance-guj@gov.in .

This has the approval of Chief Engineer, Deendayal Port Authority.

Encl.: As above

Yours faithfully,


Manager (Environment)
Deendayal Port Authority

Copy along with point wise compliance of stipulated conditions, to :

1) Shri Amardeep Raju,
Scientist E, Ministry of Environment, Forest and Climate Change,
& Member Secretary (EAC-Infra.1),
Indira Paryavaran Bhawan,
3rd Floor, Vayu Wing, Jor Bagh Road, Aliganj,
New Delhi- 110 003;
E-mail: ad.raju@nic.in

2) Shri Prasoon Gargav,
Scientist E & Regional Director,
Central Pollution Control Board,
Parivesh Bhawan,
Opp. VMC Ward Office No.10, Subhanpura,
Vadodara - 390 023.
Email: prasoon.cpcb@nic.in

3) *Shri T. C. Patel*
Environment Engineer,
Unit Head, Kachchh ,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10A, Gandhinagar- 382 010.
Email : kut-uh-gpcb@gujarat.gov.in

4) The Regional Officer,
Gujarat Pollution Control Board,
Regional Office, Surat
228, Belgium Square, Typical First Floor,
Silver Plaza complex, Opp. Linear Bus Stand,
Ring Road, Surat - 395 003. Gujarat

Annexure -I

Compliance report (upto May, 2023)

Project : Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority (600 m water front – 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)).

Status of Project: Under Operation Stage (RoRo/RoPax facility: 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)). As per bifurcated EC & CRZ Clearance dated 4/4/2022 issued by the MoEF&CC, GoI, DPA has obtained Fresh CCA (PCB Id: 88242) from GPCB vide Order dated 10/07/2023 with validity upto 26/07/2027.

However, for remaining development of onshore /offshore facility, DPA engaged Indian Ports Association, New Delhi. After receipt of report of IPA, further development will be undertaken.

Status of compliance of stipulated conditions mentioned in the EC & CRZ Clearance dated 6/5/2014 :

Sl. No.	EC Condition	Compliance
6. Specific Conditions		
i.	Consent for Establishment shall be obtained from Gujarat Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	As directed in the Bifurcated EC & CRZ Clearance issued by the MoEF&CC, GoI dated 4/4/2022, DPA also obtained Consent to Establish (CTE-55353) (after obtaining Environmental Clearance), vide dated 24/6/2022 <u>(Copy once again attached – Annexure 1)</u> from the Gujarat Pollution Control Board (under Water Act 1974 and Air Act 1981) in the name of DPA for development of 600 m waterfront and 24 ha back up area.
ii	Project Proponent shall appoint a consultant to look after and advice on the transportation of dangerous chemicals. Sensors for early detection of leakage of propylene and butadiene shall be provided at berths along with water sprinklers.	N/A. DPA developed Ro-Ro/Ro-Pax facility at Hazira which is being used for public conveyance and also for trailer, trucks, cars etc.
iii.	Project Proponent shall ensure proper flushing/free flow of tidal water to the mangroves.	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves. However, due care is being taken for proper flushing/free flow of tidal water to the mangroves in surrounding areas.

iv.	Project Proponent shall submit once in 12 months the latest satellite imagery to MoEF&CC to ensure that mangroves are remains fully intact. Any shrinkage in mangrove area noticed either in the satellite imaginary or during site visit, shall be taken as violation.	N/A. The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.
v	The Project Proponent shall get third party inspection carried out once in a year preferably by NEERI to ensure compliance of all the Environmental Clearance (EC) conditions.	It is assured that third party will be engaged for inspection to ensure compliance of all the applicable EC conditions.
vi.	There shall be no encroachment of project activities in the mangrove area. The various referral distances/latitudes/ longitudes as indicated in the enclosed map (Annexure-II) shall be maintained for the conservation of this mangrove area within the port limit.	N/A. The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.
vii.	Stock yard on northern side (Hazira Village side) shall be provided with bund and wind screen of atleast 15 mt height with well-designed water spray fogging arrangement along with three rows of trees in canopy formation.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
viii.	The height of coal stack yard shall be at least 2 feet below the height of wind curtain.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
ix.	Green belt shall be provided all along stack yard and in the premises.	DPA had already developed required planation (area of about 7000 m2) within the Ro-Ro/Ro-Pax Terminal area.
x.	The existing coal conveyor from berth to stock yard shall be closed with cover since the present water spray appears to be inadequate.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
xi.	The transportation in the proposed facility shall be in closed conveyor only.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
xii.	Natural drainage system shall be maintained so that there is free flow to the existing mangroves. Mangrove plantation in 500 ha of land in consultation with	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.

	GEC/Forests Department, Government of Gujarat.	<p>However, due care is being taken so that Natural Drainage System will be maintained.</p> <p>As per the directions of the MoEF&CC, GoI/GCZMA, till date, DPA had undertaken Mangrove Plantation in an area of 1500 Hectares at various locations (Copy of the statement has already been communicated with the compliance report dated 05/08/2022).</p> <p>Further, DPA has carried out additional mangrove plantation of 100 ha. with consultation of Gujarat Ecology Commission vide Work Order No. DD/WK/3050/Pt-I/GIM/PC-44 dated 02/06/2022 (Copy of the work order has already been communicated with the compliance report dated 05/08/2022).</p> <p>For regular monitoring of mangroves, DPA engaged M/s GUIDE, Bhuj during the year 2017 & subsequently, vide work order dated 3/5/2021. The final report submitted by M/s GUIDE has already been communicated with the compliance report dated 05/08/2022.</p>
xiii.	There shall be no disposal of wastes in to the coastal areas.	It is assured that no disposal of wastes will be made in to the coastal areas.
xiv	Hazardous chemicals except the permissible Petroleum products shall not be stored within CRZ area. All the construction, storage shall be as per the CRZ Notification, 2011.	<p>N/A.</p> <p>DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.</p>
xv	All the conditions/recommendations stipulated by Gujarat Coastal Zone Management Authority (GCZMA) No.ENV-10- 2011-877-E dated 01.06.2013 shall be complied with.	The compliance of the conditions/recommendations stipulated by GCZMA vide letter dated 01/06/2013 applicable to this project is attached herewith as Annexure 2.
xvi	Oil spill Contingency plan shall be put in place.	No oil handling is envisaged in proposed RoRo/RoPax development. Oil spill can happen only during bunkering and collision of vessels. Hence, the oil spill scenario will be

		considered as Tier 1 (less than 700 tons). RoRo/RoPax operation is proposed and oil spill can occur only if there is any accident.
xvii	Hydrocarbon monitors with provision for alarms set at specific concentrations shall be installed at strategic locations on the berth and around storage tanks as per ISGOTT and OISD.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
xviii	On site Emergency Management plan shall be put in place.	A copy of Disaster Management plan has already been communicated with the compliance report dated 05/08/2022.
xix	All the recommendation of the EMP, Risk Assessment and DMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO.	Point Noted for compliance. A copy of EMP prepared for the Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority and copy of Risk assessment and disaster management plan already been communicated with the compliance report dated 05/08/2022.
xx	The port shall ensure that the ship under operation follows the MARPOL convention regarding discharge or spillage of any toxic, hazardous or polluting material like ballast water, oily water or sludge, sewage, garbage etc. The emission of NOx and SOx shall remain within the permissible limits.	Point noted for compliance.
xxi	The hazardous wastes generated shall be collected and disposed as per rules, disposable wastes shall be sent to authorized TSDF. MoU in this regard shall be submitted to the Ro, MoEF along with the six monthly monitoring report.	Point Noted for compliance.
xxii	The dredging materials shall be utilized for reclamation and excess shall be disposed at the site identified by CWPRS.	Point Noted for compliance.
xxiii	A study to determine the reasons for increase in cancer patient in the vicinity shall be carried out.	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
xxiv	A separate Environment Monitoring Cell shall be set up especially for this plant and details shall be submitted to the Ministry prior to the commencement of operation.	DPA is already having dedicated EMC. Further, DPA has also appointed expert agency for providing Environmental Experts

		<p>from time to time. Recently, DPA appointed M/s Precitech Laboratories Pvt.Ltd., Vapi for three years vide work order dated 5/2/2021 (Copy of Work Order has already been communicated with the compliance report dated 05/08/2022).</p> <p>In addition, DPA has also appointed Manager (Environment) on contractual basis for a period of 3 years & further extendable for 2 years (Copy of the offer of appointment has already been communicated with the compliance report dated 05/08/2022).</p>
xxv	Controlled cutter suction dredging shall be used along with the enclosure to contain the turbidity.	Point noted for compliance.
xxvi	The responses/commitments made during public hearing shall be complied with letter and spirit.	N/A.
xxvii	CSR activities shall cover the villages within 10 km radius. CSR for fishermen shall be carried out as committed.	As per the CSR Guidelines issued from time to time by the MoPSW,GoI, DPA since the year 2011-12 had carried out various CSR activities (Copy of the statement has already been communicated with the compliance report dated 05/08/2022).
xxviii	There shall be no ground water drawl within CRZ area	Point Noted for compliance.
xxix	Sewage shall be treated and the Treatment Facility shall be provided in accordance with the Coastal Regulation Zone Notification, 2011. The disposal of treated water shall confirm the regulation of State Pollution Control Board.	Septic Tanks has already been provided for treatment of sewage.
xxx	Solid Waste Management shall be as per Municipal Solid (Management and Handling) Rules, 2000.	Point Noted for compliance.
xxxi	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	The Ro-Ro/Ro-pax facility is under operation.

