



Dahej SEZ Limited

Block No. 14, 3rd Floor, Udyog Bhavan,
Sector-11, Gandhinagar-302017, Gujarat, India
Phone : +91-79-23241590,29750838
Fax : (079) 23241736
e-mail : ceo@dahejsez.com, info@dahejsez.com
website : www.dahejsez.com
CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Agency/Environment Clearance/945/2024/112

Date:05/01/2024

To,
Ministry of Environment, Forests and Climate Change,
Integrated Regional Office (IRO) Gandhinagar,
Room No 407, Aranya Bhawan,
Near CH-3 Circle, Sector 10A,
Gandhinagar, Gujarat – 382010

Sub: Submission of Half Yearly (Period - April-2023 to September-2023) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Limited (SPV of GIDC & ONGC) at Dahej, Tal. Vagra, Bharuch District (Gujarat).

Ref.: Environmental Clearance No. 21-1084/2007-IA.III Dated 17th March 2010 and CRZ Clearance F. No. 11-50/2011-IA. II Dated 19th September 2014

Dear Sir,

With reference to above referred granted Environmental Clearance and CRZ Clearance for Development of Dahej SEZ Limited, at Taluka Vagra, Bharuch District, Gujarat. Under section 9 of The EIA Notification – 2006 - S.O. 1533 dated 14th September 2006 as amended and the Coastal Regulation zone Notification 2011.

Herewith we are submitting Half Yearly (**Period – April-2023 to September-2023**) EC compliance report along with environmental monitoring reports and other required details for Granted Environmental Clearance and **CRZ Clearance** for our Development of Dahej SEZ Limited, Village: Dahej, Tal. Vagra, Bharuch District (Gujarat) for your kind consideration.

We hope that our submission is in line with the EC, CRZ compliance.

Thanking you,
Yours sincerely,

J. B. Patel
Chief Executive Officer

Encl: As Above



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CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Agency/Environment Clearance/945/2024/173

Date:05/01/2024

To,
The Zonal officer (S)
Central Pollution Control Board,
Zonal Office, "Parivesh Bhavan",
Opp. VMC Ward office No.10,
Subhanpura, Vadodra - 390 023

Sub: Submission of Half Yearly (Period - April-2023 to September-2023) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Limited (SPV of GIDC & ONGC) at Dahej Tal. Vagra, Bharuch District (Gujarat)

Ref.: Environmental Clearance No. 21-1084/2007-IA.III Dated 17th March 2010 and CRZ Clearance F.No. 11-50/2011-IA. II Dated 19th September 2014

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GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Agency/Environment Clearance/945/2024/111

Date: 05/01/2024

To,
The Regional officer
Gujarat Pollution Control Board,
Shed No. C - 1/119/3, Phase II,
GIDC Estate, Narmada Nagar,
Bharuch - 392 015

Sub: Submission of Half Yearly (Period - April-2023 to September-2023) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Limited (SPV of GIDC & ONGC) at Dahej, Tal. Vagra, Bharuch District (Gujarat)

Ref.: Environmental Clearance No. 21-1084/2007-IA.III Dated 17th March 2010 and CRZ Clearance F.No. 11-50/2011-IA. II Dated 19th September 2014

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Herewith we are submitting Half Yearly (Period – April-2023 to September-2023) EC compliance report along with environmental monitoring reports and other required details for Granted Environmental Clearance and **CRZ Clearance** for our Development of Dahej SEZ Limited, Village: Dahej, Tal. Vagra, Bharuch District (Gujarat) for your kind consideration.

We hope that our submission is in line with the EC, CRZ compliance.

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Yours sincerely,

J. B. Patel
Chief Executive Officer

Encl: As Above

Post Received
Gujarat Pollution Control Board
BHARUCH
6/1/24

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

For

**Conditions of Clearance under the EIA notification, 2006 for Development of SEZ
for industrial Plots.**

**(E.C. Letter No. F.No.21-1084/2007-IA.III, Dated:17-03-2010)
(Period: to April'2023 to September '2023)**

Of

**M/s. Dahej SEZ Limited
(Joint Venture of GIDC & ONGC)**

Located At:

Village-Dahej, Taluka – Vagra District-Bharuch,

Registered Office:

**Dahej SEZ Limited
Block no. 14th, 3rd Floor, Udyog Bhavan,
Gandhinagar-382017, Gujarat**

No.21-1084/2007-IA.III
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.

Dated: 17th March, 2010.

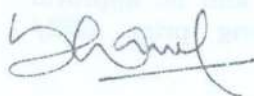
To
M/s. Gujarat Industrial Development Corporation (GIDC),
1st Floor, Narmada Commercial Complex,
Panchbatti, Bharuch - 393 003,
Gujarat.qe

Subject: Development of Dahej SEZ at village Dahej, Taluka
Vagra, District Bharuch, Gujarat by M/s. Dahej SEZ Ltd.
(SPV of GIDC & ONGC) - Environmental Clearance - Reg.

Dear Sirs,

This has reference to your application No. GIDC/EE/BRH/PB-I/1972, dated 18.10.2007 and subsequent letters dated 13.06.2008, 04.09.2008, 26.09.2008, 13.10.2008, 14.10.2008, 12.11.2008, 23.04.2009, 01.05.2009, 26.05.2009, 03.07.2009, 16.07.2009, 31.07.2009, 27.10.2009, 11.11.2009, 11.01.2010, 20.01.2010, 28.01.2010 and 30.01.2010 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 and its subsequent amendment in 2009 on the basis of the documents enclosed with the application viz., the Form 1, Form 1A and Conceptual Plan including EMP and the additional clarifications furnished in response to the observations of the Expert Committee constituted by the competent authority in its meetings held on 25th - 28th February 2008, 16th - 18th July, 2008, 29th - 30th September, 2008 23rd - 24th November, 2009 and 27th - 29th January, 2010 and awarded "Silver" grading to the project.

2. It is, interalia, noted the project involves development of SEZ on a plot area of 1803 ha. (316 ha. area is falling under CRZ.). The project proponent has deleted the area falling under CRZ and the balance net area of the project for Environmental Clearance is 1487 ha., which is demarcated as non-CRZ area. It is proposed to develop industrial plots on the non-CRZ area. The broad area break-up is (a) Area under industrial plots - 1242.70 ha., (b) Area under roads - 61.50 ha. (c) Area under utilities - 8.40 ha. (d) Area under corridor for power lines, pipeline and green belt - 153.90 ha. and (e) Tank area - 20.50 ha. The proposed complex will have industries for petrochemical, agro chemical units, industrial gas producing units, package units, fabricating units, power generation units and other small chemical industries. The total water



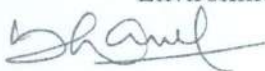
requirement is about 85 MLD and withdrawal will be from river Narmada at Angareshwar, which is approximately at a distance of 75 km from project site. The industrial member units within SEZ will have their own waste water treatment plant and treated effluent shall be collected, conveyed and disposed off in deep sea. The waste water quantity will be 45 MLD. The hazardous wastes will be disposed at nearby authorised TSDF site. The power requirement is 66 KV. The TOR for the project was finalized and issued on 21.03.2007. Public hearing was conducted on 17th August 2007. Total cost of the project is Rs. 295 Crores.

3. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental Clearance for the project mentioned above. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification - 2006 and its subsequent amendment in 2009, subject to strict compliance of the terms and conditions as follows:

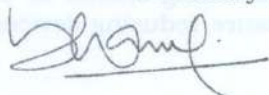
PART A - SPECIFIC CONDITIONS

I. Construction Phase

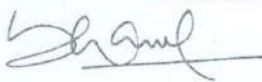
- (i) "Consent for Establishment" shall be obtained from Gujarat Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) The area falling under CRZ shall be kept open and no activity shall be carried out. A separate clearance shall be obtained from MoEF under the provisions of CRZ Notification, 1991 as amended from time to time by Govt. of India prior to any development / construction activity at site
- (iii) All the commitments made during the meeting held on 25th - 28th February 2008, 16th - 18th July, 2008, 29th - 30th September, 2008 23rd - 24th November, 2009 and 27th - 29th January, 2010 and the details submitted vide letters dated 13.06.2008, 04.09.2008, 26.09.2008, 13.10.2008, 14.10.2008, 12.11.2008, 23.04.2009, 01.05.2009, 26.05.2009, 03.07.2009, 16.07.2009, 31.07.2009, 27.10.2009, 11.11.2009, 11.01.2010, 20.01.2010, 28.01.2010 and 30.01.2010 shall be strictly complied with.
- (iv) The project proponent shall exclude the portion of the plot area allotted to units which fall under CRZ area and no approval shall be given to them without obtaining prior CRZ/ Environmental Clearance.



- (v) Fresh demarcation of HTL/LTL lines and CRZ area shall be undertaken through one of the authorized agencies identified by the MoEF shall be undertaken.
- (vi) Separate CRZ Clearance shall be obtained by M/s. Dahej SEZ Ltd. for the area falling under CRZ.
- (vii) M/s. Dahej SEZ Ltd. shall issue directions to all the allottees, whose plots are affected partly under CRZ Notification to obtain necessary clearance after getting the recommendation from the State Coastal Zone Management Authority.
- (viii) Necessary permission/NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.
- (ix) Treated waste water shall be used for flushing of toilets, horticulture and HVAC purposes, in that order.
- (x) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xi) A First Aid Room will be provided in the project both during construction and operation of the project.
- (xii) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.
- (xiii) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (xiv) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (xv) Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.
- (xvi) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Gujarat Pollution Control Board.



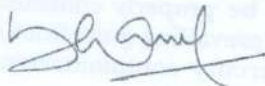
- (xvii) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.
- (xviii) The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.
- (xix) Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- (xx) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/Gujarat PCB.
- (xxi) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).
- (xxii) Ready mixed concrete must be used in building construction.
- (xxiii) Storm water control and its re-use as per CGWB and BIS standards for various applications.
- (xxiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- (xxv) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xxvi) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- (xxvii) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.



- (xxviii) Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on airconditioning. If necessary, use high quality double glass with special reflective coating in windows.
- (xxix) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.
- (xxx) Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all airconditioned spaces while it is aspirational for non-airconditioned spaces by use of appropriate thermal insulation material to fulfill requirement.
- (xxxi) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.
- (xxxii) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- (xxxiii) Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.

II. Operation Phase

- i) The installation of the Effluent Treatment Plant (ETP)/Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated affluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralised treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the Gujarat Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.
- ii) Necessary permission/NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.
- iii) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. The hazardous wastes shall be disposed at authorised TSDF site.



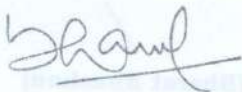
- iv) Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Gujarat Pollution Control Board.
- v) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- vi) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.
- vii) Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.
- viii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.
- ix) The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.
- x) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- xi) A Report on the energy conservation measures confirming to energy conservation norms finalise by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submit to the Ministry in three months time.
- xii) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.



- xiii) Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.
- xiv) The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.

PART - B. GENERAL CONDITIONS

- i) The environmental safeguards contained in the EIA Report should be implemented in letter and spirit.
 - ii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
4. Officials from the Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bhopal.
5. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
6. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
7. 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.
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, 2006.



9. The project proponent should 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 Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.

10. Environmental 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.

11. Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/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.


13. The proponent shall upload the status of compliance of the stipulated EC 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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

14. The environmental statement for each financial year ending 31st 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

(Bharat Bhushan)
Director (IA)

Copy to:

- (1) The Secretary, Department of Environment, Government of Gujarat, Gandhinagar.
- (2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110 032.
- (3) The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10-A, Gandhinagar, -382010
- (4) The Chief Conservator of Forests, Ministry of Env & Forests, RO(WZ) E-5, Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravishankar Colony, Bhopal - 462 016.
- (5) IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.
- (6) Guard file.


(Bharat Bhushan)
Director (IA)
17.03.2010

M/s. DAHEJ SEZ LTD.

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|------------------------------|---|--|
| I. Construction Phase | | |
| 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. | Dahej SEZ Ltd. Has obtained the Consent to established (GPCB/BRCH/NOC/3633/27240, Dated: 22/09/2008) and same is enclosed as Annexure – I . And Also, Clearance of CC&A (Consolidated consent & Authorization) of Dahej SEZ. <ul style="list-style-type: none"> No.: GPCB/BRCH-B-CCA-125(2)/ID-25308 Consent Order No: AWH-104709 Date of Issue: 22/10/2019 Valid Up to: 04/08/2024 |
| II. | The area falling under CRZ shall be kept open and no activity shall be carried out. A separate clearance shall be obtained from MoEF under the provisions of CRZ Notification, 1991 as amended from time by Govt. of India prior to any development / construction activity at site. | DSL has kept the area open falling under CRZ and no activity shall be carried out. Also, separate CRZ clearance was obtained vide letter no. 11-50/2011-IA.III dated 19/09/2014 and the copy of the same is enclosed Annexure – III . |
| III. | All the commitments made during the meeting held on 25 th – 28 th February 2008, 16 th – 18 th July, 2008, 29 th – 30 th September, 2008 23 rd – 24 th November, 2009 and 27 th – 29 th January, 2010 and the details submitted vide letters dated 13.06.2008, 04.09.2008, 26.09.2008, 13.10.2008, 14.10.2008, 12.11.2008, 23.04.2009, 01.05.2009, 26.05.2009, 03.07.2009, 16.07.2009, 31.07.2009, 27.10.2009, 11.11.2009, 11.01.2010, 20.01.2010, 28.01.2010 and 30.01.2010 shall be strictly complied with. | DSL is complying with the commitments made during the said meetings. |
| IV. | The project proponent shall exclude the portion of the plot area allotted to units which fall under CRZ area and no approval shall be them without obtaining prior CRZ / Environmental Clearance. | DSL has excluded the portion of plot area allotted to units which falls under the CRZ area and no activities are permitted without obtaining CRZ clearance. |
| V. | Fresh demarcation of HTL / LTL lines and CRZ area shall be undertaken through one of the authorized agencies identified by the MoEF shall be undertaken. | The fresh demarcation of HTL / LTL lines and CRZ area was carried by Institute of Remote Sensing, Anna University, Chennai. |

M/s. DAHEJ SEZ LTD.

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|---------|---|--|
| VI. | Separate CRZ Clearance shall be obtained by M/s. Dahej SEZ Ltd. For the area falling under CRZ. | M/s. Dahej SEZ Ltd. Has obtained separate CRZ clearance vide letter no. 11-50/2011-IA.III dated 19/09/2014 for the area falling under CRZ and the same is enclosed as Annexure-III. |
| VII. | M/s. Dahej SEZ Ltd. Shall issue directions to all the allottees, whose plots are affected partly under CRZ Notification to obtain necessary clearance after getting the recommendation from the state coastal Zone management Authority. | DSL has issued directions to all the allottees, whose plots are affected partly under CRZ Notification to obtain necessary clearance after getting the recommendation from the state coastal zone management authority. And the list of allottees whose plots are affected partly under CRZ Notification and obtained CRZ clearance is enclosed as Annexure-III & IV. |
| VIII. | Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea. | DSL has obtained necessary permission/NOC from GPCB for disposal of treated effluent discharge into Vilayat- Dahej Pipeline developed by GIDC Authority. NOC vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22/09/2008 is enclosed as Annexure-I. |
| IX. | Treated waste water shall be used for flushing of toilets, horticulture and HVAC purposes, in that order. | DSL treats the sewage in sewage treatment plant as per GPCB standards and will use the treated waste water for flushing of toilets, horticulture and HVAC purposes, in that order. |
| X. | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project. | Local construction labours are hired from the nearby villages; hence housing is not required. But for them safe drinking water, mobile toilets, emergency first-aid faculty, etc. are provided for them. |
| XI. | A first Aid Room will be provided in the project both during construction and operation of the project. | First Aid Room was provided during the construction of the project & operation phase. Two medical centres are in vicinity of Dahej SEZ area i.e., Dahej Health & Welfare Society Hospital and Birla Copper Plant @ Dahej. |
| XII. | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site. | Topsoil excavated during construction activities is used in horticulture / landscape development within the project site only. |
| XIII. | Disposal of muck during construction phase should not create any adverse effect on the | DSL has taken note of the same and complied with this condition. |

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|---------|--|---|
| | neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority. | |
| XIV. | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. | Ground water samples are collected and analysis to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. The test reports of Ground water quality are enclosed as Annexure-V . |
| XV. | Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water. | DSL has used the construction spoils or waste for levelling the site. DSL does not generate any bituminous material and other hazardous materials. |
| XVI. | Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Gujarat Pollution Control Board. | There is no any hazardous waste generated during construction phase, hence this condition is not applicable. |
| XVII. | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) rules prescribed for air and noise emission standards. | DSL has used only low sulphur diesel type to run diesel generator sets during construction phase to follow the Environment (Protection) rules prescribed for air and noise emission standards. |
| XVIII. | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from chief controller of explosives shall be taken. | DSL procure diesel as and when required and hence these conditions will not be applicable. |
| XIX. | Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours. | Only vehicles in good condition with pollution check certificate and conforming to applicable air and noise emission standards will be allowed to bring the construction materials to the site during non-peak hours only. |
| XX. | Ambient noise levels should conform to residential standards both during day and | An ambient noise level conforms to residential standards both during day and night. Ambient air |

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|----------------|--|---|
| | night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / Gujarat PCB. | and noise quality are monitored during construction phase for checking incremental pollution load. And adequate measures are made to reduce ambient air and noise level during construction phase to conform to the stipulated standards by CPCB/ GPCB. |
| XXI. | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations). | As no thermal power station is located within the 100 km from Dahej SEZ Ltd. Hence, this condition is not applicable. |
| XXII. | Ready mixed concrete must be used in building construction. | DSL is using only the ready-mix concrete for its building construction. |
| XXIII. | Storm water control and its re-use as per CGWB and BIS standards for various applications. | DSL has taken note of this condition and shall comply with conditions. |
| XXIV. | Water demand during construction should be reduced by use of premixed Concrete, curing agents and other best practices referred. | As DSL is using only the ready-mix concrete and curing agents and other latest technologies for its building construction, thus, water demanded during construction is greatly reduced. |
| XXV. | Permission to draw ground water shall be obtained from the competent Authority prior to construction / operation of the project. | Ground water extraction is not permitted within the DSL area; the entire water requirement is met with GIDC supply water. Hence there is no requirement to obtain permission for ground water extraction from competent authority. |
| XXVI. | Separation of grey and black water should be done by the use of dual Plumbing line for separation of grey and black water. | DSL used dual plumbing line for separation of gray water and black water in administration buildings in Dahej SEZ. |
| XXVII. | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control. | DSL asked all the member units to provide fixtures for showers, toilet flushing and drinking of low flow by using aerators or pressure reducing devices or sensor-based control to conserve water. |
| XXVIII. | Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high | DSL has taken note of this condition and asked member units to reduce electricity by implementation of high-quality double glass with |

EC Compliance Report: Period (April' 2023 to September' 2023)

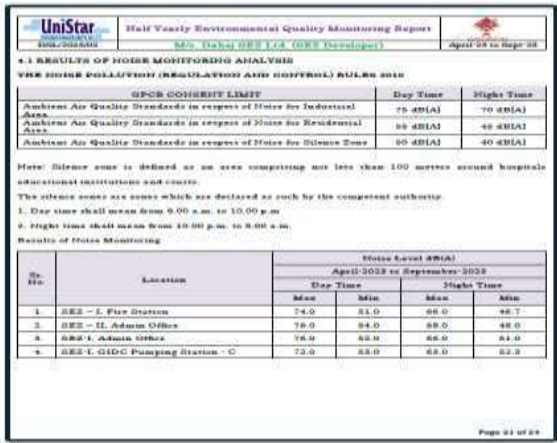
| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|----------------------------|--|---|
| | quality double glass with special reflective coating in windows. | special reflective coating in windows. |
| XXIX. | Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material to fulfil requirement. | The design of the building will be done as per energy conservation building code by using appropriate thermal insulation material to fulfil requirement |
| XXX. | Opaque wall should meet prescriptive requirement as per energy conservation building code which is proposed to be mandatory for all air-conditioned spaces which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil Requirement. | DSL will construct Opaque wall as per the energy conserving building construction code to conservation of energy also Use of light colors to reduce the UV absorption and minimize the associated cooling requirement will be used for the walls and ceiling. Thermal insulation will be provided on roofs to conserve energy. |
| XXXI. | The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of firefighting equipment, etc. as per National building code including protection measures from lightening etc. | The approval of the competent authority is obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipment, etc. as per National building code including protection measures from lightening etc. |
| XXXII. | Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid Disturbance to the surroundings. | Regular supervision of the above and other measures for monitoring are in placed all through the construction phase, so as to avoid Disturbance to the surroundings. |
| XXXIII | Under the provisions of Environment (protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance. | Taken note of this condition and complied. |
| II- Operation Phase | | |
| I. | The installation of the Effluent Treatment Plant (ETP) / Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project | DSL has installed STP as per requirement and reuses / recycled sewage water for plantation. |

M/s. DAHEJ SEZ LTD.


EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|---------|---|--|
| | is commissioned for operation. Treated effluent emanating from STP shall be recycled /reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated shall conform to the norms and standards of the Gujarat Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP. | |
| II. | Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea. | DSL was obtained necessary permission/NOC from GPCB for disposal of treated effluent discharge into Vilayat- Dahej Pipeline developed by GIDC Authority. NOC vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22/09/2008 is enclosed as Annexure-I . |
| III. | The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after Recovering recyclable material. The hazardous wastes shall be disposed at authorized TSDF site. | The member units coming in the SEZ area have to obtained membership of nearby Authorized TSDF site for disposal of their hazardous wastes. |
| IV. | Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Gujarat Pollution Control Board. | <p>DSL will use D.G. Sets as a source of backup power during operation phase.</p> <p>The height of stack of DG sets is calculated and established to the height needed for the combined capacity of all proposed DG sets.</p> <p>DSL has used only low sulphur diesel type to run diesel generator sets during Operation phase to follow the Environment (Protection) rules prescribed for air and noise emission standards.</p> |

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|---------|---|---|
| V. | Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. | <p>It is ensured that ambient Noise level will not exceed the prescribed standards and during night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.</p> <p>Half yearly comprehensive Ambient noise quality monitoring reports (April' 2023 to September' 2023) are enclosed as Annexure-V.</p> <p>The Ambient noise monitoring results are provided as a fig.no.1.</p> <p>Fig.No.1: Ambient Noise Monitoring Results</p>  |
| VI. | The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise. | Green belt (Approx. 160000 no. Of Plants) with adequate width and density comprising of preferably local species is planted in the periphery of the plot to protect against particulate pollutant and sink noise level. |
| VII. | Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon Period. | DSL has left Weep holes in the compound walls so that, rain water naturally drains out to the catchment area during the monsoon Period. |
| VIII. | Rain water harvesting for roof run - off and surface run - off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table. | DSL has implemented rain water harvesting for roof run-off and surface run-off. |

EC Compliance Report: Period (April' 2023 to September' 2023)

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|---------|--|---|
| IX. | The ground water level and its quantity should be monitored regularly in consultation with Central ground Water Authority. | <p>DSL monitoring Ground water quality regularly and Ground water quality reports are enclosed as Annexure-V.</p> <p>The ground water monitoring results are provided as a fig.no.2.</p> <p>Fig.No.2: Ground water Analysis Results</p>  |
| X. | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized. | DSL has made arrangements to avoid Traffic congestion near the entry and exit points from the roads adjoining the proposed project site. |
| XI. | A Report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R & U Factors etc and submit to the Ministry in three months time. | DSL has taken note of this condition and shall comply with this condition. |
| XII. | Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off / sent for recycling as per the prevailing guidelines / rules of the Regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible. | DSL has installed CFL lighting fixtures in the common areas, roof-top thermal insulation, light colors to reduce the UV absorption, automatic switching system for common building and street lighting. |

M/s. DAHEJ SEZ LTD.**EC Compliance Report: Period (April' 2023 to September' 2023)**

| SR. NO. | PART-A SPECIFIC CONDITION | COMPLIANCE STATUS |
|----------------|---|---|
| XIII. | Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP. | DSL will take adequate measures to prevent odour problem from STP. There is not solid waste processing plant in Dahej SEZ. |
| XIV. | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation. | DSL is following prevailing GDCR for SEZ and adequate distance is maintained to comply the condition. |

| SR. NO. | PART- B GENERAL CONDITIONS | COMPLIANCE STATUS |
|----------------|---|--|
| I. | The environmental safeguards contained in the EIA report should be Implemented in letter and spirit. | DSL has taken note of this condition and shall comply with this condition. |
| II. | The project proponent shall also submit six monthly reports on the Status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective regional office of MoEF, the respective Zonal office of CPCB and the SPCB. | DSL is regularly submitting half yearly EC compliance report for the period of April to September and October to March, to the Ministry's Regional office at Bhopal, the respective Zonal office of CPCB at Vadodara and GPCB R.O. at Bharuch well within the stipulated time. |

For **DSL SEZ Limited**

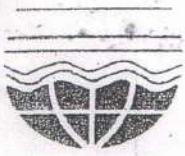
(Chief Executive Officer)

- List of Annexure**

| Sr. No. | Annexure |
|----------------|--|
| I. | Copy of Consent to established of proposed project |
| II. | Copy of CRZ area map prepared by Anna University in March 2022 and Development plan of Dahej SEZ |
| III. | Copy of CRZ clearance for the area falling under CRZ with its compliance. |
| IV. | List of Allottees with CRZ clearance |
| V. | Copy of Comprehensive Monitoring report of (April'2023 to September'2023) |
| VI. | Copy of Environmental Clearance for dispose the treated effluent into deep sea from MoEF&CC. |
| VII. | Copy of Consent to Operate of proposed project with its compliance |

Annexure-I

- Copy Of Consent to Established of Project



GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan

Sector-10-A, Gandhinagar - 382 010.
Phone : 23222756, 23222095, 23222096
Gram : CLEANWATER Fax : (079) 23232156
Website : www.gpcb.gov.in

"Consent to Establish" (NOC)

(ID NO-30594 upto 2.3.2013)

NO: GPCB/BRCH/NOC-3633/

27240

22 SEP 2008

TO:

M/s. DAHEJ SEZ LTD.
GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION (GIDC)
1ST FLOOR, NARMADA CHEMICAL COMPLEX
MAHATMA GANDHI ROAD,
PANCHBATTI,
BHARUCH-392001

SUB: **Consent to Establish (NOC)** under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF:

1. Your NOC application No. Nil dated 03/03/2008.
2. GPCB letter dated 16/05/2008 & 01/06/2008.
3. MoEF letter dated 13/03/2008, 28/07/2008.
4. EC issued by MoEF for Dahej, Vilayat Pipeline for disposal at effluent dated 29/04/2005.
5. Ministry of commerce dated 20/12/2006, notifying survey area of Village-Dahej, Ambheta, Lakhigam suva, lavara Jageshwar
6. Your letter dated 18/06/2008
7. Minutes of the 63rd Meeting of expert Appraisal committee conducted on 16/07/2008.

Sir,

Without prejudice to the powers of this Board under the water (Prevention and Control of Pollution) Act-1974, Air Act-1981 and 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 (NOC) for setting up of a Special Economic Zone (SEZ) for the infrastructure Development by GIDC-Dahej SEZ Ltd, Village-Dahej, Ta- Vagra, Dist. Bharuch. The infrastructure facility includes plotting of land, area grading & development, horticulture & development of Gardens, Chain Link Fencing, Entrance Plaza with Bus and Truck Terminal, Common facility Centre and other administrative amenities building, Internal roads with street lights, storm water drainage system, corridors for power, telephones, water, gas and other utilities grid lines, Electrical sub-station & power supply network, Raw water storage, filtration and supply system, Under ground drainage cum collection system and conveyance of effluent into deep sea for its ultimate disposal.

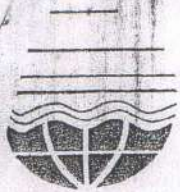
The proposed categories of industries will be Petrochemicals and downstream petrochemical industries, Engineering industries (industrial equipment/ Machineries / vessels manufacturers / fabricators), Synthetic organic chemical manufacturers, industrial gas manufacturers, Packaging Industries/ fabrication units/ power generation units.

The plot area will be of 1740 hectares and total cost of the project shall be of Rs.294.04 Crores. The Validity period of order will be Five years (ID NO-30594 upto 2.3.2013).

20/9

SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS: -

1. SEZ shall strictly abide with the various conditions as stipulated in permission letter of Ministry of commerce & industries, Government of India, dated 21/09/2005.



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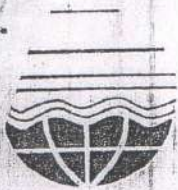
| | |
|---------------------------------|--|
| Temperature | 40° C |
| Colour (pt. co. scale) in units | 100 units |
| Suspended Solids | 100 mg/l |
| Oil and Grease | 10 mg/l |
| Phenolic Compounds | 1 mg/l |
| Cyanides | 0.2 mg/l |
| Fluorides | 1.5 mg/l |
| Sulphides | 2 mg/l |
| Ammoniacal Nitrogen | 50 mg/l |
| Arsenic | 0.2 mg/l |
| Total Chromium | 2.0 mg/l |
| Hexavalent Chromium | 0.1 mg/l |
| Copper | 3 mg/l |
| Lead | 0.1 mg/l |
| Mercury | 0.01 mg/l |
| Nickel | 3 mg/l |
| Zinc | 5 mg/l |
| BOD (3 days at 27° C) | 100 mg/l |
| COD | 250 mg/l |
| Chlorides | 600 mg/l |
| Sulphates | 1000 mg/l |
| Total dissolved solids | 5000 mg/ltr. |
| Insecticides / Pesticides | Absent |
| Bio-assay test | 90 % Survival of fish after 96 hours in 100 % effluent |

The treated effluent conforming to above standards shall be discharged in to Vilayat Dahej Pipeline developed by GIDC authority, having effluent conveyance capacity of 90 MLD.

28. All individual industries to be come-up in SEZ shall have to take the adequate measures under the provisions of Water Act, Air Act and Hazardous waste Rules.
29. Sewage shall be treated in Sewage treatment plan (STP) to conform to the following standards and shall be utilized on land for irrigation / plantation in the area SEZ area.

| | | | |
|------------------------|-----------|-----|------|
| BOD (3 days at 27° C) | Less than | 20 | mg/l |
| Suspended Solids | Less than | 30 | mg/l |
| Residual Chlorine | Minimum | 0.5 | ppm |

30. SEZ developer shall be fully responsible for collection, conveyance and disposal of treated effluent into the inlet of Vilayat Dahej Pipeline.
31. SEZ developer shall instruct & make sure that every member unit shall make storage facilities to store the effluent for at least 24 hours with an impervious acid proof brick lining tank / HDPE tank.
32. SEZ developer shall provide online pH meter with recorder & magnetic flow meters for flow measurement of treated waste water discharged in to vilayat Dahej disposal pipeline.
33. SEZ developer shall constitute a monitoring committee for monitoring of the effluent discharged by its members leading to Guard ponds.



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CONDITIONS UNDER HAZARDOUS WASTE :

47. SEZ developer and all the member industrial units shall have to comply with provisions of Hazardous Waste (Management & Handling) Rule-1989 as amended from time to time.

GENERAL CONDITION:

48. SEZ authority shall however, not without the prior consent 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 Act-1981 and the Environment (Protection) Act-1986.
48. Unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within premises, unit shall tie up with local agencies like gram panchayat, school, social forestry office etc. for the plantation at suitable open land in nearby locality and submit an action plan of plantation for next three years to GPCB. Plantation should be started along with constitution activity. For plantations within the premises, a spacing of at least 4m x 4m shall be kept i.e. to say 250 plants per acre shall be plantation. For plantations outside the premises a spacing of 2m x 2m will be kept i.e. to say 1000 plants per acre.
49. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
50. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.
51. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste or hazardous 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 Act-1981 and the Environment (Protection) Act-1986 60 days before commencing the production.
52. The applicant shall also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38), whichever are applicable.
53. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
54. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
55. In case of change of ownership / management the name and address of the new owners / partners / directors / proprietor should immediately be intimated to the Board.
56. The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:
Between 6 A.M. and 10 P.M.: 75 dB (A)
Between 10 P.M. and 6 A.M.: 70 dB (A)

2. SEZ shall provide final guard pond with adequate holding capacity for 48 hours before discharging to Dahej-Vilayat GIDC effluent disposal pipeline and shall ensure that the waste water being disposed is conforming to GPCB standards.
3. SEZ shall be responsible for collection and conveyance of treated waste water of individual unit within SEZ, up to final guard pond, for further disposal to deep sea.
4. Individual coming unit shall be responsible to obtain CTE / EC from the competent authority.
5. SEZ shall be responsible to take adequate measures to maintain environmental standards during construction / development phase of SEZ, for proposed infrastructure.
6. Ground water shall not be extracted at any stage.
7. Storm water drainage must be constructed separately.
8. Individual chemical industries, shall have to obtain EC from concerned – authorities (if applicable) under EIAN-2006.
9. SEZ shall work as nodal agency for encouraging waste minimization / waste Exchange program & opportunity for recovery / reuse among the member units.
10. SEZ shall explore biogas generation alternatives from canteen as well as decomposable waste & its captive hrs.
11. Carpeted / RCC Road of 7 to 14 meter as required with central divider, shall be provided, within SEZ – area & nearby SEZ area.
12. Under ground surface line only covered with inter locking footpath with sandy based along with tree-plantation, shall be provided by SEZ – developers.
13. You shall have to comply with the suggestions / recommendations of the minutes of the environmental Public Consultation Committee held on 17/08/2008 at Bharuch and Environmental Management Plan and compliance report be sent to head office at Gandhinagar & Regional Office regularly.
14. Units to come up within SEZ area shall have to obtain CTE (NOC) from Gujarat Pollution Control Board and other clearances from the concerned authorities.
15. Rain water harvesting system shall be installed and operated adequately.
16. SEZ developer shall obtain all approval from various statutory authorities, under relevant laws & regulation of Government of India & State Government & from local bodies.
17. Adequate provision for rehabilitation of the displaced persons shall be made by the developer.
18. Ambient air monitoring shall be carried out as per EIA report.
19. Adequate measures shall be taken to control odour problem from STP/ other ancillaries operations.
20. You shall comply with SEZ Acts, rules & notifications, as applicable.
21. SEZ developer shall take adequate mitigation measures to control pollution (Air + Water + Hazardous) during construction / development stage.

CONDITIONS UNDER WATER ACT 1974:

22. Total Water consumption for entire SEZ shall not exceed **85 MLD**.
23. The industrial effluent generated from the industries shall not exceed **45 MLD** & Domestic waste water shall not exceed **40 MLD**.
24. You shall have to provide magnetic flow meter at final outlet of final guard pond from where the industrial waste water is finally pumped into the inlet of Vilayat Dahej Pipeline & maintain effluent disposal records for further disposal into deep sea. SEZ developer shall also explore the possibility of reuse or recycle of treated effluent in the system.
25. The quality of treated industrial effluent shall conform to following standards, so that quality of the proposed fresh water reservoir of Kalpsar project does not get applied.

| PARAMETERS | NORMS |
|------------|------------|
| pH | 6.5 to 8.5 |

34. SEZ shall provide a final guard pond before discharging treated effluent into Vilayat - Dahej pipeling with holding capacity of treated effluent for at least 2 days (48 hours), having pucca & improrvius layer.
35. In case of power failure standby DG Sets, having power generation capacity equivalent to the requirement of power to discharge treated waste water in to disposal pipeline shall be provided in case of power failure to avoid of un even situation.
36. SEZ developer shall provide with online monitoring instruments along with SCADA system & pH actuated valve at the final guard sump.
37. You shall maintain strict control over effluent management from units.
38. In order to enable the Board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent under the condition of this order, are complied with by the Company while causing discharge of effluent, the applicant shall have to submit every month the analysis report of the samples of effluent got collected and analyzed by one of the laboratories recognized by the State Board. You shall keep accurate record of the member units in respect of quantity of each product manufactured, quantity of water consumption, quantity of effluent supplied to disposal pipeline and consumption of Electricity on day to day basis and required to submit the compiled record for one month to GPCB on or before seventh day of the succeeding month.
39. You shall inform immediately to the Gujarat Pollution Control Board, regarding the termination/suspension of the membership of the member unit.
40. If the products/process falls in SCHEDULE-I or II of the Environmental Audit Scheme, as specified in the order dated 13/3/97 of Hon. High Court in MCA NO.326/97 in SCA No.770/95, respective unit shall also abide by the said scheme.
41. SEZ developer has to register the unit for the coming up units under the provisions of the Factories Act-1948 and shall obtain the necessary factory license, as applicable.
42. You shall have to obtain P.L.I. Policy as per P.L.I. Act, 1991 and submit the copy of the same to the G.P.C.B.

CONDITIONS UNDER AIR ACT 1981:

43. The gaseous emissions (SO₂, NO_x, and HC) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribes by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards.
44. Necessary Air pollution control measures for odour control shall be implemented.
45. Stack monitoring facilities like "port" hole, platform/ladder etc. shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere:
46. Ambient air quality within the premises of the SEZ shall conform to the following standards:

| PARAMETERS | PERMISSIBLE LIMIT |
|------------------------------|-------------------------------|
| Suspended Particulate Matter | 500 Microgram/M ³ |
| RSPM | 150 Microgram/M ³ |
| SO ₂ | 120 Microgram/M ³ |
| NO _x | 120 Microgram/M ³ |
| HCL | 200 Microgram/M ³ |
| CL ₂ | 100 Microgram/M ³ |
| Ammonia | 850 Microgram/M ³ |
| Hydrocarbon | 160 Microgram/M ³ |
| H ₂ S | 500 Microgram/M ³ |
| HF | 60 Microgram/M ³ |
| CO | 5000 Microgram/M ³ |
| CS ₂ | 2000 Microgram/M ³ |

57. Applicant is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
58. If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property in that case they are obliged to pay the compensation as determined by the competent authority.

