DAHEJ SEZ LIMITED

(A Joint Venture of GIDC & ONGC)
Office of Dahej SEZ Limited, Dahej SEZ Part-1,
At & Post - Dahej, Ta -Vagra, Dist - Bharuch (Gujarat)
E-mail: am@dahejsez.com / info@dahejsez.com
Website : www.dahejsez.com, CIN - U45209GJ2004PLC044779

Azadi Ka Amrit Mahotsav

Ref No.: DSL/Agency/Environmental Clearance/153

Date:~~29.06~~.2024
09.07.

To

Deputy Director General of Forests (C)

Ministry of Environment, Forest & Climate Change

Integrated Regional Office

Integrated Regional Office, Gandhi Nagar A wing- 407 & 409,

Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010

Sub: Submission of Half Yearly compliance report (Period: October 2023 to March 2024) of Environment Clearance (EC) & Coastal Regulation Zone (CRZ) Clearance obtained for Development of M/s. Dahej SEZ Limited (SPV of GIDC & ONGC) located at Tal. Vagra, District Bharuch, Gujarat.

Ref: 1. Environment Clearance letter no. 21-1084/2007-IA.III dated 17th March 2010

2. CRZ Clearance letter no. F. No. 11-50/2011-IA.II dated 19th September 2014

Dear Sir,

The above referred Environment Clearance (EC) and Coastal Regulation Zone (CRZ) clearance were granted to M/s. Dahej SEZ Limited located at Taluka Vagra, District Bharuch under the EIA Notification – 2006 and CRZ Notification – 2011 respectively.

Half yearly compliance reports (Period: October 2023 – March 2024) for Environment Clearance (EC) and Coastal Regulation Zone (CRZ) clearance obtained for Development of M/s. Dahej SEZ Limited is enclosed for your kind consideration.

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

In light of above facts, we request your kind self to consider our submission favourably and do the needful & oblige.

Thanking you.

Yours Faithfully,

For **DAHEJ SEZ LIMITED**

(AUTHORIZED SIGNATORY)

Encl.: a/a

DAHEJ SEZ LIMITED

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Azadi Ka Amrit Mahotsav

Ref No.: DSL/Agency/Environmental Clearance/154

Date:~~29.06~~.2024
09.07.

To,

The Regional Officer

Gujarat Pollution Control Board

Shed No. C-1/119/3, Phase-II,

GIDC Estate, Narmada Nagar,

Bharuch – 392015, Gujarat

Sub: Submission of Half Yearly compliance report (Period: October 2023 – March 2024) of Environment Clearance (EC) & Coastal Regulation Zone (CRZ) Clearance obtained for Development of M/s. Dahej SEZ Limited (SPV of GIDC & ONGC) located at Tal. Vagra, District Bharuch, Gujarat.

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(AUTHORIZED SIGNATORY)

Encl.: a/a

29/7/24
Post Received
Gujarat Pollution Control Board
BHARUCH

DAHEJ SEZ LIMITED

Report on Compliances to Environment Clearance

October 2023 to March 2024

For

M/s. Dahej SEZ Limited

(Joint Venture of GIDC & ONGC)

Located At
Village: Dahej, Taluka: Vagra, District Bharuch

Registered Office:
Block No. 14th, 3rd Floor, Udyog Bhavan, Gandhinagar – 382017, Gujarat

[EC Letter No: F. NO. 21-1084/2007-IA.III Dated: 17.03.2010]
[Period: October 2023 – March 2024]

Applicant

M/s. Dahej SEZ Ltd.
Block No. 14th, 3rd Floor, Udyog Bhavan,
Gandhinagar – 382017, Gujarat
E-mail: info@dahejsez.com
Tel No: +91-079-23241590, 29750838

Report Prepared by

Ecosystem Resource Management Pvt. Ltd.
Office floor, Ashoka Pavilion'A', New Civil Road,
Surat, Gujarat.
(QCI/NABET ACCREDITED NO. NABET/EIA/1720/RA 051)
E-mail: eco@ecoshripad.com
Tel No: +912612236223

TABLE OF CONTENTS

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.

M/s. Dahej SEZ Ltd. has obtained EC from MoEF&CC vide letter no. F. No. 21-1084/2007-IA.III dated 17th March 2010 and CC&A from GPCB vide order no. AWH-104709 or letter no. GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 dated 21.01.2020 valid up to 04.08.2024.

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).

As per EC clearance (letter no: F.No.21-1084/2007-IA.III dated 17th March 2010 issued by MoEF&CC) condition no. 12, it is mandatory to submit six monthly compliance report to Region Office Bhopal.

COMPLIANCE TO CONDITIONS STIPULATED IN ENVIRONMENT CLEARANCE

S. No.	Conditions	Compliance status
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.	**Complied.** M/s. Dahej SEZ Limited (DSL) has already obtained the Consent to Establish (CTE) vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22.09.2008 and unit is already having the valid Consent to Operate (CTO/CC&A) vide order no. AWH-104709 letter no. GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 dated 21.01.2020, valid up to 04.08.2024. Copy of the CTO is enclosed here as **Annexure-1**.
(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.	**Complied.** M/s. DSL has kept the area open falling under CRZ and no activity shall be carried out into the area falls under the CRZ purview. Moreover, separate CRZ clearance is also obtained vide letter no. 11-50/2011-IA.III dated 19.09.2014 and the copy of the same is enclosed as **Annexure-2**.
(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.	**Being complied.** M/s. DSL is complying with all the commitments from DSL authority and suggestions by committee given 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	**Noted & Agreed.** M/s. DSL has excluded the portion of the 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.	**Complied.** The demarcation of HTL/LTL lines and CRZ area was carried by Institute of Remote Sensing, Anna University, Chennai.

(vi)	Separate CRZ Clearance shall be obtained by M/s. Dahej SEZ Ltd. For the area falling under CRZ.	**Complied.** M/s. DSL has already 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-2**.
(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.	**Complied.** M/s. 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. The list of allottees whose plots are partly affected under CRZ notification is enclosed here as **Annexure-4**.
(viii)	Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.	**Complied.** M/s. 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-1**.
(ix)	Treated waste water shall be used for flushing of toilets, horticulture and HVAC purposes, in that order.	**Complied.** M/s. DSL has provided the sewage treatment plant for the treatment of domestic sewage as per the GPCB standards and is utilizing 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.	**Noted & Agreed.** Local construction labours are hired from the nearby villages; hence provision of housing to the construction workers is not required. Moreover, facility of safe drinking water, mobile toilets, emergency first aid facilities etc. are provided to them during the time of construction activities.
(xi)	A first Aid Room will be provided in the project both during construction and operation of the project.	**Complied.** First Aid Room was provided during the construction of the project. Two medical centers are in vicinity of Dahej SEZ area i.e., Dahej Health & Welfare Society Hospital and Primary Health Centre, Dahej. In addition to above, major units in SEZ develop Occupational Health Centre (OHC) within their plot premises in Dahej SEZ area.
(xii)	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	**Noted & Agreed.** Top soil excavated during construction activities is utilized for horticulture/landscape development within the project site only.
(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,	**Noted & Agreed.** M/s. DSL has taken note of the same and complied with this condition.

	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.	**Being complied.** Ground water samples are being taken frequently and analysis report of the same is also been reviewed by the DSL authority. According to the reports, there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. The analysis reports of the ground water quality are enclosed as **Annexure-5**.
(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.	**Noted & Agreed.** M/s. DSL has used the construction spoils or waste for levelling the site. M/s. 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.	**Not Applicable.** There is no generation of any hazardous waste 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.	**Complied.** DSL is using 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.	**Not Applicable.** DSL procured diesel as and when required and hence this condition 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.	**Being complied.** 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 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	**Being complied.** An ambient noise level conforms to residential standards both during day and night. Ambient air 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.

	ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / Gujarat PCB.	The analysis reports of the ambient noise levels and air quality are enclosed as **Annexure-5**.
(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).	**Not Applicable.** As no thermal power station is located within the 100 km from M/s. DSL. Hence, this condition is not applicable.
(xxii)	Ready mixed concrete must be used in building construction.	**Complied.** M/s. DSL is using only the ready-mix concrete for building construction.
(xxiii)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	**Noted & Agreed.** M/s. DSL has noted the 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.	**Noted & Agreed.** As M/s. DSL is using only the ready-mix concrete and curing agents and other latest technologies for 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.	**Not Applicable.** 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.	**Complied.** M/s. DSL has used dual plumbing line for separation of gray water and black water in administration buildings of 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.	**Complied.** M/s. DSL has already 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 wherever feasible.
(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 quality double glass with special reflective coating in windows.	**Noted & Agreed.** M/s. DSL has taken note of this condition and also asked the member units to reduce electricity by implementation of high-quality double glass with special reflective coating in windows.
(xxix)	Roof should meet prescriptive requirement as per energy conservation building code by using	**Noted & Agreed.** The design of the building will be done as per energy conservation building code by using appropriate thermal insulation material to

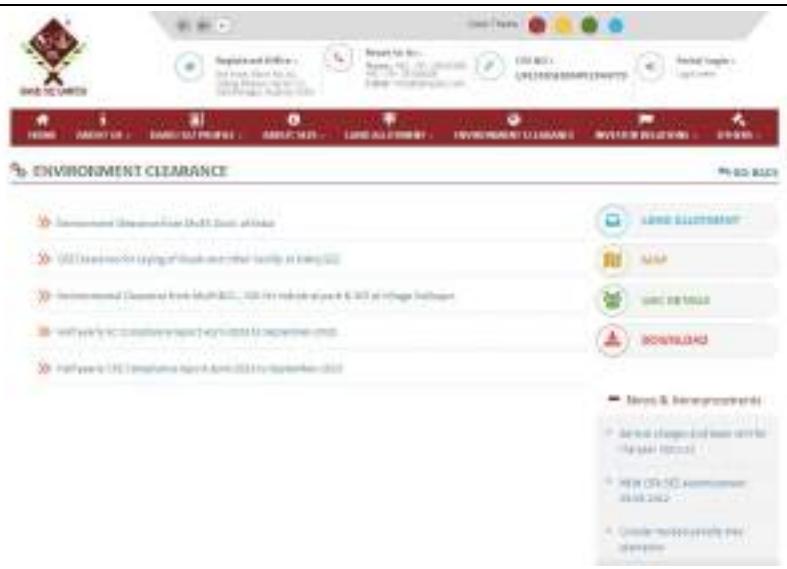
	appropriate thermal insulation material to fulfil requirement.	fulfill requirement
(xxx)	Opaque wall should meet prescriptive requirement as per energy conservation building code which is proposed to be mandatory for all air-conditioned spaces which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air conditioned spaces by use of appropriate thermal insulation material to fulfil Requirement.	**Complied.** M/s. DSL have constructed Opaque wall as per the energy conserving building construction code to conservation of energy also used the 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 fire fighting equipment, etc. as per National building code including protection measures from lightening etc.	**Complied.** The approval of the competent authority is 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.
(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.	**Being complied.** 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 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	**Complied.** M/s. DSL has installed STP as per requirement and reuses/recycled sewage water for plantation. Schematic Flow Diagram of STP is enclosed as **Annexure-6**.

	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.	**Complied.** 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-1**.
(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.	**Not applicable.** The member units procuring the land in the SEZ area have to obtain 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.	**Noted & Agreed.** M/s. DSL is using 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. M/s. DSL is using only Low Sulphur Diesel (LSD) to run diesel generator sets during operation phase to follow the Environment (Protection) rules prescribed for air and noise emission standards.
(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.	**Being complied.** 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. Half yearly comprehensive Ambient noise quality monitoring reports (October' 2023 to March' 2024) are enclosed as **Annexure-5**.
(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.	**Complied.** Green belt (Approx. 1,89,392 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. Photograph of the greenbelt development patches and plantation at the boundary and center of the roads are attached here as **Annexure-10**.
(vii)	Weep holes in the compound walls shall be provided to ensure natural	**Complied.** M/s. DSL has provided weep holes in the compound walls so that,

	drainage of rain water in the catchment area during the monsoon Period.	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.	**Complied.** M/s. DSL has already implemented rain water harvesting for roof run-off and surface run-off.
(ix)	The ground water level and its quantity should be monitored regularly in consultation with Central Ground Water Authority.	**Being complied.** DSL is monitoring Ground water quality regularly and Ground water quality reports are enclosed as **Annexure-5**.
(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.	**Complied.** M/s. DSL has already made the arrangements to avoid Traffic congestion near the entry and exit points.
(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.	**Noted & Agreed.** M/s. 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.	**Complied.** M/s. DSL has installed CFL/LED 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. DSL has already installed solar panels having capacity of 50 KW.
(xiii)	Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	**Noted & Agreed.** M/s. DSL will take adequate measures to prevent odour problem from STP. There is no 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	**Noted & Agreed.** M/s. DSL is following prevailing GDCR for SEZ and adequate distance is maintained to comply the condition.

	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.	**Noted & Agreed.** M/s. 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.	**Being complied.** DSL is regularly submitting half yearly EC compliance report for the period of April to September and October to March, to the Ministry's Integrated Regional office at Gandhinagar, the respective Zonal Office of CPCB at Vadodara and GPCB R.O. at Bharuch well within the stipulated time.
4.	Officials from 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 documents submitted to MoEF should be forwarded to the CCF, Regional Office of MoEF Bhopal.	**Abide by the condition.** We are bounded to provide full co-operation, facilities and documents/data to the Ministry's Integrated Regional office at Gandhinagar and we are also submitting the complete set of required documents with EC compliance to Integrated Regional office of MoEF, Gandhinagar every six months as per the condition of Environment Clearance.
5.	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	**Abide by the condition.** We will obtain the fresh appraisal prior to any change(s) in the scope of the project.
6.	The Ministry reserves right to add additional safeguard measures subsequently, if found necessary and to take action including revoking the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	**Noted & Agreed.**
7.	All other statutory clearance such as 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, as applicable by project proponents from the respective competent authorities.	**Complied.** We have obtained all necessary statutory & regulatory clearance from the concerned authorities.

8.	These stipulations would be enforces 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.	**Noted & Agreed.**
9.	The project proponent should advertise in at least two local Newspapers widely circulated I the region, one of which shall be in the vernacular language informing that the project has been accorded Environment Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also sent to the website of the Ministry of Environment and Forest at https://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.	**Complied.** We have already published the advertisement in two local newspapers after obtaining the EC from MoEF&CC as below: **Vernacular language (Gujarati)** Name of the publication: Gujarat Prabha (Bharuch Edition) Date of publication: 28.04.2020 Name of the publication: Sandesh (Vadodara Edition) Date of publication: 29.04.2020 **Other language (English)** Name of publication: Gujarat Samachar (Vadodara Edition) Date of publication: 29.04.2010 **Cut-outs of the newspaper advertisements are attached here as Annexure-8.**
10.	Environment 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.	**Noted & Agreed.**
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.	**Noted & Agreed.** There was no appeal raised against the Environment Clearance to Environment Appellate Authority.
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.	**Complied.** We have already submitted the copy of Environment Clearance to the concerned authorities and we have also uploaded the copy of EC letter and last submitted compliance report on our website. **Photograph of website**

13.	The proponent shall upload the status of compliance 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 representative Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO2, NOX (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.	 **Link:** http://www.dahejsez.com/ec/ The compliance report for the period of April 2023 to September 2023 is already submitted to Ministry's Integrated Regional office at Gandhinagar through speed post. Acknowledge copy of the same is attached here as **Annexure-8**.
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.	**Complied.** We have already submitted the Environment Statement (Form-V) to GPCB for the financial year 2023-2024 as per the mandatory requirement under EPA, 1986, as amended subsequently. Copy of the same is attached here as **Annexure-9**.

SUMMARY

M/s. Dahej SEZ Limited (DSL) is a SPV developed jointly by Gujarat Industrial Development Corporation (GIDC) and Oil & Natural Gas Corporation (ONGC) for development of SEZ. DSL is developing multi-product SEZ at Dahej in Vagra Taluka of Bharuch district in Gujarat, India.