xxxii	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Not Applicable. The Ro-Ro Ro-pax facility is under operation. The GMB had allotted 600 m water front & 24 Hectares land to Deendayal Port Authority.
xxxiii	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Currently, the Ro-Ro/Ro-pax facility is under operation.
xxxiv	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	DPA is already having dedicated EMC. Further, DPA has also appointed expert agency for providing Environmental Experts from time to time. Recently, DPA appointed M/s Precitech Laboratories Pvt. Ltd., Vapi for three years vide work order dated 5/2/2021 (Copy of Work Order has already been communicated with the compliance report dated 05/08/2022). In addition, DPA has also appointed Manager (Environment) on contractual basis for a period of 3 years & further extendable for 2 years (Copy of the offer of appointment has already been communicated with the compliance report dated 05/08/2022).
xxxv	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	The allocation made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" during BE 2023-2024 is Rs. 274 Lakhs.

7. GENERAL CONDITIONS :

i.	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Currently, the Ro-Ro Ro-pax facility is under operation.
ii.	Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	It is assured that full support will be extended to the officers of this Ministry/ Regional Office at Bhopal/Gandhinagar during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of

		mitigation measures and other environmental protection activities.
iii.	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	<p>DPA had assigned the work of monthly environmental monitoring to M/s A 2 Z Envirotech vide Work Order dated 15/09/2022. The copy of the monitoring reports are attached herewith as Annexure 3.</p> <p>Recently, DPA has assigned the work of monthly environmental monitoring to GEMI, Gandhinagar for a period of 3 years vide letter dated 18/04/2023 (Annexure 4).</p>
iv.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Point Noted.
v.	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Point Noted.
vi.	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Point Noted.
vii.	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	<p>The Board of Deendayal Port Authority vide resolution no. 101 in its meeting held on 16/1/2021 had accorded approval to the project (Copy of Board Resolution has already been communicated with the compliance report dated 05/08/2022).</p> <p>Accordingly, DPA issued work order to the contractor M/s Marymatha Infrastructure Pvt.Ltd., JV M/s BMS Projects Pvt.Ltd., Cochin vide letter no. CN/WK/1600/Pre-Bid/10 dated 15/4/2021 (Copy of work order has already been communicated with the compliance report dated 05/08/2022).</p> <p>Currently, the Ro-Ro Ro-pax facility is under operation.</p>

viii.	A copy of the clearance letter shall be marked to concern Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.	N/A.
ix.	Gujarat Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.	-----
8.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Point Noted.
9.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Point Noted for compliance.
10.	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also be seen in the website of the Ministry.	<p>Deendayal Port Authority had already given advertisement in two newspapers i.e. GUJARAT SAMACHAR (Surat Edition (In Gujarati)) dated 07/04/2022 & THE TIMES OF INDIA (Surat Edition (In English)) dated 08/04/2022, w.r.t. bifurcation of EC & CRZ Clearance accorded by the MoEF&CC,GoI dated 4/4/2022.</p> <p>The copies of the above advertisement given had already been informed to the integrated Regional Office, MoEF&CC,GoI, Gandhinagar vide letter dated 23/4/2022 (Copy has already been communicated with the compliance report dated 05/08/2022.).</p>

11.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Point Noted.
12	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Point Noted.
13	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<p>DPA had already uploaded compliance report submitted dated 5/8/2022 to the Integrated Regional Office, MoEF&CC,GoI, Gandhinagar.</p> <p>However, for subsequent period also, it is assured that w.r.t. subject project, the status of compliance to the various stipulated environmental conditions will be uploaded by DPA in website www.deendayalport.gov.in.</p>
14	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	A copy of Bifurcation of EC & CRZ Clearance accorded by the MoEF&CC,GoI dated 4/4/2022 had already been uploaded in the website of DPA i.e. www.deendayalport.gov.in .
15	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.	The status of compliance to the various stipulated environmental conditions are being uploaded by DPA in website www.deendayalport.gov.in (DPA had already uploaded compliance report submitted dated 5/8/2022 to the Integrated Regional Office, MoEF&CC,GoI, Gandhinagar) and will also be updated the same periodically. Further, the same will be sent to the Regional Office, MoEF&CC, Gandhinagar & to the CPCB, Vadodara & GPCB, Gandhinagar.

16	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB</p>	<p>DPA had already uploaded compliance report submitted dated 5/8/2022 to the Integrated Regional Office, MoEF&CC,GoI, Gandhinagar.</p> <p>However, for subsequent period also, it is assured that w.r.t. subject project, six monthly reports on the status of compliance to the various stipulated Clearance conditions including results of monitoring data will be submitted to the Regional Office, MoEF&CC, Gandhinagar & to the CPCB, Vadodara & GPCB, Gandhinagar.</p>
17	<p>The environmental statement for each financial year ending 31" March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail</p>	<p>Point noted. The Ro-Ro Ro-pax facility is under operation. As per bifurcated EC & CRZ Clearance dated 4/4/2022 issued by the MoEF&CC, GoI, DPA has obtained fresh CCA (PCB Id: 88242) from GPCB vide Order dated 10/07/2023 with validity upto 26/07/2027.</p>

Annexure -1



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382010

Phone : (079) 23222425

(079) 23222152

Fax : (079) 23232156

Website : www.gpcb.gov.in

Application For CTE after EC

CTE-55353

File No : GPCB/ (PCB ID. - 88242)

To,

M/s. Deendayal Port Authority.

, Essar Bulk Terminal Ltd, Adani Hazira Port Rd, Hazira Gam, Suvali, Hazira, Gujarat
394270,

City : Hazira ,

Dist : Surat ,

Taluka : Chorasi

Sub: Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

Ref: (1) Your online application No. 257450 dated 12/05/2022

(1) Environment Clearance issued by Central Authority vide their letter no. F.No.11-46/2011-IA.III Dated 04/04/2022

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (After obtaining Environment Clearance) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981** for manufacturing of products as mentioned into the Environment Clearance (EC) granted vide letter under reference no (2) above.

Consent To Establish Is Granted Subject To The Following Conditions: -

- 1) The validity period of this CTE shall be Seven Years from the issue of this order.
- 2) Applicant shall strictly comply with all conditions stipulated by competent authority in the order of Environment Clearance issued vide letter under reference No. : 2 above.
- 3) The applicant shall however , not without the prior concern of the Board. Bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the water Act - 1974, the Air - 1981 and the Environment (Protection) Act - 1986.



For and on behalf of
Gujarat Pollution Control Board

J.D.OZA
ROH Head - Surat

- This order is issued to Essar Bulk Terminal Ltd, Adani Hazira Port Rd, Hazira Gam, Suvali, Hazira, Gujarat 394270, City : Hazira, Dist : Surat, Taluka : Chorasi (88242) for CTE amendment after obtaining EC

Annexure -2

Compliance report (upto May, 2023)

Project : Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority (600 m water front – 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)).

Status of Project: Under Operation Stage (RoRo/RoPax facility: 170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)). As per bifurcated EC & CRZ Clearance dated 4/4/2022 issued by the MoEF&CC, GoI, DPA has obtained Fresh CCA (PCB Id: 88242) from GPCB vide Order dated 10/07/2023 with validity upto 26/07/2027.

Reference:

- MoEF&CC, GoI, vide letter dated 4/4/2022 issued Bifurcation of EC&CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter dated 6th May, 2014 by MoEF&CC, GoI in the name of Deendayal Port Trust (Now Deendayal Port Authority).
- Condition no. (xv) under Specific Conditions "*All the conditions/recommendations stipulated by Gujarat Coastal Zone Management Authority (GZCMA) No. ENV 10-2011-877-E dated 01/06/2013*" of Environmental and CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter dated 6th May, 2014 by MoEF&CC, GoI.

Status of compliance of conditions stipulated in the CRZ Recommendation dated 01/06/2013:

Sl. No.	EC Condition	Compliance
1.	The provisions of the CRZ Notification of 2011 shall be strictly adhered to by M/s EBTL. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by M/s EBTL.	With regard to Ro-Ro/Ro-Pax Facility developed by DPA, the provisions of the CRZ Notification of 2011 are being strictly adhered to by DPA and no activity in contradiction to the provisions of the CRZ Notification has been carried out.
2.	Natural drainage system shall be designed in such a way that there shall be no damage to the existing mangrove patches nearby site.	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves. However, due care is being taken so that Natural Drainage System will be maintained.
3.	The Essar Bulk Terminal Limited shall take up mangrove plantation in 500 ha of land in consultation with GEC/Forest department.	The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.