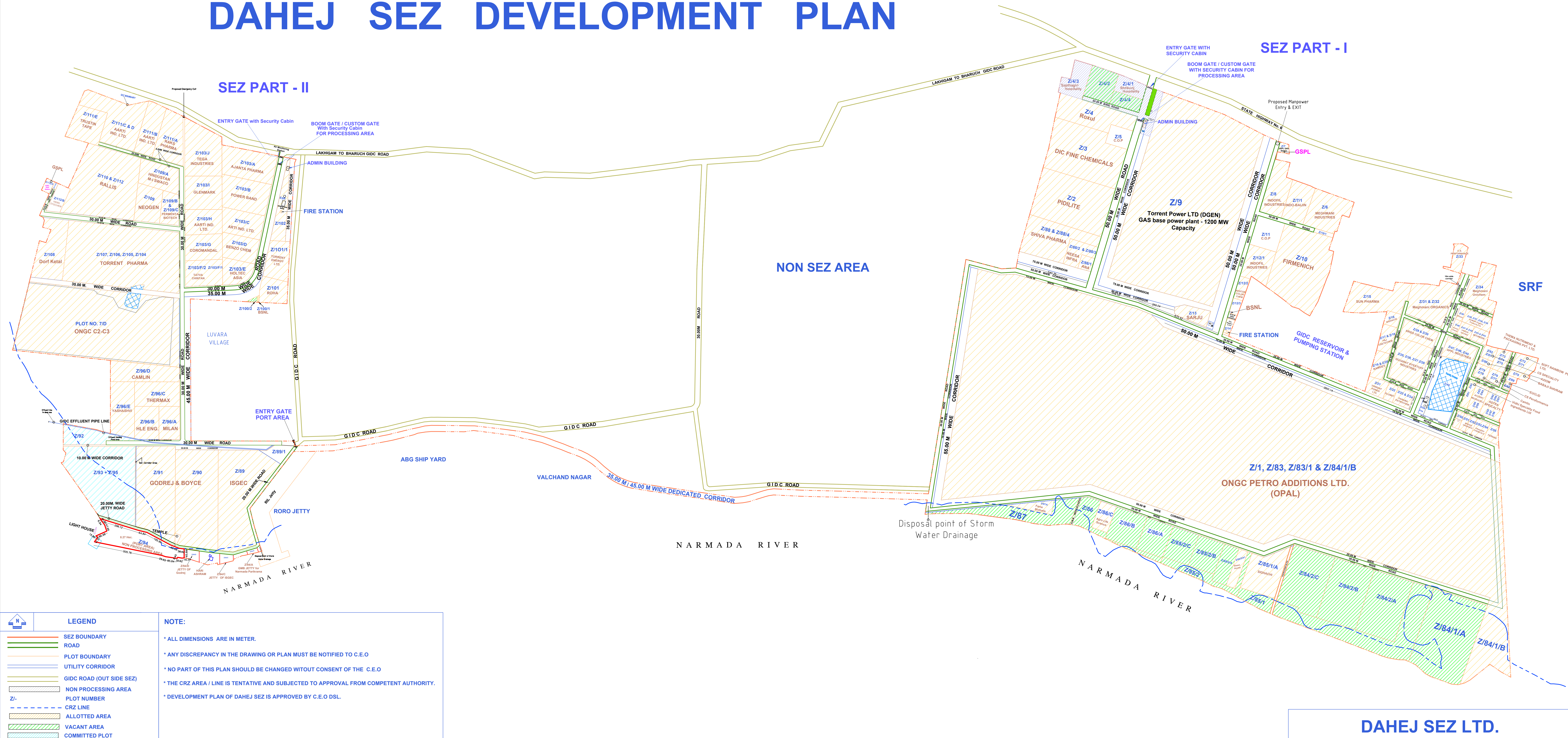
For and on behalf of
GUJARAT POLLUTION CONTROL BOARD


(A.A. Dotti)
ENVIRONMENTAL ENGINEER

Annexure-II

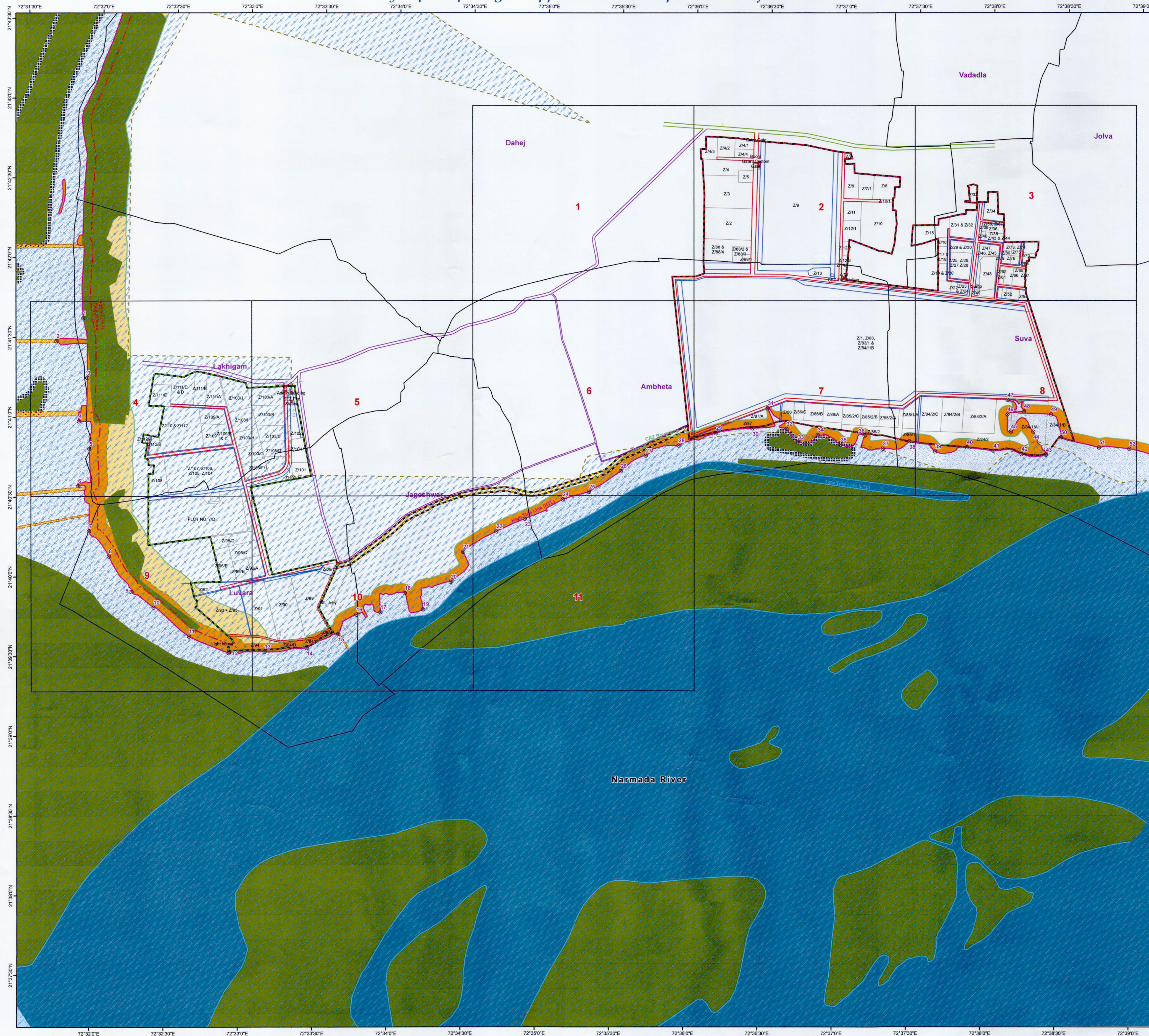
➤ DSL CRZ MAP

DAHEJ SEZ DEVELOPMENT PLAN



Preparation of Local Level CRZ Map for the Project Site of M/s. Dahej SEZ Limited, Dahej, Bharuch district, Gujarat
by Superimposing on Approved CZMP as per CRZ Notification 2011

INDEX MAP

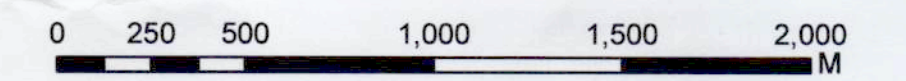


- LEGEND**
- SOURCE : APPROVED CZMP (MAP NO : GJ 84 & 85)
AS PER CRZ NOTIFICATION 2011**
- LOW TIDE LINE (LTL)
 - HIGH TIDE LINE (HTL)
 - 100m LINE IN CRZ - III AREA
 - 200m CRZ LINE - NDZ
 - CRZ BOUNDARY (50m FOR SEA, 100m FOR BAY, 100m OR WIDTH OF THE CREEK WHICHEVER IS LESS ALONG THE TIDAL INFLUENCED WATER BODIES)
 - VILLAGE BOUNDARY
 - EXISTING JETTY
 - PORT LIMIT
 - CRZ - IA
 - CRZ - IA (50m MANGROVE BUFFER ZONE)
 - CRZ - IB
 - CRZ - III (NO DEVELOPMENT ZONE)
 - CRZ - III (200m TO 500m FROM HTL)
 - CRZ - IVB
 - HTL REFERENCE POINT
- SOURCE : CLIENT (EXISTING PROJECT DETAILS)**
- PROJECT SITE BOUNDARY CORNER (GPS SURVEY POINT IDENTIFIED BY THE CLIENT)
 - EXISTING DETAILS
 - UTILITY CORRIDOR / SERVICE CORRIDOR
 - SEZ ROAD
 - GIDC ROAD
 - STATE HIGHWAY NO.6
 - PLOT BOUNDARY
 - DEDICATED CORRIDOR
 - SEZ PART - 1 BOUNDARY
 - SEZ PART - 2 BOUNDARY

Note:

- Coastal Regulation Zone Map of the site is prepared considering Approved CZMP as per CRZ Notification 2011 of MoEF, GoI
- Superimposition of Approved CZMP is subject to scale and generalisation error
- The map comes with a report wherein description of CRZ zonation of project layout details are given. This map is to be referenced and used along with the report bearing the same reference no: AU/IRS/SSR/43-2021 DT. 07.07.2021
- The DGPS Survey was carried out specific to the referred project site boundary only hence, validation of HTL and CRZ Boundary is limited to the clearance of the same. Institute of Remote Sensing do not carry responsibility for CRZ status of other plots or neighbourhood.

SCALE 1 : 20,000



PREPARED BY
**INSTITUTE OF REMOTE SENSING
ANNA UNIVERSITY
CHENNAI - 600 025**

REF NO. AU/IRS/SSR/43-2021 DT. 07.07.2021

FOR
**M/S. DAHEJ SEZ LIMITED
BLOCK NO. 14, 3RD FLOOR
UDYOG BHAVAN, SECTOR - 11
GANDHINAGAR - 382 017, GUJARAT**

| | |
|-------------|--|
| PREPARED BY | |
| VERIFIED BY | |
| APPROVED BY | |

Prof. D. Thirumalaivasan, B.E.Tech.Ph.D.,
Director
Institute of Remote Sensing
Anna University, Chennai-600 025.

Map No. 8-22
Date 14-8-22
BCL, Gandhinagar
Map Set-1
12 to 12

Annexure-III

- Copy of CRZ clearance for the area falling under CRZ with its compliance.
- CRZ compliance report.

COMPLIANCE REPORT OF CRZ CLEARANCE

For

**Conditions of Clearance under the CRZ notification, 1991 for
Development of SEZ for industrial Plots.**

(CRZ Clearance. Letter No. F.No.11-50/2011-IA.III Dated 19-09-2014)

(For the Period of: to April'2023 to September'2023)

Of

M/s. Dahej SEZ Ltd.
(Joint Venture of GIDC & ONGC)

Located At:

Village-Dahej, Taluka - Vagra District-Bharuch,

Registered Office:

Dahej SEZ Ltd.
Block no. 14th, 3rd Floor, Udyog Bhavan,
Gandhinagar-382017, Gujarat

F.No.11-50/2011-IA.III
Government of India
Ministry of Environment, Forests & Climate Change
(IA-III Section)

Vayu Wing, 3rd Floor,
Indira Paryavaran Bhawan,
Jor Bag Road, Aliganj,
New Delhi - 110 003

Dated: 19th September, 2014

To
The Chief Executive Officer,
M/s Dahej SEZ Ltd.,
Block No.14, 3rd Floor,
Udyog Bhawan, Sector-11,
Gandhinagar - 382 017, Gujarat

Contact Person Details:

Shri S. N. Patil,
Fax: 079-23241736
Phone: +91-7923241590-65721608
Email: ceo@dahejsez.com, ceodsl6@yahoo.in

Subject: CRZ Clearance for laying of roads and other facilities for the SEZ at Dahej, Taluka Vagra, Dist. Bharuch, Gujarat by M/s Dahej SEZ Ltd.
- Reg.

This has reference to your letter No: DSL/MoEF/CRZ-Clea5rance/1949 dated 15.06.2011 and subsequent letters dated 07.12.2013 and 13.02.2014 seeking prior CRZ Clearance for the above project under the Coastal Regulation Zone Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the CRZ Notification, 2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendation of State Coastal Zone Management Authority, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 21st-23rd September, 2011, 16th -17th April, 2012, 22nd - 24th January, 2014 and 21st - 22nd March, 2014.

2. It is inter-alia noted that the proposal involves laying of roads and other facilities for the SEZ at Dahej, Taluka Vagra, Dist. Bharuch, Gujarat. M/s Dahej SEZ Ltd. is developing SEZ in the area of 1803 ha near village Dahej, Gujarat. The SEZ is divided into Part-I and Part-II. Both are connected by a dedicated corridor of 35/45 mtrs width and 5 km long. Environmental Clearance (EC) for non CRZ area of SEZ was issued by the Ministry of Environment & Forests on 17.03.2010.

3. The present proposal involves providing essential infrastructure facilities like road, water supply, drainage, power supply etc. In Part-I of SEZ, 1.4 km of road, 2.8 km of storm water drainage, 1.4 km water distribution pipeline, 1.4 km drainage pipeline and 1.4 km power line and in Part-II of SEZ, a road of 1.8 km fall within CRZ area.

Inward No. 7756

Date 29/9/14



AM/SEM
Disposal. Adv. to be published.
Sept 2014
pl - spk

4. HTL/LTL demarcation was got prepared from the Institute of Remote Sensing (IRS), Anna University, Chennai. According to the map about 304.85 acres falls within CRZ area. The Gujarat State Coastal Zone Management Authority has recommended the project vide letter No. ENV-10-2010-669-E dated 15.12.2011.

5. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the issue of CRZ Clearance for the project. Accordingly, the Ministry hereby accords necessary CRZ Clearance for the above project as per the provisions of CRZ Notification, 2011 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

A. Specific Conditions:

- (i) There shall be no allotment of plot in 304.85 acres of CRZ area to industries except for port and harbour or any activity requiring foreshore facilities. Such port and harbour projects shall obtain prior approval under EIA Notification, 2006 and CRZ Notification, 2011, as applicable.
- (ii) There shall be no water logging due to the proposed roads.
- (iii) The runoff from SEZ shall be collected and taken to ETP.
- (iv) All the conditions/recommendations stipulated in Environmental Clearance (EC) issued by Ministry of Environment & Forests for non CRZ area of SEZ vide letter no. 21-1084/2007-IA-III dated 17.03.2010, shall be strictly complied with.
- (v) All the conditions/recommendations stipulated by Gujarat State Coastal Zone Management Authority vide their letter No. ENV-10-2010-669-E dated 15.12.2011 shall be strictly complied with.
- (vi) All the recommendation of the EIA/EMP and DMP shall be strictly complied with.

B. General Conditions:


- (i) The construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and Central rules and regulations including the provisions of Coastal Regulation Zone Notification, 2011 and the approved Coastal Zone Management Plan of Gujarat.
- (ii) In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment, Forests & Climate Change.
- (iii) This Ministry reserves the right to revoke this clearance, if any, of the conditions stipulated are not complied with to the satisfaction of this Ministry.

- (iv) This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
 - (v) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the offices of the Central and Gujarat State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
6. 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 Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.
7. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department from height point of view, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
8. The project proponent should 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 CRZ Clearance and copies of clearance letters are available with the Gujarat State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bhopal.
9. 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.
10. 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.
11. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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.
12. 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 criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as

stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.


13. 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.

14. The environmental statement for each financial year ending 31st 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 Offices of MoEF&CC by e-mail.


(Lalit Kapur)
Director (IA-III)

Copy to:

1. The Principal Secretary, Department of Forests & Environment and Chairman, GCZMA, Govt. of Gujarat, Sachivalaya, Gandhinagar.
2. The Director, Forests & Environment Department, Govt. of Gujarat, Block No.14, 8th Floor, Sachivalaya, Gandhinagar – 382 010.
3. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhinagar-382 010.
5. The Chief Conservator of Forests, Ministry of Environment, Forests & Climate Change, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bhopal-462016 (M.P.)
6. Guard File.
7. Monitoring Cell, MoEF&CC.


(Lalit Kapur)
Director (IA-III)

M/s. DAHEJ SEZ LTD.

CRZ Clearance Compliance report: Period (April'2023 to September '2023)

| SR. NO. | SPECIFIC CONDITION | COMPLIANCE STATUS |
|----------------|--|---|
| I. | There shall be no allotment of plot in 304.85 acres of CRZ area to industries except for port and harbor or any activity requiring foreshore facilities. Such port and harbor projects shall obtain prior approval under EIA notification, 2006 and CRZ notification, 2011. As applicable. | DSL will not allot the plot in 304.85 acres of CRZ area to industries except for port and harbour without obtaining prior approval under EIA notification, 2006 and CRZ notification, 2011. As applicable. |
| II. | There shall no water logging due to the proposed roads. | DSL has provided the proper drainage system in both sides of the roads to prevent water logging. |
| III. | The runoff from SEZ shall be collected and taken to ETP. | DSL does not have ETP and hence this condition is not applicable. DSL has provided the proper drainage system for collection of run off and taken into to collection points. |
| IV. | All the conditions/recommendations stipulated in Environmental Clearance (EC) issued by Ministry of Environmental & forest for non CRZ area of SEZ vide letter no. 21-1084/2007-IA-III dated 17.03.2010, shall be strictly complied with. | DSL is complying with conditions stipulated in EC vide letter no. 21-1084/2007-IA-III dated 17.03.2010 and submitting EC compliance report regularly to concern authorities. |
| V. | All the conditions/recommendations stipulated by Gujarat State Coastal Zone Management Authority vide their letter No. ENV-10-2010-669-E dated 15.12.2011 shall be strictly complied with. | DSL was complied with condition stipulated by Gujarat State Coastal Zone Management Authority vide their letter No. ENV-10-2010-669-E dated 15.12.2011. |
| VI. | All the recommendation of the EIA/EMP and DMP shall be strictly complied with. | DSL will comply all the recommendation of the EIA/EMP and DMP. |
| SR. NO. | GENERAL CONDITIONS | COMPLAINCE STATUS |
| I. | The construction of the structure should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and central rules and regulations including the provisions of coastal Regulation Zone Notification, 2011 and the approved Coastal Zone management Plan of Gujarat. | The construction of the structure is undertaken as per GDCR, meticulously conforming to the existing local and central rules and regulations including the provisions of coastal Regulation Zone Notification, 2011 and the approved Coastal Zone management Plan of Gujarat. |

M/s. DAHEJ SEZ LTD.

CRZ Clearance Compliance report: Period (April'2023 to September '2023)

| | | |
|------|--|---|
| II. | In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment, Forests & Climate Change. | DSL has taken note of this condition and shall comply with this condition as and when required. |
| III. | This ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry. | DSL has taken note of this condition and shall comply with this condition as and where applicable. |
| IV. | This ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with. | DSL has taken note of this condition and shall comply with this condition as and when required. |
| V. | Full support should be extended to the officers of this ministry's regional office at Bhopal and the offices of the central and Gujarat State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities. | DSL shall extend full support to the officers of the Ministry's Regional office at Bhopal and the officers of Central and GPCB during their inspection for monitoring purposes. |

For, **DSL SEZ Ltd.**

(Chief Executive Officer)

Annexure-IV

- List of Allottees.

