

DEENDAYAL PORT AUTHORITY
(Erstwhile: DEENDAYAL PORT TRUST)

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EG/WK/4751/Part (Ro-Pax)/ 346

Dated: 07/08/2023

To,
The Director (Environment) & Member Secretary,
Gujarat Coastal Zone Management Authority,
Forest & Environment Department,
Govt. of Gujarat,
Block No.14, 8th floor,
Sachivalaya,
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 Conditions Stipulated in CRZ recommendation 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. CRZ Recommendation issued by GCZMA, GoG vide letter dated 01/06/2013 to M/s Essar Bulk Terminal

Sir,

It is requested to kindly refer above cited references 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 (Now Deendayal Port Authority) 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, as directed under Specific Condition no. (xv) stipulated in the EC & CRZ Clearance dated 6th May, 2014 i.e. 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, kindly find enclosed herewith compliance report of stipulated conditions in the CRZ recommendation for the period upto May, 2023 (**Annexure I**) along with 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 same via e-mail ID gczma.crz@gmail.com & direnv@gujarat.gov.in.

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

Encl.: As above

Yours faithfully,

Manager (Environment)
Deendayal Port Authority

Copy to:

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

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.

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 -1



GUJARAT MARITIME BOARD

(GOVERNMENT OF GUJARAT)

SAGAR BHAVAN, Sector 13/A, Civil Road, Opp. to Panna District
Gandhinagar 382011, Gujarat (INDIA)
Phone : +91 79 23338346-47-48-50 Fax : +91 79 23338346
E-mail : info@gmboard.org

No: GMB/PID/296 (subfile)/ 2109

Date: 01/07/2020

To:

The Chief Engineer
Deendayal Port Trust
Kandla

Subject: Allotment of 600m waterfront and 24 hectare land at Hazira to DPT for Development of Ro-Pax Ferry Terminal

Reference: i) GMB letter No. GMB/PID/296(2) Dated 30/5/2020
ii) Your letter No. CN/WK/1600 Dated 9/6/2020

Sir,

In reference to the Video Conference chaired by Hon. Minister, Ministry of Shipping, Government of India on 29th May 2020, GMB vide above referred letter granted in-principle approval of the Government of Gujarat (GoG) for allotment of necessary land alongwith waterfront for proposed Ro-Pax Jetty and approach road at Hazira to Deendayal Port Trust (DPT). Vide our letter dated 30/05/2020, DPT was allowed to carry out the required technical feasibility and other preparatory work for early implementation of the project, in anticipation of the necessary approval of the state government for formal allotment of land of approx. 15 hectare, as per existing government GRs and Circulars.

In view of your letter in reference, the Board of GMB has resolved to recommend the proposal to Government of Gujarat for the allotment of 600m waterfront and 24 hectares of land at Hazira to DPT on lease basis. However, in view of the urgency and priority of the project, subject to the approval of the GoG, I am directed to handover the advance possession of the said land and waterfront so as to enable you to start the work at site.

Yours faithfully,

Chief Engineer

Annexure -2

F. No. 11-46/2011-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA-III Section)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi – 110003
E-mail: ad.raju@nic.in
Tel: 011-24695296

Dated: 4th April, 2022

To

Sh. Suresh Patil
Chief Engineer
M/s DEENDAYAL PORT TRUST
A. O. Building, P.O.Box no. 50, Gandhidham- Kutch
Gujarat- 370 201.

Subject: 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- Transfer of Environmental and CRZ Clearance - Reg.

Sir,

This has reference to your letter No. 'EG/WK/4751 (Part RO-Pax), dated 14th August, 2021 regarding the transfer of Environmental and CRZ Clearance from M/s ESSAR Bulk Terminal Limited (EBTL) to M/s Deendayal Port Trust (DPT) for the project mentioned above.

2.0 It has been noted that the project mentioned above was accorded environmental and CRZ clearance by the Ministry *vide* letter of even number dated 06th May, 2014 to the ESSAR Bulk Terminal Limited for the "Expansion of Port facility" at Hazira, Surat, Gujarat. Ministry has examined your application regarding transfer of EC and CRZ clearance and noted that Gujarat Maritime Board (GMB), Govt. of Gujarat has allotted the above said water front along with backup land to DPT for development of 600 m waterfront and 24 ha backup area at Hazira port for RoRO/RoPax facility.

3.0 The Principal Secretary, Ports & Transport Department, Government of Gujarat, vide a letter No. GMB-ENV-3(41-E)/3639 dated 20(21)/07/2020 addressed to the Secretary, MoEF&CC, GoI, has stated that the entire water front for 4800 m has been accorded EC/CRZ Clearance to M/s EBTL, Surat, out of which 600 m waterfront with 24 Ha Land adjoining to existing developed waterfront is now proposed to be developed by Deendayal Port Trust (DPT) under the direction of the Ministry of Shipping.