		<p>However, due care is being taken so that Natural Drainage System will be maintained.</p> <p>As per the directions of the MoEF&CC, GoI/ GCZMA, till date, DPA had undertaken Mangrove Plantation in an area of 1500 Hectares at various locations (Copy of the statement has already been communicated with the compliance report dated 05/08/2022).</p> <p>Further, DPA has carried out additional mangrove plantation of 100 ha. with consultation of Gujarat Ecology Commission vide Work Order No. DD/WK/3050/Pt-I/GIM/PC-44 dated 02/06/2022 (Copy of the work order has already been communicated with the compliance report dated 05/08/2022).</p> <p>For regular monitoring of mangroves, DPA engaged M/s GUIDE, Bhuj during the year 2017 & subsequently, vide work order dated 3/5/2021. The final report submitted by M/s GUIDE has already been communicated with the compliance report dated 05/08/2022.</p>
4.	Coal, ore and other material handling shall be done through totally closed system.	<p>N/A.</p> <p>DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.</p>
5.	All necessary permissions from different Government Departments/ agencies, including GMB, shall be obtained by M/s EBTL, before commencing the activities.	<p>The Ministry of Ports, Shipping & Waterways, Government of India appointed Deendayal Port Authority (Erstwhile: DPT) as its nominee to take over the Project assets under the Concession Agreement (at Ghogha and Dahej terminals and the maintenance dredging at Dahej terminal) and also the assets at Hazira for the Ro-Pax ferry service. <u>For the purpose, the 600m waterfront along with 24 ha backup land is allotted to Deendayal Port Authority by the Gujarat Maritime</u></p>

		<p><u>Board, GoG at Hazira for developing Ro-Ro/Ro-Pax Facility at Hazira (Copy of GMB – Annexure 1).</u></p> <p>As directed in the Bifurcated EC & CRZ Clearance issued to DPA by the MoEF&CC, GoI dated 4/4/2022 <u>(Copy once again attached – Annexure 2)</u>, DPA also obtained Consent to Establish (CTE-55353) (after obtaining Environmental Clearance), vide dated 24/6/2022 <u>(Copy once again attached – Annexure 3)</u> from the Gujarat Pollution Control Board (under Water Act 1974 and Air Act 1981) in the name of DPA for development of 600 m waterfront and 24 ha back up area. Further, DPA has obtained fresh CCA (PCB Id: 88242) from GPCB vide Order dated 10/07/2023 with validity upto 26/07/2027.</p>
6.	All the recommendations and suggestions given by WAPCOS in their Environmental Impact Assessment reports for conservation/ protection and betterment of environment shall be implemented strictly by M/s EBTL.	Point noted.
7.	<p>The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves, if any, and other important coastal / marine habitats.</p> <p>Construction activity shall be carried out only under the guidance/ supervision of the reputed institute / organization.</p>	<p>The GMB had allotted land of 24 Hectares to Deendayal Port Authority devoid of Mangroves.</p> <p>However, due care is being taken so that there is no negative impact on mangroves, if any, and other important coastal/ marine habitat.</p> <p>The Ro-Ro/Ro-pax facility is under operation.</p>
8.	M/s EBTL shall strictly ensure that no rivers are blocked due to any activity at the proposed site.	It is assured that, due care is being taken by DPA so that no rivers are blocked due to any activity at the project site.
9.	The construction debris and / or any other type of waste shall not be disposed of in to the sea, creek or in the CRZ area. The debris shall be	Currently, The Ro-Ro/Ro-pax facility is under operation.

	removed from the construction site immediately after construction is over.	
10.	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	Currently, the Ro-Ro/Ro-pax facility is under operation.
11.	M/s EBTL shall bear the cost of the external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environmental impacts of the proposed activities.	Currently, the Ro-Ro/Ro-pax facility is under operation.
12.	The groundwater shall not be tapped within the CRZ areas by the EBTL to meet with the water requirements in any case.	Water requirements are met through private tankers.
13.	M/s EBTL shall take up massive greenbelt developmental activities in consultation with Forest Department / GEER Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forest and Environment Department.	DPA had already developed required planation (area of about 7000 m2) within the Ro-Ro/Ro-Pax Terminal area.
14.	The EBTL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and an action plan in this regard shall have to be submitted to the MoEF, GoI and this department.	Not Applicable. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
15.	The EBTL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forest and Environment Department and the	As per the CSR Guidelines issued from time to time by the MoPSW,GoI, DPA since the year 2011-12 had carried out various CSR activities (Copy of the statement has

	District Collector / District Development Officer.	already been communicated with the compliance report dated 05/08/2022).
16.	A separate budget shall be earmarked for environmental management and socio-economic activities including the greenbelt/ mangrove plantation and details thereof shall be furnished to this Department as well as the MoEF, GoI. The details with respect to the expenditure from this budget head shall also be furnished along with the compliance report.	<p>The allocation made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" during BE 2023-2024 is Rs. 274 Lakhs.</p> <p>The expenditure made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" is Rs. Approx. 80 Lakhs from Dec, 2022 to May 2023.</p>
17.	A separate Environmental Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	<p>DPA is already having dedicated EMC. In this regard, DPA has also appointed expert agency for providing Environmental Experts from time to time. Currently, DPA appointed M/s Precitech Laboratories Pvt. Ltd., Vapi for three years vide work order dated 5/2/2021 (Copy of Work Order has already been communicated with the compliance report dated 05/08/2022).</p> <p>In addition, DPA has also appointed Manager (Environment) on contractual basis for a period of 3 years & further extendable for 2 years (Copy of the offer of appointment has already been communicated with the compliance report dated 05/08/2022).</p> <p>Further, DPA had assigned the work of monthly environmental monitoring to M/s A 2 Z Envirotech vide Work Order dated 15/09/2022. The copy of the monitoring reports is attached herewith as Annexure 4.</p> <p>Recently, DPA has assigned the work of monthly environmental monitoring to GEMI, Gandhinagar for a period of 3 years vide letter dated 18/04/2023 (Annexure 5).</p>
18.	Environmental Audit report indicating the changes, if any, with respect to the baseline environmental quality in the	Point noted for compliance.

	coastal and marine environment shall be submitted every year by M/s EBTL to this department as well as to the MoEF, GoI.	<p>In this regard, it is relevant to mention here that, DPA had assigned the work of monthly environmental monitoring to M/s A 2 Z Envirotech vide Work Order dated 15/09/2022. The copy of the monitoring reports is attached herewith as Annexure 4.</p> <p>Further, DPA has assigned the work of monthly environmental monitoring to GEMI, Gandhinagar for a period of 3 years vide letter dated 18/04/2023 (Annexure 5).</p>
19.	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s EBTL on a regular basis to this Department as well as to the Ministry of Environment and Forest, Government of India.	It is assured that w.r.t. subject project, six monthly report on compliance of the conditions mentioned in this letter will be furnished by DPA on a regular basis to GCZMA as well as to the Regional Office, MoEF&CC, GoI.
20.	Any other condition that may be stipulated by this Department / Ministry of Environment and Forest, Government of India from time to time for Environmental Protection / management purpose shall also have to be complied with by M/s EBTL.	Point noted.

Annexure -3



ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/10/2022
Report
Report No : A2ZELPL/AN/102022/01

Description of Sample:

Date of Sampling	:	07/10/2022	Type of Sampling	:	NOISE
Date of Sample Received	:	07/10/2022	Sample ID	:	AN/102022/01
Sampling Location of Sampling Point	:	HAZIRA PORT DPT	Sample Particular	:	----
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	IS 9989-1991
Instrument calibration status	:	OK	Date of Analysis Start	:	----
Metrological conditions during monitoring	:	CLEAR SKY	Date of Analysis Completion	:	----
Instrument code	:	A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	:	30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	73.4	42.5	31.2	75	dB	IS 9989-1991
2	Nr.Terminal	61.7	31.3	19.5	75	dB	IS 9989-1991
3	Nr. D.G set	72.2	40.6	29.7	75	dB	IS 9989-1991

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

Akbar Khan P. Jalori
Authorized Signatory
(Quality Manager)

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- Reanalysis of the sample will be done if requested Within 15 days from the date of reporting of sample if the samples are not consumed during analysis.