LIST OF ALLOTTEES OF PLOT IN DAHEJ SEZ

Part –I Processing Area

| Sr. No. | Name & Address | Plot No. | Area (in hecets) * Tent. |
|---------|--|----------------------------------|--------------------------|
| 1 | ONGC Petro additions Ltd. (OPaL) | Z/1 Z/83 | 503 |
| 1-A | | Z/83/1 | 5.4 |
| 1-B | | Z/84/1/B & Road-Corridor area | 21.5 |
| 2 | Pidilite Industries Ltd. | Z/2 | 20.15 |
| 3 | DIC Fine Chemicals Pvt. Ltd. | Z/3 | 20.13 |
| 4 | Neesa Infrastructure Ltd. | Z/88/3 | 1.87 |
| 4-A | Neesa Infrastructure Ltd. | Z/88/2 | 1.19 |
| 5 | Indofil Industries Limited (Dahej SEZ Unit) | Z/8 | 6.26 |
| 6 | Firmenich Aromatics Production (India) Pvt. Ltd. | Z/10 | 21.91 |
| 7 | Glomet Technologies Pvt. Ltd. | Z/22 | 0.93 |
| 8 | Meghmani Industries Ltd. | Z/6 | 7.57 |
| | | Z/10/1 | 0.32 |
| 9 | Sarju Impex Limited | Z/13 | 2.62 |
| 10 | Meghmani Organics Ltd. | Z/31 Z/32 | 8.71 |
| 11 | Meghmani Unichem Limited Liability Partnership | Z/34 | 5.39 |
| 12 | Panama Petrochem Ltd. | Z/23 Z/24 | 1.62 |
| 13 | Torrent Energy Ltd.(DGEN) | Z/9 | 110.72 |
| 14 | Torrent Power Ltd. | Z/21 | 1.81 |
| 15 | Sigachi Industries Pvt. Ltd. | Z/16 | 1.08 |
| 16 | P&J Cretechem (P) Ltd. | Z/17 Z/18 | 2.07 |
| 17 | Ramdev Chemical Industries | Z/19 Z/20 | 2 |
| 18 | Gujarat Dyestuff Industries | Z/25 Z/26 Z/27 Z/28 | 7.44 |
| 19 | Sun Pharmaceutical Industries Ltd. | Z/15 | 8.93 |
| 20 | CS Performance Chemicals Pvt. Ltd. | Z/33 | 2.06 |
| 20-A | CS Performance Chemicals Pvt. Ltd. | Z/76 Z/77 | 1 |
| 21 | Roxul Rockwool Insulation India Pvt. Ltd. | Z/4 | 9.42 |
| 22 | Aries Colorchem Pvt. Ltd. | Z/29 Z/30 | 3.49 |
| 23 | Gujarat State Petronet Limited | Z/7 | 0.55 |
| 24 | Breeze Intermediates Pvt. Limited | Z/39 | 0.5 |
| 25 | Bharat Sanchar Nigam Limited | Part of Plot from Z/14/1 | 0.03 |
| 26 | Shiva Pharma Chem Limited | Z/88 Z/88/4 | 11.04 |
| 27 | Thema Nutriment & Packaging Pvt. Ltd. | Z/73 Z/74 Z/75 | 1.65 |

| | | | |
|--------------------------------|--|--|---------------|
| | Plot transferred from Neobags Overseas Pvt. Limited | | |
| 28 | APPL Industries Ltd. | Z/45 Z/46 Z/47 | 3.17 |
| 29 | Euclid Constructions Limited | Z/68 | 0.27 |
| 30 | Fernas Construction India Pvt. Ltd. | Z/55 | 1.16 |
| 31 | Indo Baijin Chemicals Pvt. Ltd. | Z/7/1 | 5 |
| 32 | Indofil Industries Ltd. | Z/12/1 | 5.02 |
| 33 | Bitumode International Pvt. Ltd (Now Arham biochem Pvt. Ltd.) | Z/43 Z/44 | 1.25 |
| 34 | Kumar Organic Products Ltd. (Avalon Agro Products Pvt. Ltd). | Z/35 Z/36 Z/37 Z/38 | 2.12 |
| 35 | Accent Microcell Pvt. Ltd. | Z/59 Z/60 Z/63 Z/64 | 2 |
| 36 | Unique Techno Associates Pvt. Ltd. | Z/41 Z/42 | 1 |
| 37 | Babaji Shivram Clearing & Carriers Pvt. Ltd. | Z/70 | 0.7 |
| 38 | Mascon Color Chem Pvt. Ltd. | Z/12/2 | 1.29 |
| 39 | Palvi Power Tech Sales Pvt. Ltd. (Take over by Camlin) | Z/78 Z/79 | 1 |
| 40 | Astra Specialty Compounds India Pvt. Ltd. | Z/56 Z/57 Z/58 Z/65 Z/66 Z/67 | 2.96 |
| 41 | Prakash Chemicals International Pvt. Ltd. | Z/53 Z/54 | 1.25 |
| 42 | Annie Chemie Pvt. Ltd. | Z/40 | 0.5 |
| 43 | Ana Industries Pvt. Ltd. | Z/88/1 | 1.02 |
| 44 | Axiom Chemicals Pvt. Ltd. | Z/80 | 0.5 |
| 45 | Mahadi Organics Pvt. Ltd. (Under process of cancellation) | Z51 & Z/52 | 1.25 |
| 46 | Soft Rainbow Pvt. Ltd. | Z/71 & Z/72 | 2.2 |
| 47 | CS Specialty Chemicals Ltd. | Z/81 & Z/82 | 0.98 |
| 48 | Vidhi Specialty Food Ingredients Ltd | Z/61 & Z/62 | 1.00 |
| 49 | Insecticides (India) Ltd. | Z/50 | 0.63 |
| 50 | Agro life Sciences Limited | Z/86/C | 2.5 |
| 51 | M/s. Sigachi Industries Ltd | Z/85/1/A | 8.00 |
| 52 | Fame bio fuel | Z/87/A | 1.80 |
| 53 | steam house | Z/85/2/A/1 | 2.00 |
| | Sub-Total (A) | | 842.93 |
| Part-II Processing Area | | | |
| 1 | Oil and Natural Gas Corporation Ltd. C2-C3 Plant – Dahej | 7-D | 59.8 |
| 2 | Godrej & Boyce Mfg. Co. Ltd. | Z/90 & Z/91 | 22.48 |
| 2-A | | | 18.71 |
| 3 | ISGEC Heavy Engineering Ltd. | Z/89 | 22.51 |
| 4 | Rallis India Ltd. | Z/110 | 8.31 |
| 4A | | Z/112 | 15.54 |
| 5 | Torrent Power Ltd. | Z/101/1 | 4.71 |
| 6 | Torrent Pharmaceuticals Ltd. | Z/104, Z/105, Z/106 | 27.57 |
| | | Z/107 | 9.84 |
| 7 | Fermenta Biotech Ltd. | Z/109/B Z/109/C | 3.06 |

| | | | |
|---------------------------------------|--|---------------------------|----------------|
| | | | |
| 8 | Gujarat State Petronet Limited | Z/112/A | 0.6 |
| 9 | Coromandal International Ltd. | Z/103/G | 5.16 |
| 10 | Bharat Sanchar Nigam Limited | Part of Plot from Z/100/1 | 0.07 |
| 11 | Hindusthan M-I Swaco Limited | Z/109/A | 5.43 |
| 12 | Glenmark Life Sciences | Z/103/I | 6.71 |
| 13 | Tega Industries Ltd. | Z/103/J | 9.87 |
| 14 | Tatva Chintan Pharma Chem Pvt. Ltd. | Z/103/F/I | 2 |
| | | Z/103/F/2 | 3.17 |
| 15 | Benzo Chem Industries Pvt. Ltd. | Z/103/D | 4.76 |
| 16 | Aarti Industries Ltd. | Z/103/H | 5.01 |
| 17 | Ajanta Pharma Limited | Z/103/A | 8.5 |
| 18 | RAKS Pharma Pvt. Ltd. | Z/111/A | 6.72 |
| 19 | Holtec Asia Pvt. Ltd. | Z/103/E | 3.67 |
| 20 | Milan Laboratories (I) Pvt. Ltd. | Z/96/A | 3.76 |
| 21 | Dorf Ketel (I) Pvt. Ltd. | Z/108 | 8.65 |
| 22 | Thermax Ltd. | Z/96/C | 6 |
| 23 | Neogen Chemicals Ltd. | Z/109 | 4.98 |
| 24 | Yashashvi Rasayan Pvt. Ltd. | Z/96/E | 7.11 |
| 25 | Camlin fine Sciences Ltd | Z/96/D | 6.75 |
| 26 | HLE Engineers Pvt. Ltd. | Z/96/B | 4.35 |
| 27 | Powerband Ind. Pvt. Ltd. | Z/103/B | 8.2 |
| 28 | Trustin Tape Pvt. Ltd. | Z/111/E | 5.98 |
| 29 | Hema Dyechem Pvt. Ltd. | Z/112/B | 1.98 |
| 30 | Aarti Industries. Ltd. | Z/111/C & Z/111/D | 11.5 |
| 31 | Aarti Industries. Ltd. | Z/103/C | 5.47 |
| 32 | Roha Dyechem Pvt Ltd. | Z/101 | 3.57 |
| 33 | Aarti Industries. Ltd. | Z/111/B | 5.34 |
| | Sub Total (B) | | 337.84 |
| Part-III – Non-Processing Area | | | |
| 1 | Sapthagiri Hospitality Pvt. Ltd. | Z/4/3 | 4.1 |
| 2 | Shrikunj Hospitality Pvt. Ltd. (Taken Over from Cambay SEZ Hotels Pvt. Ltd.) | Z/4/1 | 2.63 |
| 3 | ISGEC Heavy Engineering Ltd. | Z/94/C | 0.61 |
| 4 | Godrej & Boyce Mfg. Co. Ltd. | Z/94/D | 0.83 |
| | Sub Total (C) | | 8.17 |
| | Grand Total (A + B + C) | | 1188.94 |

Annexure-V

- **Copy of Comprehensive Monitoring Report Of (April'2023 To September'2023)**

“HALF YEARLY ENVIRONMENTAL MONITORING REPORT”

Period: April: 2023 to September: 2023



Dahej SEZ Ltd.

FOR

M/s. Dahej SEZ Ltd. (SEZ Developer)



At

Dahej SEZ Part – I & II

**At & Post: Dahej, Taluka – Vagra,
Dist. Bharuch – 392 140, Gujarat**

Monitoring Organization



White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195, Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

QCI-NABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-11)

ISO 9001 : 2015
Certified Company

ISO 45001 : 2018
Certified Company

❖ DECLARATION

This report is based on completion of the Half Yearly Environmental Monitoring and subsequent laboratory analysis of the samples collected by M/s.UniStar Environment and Research Labs Pvt. Ltd for “M/s. Dahej SEZ Ltd. (SEZ Developer), Dahej Bharuch – 392130.” for the month of April-2023 to September-2023. Analysis is done using Standard Methodology and Instruments with valid calibration status.

Date: 11.11.2023

For M/s. UniStar Environment and Research Labs Pvt. Ltd



Authorized Signatory

Place: Vapi



❖ INTRODUCTION

M/s. Dahej SEZ Limited (DSL) is a company registered under the companies act, 1956 and is promoted jointly by Gujarat industrial development corporation (GIDC) and Oil & Natural Gas Corporation (ONGC) for development of Special Economic Zone (SEZ). DSL is developing a Multi-Product SEZ at Dahej in Vagra Taluka of Bharuch district in Gujarat, India.

Dahej SEZ is located in Vagra Taluka of western part of Bharuch District, Gujarat, India. It is well connected with National Highway (NH-8). Road and Railway both are having the connectivity to New Delhi, the National Capital and Mumbai, the commercial Capital of India. SEZ is a part of Dahej Petroleum, Chemicals and Petrochemicals Investment Region (PCPIR) and is within Delhi-Mumbai Investment Corridor (DMIC).

M/s. Dahej SEZ Ltd. has already obtained all the necessary environmental approvals from the statutory authorities. Details of the same are as below:

| Sr. No. | Type of permission | Order No. or Letter No. | Remarks |
|---------|--------------------------------|---|---|
| 1. | Environment Clearance | Letter No. 21-1084/2007.IA.III | Date of issue: 17.03.2010 |
| 2. | CRZ Clearance | Letter No. F. No. 11-50/2011.IA.III | Date of issue: 19.09.2014 |
| 3. | Consent to Establish (CTE/NOC) | Letter No. GPCB/BRCH/NOC-3633/27240 | Date of issue: 22.09.2008 |
| 4. | Consent to Operate (CTO/CC&A) | Order No. AWH-104709 | Date of issue: 22.10.2019, valid up to 04.08.2024 |
| | | Letter No. GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 | Dated 21.01.2020, valid up to 04.08.2024 |

| | | |
|---|--|---|
|  | Half Yearly Environmental Quality Monitoring Report |  Dahej SEZ Ltd. |
| DSL/2023/02 | M/s. Dahej SEZ Ltd. (SEZ Developer) | April-23 to Sept-23 |

Environmental Monitoring was carried out as per the scope of work is given on workorder and tender documents. (P.O No: DSL/Agency/Environment/Compliance/945/2675 Dt: 12.08.2021)

Ambient Air Quality Monitoring was conducted. Sampling and analysis for ambient air at specified locations performed; based on the methodology specified in National Ambient Air Quality Standards by Ministry of Environment and Forest Government of India.

Ground Water samples were collected from bore well water location nearby villages during the monitoring period. Sampling and analysis for ground water was carried out as per the procedure specified in APHA (23rd Edition) and Codes as per the Bureau of Indian standard.”

The equipment’s used for sampling and analysis are calibrated and certified as per NABL requirements with NIST traceability as per ISO/IEC 17025:2017.

M/s.UniStar Environment and Research Labs Pvt. is recognized by Ministry of Environment & Forest Government of India New Delhi under the EPA- article 12 A. along with the recognition as Environmental Auditors; under the Honorable High Court; Gujarat Orders.

Laboratory set up is having international recognition from NABL (National Accreditation Board for Laboratories) under the ministry of Science & Technology as per ISO/IEC 17025:2017 for the Environmental / Air / Solid-Hazardous Waste etc. (Detailed scope is available on NABL web site).

❖ ENVIRONMENTAL MONITORING PLAN

| Sr. No. | Environmental Component | Parameters | Location | Frequency |
|---------|--|---|----------|------------------------|
| 1. | Micro Meteorological Monitoring | Wind rose, Wind Pattern, Wind speed, Wind direction, Rainfall, Temperature, Relative Humidity | 01 | Daily on hourly basis. |
| 2. | Ambient Air Quality Monitoring | Particulate Matter as PM ₁₀ , Particulate Matter as PM _{2.5} , Oxides of Sulphur as SO ₂ , Oxides of Nitrogen as NO ₂ , Carbon monoxide as CO and Volatile Organic Compound as VOCs | 03 | Twice in Week |
| 3. | Noise Quality Monitoring | Noise level monitoring in dB(A) for 24 hours | 04 | Monthly |
| 4. | Surface Water monitoring | pH, temperature, Colour and odor, TDS, Alkalinity, Chlorides, Sulphates, Nitrates, Phenolic compound, Residual Chlorine Turbidity | 03 | Monthly |
| 5. | Ground Water Monitoring | pH, temperature, Colour and odor, TDS, Alkalinity, Chlorides, Sulphates, Nitrates, Phenolic compound, Residual Chlorine Turbidity | 03 | Monthly |
| 6. | Marine Water analysis | pH, Dissolved Oxygen, Colour & odor, Floating matter, Suspended solids, Oil & Grease (including phenolic compounds), Heavy Metals, Mercury (as Hg), Lead (as Pb), Cadmium (as Cd), Turbidity, Bio-Chemical Oxygen Demand, BOD (3 days at 27°C), Fecal Coliform, Dissolved Manganese (as Mn) | 02 | Monthly |

| Sr. No. | Environmental Component | Parameters | Location | Frequency |
|---------|------------------------------|--|----------|-----------|
| 7. | Waste Water Analysis | Colour and odor, Suspended, solids, Dissolved solids (Inorganic), pH value, Temperature °C, Oil & Grease, Total Residual chlorine, Ammonical Nitrogen (as N), Total kjeldal Nitrogen as (NH ₃), Free Ammonia (as NH ₃), Biochemical Oxygen Demand (5 days at 20°C), BOD, Chemical Oxygen demand (COD), Arsenic (as As),Mercury (as Hg), Lead (as pb),Cadmium (as Cd), Hexavalent Chromium (as Cr ⁺⁶), Copper as (Cu), Zinc (as Zn), Selenium (as Se),Nickel (as Ni), Cyanide (as CN), Fluoride (as F), Dissolved Phosphate (as PO ₄), Sulphate (as SO ₄), Sulphate (as S), Pesticides, Phenolic compound (as C ₆ H ₅ OH),Bio Assay test (90% survival of Fish after 96 hours in 100% effluent) | 120 | Monthly |
| 8. | Solid Sample Analysis | Priority Metals: Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, T, Zn, Hg, Volatile Organic Compounds as VOCs inclusive of poly Aromatic Hydrocarbon (PNA, PAH), Total polychlorinated biphenyl (PCB) and Total Petroleum hydrocarbons (TPH) etc. | 04 | Quarterly |

| | | |
|---|--|---|
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❖ MONITORING LOCATION

➤ Micro Meteorological Monitoring:

| Sr. No. | Location/Station Name | Station Code | Coordinates (Deg. Deci.) |
|---------|-----------------------|--------------|-----------------------------------|
| 1. | SEZ-I Area | WMS-1 | Lat. 21.6947° N, long. 72.6347° E |

➤ Ambient Air Quality Monitoring

| Sr. No. | Location/Station Name | Station Code | Coordinates (Deg. Deci.) |
|---------|--------------------------|--------------|----------------------------------|
| 1. | SEZ-I Admin Building | AAQM - 1 | Lat. 21.69470, Long. 72.63470 |
| 2. | SEZ -I, At Fire Station | AAQM - 2 | Lat. 21. 4121 N, long. 72.3672 E |
| 3. | SEZ – II, Admin Building | AAQM - 3 | Lat. 21. 4121 N, long. 72.3325 E |

➤ Noise Quality Monitoring

| Sr. No. | Location/Station Name | Station Code | Coordinates (Deg. Deci.) |
|---------|---------------------------------|--------------|---------------------------------------|
| 1. | SEZ – I, Fire Station | NM - 1 | Lat. 21. 4121 N, long. 72.3672 E |
| 2. | SEZ – II, Admin Office | NM-2 | Lat. 21. 4121 N, long. 72.3325 |
| 3. | SEZ-I, Admin Office | NM-3 | Lat. 21.69470, Long. 72.63470 |
| 4. | SEZ-I, GIDC Pumping Station - C | NM-4 | Lat. 21°41'54.5"N, Long. 72°35'52.7"E |

➤ Waste Water Quality Analysis

| Sr. No. | Location/Station Name | Station Code | Coordinates (Deg. Deci.) |
|---------|-----------------------|--------------|---------------------------------------|
| 1. | Pumping Station-D | WW-1 | Lat. 21°39'58.4"N, Long. 72°32'55.4"E |
| 2. | Pumping Station-C | WW-2 | Lat. 21°41'54.5"N, Long. 72°35'52.7"E |

1.0 METEOROLOGICAL MONITORING REPORT



Period: April: 2023 to September: 2023

FOR



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1.1 METEOROLOGY

Meteorology was measured by installing the micrometeorology station at SEZ-I Area. The data was recorded for 24 hrs. a day for the entire month for wind speed, wind direction, temperature, Relative Humidity and Rainfall. The meteorological data recorded from 01st April-2023 – 30th September -2023 is presented in this report.