DSL falls under Gujarat PCPIR (Petroleum, Chemical and Petrochemical Investment Region) area declared by Ministry of Chemicals and Fertilizers, Govt. of India under PCPIR policy 2007.

M/s. Dahej SEZ Ltd. has obtained EC from MoEF&CC vide letter no. F. No. 21-1084/2007-IA.III dated 17th March 2010, CTE from GPCB vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22.09.2008. and CC&A from GPCB vide order no. AWH-104709 date of issue: 22.10.2019 or letter no. GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 dated 21.01.2020.

The authority has awarded contract for the Environmental monitoring and preparation of six-monthly EC compliance report to Ecosystem Resource Management Pvt. Ltd. The consultancy firm has its own well-equipped laboratory to measure the pollution parameters related to Environmental Monitoring (Air, Water, Wastewater, Soil) with National Accreditation Board for Testing and Calibration Laboratories (NABL) accreditation. All monitoring equipment's are available to measure Stack emissions, Ambient Air quality and noise level of various plants.

Six monthly compliance reports along with monitoring data are regularly submitted to the concerned department and during monitoring period of this report RO visit has not been conducted. All the conditions stipulated in EC clearance was compiled by the project proponent.

ANNEXURES

Annexure-1: Consent to Establish (CTE) & Consolidated Consent & Authorization (CC&A)

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/ 24240

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).

SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS: -

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

1

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 confirming 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 seep 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 & nearly 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

2

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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 confirming 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 confirm 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.

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 & improrvious 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 complied 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, NOX, 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_x	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_2S	500 Microgram/M^3
HF	60 Microgram/M^3
CO	5000 Microgram/M^3
CS_2	2000 Microgram/M^3

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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.

46. 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)

5

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. Dalal)
ENVIRONMENTAL ENGINEER

6

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

GPCB

Inward No. 0824
Date : 11/1/2020
Dahej SEZ Limited,Dahej

BY R.P.A.D

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

NO:-GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 Date: 23/01/2020

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

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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-I, 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:**

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

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 22/9/14

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 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, SO_2, NOx (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)


DAHEJ SEZ DEVELOPMENT PLAN
SEZ PART - II
SEZ PART - I
NON SEZ AREA
SRF
DAHEJ SEZ LTD.
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

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 (500m 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 - II (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

N

Note:

1. *Coastal Regulation Zone Map of the site is prepared considering Approved CZMP as per CRZ Notification 2011 of MoEF, GoI*
2. *Superimposition of Approved CZMP is subject to scale and generalisation error*
3. *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*
4. *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

0 250 500 1,000 1,500 2,000 M

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.M.Tech.,Ph.D., Director, Institute of Remote Sensing, Anna University, Chennai-600 025.

Date 14-3-22

Map Set - 1
12 to 12

Annexure 4: List of Allottees

Sr. No.	Name & Address	Plot No.	Approx. Area (in Sq. Mtr.)
Part –I Processing Area			
1	ONGC Petro Additions Ltd. (OPAL)	Z/1, Z/83	50,30,046.74
		Z/83/1	54,001.27
		Z/84/1/B & Road- Corridor area	2,15,058.40
2	Pidilite Industries Ltd.	Z/2	2,01,503.90
3	DIC Fine Chemicals Pvt. Ltd.	Z/3	2,01,268.89
4	Neesa Infrastructure Ltd.	Z/88/3	18,650.00
	Neesa Infrastructure Ltd.	Z/88/2	11,955.99
5	Indofil Industries Limited (Dahej SEZ Unit)	Z/8	62,640.45
6	Firmenich Aromatics Production (India) Pvt. Ltd.	Z/10	2,19,145.32
7	Glomet Technologies Pvt. Ltd.	Z/22	9,375.00
8	Meghmani Industries Ltd.	Z/6	75,730.00
		Z/10/1	3,270.00
9	Sarju Impex Limited	Z/13	26,152.40
10	Meghmani Organics Ltd.	Z/31 Z/32	87,055.13
11	Meghmani Unichem Limited Liability Partnership	Z/34	53,853.17
12	Panama Petrochem Ltd.	Z/23 Z/24	16,262.08
13	Torrent Power Ltd.	Z/9	11,07,157.94
14	Torrent Power Ltd.	Z/21	18,060.41
15	Sigachi Industries Pvt. Ltd.	Z/16	10,776.77
16	P&J Cretechem (P) Ltd.	Z/17 Z/18	20,695.00
17	Ramdev Chemical Industries	Z/19 Z/20	20,000.00
18	Gujarat Dyestuff Industries	Z/25 Z/26 Z/27 Z/28	74,473.28
19	Sun Pharmaceutical Industries Ltd.	Z/15	89,280.25
20	CS Performance Chemicals Pvt. Ltd.	Z/33	20,639.37
21	CS Performance Chemicals Pvt. Ltd.	Z/76 Z/77	10,000.00
22	Roxul Rockwool Insulation India Pvt. Ltd.	Z/4	94,162.82
23	Aries Colorchem Pvt. Ltd.	Z/29 Z/30	34,899.30
24	Gujarat State Petronet Limited	Z/7	5,506.57
25	Breeze Intermediates Pvt. Limited	Z/39	5,000.00
26	Bharat Sanchar Nigam Limited	Part of Plot Z/14/1	300.00
27	Shiva Pharma Chem Limited	Z/88 Z/88/4	1,10,491.26
28	Thema Nutriment & Packaging Pvt. Ltd.	Z/73 Z/74 Z/75	16,525.95
29	APPL Industries Ltd.	Z/45 Z/46 Z/47	31,720.59
30	Euclid Constructions Limited	Z/68	2,677.09
31	Fernas Construction India Pvt. Ltd.	Z/55	11,593.06
32	Indo Baijin Chemicals Pvt. Ltd.	Z/7/1	50,000.00

Sr. No.	Name & Address	Plot No.	Approx. Area (in Sq. Mtr.)
33	Indofil Industries Ltd.	Z/12/1	50,222.66
34	Bitumode International Pvt. Ltd.	Z/43 Z/44	12,547.83
35	Kumar Organic Products Ltd.	Z/35 Z/36 Z/37 Z/38	21,261.72
36	Accent Microcell Pvt. Ltd.	Z/59 Z/60 Z/63 Z/64	20,060.45
37	Unique Techno Associates Pvt. Ltd.	Z/41 Z/42	10,000.00
38	Babaji Shivram Clearing & Carriers Pvt. Ltd.	Z/70	7,084.23
39	Mascon Color Chem Pvt. Ltd.	Z/12/2	12,974.62
40	Camlin fine Sciences Ltd	Z/78 Z/79	10,005.83
41	Astra Specialty Compounds India Pvt. Ltd.	Z/56 Z/57 Z/58 Z/65 Z/66 Z/67	29,629.81
42	Prakash Chemicals International Pvt. Ltd.	Z/53 Z/54	12,529.31
43	Annie Chemie Pvt. Ltd.	Z/40	5,034.13
44	Ana Industries Pvt. Ltd.	Z/88/1	10,241.31
45	Axiom Chemicals Pvt. Ltd.	Z/80	5,001.82
46	Omgene Life Science Pvt. Ltd.	Z51 & Z/52	12,509.00
47	Soft Rainbow Pvt. Ltd.	Z/71 & Z/72	22,081.41
48	CS Specialty Chemicals Ltd.	Z/81 & Z/82	9,886.12
49	Vidhi Specialty Food Ingredients Ltd	Z/61 & Z/62	10,060.40
50	Insecticides (India) Ltd.	Z/50	6,301.92
51	Agro Life Sciences Corporation	Z/86/C	25,013.02
52	Sigachi Inustries Ltd.	Z/85/1/A	80,000.00
53	Fame Biofuels Pvt. Ltd.	Z/87/A	18,094.49
54	Steamhouse India Ltd.	Z/85/2/A1	20,011.74
55	Meghna colour chem Pvt. Ltd.	Z/85/2/A2	15,001.90
56	Uma Corporation	Near Customs gate Part-1	124.04
Sub-Total (A)			**84,45,606.15**
Part-II Processing Area			
1	Oil and Natural Gas Corporation Ltd. C2-C3 Plant – Dahej	7-D	5,98,010.78
2	Godrej & Boyce Mfg. Co. Ltd. *	Z/90 & Z/91	2,24,845.01
			1,87,179.59
3	ISGEC Heavy Engineering Ltd. *	Z/89	2,25,138.00
4	Rallis India Ltd.	Z/110	83,110.70
		Z/112	1,55,419.17
5	Torrent Power Ltd.	Z/101/1	47,187.76
6	Torrent Pharmaceuticals Ltd.	Z/104, Z/105, Z/106	2,75,726.66
		Z/107	98,445.60
7	Fermenta Biotech Ltd.	Z/109/B Z/109/C	30,689.39
8	Gujarat State Petronet Limited	Z/112/A	6,095.43
9	Coromandal International Ltd.	Z/103/G	51,659.39
10	Bharat Sanchar Nigam Limited	Part of Plot from Z/100/1	720.82

Sr. No.	Name & Address	Plot No.	Approx. Area (in Sq. Mtr.)
11	Hindusthan M-I Swaco Limited	Z/109/A	54,368.65
12	Glenmark Pharmaceuticals Limited	Z/103/I	67,165.21
13	Tega Industries Ltd.	Z/103/J	98,703.09
14	Tatva Chintan Pharma Chem Pvt. Ltd.	Z/103/F/I	20,098.45
		Z/103/F/2	31,724.19
15	Benzo Chem Industries Pvt. Ltd.	Z/103/D	47,613.19
16	Aarti Industries Ltd.	Z/103/H	50,148.40
17	Ajanta Pharma Limited	Z/103/A	85,034.32
18	RAKS Pharma Pvt. Ltd.	Z/111/A	67,221.45
19	Holtec Asia Pvt. Ltd.	Z/103/E	36,758.12
20	Milan Laboratories (I) Pvt. Ltd.	Z/96/A	37,663.14
21	Dorf Ketal (I) Pvt. Ltd.	Z/108	86,565.06
22	Thermax Ltd.	Z/96/C	60,074.48
23	Neogen Chemicals Ltd.	Z/109	49,829.04
24	Yashashvi Rasayan Pvt. Ltd.	Z/96/E	71,101.90
25	Camlin fine Sciences Ltd	Z/96/D	67,816.77
26	HLE Engineers Pvt. Ltd.	Z/96/B	43,502.42
27	IPG Asia Pvt. Ltd.	Z/103/B	82,120.33
28	Trustin Tape Pvt. Ltd.	Z/111/E	59,827.85
29	Hema Dyechem Pvt. Ltd.	Z/112/B	19,836.99
30	Aarti Industries. Ltd.	Z/103/C	54,754.33
31	Roha Dyechem Pvt Ltd.	Z/101	35,705.25
32	Aarti Industries. Ltd.	Z/111/C & D	1,15,022.45
		Z/111/B	53,495.24
33	Neogen Ionics Ltd.	Z/109/D	6,455.25
34	Uma Corporation	Near Customs gate Part-2	124.04
Sub Total (B)			**33,86,957.91**
Part-III – Non-Processing Area			
1	Sapthagiri Hospitality Pvt. Ltd.	Z/4/3	41,090.00
2	Shrikunj Hospitality Pvt. Ltd.	Z/4/1	26,302.61
3	ISGEC Heavy Engineering Ltd.	Z/94/C	6,139.62
4	Godrej & Boyce Mfg. Co. Ltd.	Z/94/D	8,310.92
Sub Total (C)			**81,843.15**
Grand Total (A + B + C)			**1,19,14,407.21**

Copy of comprehensive Monitoring Report

Period: October 2023 to March 2024

ENVIRONMENT MONITORING REPORT

Period: October 2023 to March 2024

FOR

DAHEJ SEZ LIMITED

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

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

Report Prepared by

Ecosystem Resource Management Pvt. Ltd.

Office Floor, Ashoka Pavilion'A', New Civil Road, Surat, Gujarat.
(NABL ACCREDITED NO. TC-6603)
E-mail: eco@ecshripad.com
Tel No: +912612231630