End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/10/2022
Report
Report No : A2ZELPL/SW/10/2022/01

Description of Sample:					
Date of Sampling	:	07/10/2022	Type of Sampling	:	Surface Water
Date of Sample Received	:	09/10/2022	Sample ID	:	SW/102022/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	MARIN WATER
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	-----
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start	:	09/10/2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	10/10/2022
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.26	-	APHA, 23 rd Edition 2017/4500-H+ B
2.	Turbidity	73	NTU	-----
3.	Temperature	26.8	°C	APHA, 23 rd Edition 2017/2550B

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

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End of Report

Authorized Signator
Akbarkhan P. Jalori
(Quality Manager)



TC-10331

TEST REPORT

Customer's Name and Address:
SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04
Date of Report : 15-10-2022
Report No : A2ZELPL/S/102022/01

Description of Sample:

Date of Sampling	: 07-10-2022	Type of Sampling	: Composite
Date of Sample Received	: 09-10-2022	Sample ID	: S/102022/01
Sampling Location of Sampling Point	: NEAR JETTY AREA HAZIRA DPT	Sample Particular	: Soil
Sample Collected / Submitted by	: A2ZELPL Member	Reference Method for Sampling	: SOP
Sample Quantity /Total No.	: 1 Kg/1Nos.	Date of Analysis Start	: 09-10-2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11-10-2022
Environment condition during the test	: 25 ± 3 °C		

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	148.4	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.65	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	52.7	IS :2720 (Part 28)1976/ Reaffirmed 2015

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report

A2Z Envirotech Lab Pvt. Ltd.
Plot No. 340, Sector 1A, 2nd Floor,
Shiv House, Near Oslo Circle,
Gandhidham - Kachchh. Gujarat - 370201

Branch:
147, Time Square Empire
Mirjapur Road, Bhuj - Kachchh
Gujarat - 370001

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ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01

Date of : 15/10/2022

Report

Report No : A2ZELPL/AA/102022/01

Description of Sample:

Date of Sampling	: 07/10/2022	Type of Sampling	: AIR
Date of Sample Received	: 09/10/2022	Sample ID	: AA/102022/01
Sampling Location of Sampling Point	: Near Driver Rest Room Hazira DPT	Sample Particular	: AMBIENT AIR
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity / Total No.	: 1	Date of Analysis Start	: 09/10/2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11/10/2022
Environment condition during the test	: 25 ± 3 °C	Metrological conditions during monitoring	: Clear Sky
Instrument code	: A2ZELPL/RDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours)	: 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM ₁₀	41.9	µg/m ³	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter PM _{2.5}	22.7	µg/m ³	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO ₂	15.3	µg/m ³	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO ₂	12.1	µg/m ³	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	21.1	km/h	-----
6.	Wind Direction	ENW-WSW	--	-----
7.	Temperature	28	°C	-----

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

A. A. Jalori

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/10/2022
Report :
Report No : A2ZELPL/DW/10/2022/0

Description of Sample:			
Date of Sampling	: 07/10/2022	Type of Sampling	: Drinking Water
Date of Sample Received	: 09/10/2022	Sample ID	: DW/102022/01
Sampling Location of Sampling Point	: Admin Office Hazira port DPT	Sample Particular	: Drinking Water
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: IS 3025 (Part-1)
Sample Quantity /Total No.	: 2 Litre/1Nos.	Date of Analysis Start	: 09/04/2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11/04/2022
Environment condition during the test	: 25 ± 3 °C		

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.16	-	APHA, 23 rd Edition 2017/4500-H ⁺ B
2.	Total organic carbon	0.7334	mg/L	
3.	Total Dissolved solids	1787	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	BDL(<1.0)	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	57.7	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	100.6	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	2.68	μS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	499	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	2.6	mg/L	APHA, 23 rd Edition 2017 Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	36.9	mg/L	APHA, 23 rd Edition 2017 UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	1.2	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	114.5	mg/L	APHA, 23 rd Edition 2017 UV Turbidimetric Method 4500 SO ₄

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End of Report

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)



TEST REPORT

Customer's Name and Address:
SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/11/2022
Report
Report No : A2ZELPL/SW/11/2022/01

Description of Sample:			
Date of Sampling	:	07/11/2022	Type of Sampling : Surface Water
Date of Sample Received	:	09/11/2022	Sample ID : SW/112022/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular : MARIN WATER
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling : -----
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start : 09/11/2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion : 10/11/2022
Environment condition during the test	:	25 ± 3 ° C	

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.36	-	APHA, 23 rd Edition 2017/4500-H• B
2.	Turbidity	77	NTU	-----
3.	Temperature	26.5	° C	APHA, 23 rd Edition 2017/2550B

A. A. Jalori

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End of Report

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)



ENVIROTECH LAB PVT. LTD.



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/11/2022
Report :
Report No : A2ZELPL/AA/112022/01

Description of Sample:			
Date of Sampling	: 07/11/2022	Type of Sampling	: AIR
Date of Sample Received	: 09/11/2022	Sample ID	: AA/112022/01
Sampling Location of Sampling Point	: Near Driver Rest Room Hazira DPT	Sample Particular	: AMBIENT AIR
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity /Total No.	: 1	Date of Analysis Start	: 09/11/2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11/11/2022
Environment condition during the test	: 25 ± 3 °C	Metrological conditions during monitoring	: Clear Sky
Instrument code	: A2ZELPL/RDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours)	: 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM ₁₀	43.1	µg/m ³	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter PM _{2.5}	23.4	µg/m ³	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO ₂	17.6	µg/m ³	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO ₂	14.2	µg/m ³	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	23.2	km/h	-----
6.	Wind Direction	ENE-WSW	--	-----
7.	Temperature	27.3	°C	-----

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

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End of Report



ENVIROTECH LAB PVT . LTD .



TC-10331

TEST REPORT

Customer's Name and Address:
SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/11/2022
Report :
Report No : A2ZELPL/AN/112022/01

Description of Sample:

Date of Sampling	: 07/11/2022	Type of Sampling	: NOISE
Date of Sample Received	: 07/11/2022	Sample ID	: AN/112022/01
Sampling Location of Sampling Point	: HAZIRA PORT DPT	Sample Particular	: -----
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: IS 9989-1991
Instrument calibration status	: OK	Date of Analysis Start	: -----
Metrological conditions during monitoring	: CLEAR SKY	Date of Analysis Completion	: 7/11/2022
Instrument code	: A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	: 30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	73.1	44.6	34.8	75	dB	IS 9989-1991
2	Nr.Terminal	65.3	36.4	21.5	75	dB	IS 9989-1991
3	Nr. D.G set	72.7	43.2	32.9	75	dB	IS 9989-1991

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End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 15/11/2022
Report
Report No : A2ZELPL/DW/112022/01

Description of Sample:			
Date of Sampling	:	07/11/2022	Type of Sampling : Drinking Water
Date of Sample Received	:	09/11/2022	Sample ID : DW/112022/01
Sampling Location of Sampling Point	:	Admin Office Hazira port DPT	Sample Particular : Drinking Water
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling : IS 3025 (Part-1)
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start : 09/11/2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion : 11/11/2022
Environment condition during the test	:	25 ± 3 °C	

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.19	-	APHA, 23 rd Edition 2017/4500-H ⁺ B
2.	Total organic carbon	0.6945	mg/L	
3.	Total Dissolved solids	1755	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	BDL(<1.0)	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	42.5	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	99.6	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	2.74	mS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	455.4	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	0.72	mg/L	APHA, 23 rd Edition 2017 Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	32.03	mg/L	APHA, 23 rd Edition 2017 UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	0.05	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	73.9	mg/L	APHA, 23 rd Edition 2017 UV Turbidimetric Method 4500 SO ₄

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report

Page No.:1 of 1



TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04
Date of Report : 15-11-2022
Report No : A2ZELPL/S/112022/01

TC-10331

Description of Sample:			
Date of Sampling	: 07-11-2022	Type of Sampling	: Composite
Date of Sample Received	: 09-11-2022	Sample ID	: S/112022/01
Sampling Location of Sampling Point	: NEAR JETTY AREA HAZIRA DPT	Sample Particular	: Soil
Sample Collected / Submitted by	: A2ZELPL Member	Reference Method for Sampling	: SOP
Sample Quantity /Total No.	: 1 Kg/1Nos.	Date of Analysis Start	: 09-11-2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11-11-2022
Environment condition during the test	: 25 ± 3 °C		

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	153.9	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.68	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	61.3	IS :2720 (Part 28)1976/ Reaffirmed 2015

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report



AZZELPL/DPT/2022/15/05

DATE : 18-12-2022

To,

The Superintending Engineer(PL)& I/C Environment Cell

Deendayal Port Trust.

Gandhidham, (Kachchh)

Subject : Monitoring Report Month of December -2022

Ref. : Work Order No. : EG/WK/3581/15/V/179 DATE 15/09/2022

Name of Work : "Development of 600 m Waterfront and 24 ha. Back up Area at Hazira, Surat
by Deendayal Port Authority

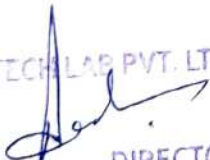
Dear Sir,

As per your work order NO. EG/WK/3581/15/V/179 DATE 15/09/2022 our working Report month of
December attached herewith.