1.2 METEOROLOGICAL DATA RECORDED AT THE SEZ-I AREA

The meteorological data generated during the study period (01st April-2023 – 30th September -2023) is summarized and tabulated in Table-1.

TABLE-1: SUMMARY OF METEOROLOGICAL DATA RECORDED AT SEZ-I AREA

| Period | Temperature(°C) | | Relative Humidity (%) | | Rainfall Max. (mm) |
|----------------|-----------------|-------------|-----------------------|-------------|--------------------|
| | Max | Min | Max | Min | |
| April-2023 | 40.9 | 22.5 | 95.0 | 21.0 | 0.9 |
| May-2023 | 43.0 | 24.4 | 93.0 | 26.0 | 0.0 |
| June-2023 | 37.7 | 25.3 | 96.0 | 46.0 | 0.0 |
| July-2023 | 34.6 | 21.8 | 97.0 | 69.0 | 68.1 |
| August-2023 | 33.3 | 25.0 | 96.0 | 67.0 | 5.1 |
| September-2023 | 36.5 | 24.5 | 96.0 | 51.0 | 30.3 |
| Average | 37.7 | 23.9 | 95.5 | 46.7 | 17.4 |

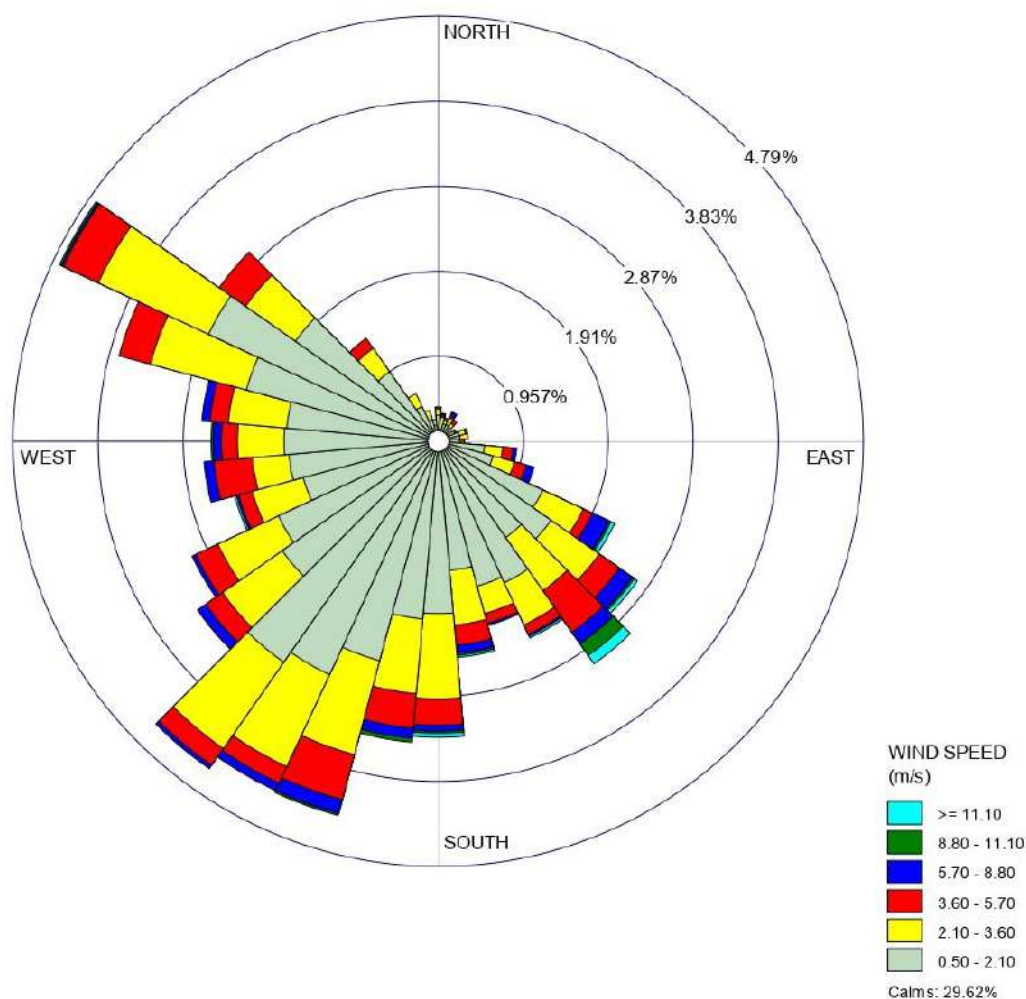
1.3 WIND SPEED/DIRECTION

The wind speed and direction data generated at site is summarized in Table-2. Taking into account the predominant wind directions. The wind rose for the study period based on 24 hours monitoring data is given in Figure-3.

TABLE-2: SUMMARY OF SITE-SPECIFIC WIND PATTERN

| Period | First Predominant Winds | Second Predominant Winds | % Calm Condition | Predominant Wind Speed |
|--|-------------------------|--------------------------|------------------|------------------------|
| 01 st April-2023 – 30 th September -2023 | >0.957 % (WS) | <1.91% (WS) | 29.32 % | >11.10 (m/s) |

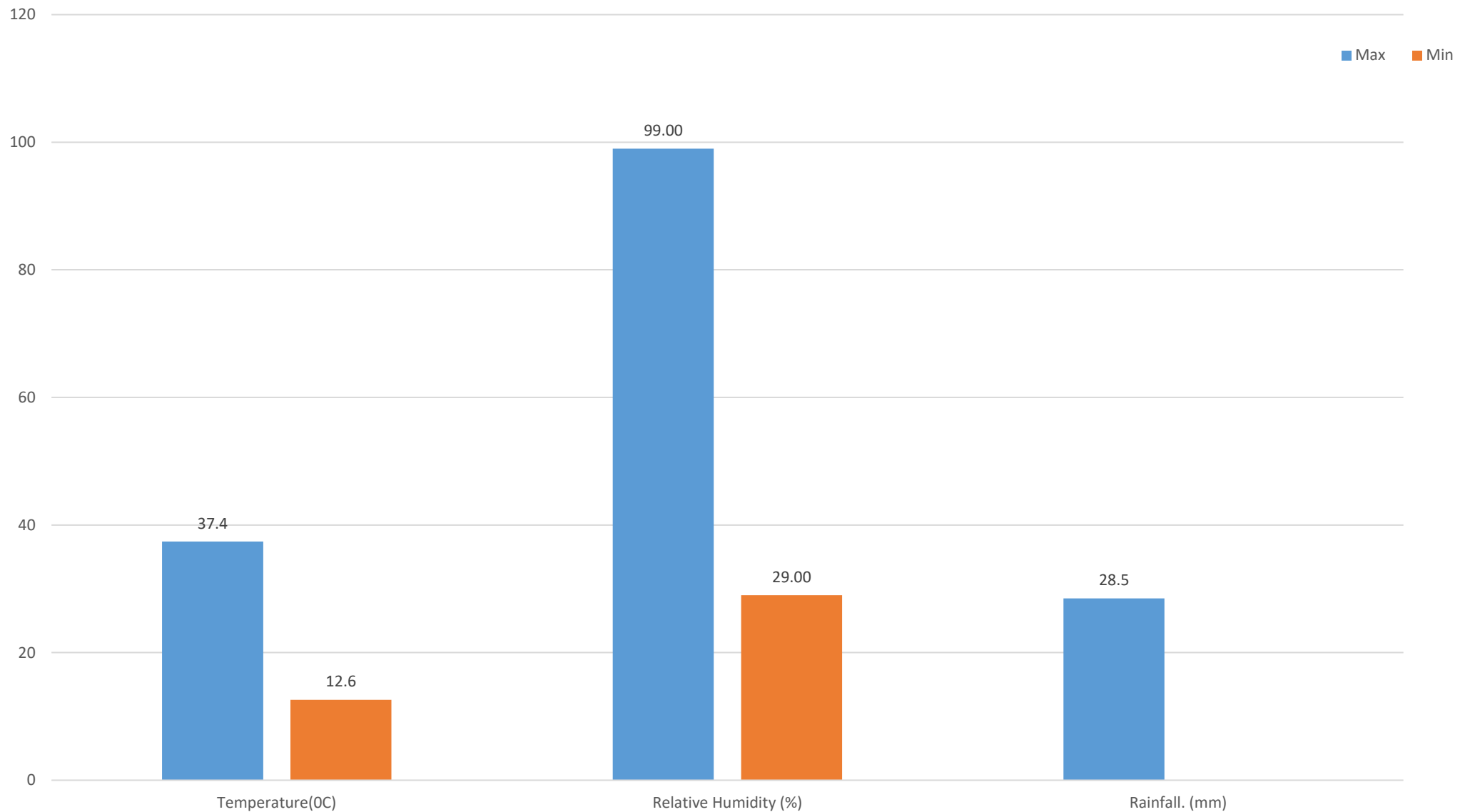
FIGURE: SITE SPECIFIC WINDROSE FORM 01st April-2023 – 30th September -2023



Graphical Presentation of Weather Monitoring Data

For M/s. Dahej SEZ Ltd. (SEZ Developer)

By – UniStar Environment and Research Labs Pvt. Ltd.



2.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: April: 2023 to September: 2023

FOR



Dahej SEZ Ltd.

M/s. Dahej SEZ Ltd. (SEZ Developer)

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2.1 DETAILS OF SAMPLING AND ANALYSIS METHODS:

| Sr. No. | Parameters | Unit | Methodology | Limit As Per CPCB Volume-I | Permissible Limit as Per CCA |
|---------|---|-------------------|------------------|----------------------------|------------------------------|
| 1 | Particulate Matter (PM ₁₀) | µg/m ³ | IS:5182(Part-23) | 100 | 100 |
| 2 | Particulate Matter (PM _{2.5}) | µg/m ³ | CPCB Volume-I | 60 | 60 |
| 3 | Sulphur Dioxide (SO ₂) | µg/m ³ | IS:5182(Part-2) | 80 | 80 |
| 4 | Oxides of Nitrogen (NO ₂) | µg/m ³ | IS:5182(Part-6) | 80 | 80 |
| 8 | Carbon Monoxide as (CO) | mg/m ³ | IS:5182(Part-10) | 2.0 | 5.0 |

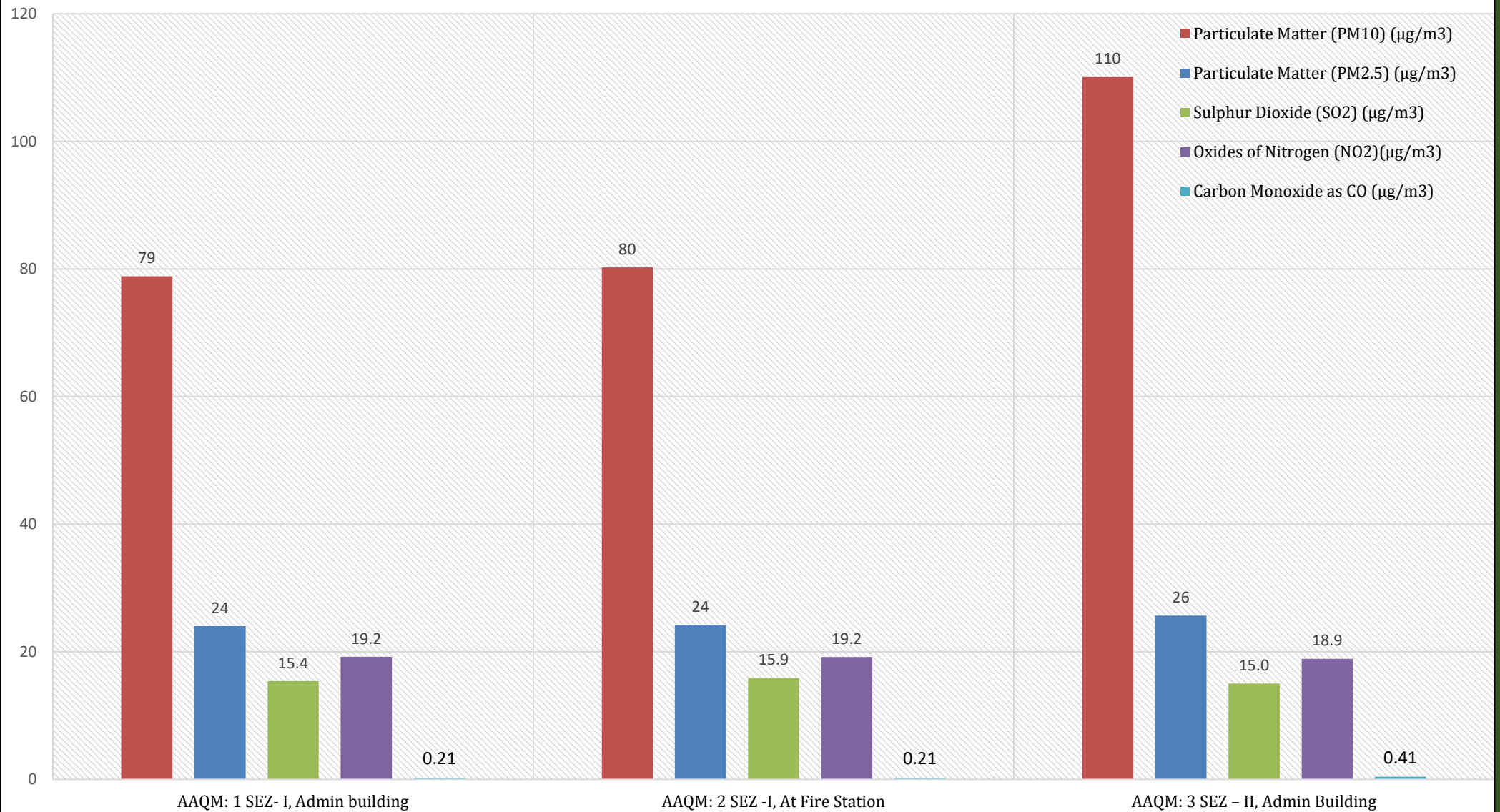
2.2 SUMMARY OF AMBIENT AIR QUALITY RESULTS DURING THE MONTH OF 01st April-2023 – 30th September -2023

| AAQM: 1 SEZ- I, Admin building | | | | | |
|----------------------------------|--|---|---|---|----------------------------|
| Parameters | PM ₁₀ (µg/m ³) | PM _{2.5} (µg/m ³) | SO ₂ (µg/m ³) | NO ₂ (µg/m ³) | CO (mg/m ³) |
| NAAQ Limit | 100 | 60 | 80 | 80 | 2.0 |
| Max | 86 | 28 | 18.0 | 22.0 | 0.27 |
| Min | 72 | 20 | 12.8 | 16.4 | 0.14 |
| Avg. | 79 | 24 | 15.4 | 19.2 | 0.21 |
| AAQM: 2 SEZ -I, At Fire Station | | | | | |
| Max | 87 | 28 | 18.8 | 21.8 | 0.26 |
| Min | 73 | 21 | 13.0 | 16.5 | 0.16 |
| Avg. | 80 | 24 | 15.9 | 19.2 | 0.21 |
| AAQM: 3 SEZ – II, Admin Building | | | | | |
| Max | 121 | 31 | 17.4 | 21.0 | 0.52 |
| Min | 99 | 20 | 12.7 | 16.8 | 0.30 |
| Avg. | 110 | 26 | 15.0 | 18.9 | 0.41 |

Graphical Presentation of Ambient Air Quality Data

For M/s. Dahej SEZ Ltd. (SEZ Developer).

By – UniStar Environment and Research Labs Pvt. Ltd.



3.0 WATER QUALITY MONITORING REPORT



Period: April: 2023 to September: 2023

FOR



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3.1 RESULTS OF GROUND WATER

| Sr. No. | Parameters | Unit | April -2023 | | May -2023 | | | June -2023 | | |
|---------|---|---------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | | | Village Lakhigam | Village Luwara | Village Lakhigam | Village Ambheta | Village Luwara | Village Dahej | Village Suva | Village Lakhigam |
| 1 | pH @ 25 ° C | -- | 7.25 | 8.57 | 7.60 | 7.89 | 8.40 | 8.27 | 7.90 | 7.57 |
| 2 | Colour | Pt. Co. Scale | 20 | 30 | 20 | 10 | 20 | 10 | 10 | 10 |
| 3 | Odour | -- | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. |
| 4 | Turbidity | NTU | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.0 | 0.1 | 0.1 |
| 5 | Temperature | °C | 29 | 30 | 32 | 32 | 32 | 30 | 30 | 30 |
| 6 | Total Dissolved Solids | mg/L | 2302 | 1996 | 2100 | >10000 | 206 | 770 | 1216 | 2016 |
| 7 | Total Alkalinity | mg/L | 862.2 | 705.9 | 910.4 | 328.3 | 124.3 | 319.1 | 610 | 808 |
| 8 | Chloride (as Cl) · | mg/L | 331.8 | 232.9 | 315.9 | 210.9 | 14.9 | 210.9 | 140.9 | 332.2 |
| 9 | Sulphate (as SO ₄ ⁻²) | mg/L | 164 | 149.3 | 155.5 | 55.5 | 7.3 | 9.2 | 12.4 | 102.3 |
| 10 | Phenolic Compound as (C ₆ H ₅ OH) | mg/L | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) |
| 11 | Nitrate | mg/L | 5.7 | 21 | 1.5 | 0.3 | 0.2 | 0.4 | 0.8 | 1.6 |
| 12 | Residual Chlorine | mg/L | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) |

| Sr. No. | Parameters | Unit | July -2023 | | August -2023 | | | September -2023 | | |
|---------|---|---------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| | | | Village Suva | Village Dahej | Village Lakhigam | Village Luwara | Village Dahej | Village Dahej | Village Luwara | Village Suva |
| 1 | pH @ 25 ° C | -- | 7.35 | 7.96 | 7.63 | 7.64 | 8.24 | 8.54 | 7.73 | 7.26 |
| 2 | Colour | Pt. Co. Scale | 10 | 10 | 10 | 10 | 20 | 30 | 10 | 20 |
| 3 | Odour | -- | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. | Unobj. |
| 4 | Turbidity | NTU | 0.1 | 1.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 5 | Temperature | °C | 28 | 28 | 30 | 30 | 30 | 30 | 29 | 28 |
| 6 | Total Dissolved Solids | mg/L | 1236 | 1842 | 1356 | 1242 | 686 | 844 | 308 | 1314 |
| 7 | Total Alkalinity | mg/L | 666.6 | 507.4 | 732.6 | 668.2 | 336.6 | 335.2 | 135 | 545 |
| 8 | Chloride (as Cl) · | mg/L | 144.9 | 424.8 | 350.8 | 319.2 | 300.9 | 130.8 | 35.2 | 1359.1 |
| 9 | Sulphate (as SO ₄ ²⁻) | mg/L | 15.6 | 18.4 | 88.4 | 80.5 | 40.2 | 35.6 | 40.5 | 52.5 |
| 10 | Phenolic Compound as (C ₆ H ₅ OH) | mg/L | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.001) | BDL (MDL:0.01) |
| 11 | Nitrate | mg/L | 0.8 | 1.2 | 1.2 | 0.8 | 1.6 | 2.8 | 0.6 | 0.8 |
| 12 | Residual Chlorine | mg/L | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) | BDL (MDL:0.1) |