INDEX

1. METEOROLOGICALMONITORING REPORT

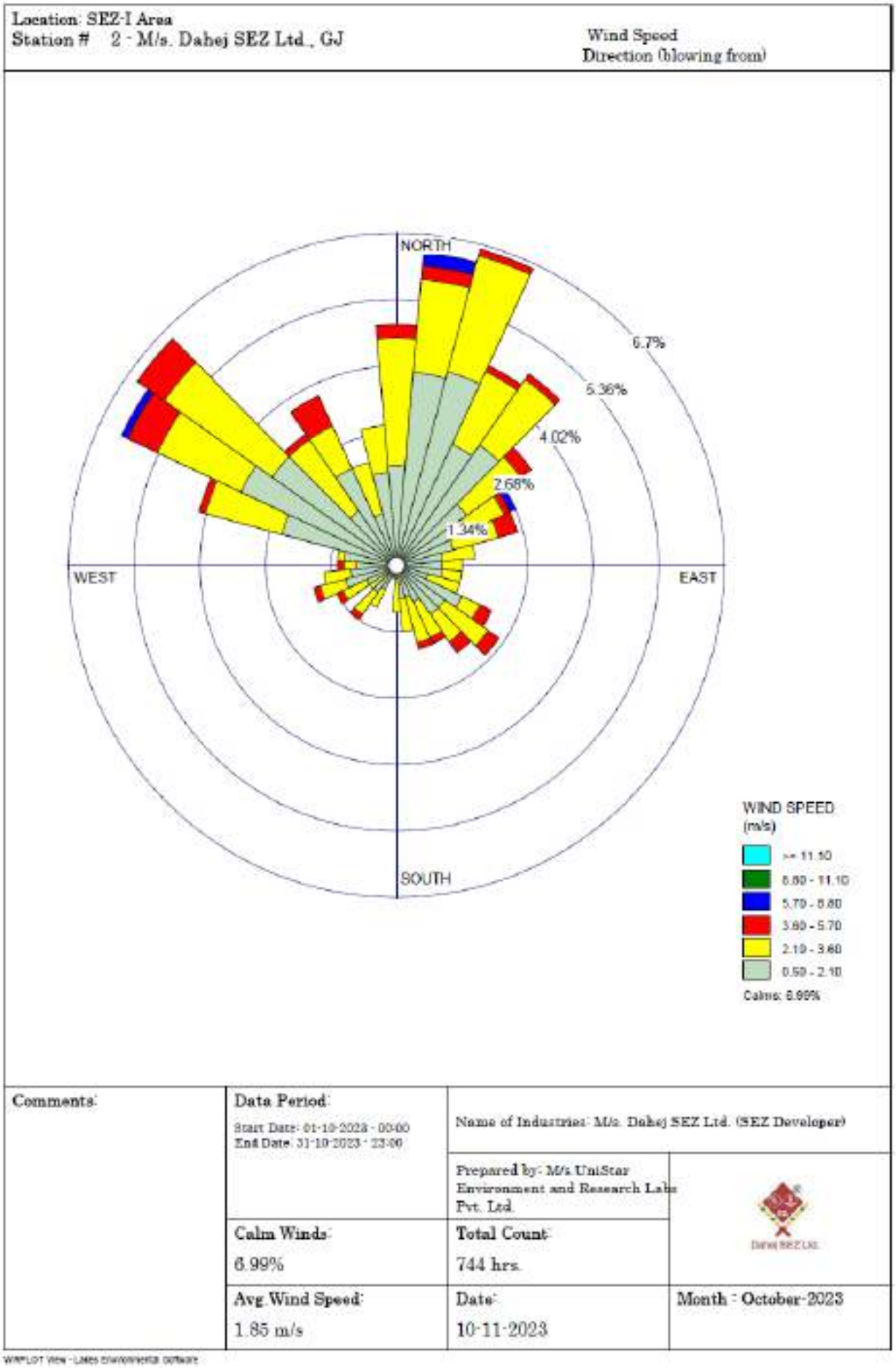
Period: October 2023 to March 2024

FOR

DAHEJ SEZ LIMITED

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

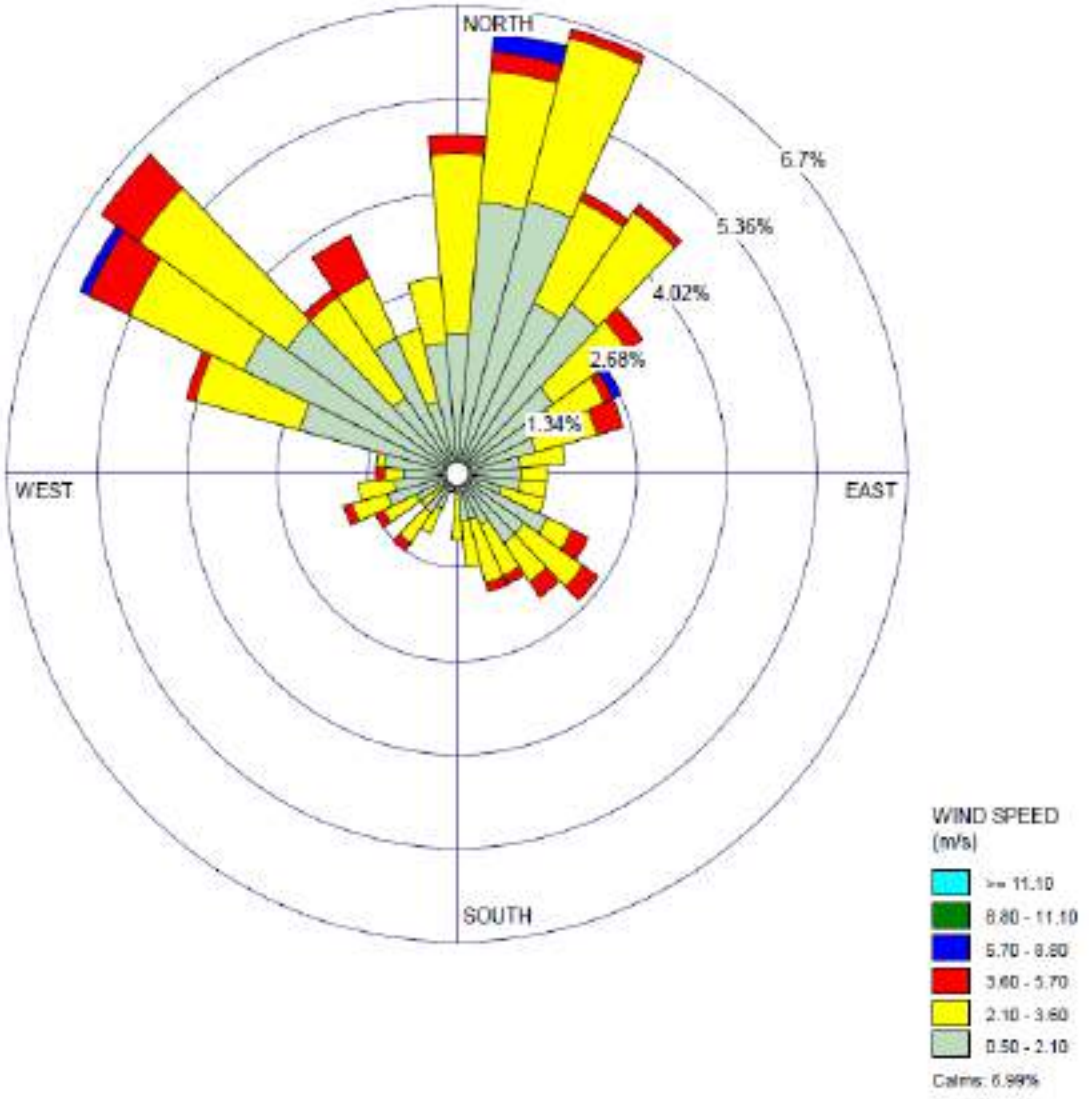
Located at
Dahej SEZ Part - I
At & Post: Dahej, Taluka – Vagra,
Dist. Bharuch – 392 140, Gujarat



1.1. WIND ROSE DIAGRAM: OCTOBER 2023

Location: SEZ-I Area
Station # 2 - M/s. Dahej SEZ Ltd., GJ

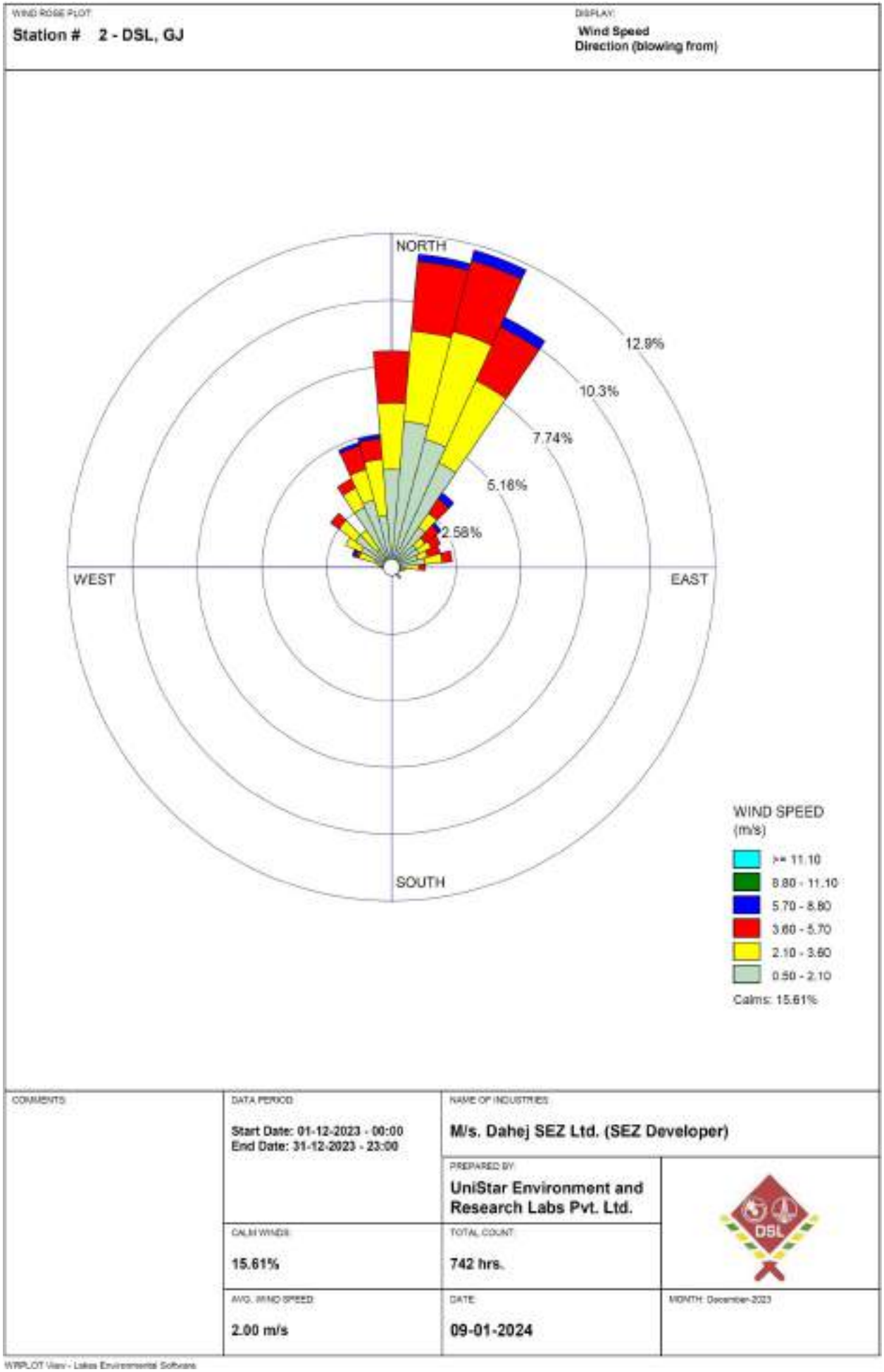
Wind Speed
Direction (blowing from)



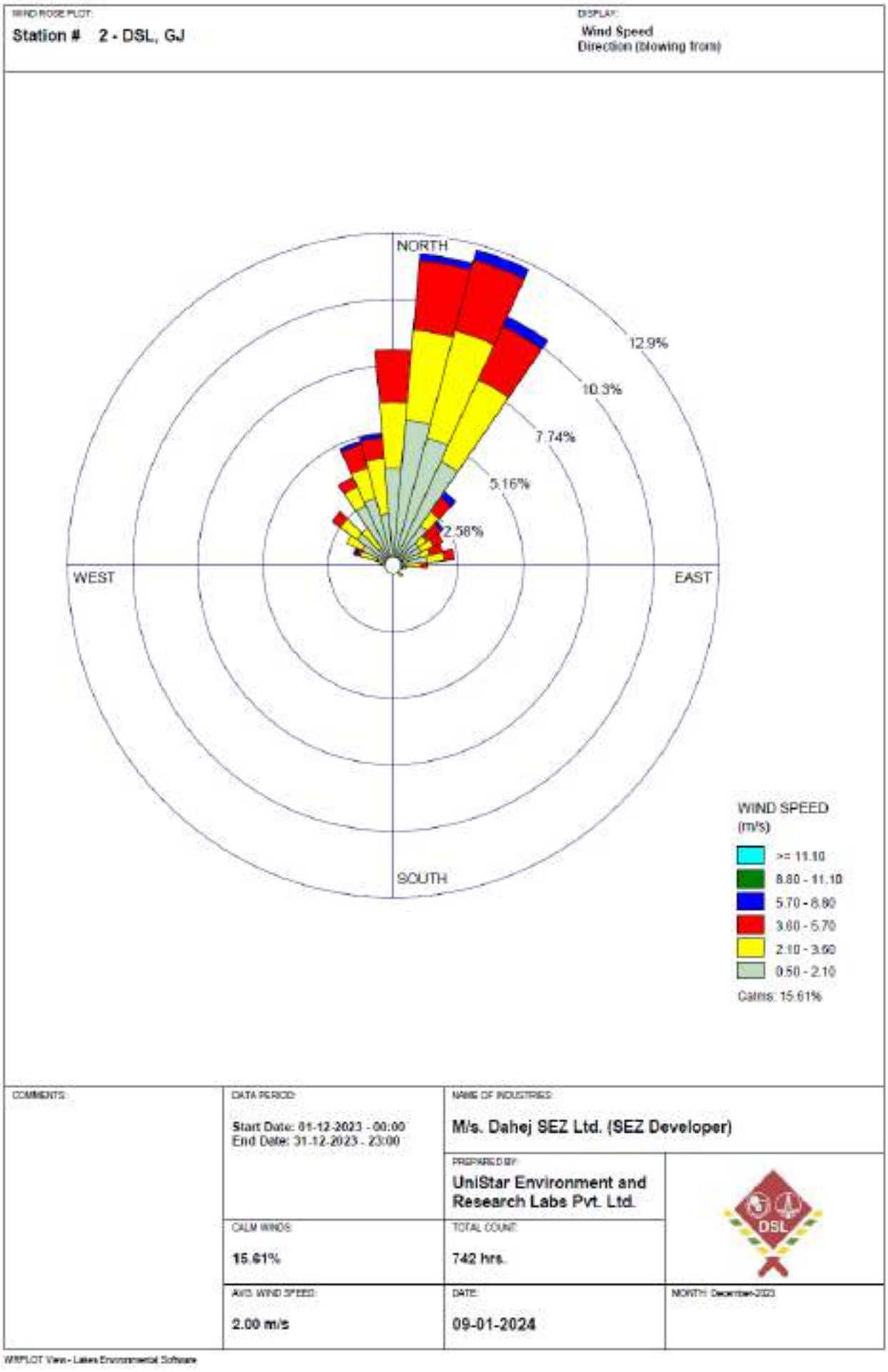
Comments:	Data Period: Start Date: 01-10-2023 - 00:00 End Date: 31-10-2023 - 23:00	Name of Industries: M/s. Dahej SEZ Ltd. (SEZ Developer)	
		Prepared by: M/s UniStar Environment and Research Labs Pvt. Ltd.	
	Calm Winds: 6.99%	Total Count: 744 hrs.	
	Avg Wind Speed: 1.85 m/s	Date: 13-12-2023	Month : November-2023