SR.NO.	Monitoring	Report No.
1	Ambient Air Monitoring	AZZELPL/AA/12/2022/15
2	Drinking Water	AZZELPL/DW/12/2022/02
3	Sediment	AZZELPL/S/12/2022/01
4	Surface Water	AZZELPL/SW/12/2022/01
5	Noise	AZZELPL/AN/12/2022/08

Thanking you,

For A2Z ENVIROTECH LAB PVT. LTD.


DIRECTOR



Manager (Env)/ Shri. Padalia
EMC

26/12

361
26/12/22



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 18/12/2022
Report
Report No : A2ZELPL/AA/122022/15

Description of Sample:			
Date of Sampling	:	08/12/2022	Type of Sampling : AIR
Date of Sample Received	:	10/12/2022	Sample ID : AA/122022/15
Sampling Location of Sampling Point	:	Near Driver Rest Room Hazira DPT	Sample Particular : AMBIENT AIR
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling : -----
Sample Quantity / Total No.	:	1	Date of Analysis Start : 10/12/2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion : 12/12/2022
Environment condition during the test	:	25 ± 3 °C	Metrological conditions during monitoring : Clear Sky
Instrument code	:	A2ZELPL/PDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours) : 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM ₁₀	41.9	µg/m ³	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter PM _{2.5}	22.3	µg/m ³	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO ₂	15.7	µg/m ³	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO ₂	12.8	µg/m ³	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	12.5	km/h	-----
6.	Wind Direction	NE-SW	--	-----
7.	Temperature	24.8	°C	-----

A. A. J. 341527

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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- Reanalysis of the sample will be done if requested Within 15 days from the date of reporting of sample if the samples are not consumed during analysis.

End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 18/12/2022
Report
Report No : A2ZELPL/DW/122022/02

Description of Sample:

Date of Sampling	:	08/12/2022	Type of Sampling	:	Drinking Water
Date of Sample Received	:	10/12/2022	Sample ID	:	DW/122022/01
Sampling Location of Sampling Point	:	Admin Office Hazira port DPT	Sample Particular	:	Drinking Water
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	IS 3025 (Part-1)
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start	:	10/12/2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	13/12/2022
Environment condition during the test	:	25 ± 3 °C			

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.21	-	APHA, 23 rd Edition 2017/4500-H+ B
2.	Total organic carbon	0.6945	mg/L	
3.	Total Dissolved solids	921.7	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	3.5	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	36.9	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	99.1	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	1.39	mS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	196	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	0.8	mg/L	APHA, 23 rd Edition 2017Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	28.3	mg/L	APHA, 23 rd Edition 2017UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	0.18	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	112.8	mg/L	APHA, 23 rd Edition 2017UV Turbidimetric Method 4500 SO ₄

A. A. J. J. J.
Tested By
(Sr. Analyst/Analyst)

A. A. J. J. J.
Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04

Date of Report : 18-12-2022

Report No : A2ZELPL/S/122022/01

Description of Sample:

Date of Sampling	:	08-12-2022	Type of Sampling	:	Composite
Date of Sample Received	:	10-12-2022	Sample ID	:	S/122022/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	Soil
Sample Collected / Submitted by	:	A2ZELPL Member	Reference Method for Sampling	:	SOP
Sample Quantity /Total No.	:	1 Kg/1Nos.	Date of Analysis Start	:	10-12-2022
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	13-12-2022
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	159.6	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.73	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	67.5	IS :2720 (Part 28)1976/ Reaffirmed 2015

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report

A2Z Envirotech Lab Pvt. Ltd.
Plot No. 340, Sector 1A, 2nd Floor,
Shiv House, Near Oslo Circle,
Gandhidham - Kachchh, Gujarat - 370201

Branch:
147, Time Square Empire
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www.a2zenvirotechlab.com

Akbarkhan Jalori
+ 91 98987 11906



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 18/12/2022
Report
Report No : A2ZELPL/SW/12/2022/01

Description of Sample:			
Date of Sampling	: 08/12/2022	Type of Sampling	: Surface Water
Date of Sample Received	: 10/12/2022	Sample ID	: SW/122022/01
Sampling Location of Sampling Point	: NEAR JETTY AREA HAZIRA DPT	Sample Particular	: MARIN WATER
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity /Total No.	: 2 Litre/1Nos.	Date of Analysis Start	: 10/12/2022
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 13/12/2022
Environment condition during the test	: 25 ± 3 °C		

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.12	-	APHA, 23 rd Edition 2017/4500-H•B
2.	Turbidity	74	NTU	-----
3.	Temperature	25.7	°C	APHA, 23 rd Edition 2017/2550B

A. N. J. J. J.

Tested By
(Sr. Analyst/Analyst)

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End of Report

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)



ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01

Date of : 18/12/2022

Report

Report No : A2ZELPL/AN/122022/08

Description of Sample:

Date of Sampling	: 08/12/2022	Type of Sampling	: NOISE
Date of Sample Received	: 08/12/2022	Sample ID	: AN/122022/08
Sampling Location of Sampling Point	: HAZIRA PORT DPT	Sample Particular	: -----
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: IS 9989-1991
Instrument calibration status	: OK	Date of Analysis Start	: -----
Metrological conditions during monitoring	: CLEAR SKY	Date of Analysis Completion	: 08/12/2022
Instrument code	: A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	: 30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	77.3	44.7	35.1	75	dB	IS 9989-1991
2	Nr.Terminal	66.9	38.2	20.5	75	dB	IS 9989-1991
3	Nr. D.G set	76.1	45.2	31.3	75	dB	IS 9989-1991

A. A. J. J.

Tested By

(Sr. Analyst/Analyst)

(Signature)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



DATE : 16-01-2023

A2ZELPL/DPT/2023/01/06

To,

The Superintending Engineer(PL)& I/C Environment Cell

Deendayal Port Trust.

Gandhidham, (Kachhh)

Subject : Monitoring Report Month of January-2023

Ref. : Work Order No. : EG/WK/3581/15/V/179 DATE 15/09/2022

Name of Work : "Development of 600 m Waterfront and 24 ha. Back up Area at Hazira, Surat
by Deendayal Port Authority

Dear Sir,

As per your work order NO. EG/WK/3581/15/V/179 DATE 15/09/2022 our working Report month of December attached herewith.

SR.NO.	Monitoring	Report No.
1	Ambient Air Monitoring	A2ZELPL/AA/01/2023/01
2	Drinking Water	A2ZELPL/DW/01/2023/01
3	Sediment	A2ZELPL/S/01/2023/01
4	Surface Water	A2ZELPL/SW/01/2023/01
5	Noise	A2ZELPL/AN/01/2023/01

366(PL)
16/01/23
Thanking you,



Manager(Env)/Shri Padalia
ENC
16/1



ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/01/2023
Report :
Report No : A2ZELPL/AA/012023/01

Description of Sample:

Date of Sampling	: 06/01/2023	Type of Sampling	: AIR
Date of Sample Received	: 08/01/2023	Sample ID	: AA/012023/01
Sampling Location of Sampling Point	: Near Driver Rest Room Hazira DPT	Sample Particular	: AMBIENT AIR
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity / Total No.	: 1	Date of Analysis Start	: 09/01/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 11/01/2023
Environment condition during the test	: $25 \pm 3^{\circ}\text{C}$	Metrological conditions during monitoring	: Clear Sky
Instrument code	: A2ZELPL/RDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours)	: 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM_{10}	39.3	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter $\text{PM}_{2.5}$	21.9	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO_2	13.1	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO_2	11.4	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	10	km/h	-----
6.	Wind Direction	WNW-ESE	--	-----
7.	Tempreture	24.0	$^{\circ}\text{C}$	-----

A. P. Jalori

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report

A2Z Envirotech Lab Pvt. Ltd.
Plot No. 340, Sector 1A, 2nd Floor,
Shiv House, Near Oslo Circle,
Gandhidham - Kachchh. Gujarat - 370201

Branch:
147, Time Square Empire
Mirjapur Road, Bhuj - Kachchh
Gujarat - 370001

NABL / TC-10331
GST : 24AAUCA0391F120
info@a2zenvirotechlab.com
www.a2zenvirotechlab.com

Akbar Khan Jalori
+ 91 98987 11906



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C).AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/01/2023
Report
Report No : A2ZELPL/DW/012023/01

Description of Sample:

Date of Sampling	: 06/01/2023	Type of Sampling	: Drinking Water
Date of Sample Received	: 08/01/2023	Sample ID	: DW/012023/01
Sampling Location of Sampling Point	: Admin Office Hazira port DPT	Sample Particular	: Drinking Water
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: IS 3025 (Part-1)
Sample Quantity /Total No.	: 2 Litre/1Nos.	Date of Analysis Start	: 09/01/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 13/01/2023
Environment condition during the test	: 25 ± 3 °C		