3.2 RESULTS OF WASTE WATER QUALITY MONITORING

Pumping Station-D

| Sr. No. | Parameters | Unit | Results | | | | | | | | | | | | |
|---------|------------------------|---------------|-------------|------------|-------------|------------|------------|-----------|------------|------------|--------------|------------|-----------------|-----------|---------------------------|
| | | | April -2023 | | May -2023 | | June -2023 | | July -2023 | | August -2023 | | September -2023 | | Permissible Limits (GPCB) |
| 1. | pH @ 25 ° C | -- | 7.40 | 7.50 | 7.36 | 7.66 | 7.58 | 7.60 | 7.75 | 7.38 | 7.50 | 7.85 | 7.30 | 6.34 | 5.5 – 9.0 |
| 2. | Total Dissolved Solids | mg/L | 1130 | 20146 | 8326 | 4066 | 16436 | 2012 | 17716 | 2356 | 12936 | 16096 | 18230 | 13360 | -- |
| 3. | Total Suspended Solids | mg/L | BDL | BDL | 36 | BDL | BDL | 12 | 26 | 92 | 26 | 44 | 210 | 16 | 100 |
| 4. | (Colour /Odour) | Pt. Co. Scale | 375/ Unobj | 60/ Unobj. | >500/ Obje. | >500/ Obje | 200/ Obje | 110/ Obje | 120/ Obje | >500/ Obje | >500/ Obje | >500/ Obje | 180/ Obje | 275/ Obje | -- |
| 5. | Temperature | °C | 30 | 29 | 30 | 31 | 32 | 29 | 28 | 28 | 27 | 28 | 29 | 28 | 45 |
| 6. | Oil & Grease | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 20 |
| 7. | Fluoride | mg/L | 1.03 | 1.44 | 1.25 | 0.95 | 3.25 | 1.05 | 3.40 | 0.85 | 3.25 | 3.85 | 3.10 | 2.25 | 15 |
| 8. | Sulphide | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 5 |
| 9. | TKN | mg/L | 11.8 | 14.6 | 15.6 | 8.6 | 28.1 | 8.7 | 16.9 | 41.0 | 49.5 | 43.1 | 139.3 | 390.7 | 100 |
| 10. | Ammonical Nitrogen | mg/L | 6.1 | 9.0 | 10.0 | 2.7 | 22.2 | 2.8 | 11.1 | 35.1 | 43.7 | 37.3 | 130.6 | 382.2 | 50 |
| 11. | Free Ammonia | mg/L | BDL | BDL | BDL | 0.081 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| 12. | Copper | mg/L | 0.051 | 0.135 | 0.106 | 0.093 | 0.125 | 0.094 | 0.136 | 0.074 | 0.104 | 0.127 | 0.108 | 0.067 | 3 |
| 13. | Zinc | mg/L | 0.068 | 0.147 | 0.119 | 0.093 | 0.136 | 0.103 | 0.145 | 0.083 | 0.119 | 0.139 | 0.123 | 0.093 | 15 |
| 14. | BOD (3 days at 27 °C) | mg/L | 26 | 38 | 56 | 16 | 44 | 18 | 38 | 56 | 56 | 38 | 42 | 510 | 100 |
| 15. | COD | mg/L | 93 | 131.7 | 193.9 | 53.8 | 154.7 | 61.7 | 132.4 | 189.8 | 198.1 | 133.1 | 144.4 | 1582 | 250 |
| 16. | Arsenic | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 |
| 17. | Mercury | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.01 |

Pumping Station-D

| Sr. No. | Parameters | Unit | Results | | | | | | | | | | | | |
|---------|---|------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| | | | April -2023 | | May -2023 | | June -2023 | | July -2023 | | August -2023 | | September -2023 | | Permissible Limits (GPCB) |
| 18. | Lead | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| 19. | Cadmium | mg/L | 0.035 | 0.096 | 0.063 | 0.047 | 0.096 | 0.054 | 0.104 | 0.036 | BDL | 0.087 | 0.078 | 0.056 | 2 |
| 20. | Hexavalent Chromium | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| 21. | Phosphate as PO ₄ ⁻ | mg/L | 0.11 | 0.45 | 0.21 | 0.18 | 2.25 | 0.65 | 2.45 | 0.28 | 1.25 | 1.40 | 1.25 | 1.15 | 5 |
| 22. | Nickel | mg/L | 0.054 | 0.087 | 0.056 | 0.035 | 0.089 | 0.063 | 0.097 | 0.043 | 0.078 | 0.095 | 0.084 | 0.067 | 5 |
| 23. | Cyanide | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 |
| 24. | Phenolic Compound | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 5 |
| 25. | Sulphate (as SO ₄) | mg/L | 189.4 | 2203 | 1423 | 625.5 | 7655 | 465.8 | 8262 | 368.2 | 7656 | 8260 | 6775 | 7852 | 1000 |
| 26. | Residual Chlorine | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| 27. | Pesticides | µg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | Absent |
| 28. | Selenium | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.05 |
| 29. | Bio Assay test | % | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | Not pass the test 90 % survival of fish after 48 hrs. |

Pumping Station-C

| Sr. No. | Parameters | Unit | Results | | | | | | | | | | | | Permissible Limits (GPCB) |
|---------|------------------------|---------------|-------------|----------|-----------|----------|------------|----------|------------|---------|-------------|---------|-----------------|---------|---------------------------|
| | | | April -2023 | | May -2023 | | June -2023 | | July -2023 | | August-2023 | | September -2023 | | |
| 1. | pH @ 25 ° C | -- | 6.80 | 7.81 | 8.06 | 7.56 | 7.59 | 7.31 | 7.34 | 7.50 | 6.94 | 7.03 | 7.32 | 7.10 | 5.5 – 9.0 |
| 2. | Total Dissolved Solids | mg/L | 7826 | 9916 | 7470 | 12046 | 10166 | 9992 | 8392 | 5902 | 11092 | 8176 | 7146 | 16916 | -- |
| 3. | Total Suspended Solids | mg/L | 2040 | 116 | 180 | 196 | 246 | 96 | 166 | 72 | 56 | 96 | 80 | 166 | 100 |
| 4. | (Colour /Odour) | Pt. Co. Scale | >500/Obj | >500/Obj | >500/Obj | >500/Obj | >500/Obj | >500/Obj | >500/Obj | 285/Obj | >500/Obj | 300/Obj | 280/Obj | 270/Obj | -- |
| 5. | Temperature | °C | 30 | 29 | 28 | 28 | 32 | 29 | 28 | 28 | 29 | 27 | 29 | 28 | 45 |
| 6. | Oil & Grease | mg/L | 6.0 | 4.0 | BDL | 5.0 | 6.0 | 19.0 | 11.0 | BDL | 4.0 | BDL | BDL | 4.0 | 20 |
| 7. | Fluoride | mg/L | 1.02 | 0.98 | 1.65 | 1.85 | 2.25 | 2.60 | 2.25 | 1.60 | 3.45 | 2.25 | 2.10 | 4.10 | 15 |
| 8. | Sulphide | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 5 |
| 9. | TKN | mg/L | 249.2 | 28.3 | 7.5 | 36.2 | 52.2 | 15.4 | 27.6 | 16.8 | 13.3 | 8.5 | 8.9 | 8.3 | 100 |
| 10. | Ammonical Nitrogen | mg/L | 238.0 | 23.1 | 2.7 | 30.6 | 46.3 | 9.5 | 21.7 | 11.1 | 7.7 | 2.8 | 3.3 | 2.7 | 50 |
| 11. | Free Ammonia | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 5 |
| 12. | Copper | mg/L | 0.095 | 0.108 | 0.129 | 0.145 | 0.102 | 0.096 | 0.085 | 0.093 | 0.117 | 0.114 | 0.105 | 0.136 | 3 |
| 13. | Zinc | mg/L | 0.104 | 0.119 | 0.135 | 0.159 | 0.115 | 0.104 | 0.091 | 0.106 | 0.137 | 0.125 | 0.114 | 0.144 | 15 |
| 14. | BOD (3 days at 27 °C) | mg/L | 510 | 430 | 168 | 420 | 262 | 312 | 310 | 22 | 220 | 62 | 54 | 510 | 100 |
| 15. | COD | mg/L | 1525.2 | 1297.4 | 524.8 | 1257.3 | 819.2 | 986 | 965.1 | 79.5 | 662.2 | 209.3 | 186 | 1585.2 | 250 |
| 16. | Arsenic | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 |
| 17. | Mercury | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.01 |
| 18. | Lead | mg/L | 0.078 | 0.085 | 0.125 | 0.123 | 0.084 | 0.074 | 0.065 | 0.077 | 0.096 | 0.093 | 0.085 | 0.117 | 1 |
| 19. | Cadmium | mg/L | 0.056 | 0.067 | 0.097 | 0.092 | 0.066 | 0.056 | 0.047 | 0.058 | 0.075 | 0.074 | 0.066 | 0.093 | 2 |

Pumping Station-C

| Sr. No. | Parameters | Unit | Results | | | | | | | | | | | | Permissible Limits (GPCB) |
|---------|---|------|-------------------|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------------------------|
| | | | April -2023 | | May -2023 | | June -2023 | | July -2023 | | August-2023 | | September -2023 | | |
| 20. | Hexavalent Chromium | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| 21. | Phosphate as PO ₄ ⁻ | mg/L | 0.88 | 0.82 | 4.5 | 3.5 | 1.05 | 0.93 | 0.75 | 0.77 | 1.65 | 0.91 | 0.78 | 1.25 | 5 |
| 22. | Nickel | mg/L | 0.096 | 0.107 | 0.126 | 0.121 | 0.096 | 0.086 | 0.073 | 0.082 | 0.114 | 0.104 | 0.091 | 0.123 | 5 |
| 23. | Cyanide | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.2 |
| 24. | Phenolic Compound | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 5 |
| 25. | Sulphate (as SO ₄) | mg/L | 1944 | 5240 | 1850 | 2125 | 5965 | 3925 | 3244 | 1244 | 4566 | 1752 | 1606 | 4262 | 1000 |
| 26. | Residual Chlorine | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 1 |
| 27. | Pesticides | µg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | Absent |
| 28. | Selenium | mg/L | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.05 |
| 29. | Bio Assay test | % | Not pass the test | Not pass the test | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | Not pass the test | Not pass the test | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | 90 % survival of fish after 48 hrs. | Not pass the test | 90 % survival of fish after 48 hrs. |

4.0 NOISE LEVEL MONITORING REPORT



Period: April: 2023 to September: 2023

FOR



Dahej SEZ Ltd.

M/s. Dahej SEZ Ltd. (SEZ Developer)

**Dahej SEZ Part - I
At & Post: Dahej, Taluka – Vagra,
Dist. Bharuch – 392 140, Gujarat**

Monitoring Organization



White House
Near G.I.D.C. Office, Char Rasta,
Vapi - 396 195, Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

QCI-NABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-11)

ISO 9001 : 2015
Certified Company

ISO 45001 : 2018
Certified Company

| | | |
|---|--|---|
|  | Half Yearly Environmental Quality Monitoring Report |  Dahej SEZ Ltd. |
| DSL/2023/02 | M/s. Dahej SEZ Ltd. (SEZ Developer) | April-23 to Sept-23 |

4.1 RESULTS OF NOISE MONITORING ANALYSIS

THE NOISE POLLUTION (REGULATION AND CONTROL) RULES 2010

| GPCB CONSENT LIMIT | Day Time | Night Time |
|--|----------|------------|
| Ambient Air Quality Standards in respect of Noise for Industrial Area | 75 dB[A] | 70 dB[A] |
| Ambient Air Quality Standards in respect of Noise for Residential Area | 55 dB[A] | 45 dB[A] |
| Ambient Air Quality Standards in respect of Noise for Silence Zone | 50 dB[A] | 40 dB[A] |

Note: Silence zone is defined as an area comprising not less than 100 meters around hospitals educational institutions and courts.

The silence zones are zones which are declared as such by the competent authority.

1. Day time shall mean from 6.00 a.m. to 10.00 p.m
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.

Results of Noise Monitoring

| Sr. No. | Location | Noise Level dB(A) | | | |
|---------|---------------------------------|------------------------------|------|------------|------|
| | | April-2023 to September-2023 | | | |
| | | Day Time | | Night Time | |
| | | Max | Min | Max | Min |
| 1. | SEZ – I, Fire Station | 74.0 | 51.0 | 66.0 | 46.7 |
| 2. | SEZ – II, Admin Office | 76.0 | 54.0 | 58.0 | 48.0 |
| 3. | SEZ-I, Admin Office | 76.0 | 52.0 | 66.0 | 51.0 |
| 4. | SEZ-I, GIDC Pumping Station - C | 72.0 | 53.0 | 63.0 | 52.3 |

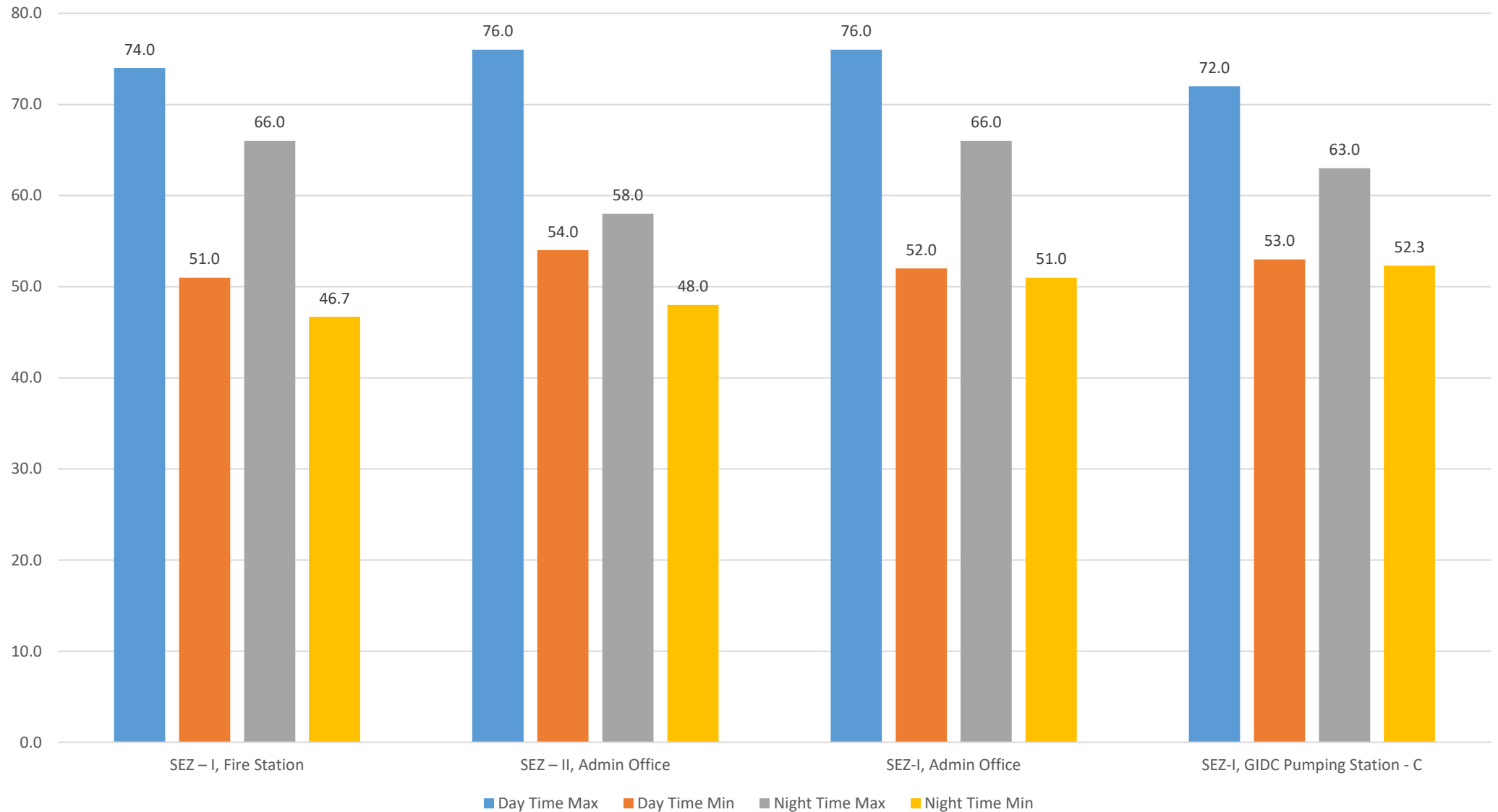
Graphical Presentation of Noise Level Monitoring Data

For M/s. Dahej SEZ Ltd. (SEZ Developer)

By - UniStar Environment and Research Labs Pvt. Ltd.



Dahej SEZ Ltd.



❖ OBSERVATIONS

The environmental monitoring including ambient air, ground water/Waste Water Quality Monitoring, Noise monitoring around the Dahej SEZ Limited, was carried out during April-2023 to September-2023. All parameters of collected samples were within the statutory requirements.

❖ METEOROLOGY

During monitoring, the various parameters including such as Temperature (°C), Relative Humidity (%) and Rainfall (mm) were monitored.

From April-2023 to September-2023, the results of Temperature were observed in the range 43.0 – 21.8 (°C). Relative Humidity were observed in the range 97.0-21.0 (%). Average rainfall (mm) was observed 68.1 (mm)

❖ AIR QUALITY:

During monitoring, the various parameters including such as Particulate Matters PM_{2.5} and Particulate Matters as PM₁₀, Sulphur dioxide as SO₂, Oxides of nitrogen as NO₂, Carbon monoxide as CO were monitored.

From April-2023 to September-2023, the results of Particulate Matters as PM₁₀ were observed in the range 121 – 72 µg/m³ & average 94 µg/m³ and Particulate Matters as PM_{2.5} range 31 – 20 µg/m³ & average 25 µg/m³. Sulphur dioxide as SO₂ was observed in the range 18.8 – 12.7 µg/m³ & average 15.6 µg/m³ and Oxides of nitrogen as NO₂ was observed in the range 22.0 – 16.4 µg/m³ & average 19.2 µg/m³. Carbon monoxide as CO was observed in the range 0.52 – 0.14 µg/m³ & average 0.31 mg/m³.

❖ NOISE LEVEL:

The noise level monitoring was carried out at different locations during April-2023 to September-2023. At all the locations noise level were observed in the range 76.0 – 54.0 dB(A) during day time and 66.0 – 52.3 dB (A) during night time, which are found well within the specified limits 75 dB(A) for day time & 70 dB(A) for Night time.

| | | |
|--|--|---|
|  | Half Yearly Environmental Quality Monitoring Report |  Dahej SEZ Ltd. |
| DSL/2023/02 | M/s. Dahej SEZ Ltd. (SEZ Developer) | April-23 to Sept-23 |

❖ **Water Quality WATER:**

The ground water monitoring carried out at different villages during the period April-2023 to September-2023. indicated no noticeable changes in quality and the impact having low magnitude. However, the groundwater quality is depicted in the test certificates indicating inferior quality of water due to the area being coastal. Waste Water Sample monitoring carried out as per instruction of DSL.