WRPLOT View - Lakes Environmental Software

1.2. WIND ROSE DIAGRAM: NOVEMBER 2023



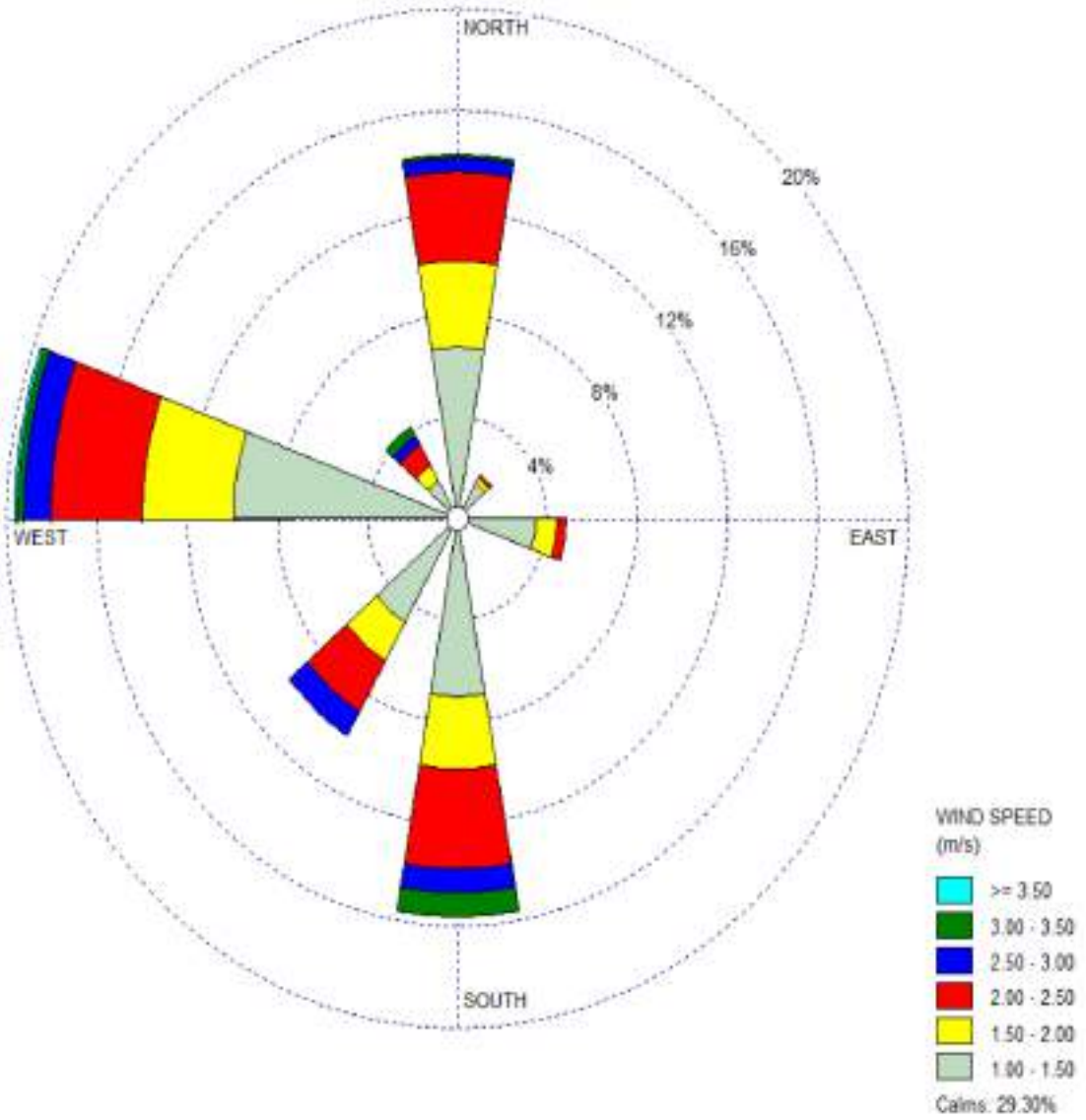
1.3. WIND ROSE DIAGRAM: DECEMBER 2023



1.4. WIND ROSE DIAGRAM: JANUARY 2024

WIND ROSE PLOT:
Station # 2 - DAHEJ SEZ, GJ

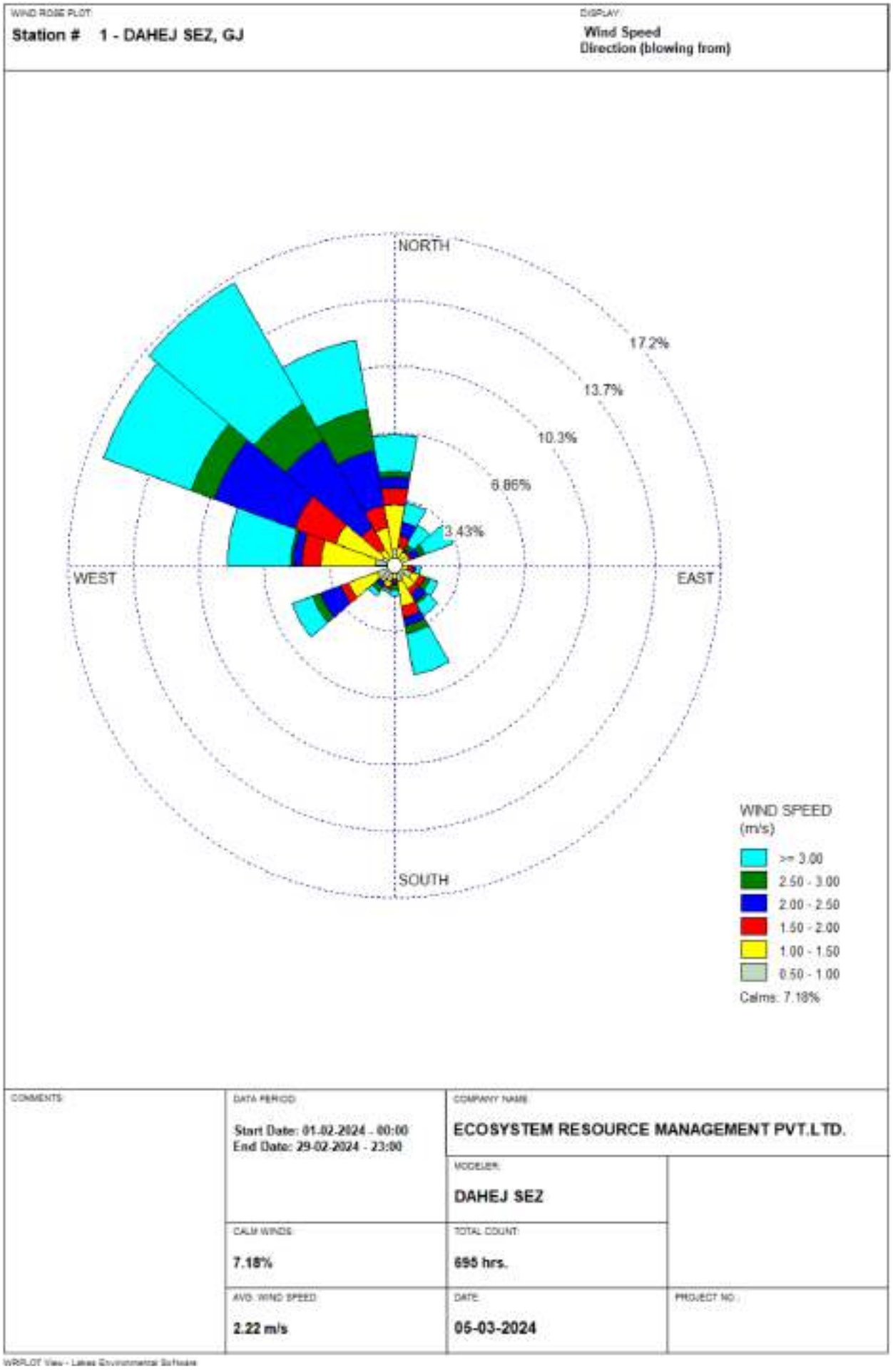
DISPLAY:
Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 01-01-2024 - 00:00** **End Date: 31-01-2024 - 23:00**	COMPANY NAME: **ECOSYSTEM RESOURCE MANAGEMENT PVT.LTD.**	
		MODELER: **DAHEJ SEZ**	
	CALM WINDS: **29.30%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **1.17 m/s**	DATE: **09-02-2024**	PROJECT NO.: **01**

WRPLOT View - Lakes Environmental Software

1.5. WIND ROSE DIAGRAM: FEBRUARY 2024



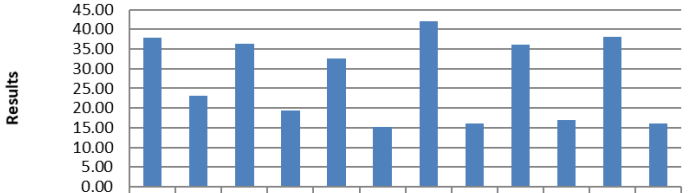
1.6. WIND ROSE DIAGRAM: MARCH 2024

1.7. Meteorological Monitoring Data (October 2023to March 2024)

Location: SEZ-I Area Latitude: 21°42'39"N Longitude: 72°36'26"E		Period: October 2023 to March 2024 Instrument: AW0003& AW002 (During October 2023 to March 2024)				
Month	**Max./Min.**	**Temperature (^{0}C)**	**Relative Humidity (%)**	**Wind Direction (degrees)**	**Wind Speed (km/h)**	**Rain (mm)**
October 2023	Max.	37.9	92.0	359.0	7.35	0.0
	Min.	23.1	37.0	0	0.0	0.0
November 2023	Max.	36.3	96.0	359.0	9.3	34.5
	Min.	19.3	37.0	0	0.03	0.0
December 2023	Max.	32.5	93.0	359.0	7.6	0.0
	Min.	15.2	47.0	0	0.1	0.0
January 2024	Max.	42.0	99.0	315.0	13.3	0.0
	Min.	16.0	61.0	0	0.0	0.0
February 2024	Max.	36.0	98.0	338.0	23.4	0.0
	Min.	17.0	19.0	0	0.0	0.0
March 2024	Max.	38.0	87.0	338.0	21.0	0
	Min.	16.0	19.0	0	0	0
Max.		**42.0**	**99.0**	**359.0**	**23.4**	**34.5**
Min.		**15.2**	**19.0**	**0.0**	**0.0**	**0.0**

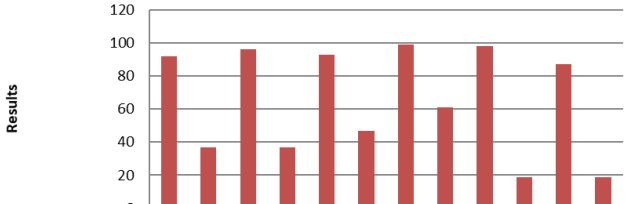
Parameter wise Graphical Representation of Meteorological data

Temperature (0C)



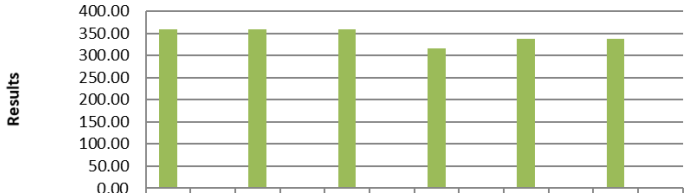
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Temperature (0C)	37.90	23.10	36.30	19.30	32.50	15.20	42.00	16.00	36.00	17.00	38	16

Relative Humidity (%)



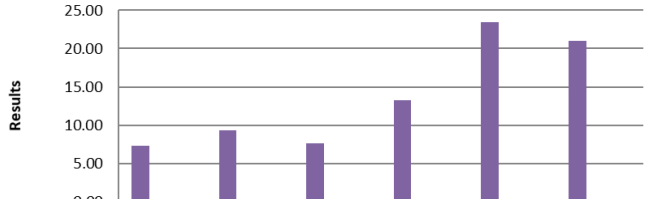
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Relative Humidity (%)	92	37	96	37	93	47	99	61	98	19	87	19

Wind Direction (degrees)



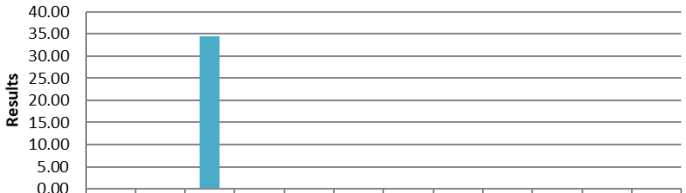
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Wind Direction (degrees)	359.0	0.00	359.0	0.00	359.0	0.00	315.0	0.00	338.0	0.00	338	0

Wind Speed (km/h)



	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Wind Speed (km/h)	7.35	0.00	9.30	0.03	7.60	0.10	13.30	0.00	23.40	0.00	21	0

Rain (mm)



	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Rain (mm)	0.00	0.00	34.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0

2. AMBIENT AIR QUALITY MONITORING REPORT

Period: October 2023 to March 2024

FOR

DAHEJ SEZ LIMITED

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

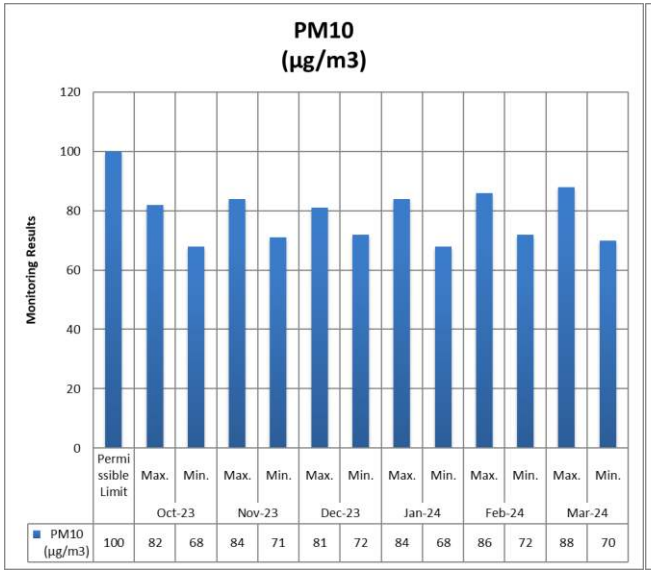
Located at
Dahej SEZ Part - I
At & Post: Dahej, Taluka – Vagra,
Dist. Bharuch – 392 140, Gujarat

2.1. Ambient Air Quality Monitoring Data, SEZ-I, Admin Building (October2023 to March 2024)

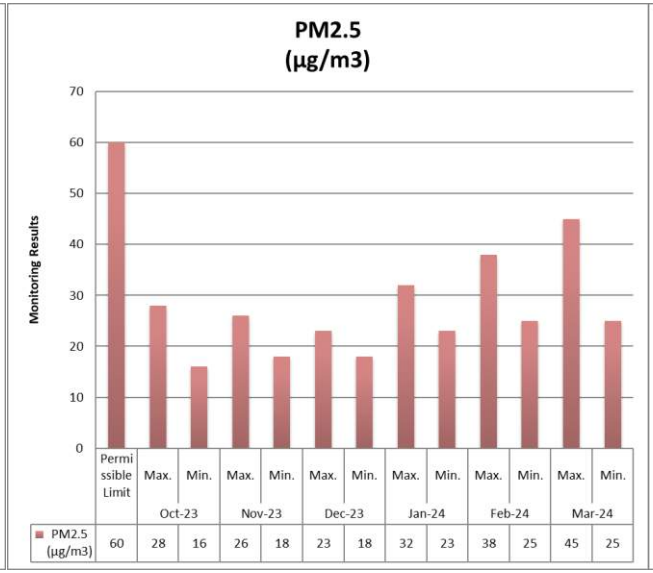
Location: SEZ-I, Admin Building Latitude: 21.7111303 N Longitude: 72.6073576 E	Period: October 2023 to March 2024 Instrument: RDS APM 460 BL (Sr.No. 2386-DTG-2018) & FPS APM 550 MINI (Sr.No. 672-DTC-2018) and PM10 & PM2.5 COMBO SAMPLER (Sr. No. 200604138) [During October 2023 to March 2024]

Month	Max./Min.	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)	CO ($\mu g/m^3$)	Total VOC as Isobutylene (ppm)
October 2023	Max.	82.0	28.0	18.4	24.1	220.0	N.D
	Min.	68.0	16.0	13.6	15.2	120.0	N.D
November 2023	Max.	84.0	26.0	18.7	22.4	280.0	N.D
	Min.	71.0	18.0	12.5	17.2	130.0	N.D
December 2023	Max.	81.0	23.0	18.8	23.1	260.0	N.D
	Min.	72.0	18.0	13.5	17.5	140.0	N.D
January 2024	Max.	84.0	32.0	28.0	28.0	356.0	1.0
	Min.	68.0	23.0	8.0	8.0	241.0	0.4
February 2024	Max.	86.0	38.0	22.6	18.5	362.0	0.8
	Min.	72.0	25.0	12.4	10.6	252.0	0.4
March 2024	Max.	88.0	45.0	22.3	20.1	376.0	0.9
	Min.	70.0	25.0	10.7	9.5	264.0	0.3
Max.		**88.0**	**45.0**	**28.0**	**28.0**	**376.0**	1.0
Min.		**68.0**	**16.0**	**8.0**	**8.0**	**120.0**	0.3/ND

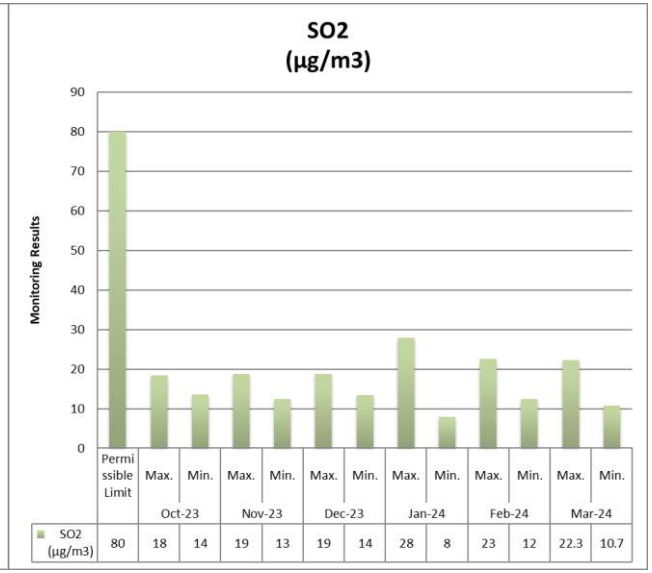
Parameter wise Graphical Representation of Ambient Air Quality at SEZ-I, Admin Building