4.0 No Objection Certificate/Affidavit dated 15.06.2021 from transferee i.e., M/s Deendayal Port Trust (DPT) in a non-judicial stamp paper for bifurcation and transfer of environmental and CRZ clearance letter dated 06th May, 2014 has been received. In addition, the undertaking mentioning that M/s Deendayal Port Trust shall comply with all the conditions mentioned in the Environment Clearance has been received.



5.0 No Objection Certificate/Affidavit dated 14.02.2022 from transferor i.e., M/s ESSAR Bulk Terminal Limited (EBTL) in a non-judicial stamp paper has been received for Bi-furcation and transfer of its environmental and CRZ clearance letter dated 06th May, 2014 for the "Development of 600 m water front & 24 Ha back up area by M/s DPT".

6.0 In view of the above, it has been decided by the Ministry to accord Bi-furcation in the Environment and CRZ Clearance accorded to M/s ESSAR Bulk Terminal Limited (EBTL) vide letter of even number dated 06th May, 2014 in the name of M/s Deendayal Port Trust for "Development of 600 m water front & 24 Ha back up area by M/s Deendayal Port Trust".

7.0 You are requested to obtain 'Consent to Establish' and 'Consent to Operate' from the State Pollution Control Board concerned in the name of M/s Deendayal Port Trust.

8.0 M/s Deendayal Port Trust shall comply with all the specific and general conditions stipulated in the environmental and CRZ clearance of even no. dated 06th May, 2014. All other conditions stipulated in the environmental and CRZ clearance letter shall remain the same.

9.0 In case, there is a change in the scope of the project, fresh environmental and CRZ clearance shall be obtained.

This issues with the approval of the Competent Authority.


(Amardeep Raju)
Scientist-E

Copy to:

1. The Principal Secretary, Department of Forests & Environment and Chairman, GCZMA, Govt. of Gujarat, Sachivalaya, Gandhinagar.
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10 A, Gandhi Nagar-382010.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Gujarat Pollution Control Board, Sector 10-A, Gandhi Nagar - 382043.
5. The Chief executive Officer, M/s ESSAR Bulk Terminal Limited (EBTL), 27 km, Surat-Hazira Road, Hazira - 394 270, Gujarat.
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7. Guard File/ Record File/ Notice Board.


(Amardeep Raju)
Scientist-E

Annexure -3



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 -4



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)

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 to 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

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

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 : 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)

This Report is issued under the following terms & Condition:

1. The results relate only to the items tested and for applicable parameter
2. This Test report shall not to 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
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 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. Jalmi
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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NABL / TC-10331
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Akbarkhan Jalori
+ 91 98987 11906



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.	Tempreture	28	°C	-----

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

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-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

A. A. Jalori

Tested By
(Sr. Analyst/Analyst)

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End of Report

Authorized Signatory
Akbar Khan 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/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

Tested By
(Sr. Analyst/Analyst)

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End of Report

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

Page No.:1 of 1



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. Jd 10x;
Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbarkhan P. Jalori
(Quality Manager)

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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

A. A. Jhalori

Tested By
(Sr. Analyst/Analyst)

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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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

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



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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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:
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Mirjapur Road, Bhuj - Kachchh
Gujarat - 370001

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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. Jalori

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



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.



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/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.
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Gandhidham - Kachchh. Gujarat - 370201

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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	: $25 \pm 3^{\circ}\text{C}$		

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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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/3587/35/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. 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.

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/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	µg/m ³	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter PM _{2.5}	23.5	µg/m ³	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO ₂	15.8	µg/m ³	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO ₂	13.2	µg/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	°C	-----

Diya

Tested By
(Sr. Analyst/Analyst)

Akbar Khan

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/DW/022023/01

Description of Sample:

Date of Sampling	:	09/02/2023	Type of Sampling	:	Drinking Water
Date of Sample Received	:	11/02/2023	Sample ID	:	DW/022023/01
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	:	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 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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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
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 ± 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	41.3	µg/m ³	IS 5182 (Part 23)2006/ Reaffirmed 2017
2.	Particulate Matter PM _{2.5}	24.6	µg/m ³	IS 5182 (Part 24)2019
3.	Sulfur Dioxide SO ₂	17.2	µg/m ³	IS 5182 (Part 2)2001/ Reaffirmed 2017
4.	Nitrogen Dioxide NO ₂	15.5	µg/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	°C	-----

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 - 370001

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 : 16/03/2023
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
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

Devg

Tested By
(Sr. Analyst/Analyst)

Akbarkhan P. Jalori

Authorized Signatory
Akbar Khan P. Jalori
(Quality Manager)

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End of Report

Annexure -5

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.

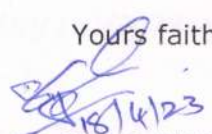
5. Time Schedule :

- 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