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.28	-	APHA, 23 rd Edition 2017/4500-H* B
2.	Total organic carbon	0.6279	mg/L	-----
3.	Total Dissolved solids	1315.1	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	5.1	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	48.1	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	92.3	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	2.28	mS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	218.1	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	0.74	mg/L	APHA, 23 rd Edition 2017 Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	32	mg/L	APHA, 23 rd Edition 2017 UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	0.11	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	109.6	mg/L	APHA, 23 rd Edition 2017 UV Turbidimetric Method 4500 SO ₄

A. A. Jalori
Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report



TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING

DEENDAYAL PORT AUTHORITY

GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04

Date of Report : 16-01-2023

Report No : A2ZELPL/S/012023/01

Description of Sample:

Date of Sampling	: 06-01-2023	Type of Sampling	: Composite
Date of Sample Received	: 08-01-2023	Sample ID	: S/012023/01
Sampling Location of Sampling Point	: NEAR JETTY AREA HAZIRA DPT	Sample Particular	: Soil
Sample Collected / Submitted by	: A2ZELPL Member	Reference Method for Sampling	: SOP
Sample Quantity /Total No.	: 1 Kg/1Nos.	Date of Analysis Start	: 09-01-2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 12-01-2023
Environment condition during the test	: 25 ± 3 °C		

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	152.8	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.69	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	63.5	IS :2720 (Part 28)1976/ Reaffirmed 2015

A. P. Jalori

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report



TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/01/2023
Report
Report No : AZZELPL/SW/01/2023/01

Description of Sample:			
Date of Sampling	: 06/01/2023	Type of Sampling	: Surface Water
Date of Sample Received	: 08/01/2023	Sample ID	: SW/012023/01
Sampling Location of Sampling Point	: NEAR JETTY AREA HAZIRA DPT	Sample Particular	: MARIN WATER
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity /Total No.	: 2 Litre/1Nos.	Date of Analysis Start	: 09/01/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 12/01/2023
Environment condition during the test	: 25 ± 3 °C		

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.64	-	APHA, 23 rd Edition 2017/4500-H+B
2.	Turbidity	68	NTU	-----
3.	Temperature	25.3	°C	APHA, 23 rd Edition 2017/2550B

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

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3. Reanalysis of the sample will be done if requested Within 15 days from the date of reporting of sample if the samples are not consumed during analysis.

End of Report

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)



ENVIROTECH LAB PVT. LTD.

TEST REPORT



Customer's Name and Address:
SEPLA EMC (I/C), AD BUILDING,
DEFENDAS AI PORT AUTHORITY,
GANDHIDHAM KACHCHH
WORK ORDER NO. PL/WK/3587/15/A/179

Format No. : 7.8 F-01
Date of : 16/01/2023
Report
Report No. : A2ZELPL/AN/012023/01

Description of Sample:

Date of Sampling	06/01/2023	Type of Sampling	NOISE
Date of Sample Received	07/01/2023	Sample ID	AN/012023/01
Sampling Location of Sampling Point	HAZIRA PORT DPT	Sample Particular	
Sample Collected / Submitted by	A2ZELPL Team Member	Reference Method for Sampling	IS 9989-1991
Instrument calibration status	OK	Date of Analysis Start	
Metrological conditions during monitoring	CLEAR SKY	Date of Analysis Completion	06/01/2023
Instrument code	A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	73.1	45.1	34.7	75	dB	IS 9989-1991
2	Nr. Terminal	67.2	40.5	22.3	75	dB	IS 9989-1991
3	Nr. D.G set	73.5	43.6	30.0	75	dB	IS 9989-1991

A. F. J. J. J.

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



AZZELPL/DPT/2023/02/08

DATE: 24-02-2023

To,

The Superintending Engineer (PL) & I/C Environment Cell

Deendayal Port Trust.

Gandhidham, (Kachchh)

Subject: Monitoring Report Month of February-2023

Ref.: Work Order No. : EG/WK/3581/15/V/179 DATE 15/09/2022

Name of Work : "Development of 600 m Waterfront and 24 ha. Back up Area at Hazira,
Surat by Deendayal Port Authority

Dear Sir,

As per your work order NO. EG/WK/3581/15/V/179 DATE 15/09/2022 our working Report month
of February-2023 attached herewith.

SR.NO.	Monitoring	Report No.
1	Ambient Air Monitoring	AZZELPL/AA/02/2023/01
2	Drinking Water	AZZELPL/DW/02/2023/01
3	Sediment	AZZELPL/S/02/2023/01
4	Surface Water	AZZELPL/SW/02/2023/01
5	Noise	AZZELPL/AN/02/2023/01

Thanking you,

373(PL)
28/02/23



Manager (Env) / Shri. Padalia
Emc
28/2



ENVIROTECH LAB PVT. LTD.



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C), AO BUILDING

DEENDAYAL PORT AUTHORITY

GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01

Date of : 16/02/2023

Report

Report No : A2ZELPL/AA/022023/01

Description of Sample:

Date of Sampling	: 09/02/2023	Type of Sampling	: AIR
Date of Sample Received	: 11/02/2023	Sample ID	: AA/022023/01
Sampling Location of Sampling Point	: Near Driver Rest Room Hazira DPT	Sample Particular	: AMBIENT AIR
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity / Total No.	: 1	Date of Analysis Start	: 12/02/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 14/02/2023
Environment condition during the test	: $25 \pm 3^{\circ}\text{C}$	Metrological conditions during monitoring	: Clear Sky
Instrument code	: A2ZELPL/RDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours)	: 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM_{10}	40.7	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter $\text{PM}_{2.5}$	23.5	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO_2	15.8	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO_2	13.2	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	11.3	km/h	-----
6.	Wind Direction	WSW-ENE	--	-----
7.	Temperature	24.9	$^{\circ}\text{C}$	-----

Diya

Tested By
(Sr. Analyst/Analyst)

Akbar Khan P. Jalori

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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3. Reanalysis of the sample will be done if requested Within 15 days from the date of reporting of sample if the samples are not consumed during analysis.

End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/02/2023
Report
Report No : AZZELPL/DW/022023/01

Description of Sample:			
Date of Sampling	:	09/02/2023	Type of Sampling
Date of Sample Received	:	11/02/2023	Sample ID
Sampling Location of Sampling Point	:	Admin Office Hazira port DPT	Sample Particular
Sample Collected / Submitted by	:	AZZELPL Team Member	Reference Method for Sampling
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion
Environment condition during the test	:	25 ± 3 °C	

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.49	-	APHA, 23 rd Edition 2017/4500-H ⁺ B
2.	Total organic carbon	0.5912	mg/L	----
3.	Total Dissolved solids	1447	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	6.3	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	45.7	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	91.4	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	2.2	mS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	226.8	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	0.41	mg/L	APHA, 23 rd Edition 2017Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	32.4	mg/L	APHA, 23 rd Edition 2017UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	0.12	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	106.8	mg/L	APHA, 23 rd Edition 2017UV Turbidimetric Method 4500 SO ₄

Divya
Tested By
(Sr. Analyst/Analyst)

Akbarkhan P. Jalori
Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04
Date of Report : 16-02-2023
Report No : A2ZELPL/S/022023/01

Description of Sample:

Date of Sampling	:	09-02-2023	Type of Sampling	:	Composite
Date of Sample Received	:	11-02-2023	Sample ID	:	S/022023/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	Soil
Sample Collected / Submitted by	:	A2ZELPL Member	Reference Method for Sampling	:	SOP
Sample Quantity /Total No.	:	1 Kg/1Nos.	Date of Analysis Start	:	12-02-2023
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	15-02-2023
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	157.1	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.73	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	65.4	IS :2720 (Part 28)1976/ Reaffirmed 2015

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/02/2023
Report
Report No : A2ZELPL/SW/02/2023/01

Description of Sample:					
Date of Sampling	:	10/02/2023	Type of Sampling	:	Surface Water
Date of Sample Received	:	11/02/2023	Sample ID	:	SW/022023/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	MARIN WATER
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	-----
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start	:	12/02/2023
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	14/02/2023
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.68	-	APHA, 23 rd Edition 2017/4500-H•B
2.	Turbidity	72.5	NTU	-----
3.	Temperature	25.7	°C	APHA, 23 rd Edition 2017/2550B

Tested By
(Sr. Analyst/Analyst)

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End of Report

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

Page No.: 1 of 1



ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:
SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/02/2023
Report
Report No : A2ZELPL/AN/022023/01

Description of Sample:

Date of Sampling	:	10/02/2023	Type of Sampling	:	NOISE
Date of Sample Received	:	10/02/2023	Sample ID	:	AN/022023/01
Sampling Location of Sampling Point	:	HAZIRA PORT DPT	Sample Particular	:	-----
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	IS 9989-1991
Instrument calibration status	:	OK	Date of Analysis Start	:	-----
Metrological conditions during monitoring	:	CLEAR SKY	Date of Analysis Completion	:	10/02/2023
Instrument code	:	A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	:	30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	74.1	47.6	36.4	75	dB	IS 9989-1991
2	Nr.Terminal	69.2	42.2	23.8	75	dB	IS 9989-1991
3	Nr. D.G set	74.4	44.9	32.3	75	dB	IS 9989-1991

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



DATE: 17-03-2023

A2ZELPL/DPT/2023/03/09

To,

The Superintending Engineer (PL) & I/C Environment Cell

Deendayal Port Trust.