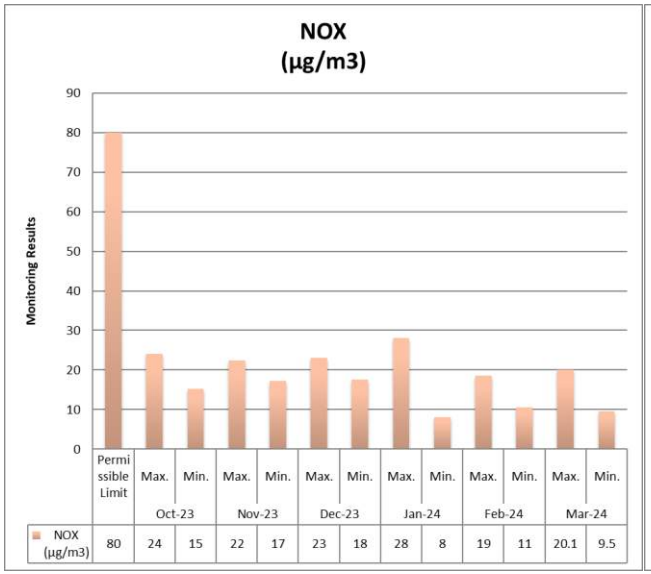
	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
PM10 (µg/m3)	100	82	68	84	71	81	72	84	68	86	72	88	70



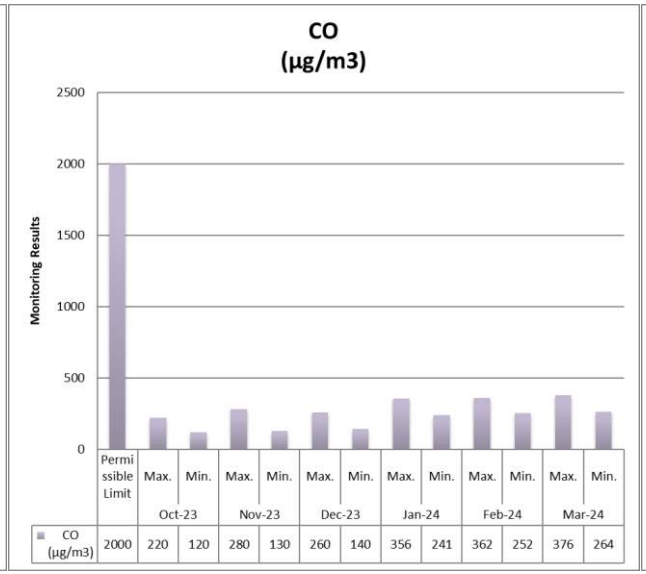
	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
PM2.5 (µg/m3)	60	28	16	26	18	23	18	32	23	38	25	45	25



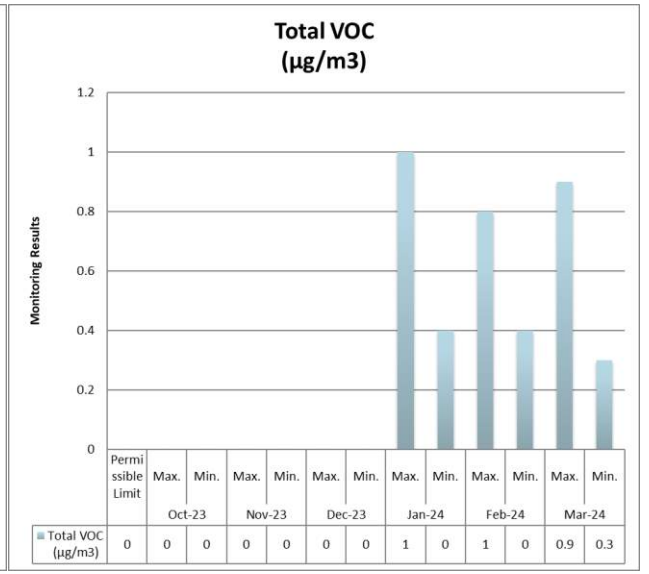
	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
SO2 (µg/m3)	80	18	14	19	13	19	14	28	8	23	12	22.3	10.7



	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
NOX (µg/m3)	80	24	15	22	17	23	18	28	8	19	11	20.1	9.5



	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
CO (µg/m3)	2000	220	120	280	130	260	140	356	241	362	252	376	264



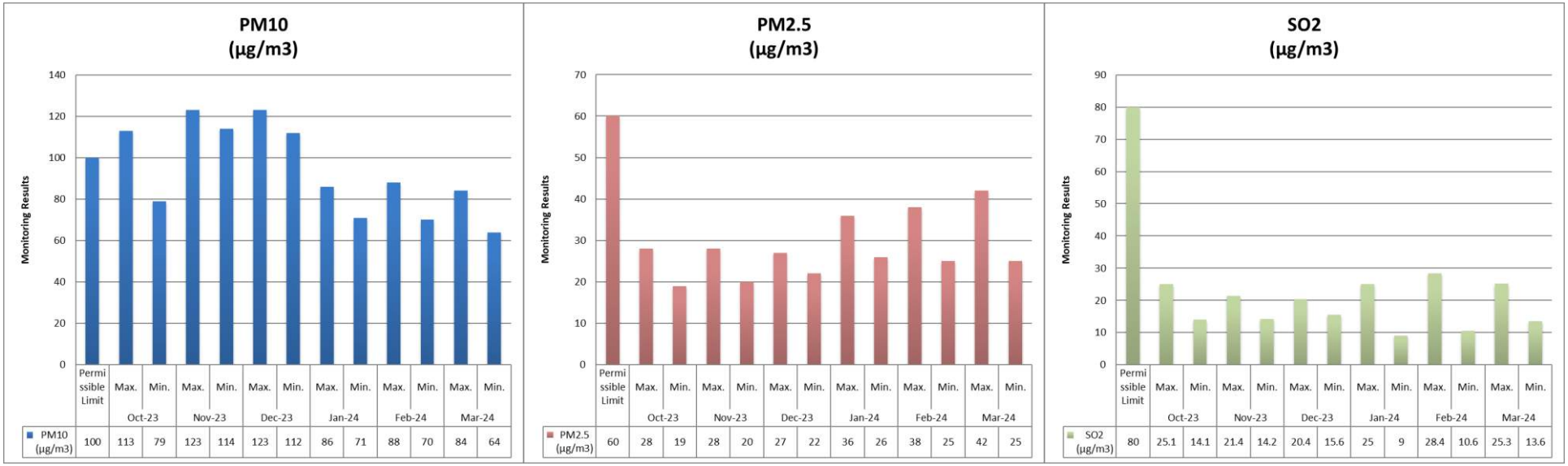
	Permissible Limit	Oct-23 Max.	Oct-23 Min.	Nov-23 Max.	Nov-23 Min.	Dec-23 Max.	Dec-23 Min.	Jan-24 Max.	Jan-24 Min.	Feb-24 Max.	Feb-24 Min.	Mar-24 Max.	Mar-24 Min.
Total VOC (µg/m3)	0	0	0	0	0	0	0	1	0	1	0	0.9	0.3

2.2. Ambient Air Quality Monitoring Data, SEZ-II, Admin Building (October 2023 to March 2024)

Location: SEZ-II, Admin Building Latitude: 21.6866532 N Longitude: 72.5548602 E	Period: October 2023 to March 2024 Instrument: RDS APM 460 BL (Sr.No. 2374-DTF-2012) & FPS APM 550 MINI (Sr.No. 668-DTF-2018) and PM10 & PM2.5 COMBO SAMPLER (Sr. No. 200604139) [During October 2023 to March 2024]

Month	Max./Min.	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)	CO ($\mu g/m^3$)	Total VOC as Isobutylene (ppm)
October 2023	Max.	113.0	28.0	25.1	30.9	510.0	N.D
	Min.	79.0	19.0	14.1	17.4	170.0	N.D
November 2023	Max.	123.0	28.0	21.4	24.6	470.0	N.D
	Min.	114.0	20.0	14.2	18.9	180.0	N.D
December 2023	Max.	123.0	27.0	20.4	24.5	420.0	N.D
	Min.	112.0	22.0	15.6	19.4	190.0	N.D
January 2024	Max.	86.0	36.0	25.0	22.0	345.0	1.4
	Min.	71.0	26.0	9.0	10.0	219.0	0.5
February 2024	Max.	88.0	38.0	28.4	23.4	342.0	1.2
	Min.	70.0	25.0	10.6	11.6	265.0	0.4
March 2024	Max.	84.0	42.0	25.3	23.4	324.0	0.9
	Min.	64.0	25.0	13.6	11.6	245.0	0.5
Max.		**123.0**	**42.0**	**28.4**	**30.9**	**510.0**	**1.4**
Min.		**64.0**	**19.0**	**9.0**	**10.0**	**170.0**	**0.4/ND**

Parameter wise Graphical Representation of Ambient Air Quality at SEZ-II, Admin Building

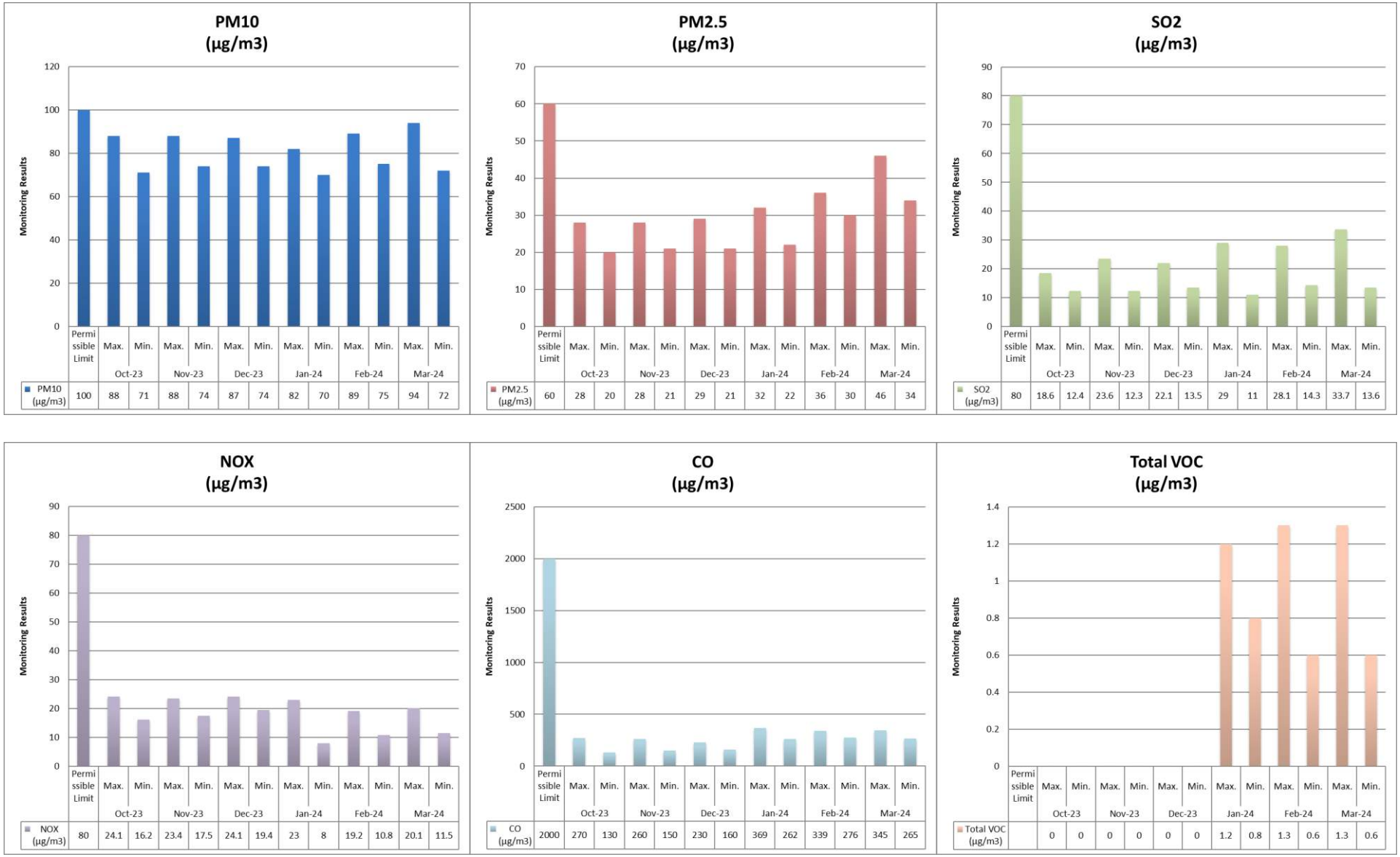


2.3. Ambient Air Quality Monitoring Data, SEZ-I, Fire Station (October2023 to March 2024)

Location: SEZ-I, At Fire Station Latitude: 21.6984606 N Longitude: 72.6313318 E	Period: October 2023 to March 2024 Instrument: RDS APM 460 BL (Sr.No. 2386-DTG-2018) & FPS APM 550 MINI (Sr.No. 672-DTC-2018) and PM10 and PM 2.5 (Combo Sampler) Sr. No. 200604138) [During October 2023 to March 2024]

Month	Max./Min.	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_X ($\mu g/m^3$)	CO ($\mu g/m^3$)	Total VOC as Isobutylene (ppm)
October 2023	Max.	88.0	28.0	18.6	24.1	270.0	N.D
	Min.	71.0	20.0	12.4	16.2	130.0	N.D
November 2023	Max.	88.0	28.0	23.6	23.4	260.0	N.D
	Min.	74.0	21.0	12.3	17.5	150.0	N.D
December 2023	Max.	87.0	29.0	22.1	24.1	230.0	N.D
	Min.	74.0	21.0	13.5	19.4	160.0	N.D
January 2024	Max.	82.0	32.0	29.0	23.0	369.0	1.2
	Min.	70.0	22.0	11.0	8.0	262.0	0.8
February 2024	Max.	89.0	36.0	28.1	19.2	339.0	1.3
	Min.	75.0	30.0	14.3	10.8	276.0	0.6
March 2024	Max.	94.0	46.0	33.7	20.1	345.0	1.3
	Min.	72.0	34.0	13.6	11.5	265.0	0.6
Max.		**94.0**	**46.0**	**33.7**	**24.1**	**369.0**	**1.3**
Min.		**70.0**	**20.0**	**11.0**	**8.0**	**130.0**	**0.6 / ND**

Parameter wise Graphical Representation of Ambient Air Quality at SEZ-I, Fire Station



3. NOISE LEVEL MONITORING REPORT

Period: October 2023 to March 2024

FOR

DAHEJ SEZ LIMITED

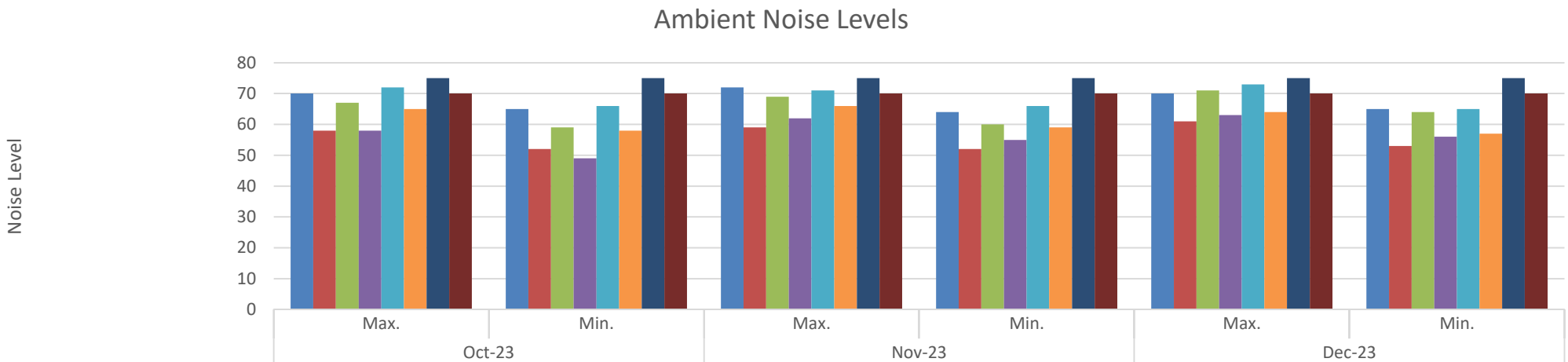
M/s. Dahej SEZ Ltd. (SEZ Developer)