Annexure-VI

- Copy of environmental clearance for dispose the treated effluent into deep sea from MoEF& CC.

No.J-16011/9/2003-IA-III

Government of India
Ministry of Environment and Forests
(IA-III Division)

Paryavaran Bhavan,
CGO Complex, Lodhi Road,
New Delhi - 110003.

Dated the 29th April, 2005

Sub: Environmental clearance under the CRZ Notification, 1991 - Laying of the effluent disposal pipeline for disposal of treated effluent from GIDC Industrial Estates at Vilyat and Dahej, District Bharuch, by the Gujarat Industrial Development Corporation - regarding.

Reference is invited to letter No.ENV-10.2002-994-P1, dated 29.1.2003, dated 9.4.2003 and dated 19.6.2003 forwarded by Forest & Environment Department, Government of Gujarat. Similarly, information furnished vide letters No.GIDC/EE/DVDC/BRH/PB/922, dated 2.7.2002, No.GIDC/EE/DVDC/BRH/1303, dated 27.9.2002, No.ENG/PH/1/629, dated 30.5.2003, No.GIDC/ENG/PH/813, dated 17.7.2003, No.GIDC/ENG/HQ, dated 13.1.2004, No.GIDC/ENG/PH/389, dated 24.3.2004, No.GIDC/ENG/SE/PH/1209, dated 4.10.2004, No.GIDC/ENG/CE/347, dated 17.11.2004, No.GIDC/ENG/CE/370, dated 17.12.2004, No.GIDC/ENG/Dy.C.E/32, dated 31.1.2005, No.GIDC/ENG/DY/CE/36, dated 1.2.2005 and letter No.GIDC/ENG/DY/CE/142, dated 15.2.2005 from Gujarat Industrial Development Corporation No Objection Certificate from Gujarat Pollution Control Board vide letter No.PC/NOC/BRCH-2430, dated 22.10.2002 on the above mentioned subject have been considered.

The project involves laying of the effluent disposal pipeline for conveyance of the treated effluent from the Vilyat and Dahej Industrial estates, district Bharuch to the sea in the Gulf of Khambhat off Dahej coast. The proposed scheme covers treatment of effluents by the respective industries totaling 18×10^3 m³/day to meet the norms of the Gujarat Pollution Control Board before transferring to the combined collection system. The total length of the pipeline proposed for the project is 52.5 km which includes 4.5 km of the pipeline in the offshore area. The entire pipeline is laid below the ground level. Of the 52.5 km of pipeline, 4.5 km length pipeline will be buried in the inter-tidal zone and seabed in the Gulf of Cambay & 9 km is in the coastal area and 39 kms is in the onshore area. The effluent will be discharged at latitude 21°39'26"N and Longitude 72°29'50" E through a marine outfall point system with suitably designed diffuser to achieve a conservative dilution of 100 to 200 times.

Send Copy to sec (CG)
for compliance
19/5
EC

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4)

The proposal has been examined and environmental clearance to this project is hereby accorded subject to effective implementation of the following environmental safeguards and conditions:-

A. SPECIFIC CONDITIONS:

- i) All the conditions stipulated by Environment Department, Government of Gujarat as contained in their letter No.ENV-10.2002-994-P1, dated 29.1.2003 shall be effectively implemented. The project shall be implemented in such a manner that there is no damage whatsoever to the mangroves/other sensitive coastal ecosystems.. If any damage to mangroves is anticipated/envisaged as a result of project activities then the clearance now being accorded shall stand cancelled and the proponents may seek fresh approval from the Ministry.
- ii) All the conditions stipulated by Gujarat Pollution Control Board vide letter No.PC/NOC/BRCH-2430, dated 22.10.2002 should be effectively implemented.
- iii) It should be ensured that no activities are taken up in the forest area till necessary forest clearance is obtained and furnished to this Ministry. Adequate measures for compensatory afforestation must be taken accordingly.
- iv) It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.
- v) It shall be ensured that due to the project, there is no adverse impact on the drainage of the area and recharge of groundwater. No groundwater should be tapped in the project area falling in Coastal Regulation Zone.
- vi) The project proponent must ensure that the effluents /liquid waste discharged are as per the standards laid down by the Gujarat Pollution Control Board.
- vii) The camps of labour shall be kept outside the Coastal Regulation Zone area. Proper arrangements for cooking fuel shall be made for the labour during construction phase so as to ensure that mangroves are not cut/destroyed for this purpose.
- viii) The entire stretch of the pipelines shall be buried underground except at the booster pumping station, which will be properly fenced and the station would be manned round the clock. The buried lines will be protected with anticorrosive coaltar based coating. The coating will be tested in accordance with prescribed standards.
- ix) Markers shall be installed at every 30 m to indicate the position of the line.
- x) Regular patrolling of the pipeline needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.
- xi) There should be display boards at critical locations along the pipeline viz road/rail/river crossings giving emergency instructions as well as contact details of GIDC. This will ensure prompt information regarding location of accident during any emergency. Emergency Information board should contain emergency instructions in addition to contact details.

B. GENERAL CONDITIONS:

- (i) Construction of the proposed structures should be undertaken meticulously confirming to the existing Central/local rules and regulations. All the construction designs/drawings relating to the proposed construction activities

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must have approvals of the concerned State Government Department/Agencies.

- (ii) The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.
- (iii) To meet any emergency situation, appropriate fire-fighting system should be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the fire fighting system should be made.
- (iv) A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.
- (v) The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal.
- (vi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (vii) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.
- (viii) This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (ix) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- (x) A copy of the clearance letter shall be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xi) State Pollution Control Board/Committee should display a copy of the clearance letter at the District Industries Center and Collector's Office/ Tehsildar's Office for 30 days.
- (xii) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Gujarat State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forests at <http://www.envfor.nic.in/>.
- (xiii) The project proponents should inform Regional Office Bhopal as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of work.

- (xiv) The project proponent will obtain the Forest clearance for the land passing through the Reserved Forest area before commencement of the project activities in forest area.
- (xv) So as to maintain ecological features and avoid damage to the ecosystem, movement of vehicles in the Inter Tidal Zone shall be restricted to the minimum.
- (xvi) Budgetary break up for Environmental Management Plan for the project to be mentioned.

The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No:664 of 1993 to the extent the same are applicable to this proposal.

(A. Senthil Vel)
Joint Director

To

Shri P. G. Vinod,
Deputy Chief Engineer,
M/s Gujarat Industrial Development Corporation,
Udyog Bhavan, Block No.4,
2nd Floor, Sector No.11,
Gandhinagar - 382017.

Copy to:

1. Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office (WZ), Kendriya Paryavaran Bhavan, Link Road No.3, Ravishankar Road, Bhopal - 462016.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. Shri J. K. Vyas, Director (Environment), Forests & Environment Department, Government of Gujarat, Block No.14, 8th Floor, Sachivalaya, Gandhinagar - 382010.
4. DIG (SU), Regional Office Cell, Ministry of Environment & Forests, New Delhi.
5. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382 010.
6. Guard File.
7. Monitoring Cell
8. Director (EI), Ministry of Environment & Forests, New Delhi.

(A. Senthil Vel)
Joint Director

Gujarat Pollution Control Board

Post Box No. 114, Sector 10, Gandhinagar, BHUBH
 Gandhinagar, Gandhinagar, Gandhinagar, Gandhinagar
 Gandhinagar, Gandhinagar, Gandhinagar, Gandhinagar

NO:PC/NOC/BRH-2430/

SUB : NO OBJECTION CERTIFICATE
 REF : Your NOC application No.1174, and your letter
 No.GIDC/XEN/BRH/754, dated 24/5/2002

Sir,

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1986 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, I am pleased to inform you that this Board has No Objection for laying effluent pipeline from GIDC Vilayat & Dahej to Gulf of Kambhat for conveyance of treated effluent into deep Sea through a marine outfall subject to following conditions

SUBJECT TO THE FOLLOWING CONDITIONS

1. a) The quantity of the effluent from Vilayat - 25 MLD
 b) The quantity of the effluent from Dahej - 40 MLD
 at present = 65 MLD + 25 MLD future i.e. Total effluent quantity shall be 90 MLD.
2. The Pipe line shall be 52.5 Kms (39 Kms + 9 Kms + 4.5 Kms) Long with off shore pipeline 4.5 Kms long & diffuser at LAT 21° 39' 28" N LONG 72° 29' 50" E in coastal waters off Luvra as per Liquid Marine PIA due to release of GIDC effluent in Coastal water off Dahej prepared by HRC, GOA
3. Clearance from MoEF, Government of India is to be submitted to Gujarat Pollution Control Board for the forest area falling in route of pipeline before commencement of laying of pipeline.
4. Certificate of Master consultant regarding BAT (Best Available Technology) for dispersion system to be submitted.
5. Detailed operational scheme to be submitted to Board before consent alongwith Disaster Management Plan.
6. Scheme (FETP) to ensure that Gujarat Pollution Control Board norms are complied at inlet of pipeline by treated wastewater to be conveyed.
7. The Industrial effluent shall conform to the following standards

| PARAMETERS | PERMISSIBLE LIMIT |
|------------------|---|
| pH | 5.5 to 9 |
| Temperature | 45°C at the point of discharge |
| Colour & odour | All efforts shall be made to remove colour & unpleasant odour as far as practicable |
| Suspended Solids | 100 mg/l |

ATTESTED

Executive Magistrate
 BHARD



Gujarat Pollution Control Board

in Bhuvan, Sector-10 A, Gandhinagar-382010.

Phone: 2331756, 3222095, 3222096 Fax: 3222097

Website: www.gpcb.org



| | |
|---|--|
| Particulate size of suspended solids | (a) Floatable solids max., 3 mm (b) Settleable solids max., 850 microns |
| Oil and Grease | 20 mg/l |
| Fluorides | 15 mg/l |
| Sulphides | 5 mg/l |
| Pesticides | Absent |
| Ammonical Nitrogen | 50 mg/l |
| Total Kjeldahl nitrogen | 100 mg/l |
| Free ammonia (as NH ₃) | 5 mg/l |
| Copper | 3 mg/l |
| Zinc | 15 mg/l |
| BOD (-5 days at 20 °C) | 100 mg/l |
| COD | 250 mg/l |
| Total residual chlorine | 1.0 mg/l |
| Arsenic(as As) | 0.2 mg/l |
| Mercury(as Hg) | 0.01 mg/l |
| Lead (as Pb) | 1 mg/l |
| Cadmium (as Cd) | 2 mg/l |
| Hexavalent Chromium(Cr +6) | 1 mg/l |
| Total Chromium(as Cr) | 2 mg/l |
| Nickel | 5 mg/l |
| Cyanide(as CN) | 0.2 mg/l |
| Phenolic Compounds(as C ₆ H ₅ OH) | 5 mg/l |
| Selenium [as Se] | 0.05 mg/l |
| Manganese [as Mn] | 2 mg/l |
| Iron [as Fe] | 3 mg/l |
| Vanadium [as V] | 0.2 mg/l |
| Nitrate Nitrogen | 20 mg/l |
| Bio-assay test | 90% Survival of fish after 96 hrs in 100% effluent. |

8. In order to enable the Board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent by this order are complied with by the pipeline while causing discharge of effluent, the applicant shall have to submit every month the analysis report of the samples of effluent got collected and analysed by one of the laboratories recognised by the State Board.
9. GIDC shall be totally responsible for collection of treated effluent from the GIDC estates of Vilayat & Dahej & subsequent conveyance of the collected effluent upto the Marine outfall.
10. Collection of treated effluent from the GIDC estates of Vilayat & Dahej & subsequent conveyance of the collected effluent upto the final outlet shall be through closed pipeline.
11. Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.

Pollution Control Board

Plot No. 10-A, Gandhinagar-382010.
Ph. 222095, 3222096 Gm. CLEANWATER
1156



12. GIDC shall keep accurate records of their member units in respect of quantity of each product manufactured, quantity of water consumption, quantity of effluent discharged to and consumption of electricity on day to day basis and shall be required to submit the compiled records for each month to GPCB on or before seventh day of the succeeding month. Separate logbooks shall be maintained for recording all the necessary data.
13. GIDC shall have to arrange for the staff to be provided with face shield gas mask, hand gloves, gum boots, Helmet of green colour having logo of GIDC and adequate training for operation of pipeline.
14. Magnetic flow meters shall be installed at the various stages of Inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.
15. GIDC shall instruct & make sure that every member shall make storage facilities to store the effluent for atleast 48 hours in an impervious acid proof brick lining tank / HDPE tank.
16. GIDC shall instruct & make sure that every member provides on-line pH meter with recorder & magnetic flow meters for flow measurement of treated waste water same shall be provided at the pipeline inlet.
17. GIDC shall constitute a monitoring committee for monitoring of the effluent discharged by its members in the pipeline.
18. In case of power failure, stand-by D.G. set having power generation capacity equivalent to the requirement of power to run the pipeline conveyance system shall be installed, so that it shall always be operated round the clock even in case of power failure also.
19. The Final effluent treatment plant [FETP] shall be provided with on-line monitoring instruments alongwith SCADA system & pH actuated valve at the final sump. Furthermore a third party monitoring shall be conducted regularly.
20. GIDC shall provide impervious tanks/ HDPE tanks /impervious guard ponds to hold effluent for atleast 48 hours but shall never discharge any untreated effluent in to the environment. In the case of either maintenance of the FETP or process disturbances, effluent not complying with the marine disposal norms shall be stored & further reprocessed in the treatment plant before final discharge.
21. GIDC shall inform immediately to the GPCB regarding the termination/suspension of the membership of their member unit, if any.
22. GIDC shall have only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Convenient easy approach shall be provided at the outlet for ease of sampling. The unit shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even within the effluent treatment plant.

Gujarat Pollution Control Board

Suran Bhavan, Sector-10-A, Gandhinagar-382010.

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23. GIDC shall submit, to the GPCB, the site plan of the unit indicating the location of the effluent treatment plants, and also a separate plan indicating the channel through which water / effluent passes from different stages of effluent treatment process right upto the stage of its final outlet. Such plan shall also be displayed by the unit on a Board of adequate size within its compound and near its effluent treatment plant.
24. The ground water quality around the impervious guard ponds shall be monitored regularly & data shall be submitted to the Board once in six months and shall also comply with the instruction of GPCB in case of deterioration.
25. Handling, manufacturing, storage and transport of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
26. Transportation of effluent, solid waste or any other goods pertaining to treatment activities, shall be carried out as per central Motor Vehicle Rule-1989.
27. The hazardous wastes shall be handled as per the Hazardous Waste (Management and Handling) Rules of the Environment (Protection) Act, 1986
28. On site and off site emergency plan as required under the Rules 13 & 14 of handling, manufacturing, storage and import of the Hazardous chemicals Rules, 1989 shall be prepared and approval from the Board shall be obtained.
30. Periodic medical checkup of the workers shall be done and records maintained as a measure to provide occupational health protection to the workers.
31. GIDC shall provide state of the art composite samplers & set up testing laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel who shall report to the chief executive.
32. The Environmental Management Unit / Cell shall be setup to ensure implementation and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The Environmental Management Unit / Cell shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These Cells / Units shall also coordinate the exercise of the environmental audit and preparation of the environmental statements.
33. The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitted to the GPCB latest by 30th September every year.
34. Storm water shall not be mixed with the industrial effluent. Disposal system for storm water shall be provided separately.

Pollution Control Board

Ministry, Section 10 A, Gandhinagar, 110010
Phone: 3222095, 3222096 Fax: 3222097
E-mail: pcb@vsnl.com



35. Good house keeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Floor water shall be admitted in to the effluent collection system for subsequent treatment and disposal.
36. GIDC shall intimate the occurrence of any accident, event resulting in discharge of poisonous, noxious or polluting matter or the likely hood of the same into a stream or well to the Regional Office under the intimation to the Member Secretary in accordance with the Section 31(1) of the Water Act.
37. The pipeline to be laid shall comply with all seismic design parameters based on the guidelines for the seismic design of pipelines systems. This must be complied in right perspective & true spirit.
38. The impact during the pipelaying phase (mainly trenching and sub-sea pipelaying for a stretch of 11 km off Kantiajal) as well as the impact during the operational on the marine ecology of the Gulf shall be minimal.
39. The effluent release shall be through an adequately designed multiport submerged diffuser to achieve characteristic dilution of at least 70 times during spring low water and times during spring high water for quick dispersion for which diffuser having ports discharging at an angle of 45° with jet velocity shall be provided to minimise adverse impact on the Gulf ecology as per the NIO report.
40. The onshore pipeline shall be adequately buried to a safer depth after making a trench along the proposed route. The trench shall be back filled later.
41. The effluent pipeline shall be buried below the scour level in the intertidal area as well as at least upto the breaker zone in the subtidal segment as recommended by NIO.
42. The pipeline shall be buried in the intertidal area alongwith anchoring using concrete blocks in the subtidal zone. Entire pipelaying operation shall be confined to the narrow corridor of about 10 m width, with dredged spoil site cast at an adequate distance on either sides of the trench. The excavation and displacement of bed material over a 50 m width in the near-shore area shall be back filled later. The effluent pipelines shall be buried to a safe depth along the intertidal segment and the depth of burial shall be ascertained through reliable post-lay surveys to guarantee its safety. The anchoring system for the sub-sea pipeline shall be carefully evaluated considering probable scour likely to be caused due to strong tidal currents. Likewise factors like severe cyclones (wind speed 100-150 km/h) shall be taken into account while designing the pipeline.
43. The subtidal segment of the pipeline shall be laid on the seabed and the seabed contours shall be maintained after the pipeline is laid.
44. Considering strong currents and prevailing movement of the bed material, the pipeline anchoring system shall be carefully designed. Moreover, there being a distinct possibility of scouring under the pipeline leading to spanning and ultimate rupture adequate protection for the same shall be incorporated in the design.

Narmada Pollution Control Board

Chhatrapati Bhawan, Sector-10-A, Gandhinagar 382010.

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45. The sub-sea pipeline shall be designed in such a way so as to incur minimal damage in case of any unforeseen accidents like grounding of a ship, undetected corrosion, fatigue, instability of substratum, natural calamities like cyclone, earthquake etc. and intentional third party interference.
46. As nearshore current components being strong towards the shore, there being chances of effluent spreading along the shore and contaminating a large stretch of intertidal segments in the event of damage to the pipeline occurring within 10 m depth contour & subsequently contaminating stretch of the shoreline between Narmada and Kim River. Hence care shall be taken to ascertain that there is no damage to the pipeline & minimal impact on the nearshore marine ecology in the event of effluent disposal through the damaged pipeline.
47. Internationally accepted codes and practices shall be followed through proper inspection, frequent evaluation and intensive testing of all critical components of the pipeline system. Similarly, the vulnerable units such as flanges, couplings, joints etc. shall be rigorously tested and certified for their reliability and safety over the design life of the pipeline.
48. Due care shall be taken to minimise damage to marine ecology due to improper design, lack of maintenance, faulty operation and release into shallow waters due to unforeseen accidents.
49. The entire pipeline shall be protected from external corrosion.
50. Pretreatment to the pipes such as coating, concreting etc. and other fabrication jobs shall be undertaken in a yard on land located sufficiently away from the CRZ and the transfer of materials to the site shall be through a predecided corridor. Similarly, the movement of construction barges, machinery etc. shall be restricted to the predecided operational area. However, the region shall not be crowded with too many vessels and construction machinery to avoid accidents and subsequent spillages of materials and fuel.
51. Temporary colonies of the work force involved in the pipelaying phase shall be established sufficiently away from the CRZ and proper sanitation including toilets and bathrooms shall be provided to the inhabitants to prevent abuse of the intertidal area.
52. After completion of the job work, the intertidal and supratidal area shall be restored to their original contours after the pipe-laying activities are completed. General clean-up along the corridor, adjacent area and intertidal and subtidal regions shall be taken-up and extraneous materials such as drums, sacks, metal scrap, ropes, excess sediment, make shift huts and cabins shall have to be cleared from the site.
53. Training for work safety and efficiency shall be imparted to the operations personnel for day-to-day operations as well as handling emergency situations.