Gandhidham, (Kachchh)

Subject: Monitoring Report Month of March-2023

Ref.: Work Order No. : EG/WK/3581/15/V/179 DATE 15/09/2022

Name of Work : "Development of 600 m Waterfront and 24 ha. Back up Area at Hazira,
Surat by Deendayal Port Authority

Dear Sir,

As per your work order NO. EG/WK/3581/15/V/179 DATE 15/09/2022 our working Report month of March-2023 attached herewith.

SR.NO.	Monitoring	Report No.
1	Ambient Air Monitoring	A2ZELPL/AA/03/2023/01
2	Drinking Water	A2ZELPL/DW/03/2023/01
3	Sediment	A2ZELPL/S/03/2023/01
4	Surface Water	A2ZELPL/SW/03/2023/01
5	Noise	A2ZELPL/AN/03/2023/01

Thanking you,





TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C), AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/03/2023
Report
Report No : A2ZELPL/AA/032023/01

Description of Sample:			
Date of Sampling	: 10/03/2023	Type of Sampling	: AIR
Date of Sample Received	: 12/03/2023	Sample ID	: AA/032023/01
Sampling Location of Sampling Point	: Near Driver Rest Room Hazira DPT	Sample Particular	: AMBIENT AIR
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: -----
Sample Quantity / Total No.	: 1	Date of Analysis Start	: 12/03/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 14/03/2023
Environment condition during the test	: $25 \pm 3^{\circ}\text{C}$	Metrological conditions during monitoring	: Clear Sky
Instrument code	: A2ZELPL/RDS/01 A2ZELPL/FDS/01	Actual Duration of Monitoring (Hours)	: 24

TEST RESULT (COMPARE WITH NAAQS)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	Particulate Matter PM_{10}	41.3	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter $\text{PM}_{2.5}$	24.6	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO_2	17.2	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO_2	15.5	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 6)2006/ Reaffirmed 2017
5.	Wind Speed	9.8	km/h	-----
6.	Wind Direction	WSW-ENE	--	-----
7.	Temperature	26.2	$^{\circ}\text{C}$	-----

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/03/2023
Report
Report No : A2ZELPL/DW/032023/01

Description of Sample:

Date of Sampling	: 11/03/2023	Type of Sampling	: Drinking Water
Date of Sample Received	: 12/03/2023	Sample ID	: DW/032023/01
Sampling Location of Sampling Point	: Admin Office Hazira port DPT	Sample Particular	: Drinking Water
Sample Collected / Submitted by	: A2ZELPL Team Member	Reference Method for Sampling	: IS 3025 (Part-1)
Sample Quantity /Total No.	: 2 Litre/1Nos.	Date of Analysis Start	: 13/03/2023
Details of Packing/Label/Seal	: Satisfactory	Date of Analysis Completion	: 16/03/2023
Environment condition during the test	: 25 ± 3 ° C		

TEST RESULT (COMPARE WITH IS 10500:2012)

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	8.35	-	APHA, 23 rd Edition 2017/4500-H• B
2.	Total organic carbon	0.4915	mg/L	-----
3.	Total Dissolved solids	1480.3	mg/L	APHA, 23 rd Edition 2017/ 2540-C
4.	Total Suspended solids	5.6	mg/L	APHA, 23 rd Edition 2017/ 2540-D
5.	Calcium	45.7	mg/L	APHA, 23 rd Edition 2017/3500-Ca-B
6.	Magnesium	86.99	mg/L	APHA, 23 rd Edition 2017/3500-Mg-B
7.	Conductivity	2.26	mS/Cm	APHA, 23 rd Edition 2017 Laboratory Method 2510B
8.	Alkalinity	235.7	mg/L	APHA, 23 rd Edition 2017 Titration Method 2320-B
9.	Phosphate	0.4	mg/L	APHA, 23 rd Edition 2017Stannous Chloride Method 4500- PD
10.	Nitrate as NO ₃	6.38	mg/L	APHA, 23 rd Edition 2017UV Spectrometer screening Method 4500 NO ₃ -B
11.	Nitrate as NO ₂	0.1	mg/L	APHA 23 rd Editions 2017 4500
12.	Sulphate as SO ₄	54.7	mg/L	APHA, 23 rd Edition 2017UV Turbidimetric Method 4500 SO ₄

Devg
Tested By
(Sr. Analyst/Analyst)

Akbar Khan P. Jalori
Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-04

Date of Report : 16-03-2023

Report No : A2ZELPL/S/032023/01

Description of Sample:

Date of Sampling	:	10-03-2023	Type of Sampling	:	Composite
Date of Sample Received	:	12-03-2023	Sample ID	:	S/032023/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	Soil
Sample Collected / Submitted by	:	A2ZELPL Member	Reference Method for Sampling	:	SOP
Sample Quantity /Total No.	:	1 Kg/1Nos.	Date of Analysis Start	:	13-03-2023
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	13-03-2023
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Unit	Results	Reference Method
1.	Available Phosphorus as P	mg/kg	162.5	IS 6361:1971/Reaffirmed 2020
2.	Organic matter	%	0.74	IS 2720 (Part 22) 1972/Reaffirmed 2015
3.	Total Soluble Sulphates	mg/kg	67.2	IS :2720 (Part 28)1976/ Reaffirmed 2015

Tested By

(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report



TC-10331

TEST REPORT**Customer's Name and Address:**SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH

WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01

Date of : 16/03/2023

Report

Report No : A2ZELPL/SW/03/2023/01

Description of Sample:

Date of Sampling	:	10/03/2023	Type of Sampling	:	Surface Water
Date of Sample Received	:	12/03/2023	Sample ID	:	SW/032023/01
Sampling Location of Sampling Point	:	NEAR JETTY AREA HAZIRA DPT	Sample Particular	:	MARIN WATER
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	-----
Sample Quantity /Total No.	:	2 Litre/1Nos.	Date of Analysis Start	:	12/03/2023
Details of Packing/Label/Seal	:	Satisfactory	Date of Analysis Completion	:	14/03/2023
Environment condition during the test	:	25 ± 3 °C			

Test Results

Sr. No.	Parameters	Results	Unit	Reference Method
1.	pH	7.69	-	APHA, 23 rd Edition 2017/4500-H ⁺ B
2.	Turbidity	75.5	NTU	-----
3.	Temperature	26.3	°C	APHA, 23 rd Edition 2017/2550B

Tested By

(Sr. Analyst/Analyst)

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End of ReportAuthorized Signatory
Akbar Khan P. Jalori
(Quality Manager)



ENVIROTECH LAB PVT. LTD.

TEST REPORT



TC-10331

Customer's Name and Address:

SE(PL) & EMC (I/C),AO BUILDING
DEENDAYAL PORT AUTHORITY
GANDHIDHAM-KACHCHH
WORK ORDER NO: EG/WK/3581/15/V/179

Format No. : 7.8 F-01
Date of : 16/03/2023
Report
Report No : A2ZELPL/AN/032023/01

Description of Sample:

Date of Sampling	:	11/03/2023	Type of Sampling	:	NOISE
Date of Sample Received	:	11/03/2023	Sample ID	:	AN/032023/01
Sampling Location of Sampling Point	:	HAZIRA PORT DPT	Sample Particular	:	-----
Sample Collected / Submitted by	:	A2ZELPL Team Member	Reference Method for Sampling	:	IS 9989-1991
Instrument calibration status	:	OK	Date of Analysis Start	:	-----
Metrological conditions during monitoring	:	CLEAR SKY	Date of Analysis Completion	:	11/03/2023
Instrument code	:	A2ZELPL/SLM/01	Actual Duration of Monitoring (MINUTE)	:	30

Test Results

Sr. No.	LOCATION	L10 dB	L50 dB	L90 dB	CPCB LIMIT	UNIT	REFERENCE METHOD
1	Nr Turning jetty	74.5	44.3	33.6	75	dB	IS 9989-1991
2	Nr.Terminal	67.9	41.6	22.4	75	dB	IS 9989-1991
3	Nr. D.G set	73.5	43.7	30.3	75	dB	IS 9989-1991

Diya

Tested By
(Sr. Analyst/Analyst)

Akbarkhan P. Jalori

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

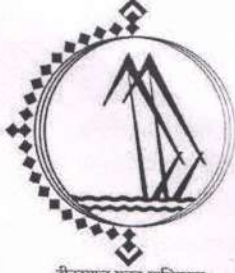
This Report is issued under the following terms & Condition:

- The results relate only to the items tested and for applicable parameter
- This Test report shall not be reproduced in full or part for any promotional or publicity and can't be used as evidence in court of law without the written consent of A 2 Z Envirotech Lab Private Limited
- Reanalysis of the sample will be done if requested Within 15 days from the date of reporting of sample if the samples are not consumed during analysis.