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

3.1. Ambient Noise Level Monitoring Data (October2023 to December 2023)

Period: October 2023 to December 2023	Sampling Method : LUTRON							
Month	**Max./Min.**	**SEZ- 1 (Fire Station)**		**SEZ- 2 (Admin Office)**		**SEZ- 1 (Admin Office)**		**SEZ- 1 (SEZ-I ,GIDC Raw Water Tank)**	
		Day time	**Night time**	**Day time**	**Night time**	**Day time**	**Night time**	**Day time**	**Night time**
October 2023	Max.	68.0	57.0	57.0	57.0	66.0	57.0	58.0	58.0
	Min.	48.0	44.0	47.0	45.0	46.0	44.0	41.0	51.0
November 2023	Max.	72.0	59.0	58.0	58.0	61.0	57.0	-	-
	Min.	64.0	52.0	51.0	47.0	46.0	41.0	-	-
December 2023	Max.	67.0	57.0	59.0	54.0	62.0	54.0	60.0	57.0
	Min.	43.0	41.0	51.0	47.0	51.0	41.0	46.0	42.0
Max.		**72.0**	**61.0**	**71.0**	**63.0**	**73.0**	**66.0**	**72.0**	**66.0**
Min.		**64.0**	**52.0**	**59.0**	**49.0**	**65.0**	**57.0**	**64.0**	**57.0**
Permissible Limit Day Time		**<75 (6:00 am to 10:00 pm)**							
Permissible Limit Night Time		**<70 (10:00 pm to 6:00 am)**							

Graphical Representation of Ambient Noise Quality

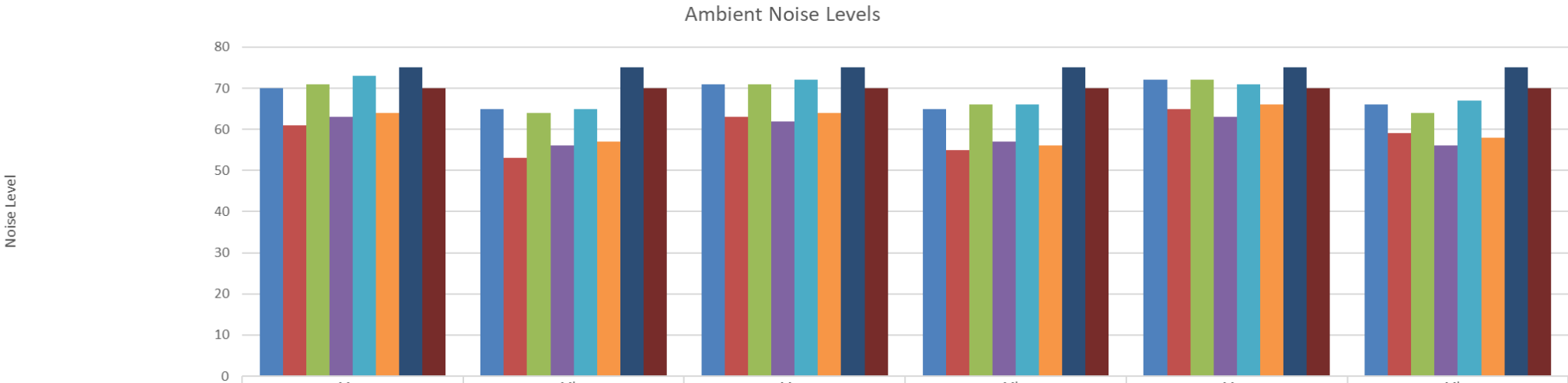


	Oct-23		Nov-23		Dec-23	
	Max.	Min.	Max.	Min.	Max.	Min.
SEZ-I, Fire Station Day time	70	65	72	64	70	65
SEZ-I, Fire Station Night time	58	52	59	52	61	53
SEZ-II, Admin Office Day time	67	59	69	60	71	64
SEZ-II, Admin Office Night time	58	49	62	55	63	56
SEZ-I, Admin Office Day time	72	66	71	66	73	65
SEZ-I, Admin Office Night time	65	58	66	59	64	57
Permissible Limit Day time	75	75	75	75	75	75
Permissible Limit Night time	70	70	70	70	70	70

3.2. Ambient Noise Level Monitoring Data (January 2024 to March 2024)

Period: January 2024 to March 2024	Sampling Method : IS 9989-1981(Reaffirmed 2001)							
Month	**Max./Min.**	**SEZ- 1 (Nr. Admin)**		**SEZ- 2 (Nr. Admin)**		**SEZ- 1 (Pumping Station)**		**SEZ- 2 (Pumping Station)**	
		Day time	**Night time**	**Day time**	**Night time**	**Day time**	**Night time**	**Day time**	**Night time**
January 2024	Max.	70.0	61.0	71.0	63.0	73.0	64.0	72.0	65.0
	Min.	65.0	53.0	64.0	56.0	65.0	57.0	64.0	58.0
February 2024	Max.	71.0	63.0	71.0	62.0	72.0	64.0	72.0	63.0
	Min.	65.0	55.0	66.0	57.0	66.0	56.0	65.0	58.0
March 2024	Max.	72.0	65.0	72.0	63.0	71.0	66.0	72.0	64.0
	Min.	66.0	59.0	64.0	56.0	67.0	58.0	67.0	56.0
Max.		**72.0**	**65.0**	**72.0**	**63.0**	**73.0**	**66.0**	**72.0**	**65.0**
Min.		**65.0**	**53.0**	**64.0**	**56.0**	**65.0**	**56.0**	**64.0**	**56.0**
Permissible Limit Day Time		**<75 (6:00 am to 10:00 pm)**							
Permissible Limit Night Time		**<70 (10:00 pm to 6:00 am)**							

Graphical Representation of Ambient Noise Quality



	Jan-24		Feb-24		Mar-24	
	Max.	Min.	Max.	Min.	Max.	Min.
SEZ- 1 (Nr. Admin) Day time	70	65	71	65	72	66
SEZ- 1 (Nr. Admin) Night time	61	53	63	55	65	59
SEZ- 2 (Nr. Admin) Day time	71	64	71	66	72	64
SEZ- 2 (Nr. Admin) Night time	63	56	62	57	63	56
SEZ- 1 (Pumping Station) Day time	73	65	72	66	71	67
SEZ- 1 (Pumping Station) Night time	64	57	64	56	66	58
Permissible Limit Day time	75	75	75	75	75	75
Permissible Limit Night time	70	70	70	70	70	70

4. WATER QUALITY MONITORING REPORT

Period: October 2023 to March 2024

FOR

DAHEJ SEZ LIMITED

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

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

4.1. Ground Water Quality Monitoring Data (October 2023 to December 2023)

Ground Water Sample		Month	October 2023			November 2023			December 2023	
		Date of Sampling	27/10/23	27/10/23	27/10/23	11/11/23	11/11/23	11/11/23	23/12/23	23/12/23
Location			Dahej	Luvara	Suva	Lakhigam	Dahej	Luvara	Lakhigam	Suva
S. No.	Test Parameters	Unit	Result							
01.	Temperature	°C	30	30	30	29.5	29	29	29	29
02.	pH @ 25°C	pH unit	8.14	7.80	7.56	8.22	8.31	8.14	8.90	8.29
03.	Colour	Pt. Co. Scale	30	20	30	20	30	30	10	10
04.	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
05.	Turbidity	NTU	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
06.	TDS	mg/L	2700	240	2400	1206	218	2556	2312	5004
07.	Total Alkalinity	mg/L	510	90.9	131.3	271.3	72.1	924.6	301.5	384.4
08.	Chloride	mg/L	342.3	20.1	402.7	262.7	15.1	341.2	269.9	1194.6
09.	Sulphate	mg/L	60.5	28.2	55.8	38.2	30.1	55.2	55.5	42.2
10.	Nitrate	mg/L	2.2	0.4	1.2	3.2	1.2	8.5	2.2	4.2
11.	Phenolic compound	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)
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)

Note: BDL=Below Detection Limit**, MDL = Minimum Detection Limit, Turbidity = 0.1 = 5.60 NTU, 6.10 NTU or 7.76 NTU**

4.2. Ground Water Quality Monitoring Data (January 2024 to March 2024)

Ground Water Sample		Month	January 2024				February 2024			March 2024			
		Date of Sampling	31/01/24	31/01/24	31/01/24	05/02/24	06/02/24	21/02/24	21/02/24	30/03/24	30/03/24	30/03/24	30/03/24
Location			Dahej	Lakhigam	Luvara	Dahej	Lakhigam	Lakhigam (Dharmesh Gohil borwell	Dahej (Vikarmbhai borwell)	Suva	Ambhetha	Jageshwar	Dahej
S. No.	Test Parameters	Unit	Result										
01.	Temperature	°C	28	30	29	30	30	30	29	32	30	32	32
02.	pH @ 25°C	pH unit	7.75	7.65	7.72	7.68	7.10	7.30	7.38	7.75	7.32	7.29	7.26
03.	Colour	Pt. Co. Scale	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)	BDL (DL- 5)
04.	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
05.	Turbidity	NTU	0.8	0.7	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.5
06.	TDS	mg/L	956	584	789	1912	1785	1752	1152	2153	1926	1356	1426
07.	Total Alkalinity	mg/L	475	164	242	452	215	246	234	623	245	234	219
08.	Chloride	mg/L	280	45	62	153	56	68	78	175	63	72	65
09.	Sulphate	mg/L	65	26	21	78	35	46	49	82	28	53	34
10.	Nitrate	mg/L	1.5	2.5	3.0	1.9	2.9	3.2	4.2	2.3	2.2	3.0	5.2
11.	Calcium	mg/L	136	86	72	145	72	59	68	136	53	48	72
12.	Magnesium	mg/L	42	24	30	53	19	25	28	42	21	32	38
13.	Fluoride	mg/L	0.7	0.5	0.4	0.6	0.8	0.6	0.4	0.7	0.6	0.5	0.5
14.	Phenolic compound	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
15.	Residual chlorine	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
16.	Iron	mg/L	0.07	0.05	0.04	0.05	0.06	0.04	0.02	0.06	0.05	0.05	0.05
17.	Zinc	mg/L	0.25	0.62	0.46	0.20	0.75	0.52	0.32	0.25	0.38	0.72	0.42

4.3. Surface Water Quality Monitoring Data (October 2023 to November 2023)

Ground Water Sample		Month	October 2023							November 2023	
		Date of Sampling	4/10/23	4/10/23	7/10/23	7/10/23	10/10/23	17/10/23	18/10/23	22/11/23	22/11/23
Location			M/s. Roha Dye Chem Storm Water Drainage.	Near SEZ-II Storm Water Drainage Line	Near Plot No. Z-31,32 Drainage line Back Side	Near Plot No. Z-16 Drainage line	Near Plot No. Z-34 & Z-39 Drainage line	Near SEZ-I Utility Block Garden Area	Near Plot No. Z-33 & Z-39 Drainage line	Near M/s. Panama Drainege Line	Near M/s. Insecticide Drainege Line
S. No.	Test Parameters	Unit	Result								
01.	pH @ 25°C	pH unit	BDL (MDL:2.0)	7.09	3.21	7.17	7.78	7.50	7.83	7.79	7.72
02.	Colour	Pt. Co. Scale	-	-	>500	>500	110	350	150	>500	>500
03.	Odour	-	Objectionable	Objectionable	Objectionable	Objectionable	Objectionable	Objectionable	Unobjectionable	Unobjectionable	Unobjectionable
04.	Turbidity	NTU	100	5	0.1	0.1	0.1	10	5	1	0.1
05.	Temperature	°C	-	-	30	30	30	30	30	30	30
06.	Total Dissolved Solids	mg/L	-	-	1646	3910	400	>10000	1030	810	880
07.	Total Suspended Solids	mg/L	1505	480	124	30	4	146	16	86	BDL (MDL:4.0)
08.	Total Alkalinity	Mg/l	-	-	BDL (MDL:4.0)	585	200	400	210	391.9	241.2
09.	Chloride (as Cl–)	mg/L	10490.6	30.2	50.3	1711.5	50.3	473.1	30.2	153.5	297
10.	Sulphate (as SO4-2)	mg/L	-	-	55.5	80.2	40.2	50.5	15.2	15.5	14.6
11.	Phenolic Compound as (C_6H_5OH)	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)
12.	Nitrate	mg/L	-	-	8.5	9.2	5.5	8.5	2.2	2.2	2.3
13.	Residual Chlorine	mg/L	-	-	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	6.4	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
14.	Chemical Oxygen Demand (COD)	mg/L	960.5	25.7	80	94.2	20.5	282.3	BDL (MDL:2.0)	28.8	16.5
15.	Ammonical Nitrogen	mg/L	99.1	6.7	16.2	5.0	50.1	24.6	BDL (MDL:2.0)	4.5	2.2
16.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	-	-	-	-	-	-	-
17.	Sulphide as S^{-2}	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	-	-	-	-	-	-	-

Note: BDL= Below Detection Limit, **MDL** = Minimum Detection Limit, **Turbidity** = 100 = 1010 NTU, 5=44.5 NTU,0.1=6.9 NTU,0.1=7.68 NTU,0.1=8.5 NTU,10=256 NTU,5=40.5 NTU,1=34.2 NTU,0.1=7.72 NTU

4.4. Surface Water Quality Monitoring Data (January 2024 to February 2024)

Surface Water Sample	Month		January 2024			February 2024		March 2024	
	Date of Sampling		18/01/24	18/01/24	24/01/24	22/02/24	22/02/24	29/03/24	29/03/24
Location			NR. Front of Sigachi	Nr. Firmenich	Nr.Breege INT (SEZ-1)	NR. Indobaijin compound wall side	Nr. Firmenich	Nr.Indofil (Canal)	Nr.Indobaijin
S. No.	Test Parameters	Unit	Result						
01.	Temperature	°C	30	32	30	26	26	29	28
02.	pH @ 25°C	pH unit	7.75	7.86	7.45	7.54	8.10	7.62	7.65
03.	Colour	Pt. Co. Scale	25	19	12	16	10	3	5
04.	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
05.	Turbidity	NTU	62	56	17	54	15	35	8
06.	TDS	mg/L	825	1245	1245	1045	763	523	1410
07.	Total Alkalinity	mg/L	136	BDL (DL- 25)	245	680	235	159	147
08.	Chloride	mg/L	195	235	185	143	131	86	58
09.	Sulphate	mg/L	36	45	247	85	189	43	54
10.	Nitrate	mg/L	4.0	5.2	3.2	2.8	4.5	2.2	8.5
11.	Calcium	mg/L	275	267	196	224	172	73	88
12.	Magnesium	mg/L	62	72	45	42	65	46	25
13.	Fluoride	mg/L	0.8	0.9	0.7	0.5	0.8	0.4	1.5
14.	Phenolic compound	mg/L	0.3	0.5	BDL (DL- 0.001)	0.1	BDL (DL- 0.1)	0.2	BDL (DL- 0.1)
15.	Residual chlorine	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
16	Iron	mg/L	0.4	0.5	0.25	0.2	0.45	0.25	0.4
17	Zinc	mg/L	0.3	0.4	0.35	0.1	0.31	0.6	0.2
18.	COD	mg/L	92	110	85	86	126	68	73

4.5. Drinking water Quality Monitoring Data (October 2023 to November 2023)

Drinking Water Sample		Month	October 2023	November 2023
		Date of Sampling	6/10/23	6/10/23
Location			SEZ – II Office	SEZ – II Office
S. No.	Test Parameters	Unit	Results	
01.	pH @ 25°C	pH unit	7.79	7.79
02.	Colour	Pt. Co. Scale	BDL (MDL:5.0)	BDL (MDL:5.0)
03.	Odour	-	Agreeable	Agreeable
04.	Turbidity	NTU	BDL (MDL:0.1)	BDL (MDL:0.1)
05.	Temperature	°C	Agreeable	Agreeable
06.	Total Dissolved Solids	mg/L	274	274
07.	Total Hardness as $CaCO_3$	mg/l	6	6
08.	Calcium as Ca	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)
09.	Magnesium as Mg	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)
10.	Total Alkalinity	mg/L	70	70
11.	Chloride as Cl^-	mg/l	68.5	68.5
12.	Sulphate as SO_4^{-2}	mg/L	6.6	6.6
13.	Nitrate as NO_3	mg/L	0.5	0.5
14.	Residual free Chlorine	Mg/l	0.26	0.26
15.	Fluoride as F	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)
16.	Phenolic Compound	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)
17.	Sulphide as S^{-2}	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
18.	Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)
19.	Chloramines as Cl^2	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Anionic Detergent	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)
21.	Mineral Oil	mg/L	N.D.	N.D.
22.	Copper as Cu	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
23.	Manganese as Mn	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
24.	Iron (As Fe)	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Zinc as Zn	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
26.	Mercury as Hg	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)
27.	Cadmium as Cd	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)
28.	Arsenic as As	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)
29.	Cyanide as CN	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
30.	Lead as Pb	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)
31.	Nickel as Ni	mg/L	BDL (MDL:0.02)	BDL (MDL:0.02)
32.	Chromium (Total) as Cr	mg/L	BDL	BDL

Drinking Water Sample		Month	October 2023	November 2023
		Date of Sampling	6/10/23	6/10/23
Location			SEZ – II Office	SEZ – II Office
S. No.	Test Parameters	Unit	Results	
			(MDL:0.05)	(MDL:0.05)
33.	Boron as B	mg/L	BDL (MDL:0.5)	BDL (MDL:0.5)
34.	Aluminium as Al	mg/L	BDL (MDL:0.03)	BDL (MDL:0.03)
35.	Silver as Ag	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
36.	Selenium as Se	mg/L	N.D.	N.D.
37.	Barium as Ba	mg/L	N.D.	N.D.
38.	Molybdenum as Mo	mg/L	N.D.	N.D.

Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit, N.D. = Not Detectable,
Remarks: The sample portion tested does comply with the Desired limit of the Drinking water - Specification (IS 10500: 2012).

4.6. Marine Water Quality Monitoring Data (October 2023 to December 2023)

Marine Water Sample	Month	October 2023		November 2023		December 2023	
	Date of Sampling	27/10/23	30/10/23	22/11/23		11/12/23	23/12/23
Location		--	--	--	--	--	--
		High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
S. No.	Test Parameters	Unit	Result				
01.	pH @ 25°C	pH unit	7.66	8.02	8.15	7.95	7.69	7.86
02.	Colour	Pt. Co. Scale	>500	>500	>500	>500	>500	>500
03.	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
04.	Turbidity	NTU	50	50	50	100	10	10
05.	Temperature	°C	30	30	28	29	29	29
06.	Total Dissolved Solids	mg/L	>10000	>10000	>10000	>10000	>10000	>10000
07.	Total Suspended Solids	mg/L	344	332	364	440	100	70
08.	Total Alkalinity	Mg/l	67.2	141.4	110.2	135.6	149.2	142.2
09.	Chloride (as Cl–)	mg/L	>5000	>5000	>5000	>5000	>5000	>5000
10.	Sulphate (as SO4-2)	mg/L	480	525	585	620	620	582
11.	Phenolic Compound as (C6H5OH)	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)
12.	COD	mg/L	125.7	145.8	80.2	123.3	177.5	145.2
13.	BOD (3 days at 27°C)	mg/L	32	40	22	32	52	40
14.	Mercury	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)
15.	Lead	mg/L	BDL (MDL-0.01)	BDL (MDL-0.01)	BDL (MDL-0.01)	BDL (MDL-0.01)	BDL (MDL-0.01)	BDL (MDL-0.01)
16.	Oil & Grease	mg/L	BDL (MDL-2.0)	BDL (MDL-2.0)	BDL (MDL-2.0)	BDL (MDL-2.0)	BDL (MDL-2.0)	BDL (MDL-2.0)
17.	Cadmium	mg/L	BDL (MDL-0.003)	BDL (MDL-0.003)	BDL (MDL-0.003)	BDL (MDL-0.003)	BDL (MDL-0.003)	BDL (MDL-0.003)
18.	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)
19.	Dissolved Oxygen	mg/L	7.0	6.8	7.1	6.9	7.2	7.1
20.	Manganese as Mn	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)

Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit, Turbidity 50 = 657.8 NTU,50 = 998.1 NTU,50 = 710.5 NTU,100 = 1618 NTU,10 = 293.5 NTU, 10 = 323.5 NTU

4.7. Marine Water Quality Monitoring Data (January 2024 to February 2024)

Marine Water Sample	Month		January 2024				February 2024				March 2024			
	Date of Sampling		29/01/24		30/01/24		20/02/24				12/03/24		30/03/24	
Location			Nr.GNFC		Nr.Sez-2 Jetty		Nr.B/H GNFC		Nr.Sez-2 Jetty		Luvaragam		Lakhigam	
			High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
S. No.	Test Parameters	Unit	Result											
01.	Temperature	^{0}C	28	28	28.2	27.2	27	27	28	28	29	29	30	30
02.	pH at 25^{0}C	pH Unit	8.54	8.40	8.45	7.85	8.14	8.08	8.28	7.69	8.26	7.89	8.35	8.19
03.	Turbidity	NTU	42	30	39	34	46	35	36	31	42	33	32	28
04.	Total Suspended Solids	mg/L	245	175	210	113	237	186	226	132	248	179	238	165
05.	BOD	mg/L	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)	BDL (DL-2)
06.	Ammonical Nitrogen	mg/L	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
07.	Salinity	ppt	38.2	28.2	36.6	26.4	35.6	28.7	32.2	22.8	34.3	29.2	25.2	20.5
08.	Dissolved Oxygen	mg/L	5.4	5.6	5.4	4.3	7.2	6.5	5.9	5.6	7.8	6.2	6.5	6.1
09.	Total Nitrogen	mg/L	0.72	0.35	0.45	0.25	0.76	0.38	0.48	0.27	0.62	0.32	0.56	0.32
10.	Dissolved Phosphate	mg/L	0.6	0.3	0.07	0.05	0.5	0.2	0.06	0.04	0.6	0.3	0.05	0.03
11.	Nitrate	mg/L	0.75	0.35	0.38	0.23	0.68	0.29	0.34	0.19	0.72	0.32	0.42	0.28
12.	Nitrite	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
13.	Phenol	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
14.	PHC	Microgram/L	17	14	18	11	16	12	15	10	14	11	14	11

Note: BDL=Below Detection Limit**, DL=** Detection Limit

4.8. Wastewater Monitoring Data (M/s. Aries Colorchem Pvt. Ltd.)

October 2023 to December 2023													
Wastewater Samples		Month	October 2023				November 2023				December 2023			
		Date of Sampling	03/10/23	6/10/23	12/10/23	31/10/23	07/11/23	9/11/23	16/11/23	18/11/23	05/12/23	8/12/23	18/12/23	22/12/23
S. No.	Test Parameters	Unit	Result											
01.	pH @ 25 ° C	--	7.17	7.15	6.82	6.9	8.73	7.43	6.56	7.86	7.84	7.53	7.25	7.45
02.	Total Dissolved Solids	mg/L	37766	24600	21910	1926	17600	24966	30930	31056	17056	24420	30806	18686
03.	Total Suspended Solids	mg/L	12	BDL (MDL:4.0)	16	BDL (MDL:4.0)	BDL (MDL:4.0)	16	18	4	18	4	6	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	4.25	3.1	2.95	0.98	3.65	4.2	4.85	4.4	3.1	2.65	3.25	3.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	14.2	10.7	9.5	44.8	11.8	14.6	8.8	9.5	12.9	8.9	11.4	5.3
08.	Ammonical Nitrogen	mg/L	8.4	5	3.9	39	6.1	9	3.3	3.9	7.3	3.3	5.8	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.189	0.154	0.157	0.104	0.137	0.148	0.163	0.157	0.123	0.136	0.147	0.137
11.	Zinc	mg/L	0.157	0.136	0.124	0.085	0.114	0.126	0.137	0.136	0.104	0.114	0.126	0.115
12.	COD	mg/L	103.2	168.4	138.9	80.6	171	153	118	182.9	105.4	105.3	121.3	77.5
13.	BOD (3 days at 27 0C)	mg/L	30	48	40	23	48	44	38	52	30	30	34	22
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.174	0.142	0.141	0.093	0.127	0.138	0.152	0.144	0.112	0.125	0.139	0.126
17	Cadmium	mg/L	0.141	0.106	0.103	0.067	0.096	0.104	0.123	0.112	0.085	0.093	0.104	0.092
18.	Hexavalent Chromium	mg/L	BDL(MDL:0.05)	BDL(MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	5.25	2.95	1.85	0.67	4.1	4.85	5.75	6.5	2.45	2.65	2.85	2.65
20.	Nickel	mg/L	0.147	0.123	0.114	0.078	0.104	0.125	0.144	0.123	0.104	0.104	0.123	0.117
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	>10000	>10000	>10000	652.2	6855	>10000	>10000	>10000	9165	>10000	>10000	>10000
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023														
Wastewater Samples		Month	October 2023				November 2023				December 2023			
		Date of Sampling	03/10/23	6/10/23	12/10/23	31/10/23	07/11/23	9/11/23	16/11/23	18/11/23	05/12/23	8/12/23	18/12/23	22/12/23
S. No.	Test Parameters	Unit	Result											
25.	Pesticides	µg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	Pt. Co. Scale	400/Objectionable	320/Objectionable	465/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	450/Objectionable	400/Objectionable	>500/Objectionable
27.	Temperature	^{0}C	30	30	30	29	28	29	29.5	29.5	29.5	29	28.5	29
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL: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.
Note: BDL=Below Detection Limit, MDL=Minimum Detection Limit,														

4.9. Wastewater Monitoring Data (M/s. Aries Colorchem Pvt. Ltd.)

January 2024 to March 2024																
Wastewater Samples		Month	January 2024					February 2024				March 2024				
		Date of Sampling	04/01/24	11/01/24	18/01/24	24/01/24	29/01/24	12/02/24	20/02/24	24/02/24	26/02/24	04/03/24	11/03/24	16/03/24	20/03/24	27/03/24
S. No.	Test Parameters	Unit	Result													
01.	Temperature	0C	29	29	36	29	34	33	34	35	30.5	34	30.5	35	34	29
02.	pH at 25^{0}C	pH unit	8.11	7.89	7.64	7.84	8.11	7.5	7.6	7.53	7.68	7.53	7.68	7.5	7.63	7.53
03.	Total Suspended Solids (TSS)	mg/L	47	59	17	37	43	36	30	28	36	40	37	34	42	41
04.	Chloride	mg/L	958	1089	442	215	1123	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	664	526	178	157	468	756	198	218	526	652	453	462	326	263
06.	Oil & grease	mg/L	4.6	2.8	3.5	1.8	2.6	5	3	4.6	7	7.9	6.8	5.8	6.3	5.3
07.	Fluoride	mg/L	0.9	0.8	0.5	0.5	0.6	0.7	0.4	0.5	0.5	0.6	0.7	0.6	0.8	0.5
08.	Sulphide	mg/L	0.5	0.9	0.8	0.9	0.5	1	0.5	0.2	0.4	1	0.5	0.9	0.7	0.3
09.	Ammonical Nitrogen	mg/L	5.8	4.2	6.4	5.9	2.9	22.5	13.1	23.5	13.5	25.3	26.5	15.6	18.9	15.8
10.	Total Kjeldahl Nitrogen	mg/L	7.2	5.1	7.2	6.2	5.1	28.3	18.6	29.6	14.6	29.5	30.2	20.5	24.3	19.4
11.	Free Ammonia	mg/L	0.3	0.1	0.17	0.14	0.25	0.3	0.3	0.4	0.2	0.5	0.26	0.26	0.33	0.22
12.	Copper	mg/L	0.08	0.06	BDL (DL- 0.05)	0.05	BDL (DL- 0.05)	0.13	0.08	0.07	0.06	0.15	0.05	0.18	0.24	0.05
13.	Zinc	mg/L	0.85	0.75	0.48	0.45	0.35	0.25	0.19	0.4	0.18	0.22	0.25	0.2	0.18	0.21
14.	BOD 3 days at 27^{0}C	mg/L	62	65	25	50	57	48	39	37	39	54	48	47	56	54
15.	COD	mg/L	186	195	72	92	171	145	118	110	118	162	146	146	169	161
16	Total Residual Chlorine	mg/L	0.3	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.05	0.02	0.03	0.07	0.05	0.03	0.02	0.05	0.05	0.02	0.04	0.02	0.05	0.03
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)
21.	Hexavalent Chromium	mg/L	0.6	0.5	0.4	0.3	0.2	0.3	0.1	0.2	0.2	0.2	0.3	0.2	0.4	0.2
22.	Total Chromium	mg/L	0.9	0.8	0.6	0.7	0.5	0.5	0.3	0.3	0.25	0.6	0.42	0.4	0.6	0.4
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.6	0.3	0.3	0.3	0.4	0.4	0.4	0.1	0.2	0.5	0.3	0.3	0.2	0.3
26.	Iron	mg/L	0.4	0.2	0.2	0.5	0.5	0.5	0.3	0.3	0.6	0.6	0.6	0.5	0.4	0.2
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
29.	Nitrate Nitrogen as NO_3-N	mg/L	4.8	4.1	5.6	5.5	4.2	12.8	14.9	13.6	12	15.8	15.6	15.3	13.6	18.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.10. Wastewater Monitoring Data (M/s. Sigachi Industries Pvt. Ltd.)