Gujarat Pollution Control Board

Varan Bhavan, Sector-10-A, Gandhinagar-382010.
Phone: 3222750, 3222095, 3222096 Gram: CLEANWATER
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54. It shall be ensured that valves, pumps, sub-sea pipeline, MOF system etc. are periodically inspected for their integrity and to guarantee their proper functioning. Accurate records of all inspections, unusual findings, actions taken etc. shall be strictly maintained as a part of the overall record system.
55. As the region falls under the navigational route of the Gulf & may experience an increase in sea traffic in future, location of the diffuser (MOF) shall be prominently displayed by a suitably designed, lighted marker buoy to avoid chances of collisions / accidents.
56. A comprehensive marine and estuarine quality monitoring programme shall be implemented as recommended in the NIO report.
57. Pump station, seafloor stability, navigational aids, pipelines, diffusers, valves etc. shall be regularly inspected as per standard codes and practices. Records of all inspections, unusual findings, actions taken etc. shall be maintained properly.
58. The efficiency of the marine outfall [diffuser] shall be ascertained periodically through tracer studies. The efficiency of the diffuser shall be ascertained regularly alongwith cleaning of the diffusers & port openings for biofoulers and sediment that might settle inside.
59. For efficient operation of pipeline supervisory control and data acquisition (SCADA) shall be employed to facilitate instant data acquisition, visual display and remote control. These supervisory systems shall also facilitate continuous monitoring of various parameters like pressure, temperature leakage detection and automatic / remote shut down of the valves in case of emergency.
60. Control rooms equipped with SCADA computers, wireless system, telephone system, emergency vehicle, shall be provided. The control room will be manned for 24 hours round the clock.
61. Isolation valves shall be provided on the pipeline for better monitoring and control of flow operation.
62. Necessary clearances for the adequacy & safety measures shall be obtained from the concerned authority.
63. GIDC shall comply with the provisions of all the laws of land including safety, disaster management.
64. GIDC shall submit regular progress reports to the Gujarat Pollution Control Board and other concerned authorities regarding the construction, progress, commissioning and operation of the pipeline.
65. Issuance of this certificate is subject to Coastal Regulation Zone [CRZ] clearance from Ministry of Environment & Forests, Government of India, New Delhi.

Gujarat Pollution Control Board

Avatar Bhavan, Sector-10-A, Gandhinagar 382010.

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Game - CLEAN WATER

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66. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
67. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor shall immediately be intimated to the Board.
68. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (whichever applicable).
69. The applicant shall however, not without the prior consent 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 Act-1981 and the Environment (Protection) Act-1986.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD
Yours faithfully,


(R.G. SHAH)
ENVIRONMENTAL ENGINEER

NO:PC/NOC/BRCH-2430/ 32367

22 OCT 2002

ISSUED TO :

M/s. G.I.D.C., (DAHEJ VILAYAT DEVELOPMENT CELL),
NARMADA COMMERCIAL COMPLEX, 1st FLOOR,
STATION ROAD, PANCH BHATTI,
BHARUCH : 392001.

Annexure-VII

- Copy of Consolidated Consent and Authorization and its compliance report.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

CONSENT AND AUTHORISATION: CC&A (AWH-104709)

BY R.P.A.D

NO:-GPCB/BRCH-B/CCA-125(2)/ID-25308/

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under "Hazardous Waste (Management & Trans boundary Movement) Rule-2016." framed under E (P) Act- 1986.

And whereas Board has received consolidated application vide Inward no: 162316 dated: 23/08/2019 for the consolidated consent and authorization (CC&A) of this board under the provisions/ rules of the aforesaid Acts. Consent & Authorization is hereby granted as under:

CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid environmental acts)

TO,
M/s. DAHEJ SEZ LTD GIDC DAHEJ,
VILLAGE - DAHEJ, TAL: VAGRA,
DIST: BHARUCH.

1. Consent order No: AWH-104709- Date of Issue-22/10/2019
2. The consent under Water Act -1974, Air Act -1981 and Authorization under Environment (Protection) Act, 1986 shall be valid up to **04/08/2024** for use of outlet for the discharge of treated sewage on land for Gardening/Horticulture purpose from Dahej SEZ Ltd at GIDC Dahej, Vill: Dahej 392130, Tal: Vagra. Dist: Bharuch.
3. **SPECIFIC CONDITIONS:-**
 - 3.1 Applicant shall strictly comply/fulfill the given conditions of EC OF DAHEJ SEZ, issued vide NO-21-1084 12007-IA.III DATED 17/03/2010.
 - 3.2 The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority.

- 3.3 The unit shall affix of water meters as per Section 4(I) of the water (Prevention and Control of Pollution) Cess Act -1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required.
- 3.4 The unit shall affix of water meters as per Section 4 (I) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved.
- 3.5 Adequate measures shall be taken to control odour problem from STP lother ancillary operations.
- 3.6 Applicant shall ensured & undertake on Rs. 100 stamp paper that it has no outlet in GIDC U/G drain.
- 3.7 Applicant shall strictly/fulfill the condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC- 3633/27240 dated: 22/09/2008.

4. CONDITIONS UNDER WATER ACT:

- 4.1 The domestic effluent generation from SEZ shall not exceed 80 KL/day.
- 4.2 Sewage shall be treated in to the sewage treatment plant to conform the following standards shall be used for on land gardening/plantation purpose within SEZ area.

| | |
|----------------------|-------------------|
| BOD (5 days at 20°C) | Less than 20 mg/l |
| Suspended Solids | Less than 30 mg/l |
| Residual Chlorine | Minimum 0.5 ppm |

5. CONDITIONS UNDER THE AIR ACT:

- 5.1 The following shall be used in D.G. Set.

| Sr. No. | Fuel | Quantity |
|---------|--------|-----------|
| 1. | Diesel | 40 lit/hr |

- 5.2 The flue gas emission through stack attached to D.G. Set shall conform to the following standards:-

| Stack No. | Stack attached to | Stack height (m) | APCM | Parameter | Permissible Limit |
|-----------|---------------------|------------------|------|----------------------------------|---|
| 1. | D.G. Set (62.5 KVA) | 11 | - | Particulate matter SO2 NOx | 150 mg/Nm ³ 100 ppm 50 ppm |



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

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Website : www.gpcb.gov.in

- 5.3 The applicant shall install and operate a comprehensive adequate air pollution control measures in order to achieve prescribed standards.
- 5.4 There shall be no process emission from the manufacturing process as well as any other ancillary operation.
- 5.5 Ambient air quality within the premises of the industry shall conform to the following standards:

| PARAMETER | PERMISSIBLE LIMIT |
|---|--|
| Suspended Particulate Matter (size less than 10um)or | PM10 100 microgram per cubic meter ug/m3** |
| Suspended Particulate Matter (size less than 2.5 um)or PM2.5 | 60 microgram per cubic meter ug/m3** |
| Oxides Of Sulphur** | 80 microgram per cubic meter |
| Oxides Of Nitrogen** | 80 microgram per cubic meter |

** 24 hourly or 08 hourly or 01 Hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time; they may exceed the limits but not on two consecutive days of monitoring.

Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to Institute regular or continuous monitoring and further investigation.

- 5.6 The applicant shall operate industrial plant I air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.
- 5.7 The consent to operate the industrial plant shall be liable for cancellation/revoke if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the condition
- 5.8 The applicant shall provide portholes, ladder, platform etc at chimney (s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 5.9 All measure for the control of environment pollution shall be provided before commencing production.

6 GENERAL CONDITIONS:

Clean Gujarat Green Gujarat

ISO-9001-2008 & ISO-14001 - 2004 Certified OrganisationPage 3 of 4

- 6.1 Any change in personnel, equipment or working conditions as mentioned in the consents Form/order should immediately be intimated to this Board.
- 6.2 The arrangement shall be made in each plant for drainage in such a way that all the quantity of effluent shall be taken to the central effluent treatment plant and no untreated waste water from any plant shall be discharged within the premises.
- 6.3 There shall be continuous flow recording devices for each plant to record the individual plant effluent going to the effluent treatment plant. There shall also be continuous flow recording devices at the inlet and outlet of the effluent treatment plant.
- 6.4 The Board reserves the right to review and lor revoke the consent and! or make variations in the conditions which the Board deems fit at any later date taking into consideration the circumstances, in accordance with Section 27 of the Act.
- 6.5 The following shall be used as fuel. In case of change of management the name and address of the new Directors shall immediately be intimated to the GPCB.
- 6.6 The consent granted shall lapse at any time if any parameters or any condition of this consent order are not complied with.

**For and on behalf of
Gujarat Pollution Control Board**



(A. V. Shah)

Sr. Environmental engineer

Outward No: 551863, 21/01/2020

COMPLIANCE REPORT OF CONSENT TO RENEWAL

For Water (Prevention and Control of Pollution) Amendment Act –1974, Air (Prevention and Control of Pollution) Amendment Act – 1981:

LIST OF PRODUCTS & PRODUCTION CAPACITY PER YEAR AS PER CONSET TO RENEWAL:

| Compliance of conditions under Water Act : Order Ref. No.: AWH-104709, Date- 22/10/2019 | | | | | | |
|--|---|--|-------------------|------------------|-------------------|---|
| Sr. No. | CONDITION | COMPLIANCE REPORT | | | | |
| 1. | This consent is valid up to | 04/08/2024 | | | | |
| 3. | SPECIFIC CONDITIONS: | | | | | |
| 3.1 | Applicant shall strictly comply/Fulfill the given conditions of EC OF DAHEJ SEZ, issued vide NO-21-1084 12007-IA.III DATED 17/03/2010. | DSL is strictly comply/Fulfill the given conditions of EC OF DAHEJ SEZ, issued vide NO-21-1084 12007-IA.III DATED 17/03/2010. | | | | |
| 3.2 | The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority. | DSL is not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority. | | | | |
| 3.3 | The unit shall affix of water meters as per Section 4(I) of the water (Prevention and Control of Pollution) Cess Act – 1977 for the purpose of measuring and recording and recording the quantity of water consumed at such places as may be required. | We do comply with this condition | | | | |
| 3.4 | The unit shall affix of water meters as per Section 4(I) of the water (Prevention and Control of Pollution) Cess Act – 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved. | We do comply with this condition | | | | |
| 3.5 | Adequate measures shall be taken to control odour problem from STP lother ancillary operations. | DSL has installed STP as per requirement and reuses / recycled sewage water for plantation. | | | | |
| 3.6 | Applicant shall ensured & undertaken on Rs. 100 stamp paper that it has no outlet in GIDC U /G drain. | DSL is ensured & undertaken on Rs. 100 stamp paper that it has no outlet in GIDC U /G drain. | | | | |
| 3.7 | Applicant shall strictly / fulfill the condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC-3633/27240 dated: 22/09/2008. | DSL is strictly / fulfill the condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC-3633/27240 dated: 22/09/2008. | | | | |
| 4. | CONDITIONS UNDER WATER ACT: | | | | | |
| 4.1 | The domestic effluent generation from SEZ shall not exceed 80 KL/day. | The domestic effluent generation from SEZ will not exceed 80 KL/day. | | | | |
| 4.2 | Sewage shall be treated in to the sewage treatment plant to conform the following standards shall be used for on land gardening / plantation purpose within SEZ area. <table><tr><td>BOD (5 days at 20⁰C)</td><td>Less than 20 mg/l</td></tr><tr><td>Suspended Solids</td><td>Less than 30 mg/l</td></tr></table> | BOD (5 days at 20 ⁰ C) | Less than 20 mg/l | Suspended Solids | Less than 30 mg/l | Sewage treated in sewage treatment plant as per GPCB standards and will use the treated waste water for flushing of toilets, horticulture and HVAC purposes, in that order. |
| BOD (5 days at 20 ⁰ C) | Less than 20 mg/l | | | | | |
| Suspended Solids | Less than 30 mg/l | | | | | |

| | | | | | | | | | | | | | | | |
|--|---|------------------|-----------------------------------|----------------------------|---|--|--|--------------------------------------|---|------------------------------|----------------------|------------------------------|-----------------------------------|--|---|
| | Residual Chlorine | Minimum 0.5 ppm | | | | | | | | | | | | | |
| 5. | CONDITIONS UDNER THE AIR ACT: | | | | | | | | | | | | | | |
| 5.1 | The following shall be used in D.G.Set. <table><tr><td>Sr.No.</td><td>Fuel</td><td>Quantity</td></tr><tr><td>1.</td><td>Diesel</td><td>40 lit/hr</td></tr></table> | | Sr.No. | Fuel | Quantity | 1. | Diesel | 40 lit/hr | DSL has used only low sulphur diesel type to run diesel generator sets during Operation phase to follow the Environment (Protection) rules prescribed for air and noise emission standards. | | | | | | |
| Sr.No. | Fuel | Quantity | | | | | | | | | | | | | |
| 1. | Diesel | 40 lit/hr | | | | | | | | | | | | | |
| 5.2 | The flue gas emission through stack attached to D.G. Set shall conform to the following standards:- <table><tr><td>Stack No.</td><td>Stack attached to</td><td>Stack height (m)</td><td>APC M</td><td>Parameter</td><td>Permis sible Limit</td></tr><tr><td>1.</td><td>D.G. Set (62.5 KVA)</td><td>11</td><td>-</td><td>Particulate matter SO2 NOX</td><td>150 mg/N m³ 100 ppm 50 ppm</td></tr></table> | | Stack No. | Stack attached to | Stack height (m) | APC M | Parameter | Permis sible Limit | 1. | D.G. Set (62.5 KVA) | 11 | - | Particulate matter SO2 NOX | 150 mg/N m ³ 100 ppm 50 ppm | DSL will use D.G. Sets as a source of backup power during operation phase. The height of stack of DG sets is calculated and established to the height needed for the combined capacity of all proposed DG sets. DSL has used only low sulphur diesel type to run diesel generator sets during Operation phase to follow the Environment (Protection) rules prescribed for air and noise emission standards. |
| Stack No. | Stack attached to | Stack height (m) | APC M | Parameter | Permis sible Limit | | | | | | | | | | |
| 1. | D.G. Set (62.5 KVA) | 11 | - | Particulate matter SO2 NOX | 150 mg/N m ³ 100 ppm 50 ppm | | | | | | | | | | |
| 5.3 | The applicant shall install and operate a comprehensive adequate air pollution control measures in order to achieve prescribed standards. | | We do comply with this condition. | | | | | | | | | | | | |
| 5.4 | There shall be no process emission from the manufacturing process as well as any other ancillary operation. | | There is no process emission. | | | | | | | | | | | | |
| 5.5 | Ambient air quality within the premises of the industry shall conform to the following standards: <table><tr><td>PARAMETER</td><td>PERMISSIBLE LIMIT</td></tr><tr><td>Suspended Particulate Matter (size less than 10um) or</td><td>PM10 100 microgram per cubic meter ug/m3**</td></tr><tr><td>Suspended Particulate Matter (size less than 2.5um) or PM2.5</td><td>60 microgram per cubic meter ug/m3**</td></tr><tr><td>Oxides of Sulphur**</td><td>80 microgram per cubic meter</td></tr><tr><td>Oxides of Nitrogen**</td><td>80 microgram per cubic meter</td></tr></table> ** 24 hourly or 08 hourly or 01 Hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time; they may exceed the limits but not on two consecutive days of monitoring. Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to Institute regular or continuous monitoring and further investigation. | | PARAMETER | PERMISSIBLE LIMIT | Suspended Particulate Matter (size less than 10um) or | PM10 100 microgram per cubic meter ug/m3** | Suspended Particulate Matter (size less than 2.5um) or PM2.5 | 60 microgram per cubic meter ug/m3** | Oxides of Sulphur** | 80 microgram per cubic meter | Oxides of Nitrogen** | 80 microgram per cubic meter | We do comply with this condition. | | |
| PARAMETER | PERMISSIBLE LIMIT | | | | | | | | | | | | | | |
| Suspended Particulate Matter (size less than 10um) or | PM10 100 microgram per cubic meter ug/m3** | | | | | | | | | | | | | | |
| Suspended Particulate Matter (size less than 2.5um) or PM2.5 | 60 microgram per cubic meter ug/m3** | | | | | | | | | | | | | | |
| Oxides of Sulphur** | 80 microgram per cubic meter | | | | | | | | | | | | | | |
| Oxides of Nitrogen** | 80 microgram per cubic meter | | | | | | | | | | | | | | |
| 5.6 | The applicant shall operate industrial plant I air pollution control equipment very efficiently and continuously of that the gaseous emission always conforms to the given standards. | | We do comply with this condition. | | | | | | | | | | | | |
| 5.7 | The consent to operate the industrial plant shall be liable for cancellation / revoke if at any time the parameters of the gaseous emission are not within | | We do comply with this condition. | | | | | | | | | | | | |

| | | |
|-----------|---|--|
| | the tolerance limits specified in the condition. | |
| 5.8 | The applicant shall provide portholes, ladder, platform etc at chimney (s) for monitoring the air emissions and the same shall be open for inspection to land for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted displayed to facilitate identification. | We have provide portholes, ladder, platform etc. at chimney(s) for monitoring the air emissions and the same has been open for inspection to/ and for use of Board's staff. The chimney(s) vent attached to various sources of emission has been designed by number such as S-1, S-2, etc. and painted / displayed to facilitate identification. |
| 5.9 | All measure for the control of environment pollution shall be provided before commencing production. | We have provided all measure for the control of environment pollution. |
| 6. | GENERAL CONDITIONS: | |
| 6.1 | Any change in personnel, equipment or working conditions as mentioned in the consents Form/order should immediately be intimated to this Board. | Any change in personnel, equipment or working conditions as mentioned in the consents form/order we will immediately be intimated to this Board. |
| 6.2 | The arrangement shall be made in each plant for drainage in such a way that all the quantity of effluent shall be taken to the central effluent treatment plant and no untreated waste water from any plant shall be discharged within the premises. | We do comply with this condition. |
| 6.3 | There shall be continuous flow recording device for each plant to record the individual plant effluent going to the effluent treatment plant. There shall also be continuous flow recording devices at the inlet and outlet of the effluent treatment plant. | We do comply with this condition. |
| 6.4 | The Board reserves the right to review and lor revoke the consent and! Or make variations in the conditions which the Board deems fir at any later date taking into consideration the circumstances, in accordance with Section 27 of the Act. | We do comply with this condition. |
| 6.5 | The following shall be used as fuel. In case of change of management the name and address of the new Directors shall immediately by intimated to the GPCB. | In case of change of management the name and address of the new Directors we will immediately by intimated to the GPCB. |
| 6.6 | The consent granted shall lapse at any time if any parameters of any condition of this consent order are not complied with. | We agree with this condition. |

For M/s Dahej sez ltd