End of Report

Annexure -4

DEENDAYAL PORT AUTHORITY
(Erstwhile: DEENDAYAL PORT TRUST)



www.deendayalport.gov.in

Administrative Office Building
Post Box NO. 50
GANDHIDHAM (Kutch).
Gujarat: 370 201.
Fax: (02836) 220050
Ph.: (02836) 220038

EG/WK/4751/Hazira & Ghogha / 285

Dated: 18/04/2023

To,
The Gujarat Environment Management Institute (GEMI)
(An Autonomous Institute of Government of Gujarat)
"GEMI BHAVAN", Plot No B -246 & 247,
Electronic Estate, G.I.D.C, Sector 25,
Gandhinagar - 382 024, Gujarat

Kind Attention : Dr. Nitasha Khatri, Sr. Scientific Officer & Lab. Head, GEMI.

Sub: "Preparing and Monitoring of Environmental Monitoring and Management Plan for Deendayal Port Authority at Dahej-Hazira-Ghogha for a period of 3 years"
- Work Order reg.

Ref.: Offer submitted by GEMI, Gandhinagar vide letter GEMI/381(32)(6)/212/2023 dated 30/01/2023

Sir,

Your offer for the subject work submitted vide above referred letter dated 30/01/2023 (**copy attached - Annexure A**) amounting to Rs. 2,29,61,700/- plus applicable GST (Rupees Two Crores Twenty Nine Lakhs Sixty One Thousand And Seven Hundred only plus applicable GST) for the period of 3 years, including all terms & conditions mentioned in the offer letter, has been accepted by the competent authority in Deendayal Port Authority.

2. Scope of work, parameters to be analyzed during assignment, field equipment and manpower to be stationed at the Project Site Hazira, Ghogha and Dahej are as per the proposal submitted by GEMI vide letter dated 30/1/2023.

3. The terms of payment:

Particulars	Amount
Upon submission of the EMP Report (5% of the contract value)	₹ 11,48,085 + 18% GST
Upon submission of monthly reports (Containing introduction, aims, objective, tabulated test results, discussion, interpretation and recommendations etc.) (For 36 months of environmental monitoring period)	₹ 6,05,933 + 18% GST

.....contd.....

4. Deliverables :

- 1) Carrying out Preliminary Survey and submission of Preliminary report regarding monitoring cycle within seven days from the commencement of services.
- 2) Submission of Final Environmental Monitoring Plan (EMP) with the monitoring technical details within 10 days of approval of Preliminary Report by the Port.
- 3) Monthly Environmental Monitoring and Management Plan and Submission of Progress Report indicating the status of various activities undertaken, relevant results, and suggestions of preventive and corrective measures for non-conformities found, if any, as per the EMP will be submitted every month by the 10th for the preceding month. Every quarter by the 15th of the coming month for the preceding quarter.
- 4) The Yearly report shall be submitted within 30 days from the completion date of the one year's monitoring period.

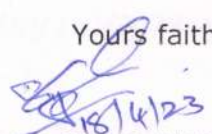
5. Time Schedule :

- a) 07 days from the commencement of services to carry out Preliminary Survey and submit Preliminary report regarding monitoring cycle.
- b) 10 days from the approval of Preliminary report to submit the Final Environmental Monitoring Plan (EMP)
- c) Contract period shall be 36 months from the submission of Environmental Monitoring Plan (EMP).

6. Kindly send acknowledgment of this work order and commence the work w.e.f. 02/05/2023.

Thanking you.

Yours faithfully,


Superintending Engineer (PL) & EMC (I/c)
Deendayal Port Authority

Annexure -II

Monitoring the implemental Safe guards
Ministry of Environment, Forests & Climate Change
Regional office (WZ), Bhopal.
Monitoring Report (upto May, 2023)
DATA SHEET

Sr. No.	Particulars	Reply
1.	Project type: River valley/Mining/ Industry/thermal/ nuclear/Other (specify)	Infrastructure and Miscellaneous Projects + CRZ
2.	Name of the project	Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority (600 m water front and 24 Ha. backup area
3.	Clearance Letter (s). OM no and date	MoEF&CC, GoI vide letter dated 4/4/2022 issued Bifurcation of Environmental and CRZ Clearance accorded to M/s Essar Bulk Terminal Limited vide letter dated 6th May, 2014 in the name of Deendayal Port Trust (Now Deendayal Port Authority)
4.	Location a) District (s) b) State (s) c) Location/latitude/longitude	Dist: Surat State: Gujarat Location: Geo Coordinates: Latitude: 21° 04' 39.432" N to 21° 4 39.15 N Longitude: 72°38' 26.93" E to 72°38'58.88" E
5.	Address for Correspondence a) address of Concerned Project Chief Engineer (with pin code & telephone/telex/fax numbers b) Address of Executive project Engineer/manager/ (with pin code fax numbers)	Chief Engineer, Deendayal Port Authority, A.O. Building, Annex, Post Box No.-50, Gandhidham- Kutch. Gujarat Pin – 370201 Tel: 02836-233192, Fax-02836-220050. Superintending Engineer (Project), Office of the Superintending Engineer (P), Nirman Building, New Kandla (Kutch) pin 370 210. Gujarat .
6.	Salient features a) Of the Project b) Of the Environmental Management Plan	<ul style="list-style-type: none"> Development of 600 m waterfront and 24 ha back up area at Hazira port for RoRo/RoPax facility. <p>Salient Features of EMP prepared for the Development of Ro-Ro/Ro-Pax Facility at Hazira by Deendayal Port Authority has already been communicated with the compliance report dated 05/08/2022.</p>

	Production Details during compliance period and (or) during the previous financial year	N/A. DPA developed Ro-Ro/Ro-Pax facility which is being used for public conveyance and also for trailer, trucks, cars etc.
7.	Breakup of the project area: a) Submergence area: forest & non-forest b) Others	N/A. Project area is 600 m waterfront and 24 ha back up area
8.	Breakup of the project affected population with enumeration of those losing houses/dwelling units only agricultural land & landless laborer's/artisen a) SC. ST/Adivasis b) Others (please indicate whether these figures are based on any scientific and systematic survey carried out of only provisional figures, if a survey is carried out give details and years of survey).	N/A N/A N/A
9.	Financial details a) Project cost as originally planned and subsequent revised estimates and the year of prices reference. b) Allocation made for environmental management plans with item wise and year wise break-up c) Benefit cost ratio/ Internal Rate of Return and the year of assessment Whether (c) includes the cost of environmental management plans so far. d) Actual expenditure incurred on the project. e) Actual expenditure incurred on the environmental management plans so far.	69.06 Crores The allocation made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" during BE 2023-24 is Rs. 274 Lakhs. The project is carried out on public interest; hence, IRR is not possible. 83.41 Crores The expenditure made under the scheme of "Environmental Services & Clearance thereof other related Expenditure" is Rs. 73.99 Lakhs from Dec, 2022 to May 2023.

10.	<p>Forest land requirement</p> <p>a) The status of approval for diversion of forest land for non-forestry use</p> <p>b) The status of clear felling</p> <p>c) The status of compensatory a forestation, if any</p> <p>d) Comments on the viability & sustainability of compensatory a forestation programmed in the light of actual field experience so far</p>	<p>Nil (Not Applicable)</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	N/A
12.	<p>Status of construction:</p> <p>a) Date of commencement (Actual and/or planned)</p> <p>b) Date of completion (Actual and/or planned)</p>	<p>Work Order has been issued on 15/4/2021 and accordingly work has been initiated</p> <p>DPA has developed RoRo/RoPax facility (170 m berthing jetty and other allied structure viz. approach jetty, pontoons, link span etc. and 5 Ha. area (onshore facility)). However, for remaining development of onshore /offshore facility, DPA engaged Indian Ports Association, New Delhi. After receipt of report of IPA, further development will be undertaken.</p>
13.	Reasons for the delay if the Project is yet to start	N/A
14.	<p>Date of site visited</p> <p>a) The dates on which the project was monitored by the regional office on pervious occasion. if any</p> <p>b) The date site visit for this monitoring report</p>	---
15.	<p>Details of the correspondence with project authorities for obtaining action plans/information on status of compliance to safeguard other than the routine letters for logistic support for site visit.</p> <p>(The first monitoring report may contain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently.)</p>	---