October 2023 to December 2023													
Wastewater Samples		Month	October 2023				November 2023			December 2023				
		Date of Sampling	03/10/23	6/10/23	12/10/23	31/10/23	06/11/23	16/11/23	23/11/23	07/12/23	12/12/23	18/12/23	22/12/23	27/12/23
S. No.	Test Parameters	Unit	Result											
01.	pH @ 25 ° C	--	7.88	7.79	7.87	8.02	8.42	7.35	7.70	8.30	8.07	7.85	7.85	7.79
02.	Total Dissolved Solids	mg/L	306	150	200	170	190	194	196	226	270	360	296	186
03.	Total Suspended Solids	mg/L	4	BDL (MDL:4.0)	BDL (MDL:4.0)	6	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	10	4	4	4	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.56	0.37	0.39	0.32	0.39	0.44	0.39	0.44	0.51	0.63	0.51	0.39
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.6	4.2	3.3	4.1	5.8	4.9	9.5	11.2	11.7	10.1	4.9	7.8
08.	Ammonical Nitrogen	mg/L	2.2	BDL (MDL:2.0)	BDL MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	3.9	5.6	6.1	4.4	BDL (MDL:2.0)	2.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.074	0.053	0.056	0.051	0.057	0.061	0.056	0.061	0.067	0.074	0.072	0.063
11.	Zinc	mg/L	0.063	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	0.053	0.052	0.061	0.063	0.054
12.	COD	mg/L	12.3	8.1	8.1	8.3	202.5	17.2	8.6	8.2	8.2	12.3	12.3	8.2
13.	BOD (3 days at 27 0C)	mg/L	3	2	2	2	56	5	2	2	2	3	3	2
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.062	0.029	0.047	0.035	0.041	0.048	0.052	0.057	0.055	0.063	0.063	0.055
17	Cadmium	mg/L	0.071	0.037	0.056	0.047	0.053	0.061	0.067	0.074	0.072	0.084	0.085	0.074
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.045	0.027	0.029	0.021	0.032	0.044	0.038	0.045	0.053	0.066	0.059	0.047
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023														
Wastewater Samples		Month	October 2023				November 2023			December 2023				
		Date of Sampling	03/10/23	6/10/23	12/10/23	31/10/23	06/11/23	16/11/23	23/11/23	07/12/23	12/12/23	18/12/23	22/12/23	27/12/23
S. No.	Test Parameters	Unit	Result											
23.	Sulphate (as SO4)	mg/L	78.5	36.5	47.1	34.4	37.9	43.1	39.5	47.1	52.2	78.2	59.3	42.1
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	µg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	Pt. Co. Scale	25/Unobjectionable	25/Unobjectionable	20/Unobjectionable	25/Unobjectionable	30/Unobjectionable	20/Unobjectionable	25/Unobjectionable	20/Unobjectionable	10/Unobjectionable	20/Unobjectionable	20/Unobjectionable	30/Unobjectionable
27.	Temperature	0C	29	29	29	30	29	30.5	29.5	28.5	29.0	28.5	28.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	%	90 % survival of fish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.
Note: BDL=Below Detection Limit, MDL=Minimum Detection Limit,														

4.11. Wastewater Monitoring Data (M/s. Sigachi Industries Pvt. Ltd.)

January 2024 to March 2024														
Wastewater Samples		Month	January 2024				February 2024					March 2024			
		Date of Sampling	04/01/24	18/01/24	24/01/24	29/01/24	06/02/24	12/02/24	20/02/24	24/02/24	26/02/24	04/03/24	11/03/24	16/03/24	20/03/24
S. No.	Test Parameters	Unit	Result												
01.	Temperature	0C	28	36	30	32	29	31	35	36	34.0	32	35	32	34
02.	pH at 25^{0}C	pH unit	7.30	7.26	8.35	7.95	6.50	7.00	7.36	7.32	7.05	7.42	7.46	7.42	7.52
03.	Total Suspended Solids (TSS)	mg/L	20	16	26	38	30	28	24	36	35	34	32	28	23
04.	Chloride	mg/L	486	274	976	843	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	123	135	80	285	125	42	36	63	165	89	216	146	123
06.	Oil & grease	mg/L	2.1	2.8	2.4	2.0	7.6	4.0	3.0	4.1	6.2	6.8	5.3	5.3	3.2
07.	Fluoride	mg/L	0.7	0.7	0.3	0.2	0.5	0.4	0.4	0.6	0.5	0.6	0.6	0.6	0.4
08.	Sulphide	mg/L	0.2	0.4	0.4	0.5	0.6	0.4	0.41	0.4	0.4	0.5	0.3	0.4	0.2
09.	Ammonical Nitrogen	mg/L	1.6	6.1	5.2	3.5	13.5	13.1	22.8	12.9	14.2	12.4	18.6	8.3	8.6
10.	Total Kjeldahl Nitrogen	mg/L	2.9	6.8	5.5	4.2	15.4	16.2	29.7	15.7	16.2	16.3	22.3	12.6	11.5
11.	Free Ammonia	mg/L	0.03	0.3	0.17	0.20	0.19	0.1	0.2	0.3	0.2	0.10	0.3	0.15	0.22
12.	Copper	mg/L	BDL (DL- 0.05)	BDL (DL- 0.05)	0.08	BDL (DL- 0.05)	0.03	0.06	0.1	0.08	0.01	0.02	0.02	0.04	0.05
13.	Zinc	mg/L	0.42	0.22	0.32	0.25	0.36	0.2	0.12	0.2	0.22	0.26	0.25	0.23	0.21
14.	BOD 3 days at 27^{0}C	mg/L	21	22	34	50	48	29	32	29	37	45	44	37	30
15.	COD	mg/L	62	65	113	149	145	86	95	86	112	137	131	116	92
16	Total Residual Chlorine	mg/L	0.1	0.1	0.3	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.08	0.03	0.05	0.04	0.05	0.12	0.02	0.06	0.01	0.03	0.02	0.04	0.05
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.06	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.7	0.7	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2
22.	Total Chromium	mg/L	0.9	0.9	0.5	0.6	0.6	0.3	0.3	0.2	0.3	0.5	0.4	0.4	0.3
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.4	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.3	BDL (DL -0.3)	0.2	BDL (DL -0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.5	0.4	0.3	0.5	0.3	0.2	0.1	0.1	0.4	0.2	0.3	0.2
26.	Iron	mg/L	0.8	0.8	0.6	0.2	0.4	0.5	0.4	0.5	0.4	0.3	0.4	0.2	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL- 0.01)	0.6	BDL (DL- 0.01)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL- 0.01)	0.3
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.5	5.1	4.8	2.9	13.6	12.5	13.6	12.5	12.5	9.5	9.5	10.8	10.4

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.12. Wastewater Monitoring Data (M/s. ONGC Petro Addition Ltd.)

October 2023 to December 2023												
Wastewater Samples		Month	October 2023			November 2023			December 2023			
		Date of Sampling	6/10/23	11/10/23	28/10/23	7/11/23	17/11/23	28/11/23	12/12/23	15/12/23	23/12/23	29/12/23
S. No.	Test Parameters	Unit	Result									
01.	pH @ 25 ° C	--	6.82	7.08	7.25	7.40	7.28	7.35	7.19	7.43	7.23	7.49
02.	Total Dissolved Solids	mg/L	3186	2550	3654	2446	4770	3240	3450	2816	2122	2950
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	14	64	6	18	22	4	24	4	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.25	1.12	1.05	0.92	1.25	1.10	1.65	1.22	1.90	2.25
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	19.1	21.2	23.1	20.9	12.8	24.8	19.5	12.4	20.7	17.9
08.	Ammonical Nitrogen	mg/L	13.4	15.1	17.5	15.1	7.3	19.2	13.9	6.7	15.1	12.3
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.066	0.063	0.055	0.051	0.078	0.065	0.078	0.056	0.084	0.093
11.	Zinc	mg/L	0.103	0.084	0.075	0.066	0.086	0.078	0.089	0.069	0.093	0.104
12.	COD	mg/L	46.3	45.3	100.6	48.2	74.8	110	80.8	66.2	36.7	46.1
13.	BOD (3 days at 27 0C)	mg/L	13	13	28	14	22	32	22	19	10	13
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.075	0.072	0.066	0.057	0.072	0.063	0.077	0.057	0.084	0.092
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.44	0.41	0.25	0.21	0.39	0.25	0.41	0.28	0.59	0.67
20.	Nickel	mg/L	0.052	0.036	0.027	0.033	0.057	0.044	0.059	0.044	0.067	0.078
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	562.8	523.6	626.6	756.6	756.6	625.5	865.5	596.6	922.2	974.4
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	µg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)

October 2023 to December 2023												
Wastewater Samples		Month	October 2023			November 2023			December 2023			
		Date of Sampling	6/10/23	11/10/23	28/10/23	7/11/23	17/11/23	28/11/23	12/12/23	15/12/23	23/12/23	29/12/23
S. No.	Test Parameters	Unit	Result									
26.	(Colour /Odour)	Pt. Co. Scale	30/Objectionable	40/Objectionable	50/Objectionable	30/Unobjectionable	50/Objectionable	60/Objectionable	30/Objectionable	50/Objectionable	45/Objectionable	60/Objectionable
27.	Temperature	0C	29	30	29	28	29.5	29.0	28.5	28.0	28.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL: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%survivaloffis h 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.
Note: BDL=Below Detection Limit, MDL=Minimum Detection Limit,												

4.13. Wastewater Monitoring Data (M/s. ONGC Petro Addition Ltd.)

January 2024			
Wastewater Samples		Month	January
		Date of Sampling	19/01/24
S. No.	Test Parameters	Unit	Result
01.	Temperature	0C	34
02.	pH at 25^0C	pH unit	8.11
03.	Total Suspended Solids (TSS)	mg/L	7.82
04.	Chloride	mg/L	42
05.	Sulphate	mg/L	1262
06.	Oil & grease	mg/L	170
07.	Fluoride	mg/L	2.3
08.	Sulphide	mg/L	0.5
09.	Ammonical Nitrogen	mg/L	0.6
10.	Total Kjeldahl Nitrogen	mg/L	7.2
11.	Free Ammonia	mg/L	0.8
12.	Copper	mg/L	0.08
13.	Zinc	mg/L	8.5
14.	BOD 3 days at 27^0C	mg/L	62
15.	COD	mg/L	9.2
16	Total Residual Chlorine	mg/L	0.3
17	Arsenic	mg/L	0.16
18.	Mercury	mg/L	BDL (DL-0.02)
19.	Lead	mg/L	BDL (DL-0.01)
20.	Cadmium	mg/L	0.05
21.	Hexavalent Chromium	mg/L	BDL (DL-0.05)
22.	Total Chromium	mg/L	0.2
23.	Nickel	mg/L	0.5
24.	Cyanide	mg/L	BDL (DL-0.3)
25.	Phenolic compound	mg/L	Absent
26.	Iron	mg/L	0.2
27.	Vanadium	mg/L	BDL (DL-0.02)
28.	Manganese	mg/L	BDL (DL-0.01)
29.	Nitrate Nitrogen as NO_3-N	mg/L	0.05

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.14. Wastewater Monitoring Data (M/s. Indofil Industries Ltd.)

January-2024			
Wastewater Samples		Month	January 2024
		Date of Sampling	06/01/24
S. No.	Test Parameters	Unit	Result
01.	Temperature	^{0}C	30
02.	pH at 25^{0}C	pH unit	7.32
03.	Total Suspended Solids (TSS)	mg/L	26
04.	Chloride	mg/L	1120
05.	Sulphate	mg/L	9645
06.	Oil & grease	mg/L	3.7
07.	Fluoride	mg/L	0.8
08.	Sulphide	mg/L	0.7
09.	Ammonical Nitrogen	mg/L	4.8
10.	Total Kjeldahl Nitrogen	mg/L	5.2
11.	Free Ammonia	mg/L	0.10
12.	Copper	mg/L	0.08
13.	Zinc	mg/L	0.78
14.	BOD 3 days at 27^{0}C	mg/L	21
15.	COD	mg/L	65
16	Total Residual Chlorine	mg/L	0.2
17	Arsenic	mg/L	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL- 0.01)
19.	Lead	mg/L	0.07
20.	Cadmium	mg/L	BDL (DL- 0.05)
21.	Hexavalent Chromium	mg/L	0.4
22.	Total Chromium	mg/L	0.8
23.	Nickel	mg/L	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent
25.	Phenolic compound	mg/L	0.4
26.	Iron	mg/L	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)
29.	Nitrate Nitrogen as NO3-N	mg/L	6.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.15. Wastewater Monitoring Data (M/s. Firmenich Aromatics Production (India) Pvt. Ltd.)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023		November 2023		December 2023		
		Date of Sampling	10/10/23	20/10/23	09/11/23	24/11/23	12/12/23	18/12/23	25/12/23
S. No.	Test Parameters	Unit	Result						
01.	pH @ 25 ° C	^{0}C	8.00	8.02	8.04	8.01	7.59	7.62	7.65
02.	Total Dissolved Solids	pH unit	5920	6740	4840	5616	4826	4566	4696
03.	Total Suspended Solids	mg/L	52	14	24	16	22	30	46
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	3.10	3.65	2.85	3.10	2.65	2.10	2.20
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.5	6.9	6.7	8.5	5.7	4.3	4.4
08.	Ammonical Nitrogen	mg/L	2.4	2.2	2.3	2.8	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.104	0.115	0.104	0.115	0.104	0.092	0.093
11.	Zinc	mg/L	0.111	0.123	0.111	0.123	0.113	0.104	0.104
12.	COD	mg/L	180.7	129.7	161.5	171.6	137.3	144.2	178.9
13.	BOD (3 days at 27 0C)	mg/L	52	36	46	48	38	46	50
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	0.074	0.087	0.074	0.087	0.074	0.066	0.065
17	Cadmium	mg/L	0.083	0.096	0.085	0.093	0.086	0.074	0.077
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	2.25	2.45	2.15	1.90	1.25	1.04	1.05
20.	Nickel	mg/L	0.065	0.077	0.068	0.077	0.063	0.054	0.053
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	1456	1295	1142	1260	985.5	742.2	910.2
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	60/Objectionable	50/Unobjectionable	70/Unobjectionable	60/Unobjectionable	70/Unobjectionable	30/Unobjectionable	80/Unobjectionable
27.	Temperature	mg/L	30	29	28	29	28.5	28.0	28.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023		November 2023		December 2023		
		Date of Sampling	10/10/23	20/10/23	09/11/23	24/11/23	12/12/23	18/12/23	25/12/23
S. No.	Test Parameters	Unit	Result						
29.	Bio Assay test	mg/L	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.
Note: BDL=Below Detection Limit, **MDL**=Minimum Detection Limit,									

4.16. Wastewater Monitoring Data (M/s. Firmenich Aromatics Production (India) Pvt. Ltd.)

January 2024 to March 2024													
Wastewater Samples		Month	January 2024				February 2024				March 2024			
		Date of Sampling	06/01/24	16/01/24	22/01/24	31/01/24	02/02/24	16/02/24	22/02/24	28/02/24	05/03/24	18/03/24	23/03/24	29/03/24
S. No.	Test Parameters	Unit	Result											
01.	Temperature	^{0}C	33	34	35	34	28	34	28	34	34	34	33	32
02.	pH at 25^{0}C	pH unit	7.91	7.36	7.57	7.86	6.90	7.00	7.81	7.26	7.64	7.56	7.42	7.23
03.	Total Suspended Solids (TSS)	mg/L	47	51	43	40	47	44	31	35	37	40	44	38
04.	Chloride	mg/L	1235	1062	318	1052	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	369	361	4135	413	2485	265	215	1689	342	1263	185	1623
06.	Oil & grease	mg/L	5.4	2.4	3.4	3.6	3.4	3.0	10.4	6.2	4.2	8.4	8.6	5.2
07.	Fluoride	mg/L	0.6	0.8	0.9	0.6	0.6	0.5	0.5	0.6	0.8	0.7	0.7	0.5
08.	Sulphide	mg/L	0.9	1.2	1.0	0.7	0.9	0.4	0.5	0.4	0.5	0.5	0.4	0.4
09.	Ammonical Nitrogen	mg/L	5.3	5.8.	4.5	4.2	33.5	13.6	12.0	13.8	21.3	18.6	15.8	24.6
10.	Total Kjeldahl Nitrogen	mg/L	5.9	6.2	5.1	6.1	36.2	15.8	12.8	14.6	25.1	22.6	20.4	29.5
11.	Free Ammonia	mg/L	0.10	0.15	0.22	0.15	0.5	0.2	0.3	0.2	0.3	0.26	0.32	0.53
12.	Copper	mg/L	0.07	0.09	0.05	0.09	0.06	0.08	0.06	0.09	0.06	0.07	0.034	0.04
13.	Zinc	mg/L	0.62	0.8	0.75	0.32	0.42	0.2	0.28	0.32	0.3	0.26	0.22	0.36
14.	BOD 3 days at 27^{0}C	mg/L	62	61	58	55	63	58	44	46	49	54	58	51
15.	COD	mg/L	186	182	184	164	189	175	138	138	148	163	176	153
16	Total Residual Chlorine	mg/L	0.3	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.2
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.06	0.05	0.03	0.03	0.02	0.06	0.02	0.05	0.05	0.04	0.04	0.03
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)	0.03	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)
21.	Hexavalent Chromium	mg/L	0.2	0.4	0.7	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.4
22.	Total Chromium	mg/L	0.3	0.6	0.8	0.7	0.6	0.4	0.3	0.3	0.5	0.4	0.4	0.6
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.5	0.5	0.5	0.2	0.4	0.1	0.2	0.3	0.3	0.2	0.2
26.	Iron	mg/L	0.4	0.4	0.6	0.4	0.1	0.6	0.2	0.6	0.4	0.5	0.4	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL- 0.21)
29.	Nitrate Nitrogen as NO3-N	mg/L	4.7	5.4	4.2	3.6	15.3	13.5	12.4	14.2	15.2	16.9	15.4	20.5

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.17. Wastewater Monitoring Data (M/s. Meghmani Industries Ltd.)

October 2023 to December 2023										
Wastewater Samples		Month	October 2023				November 2023		December 2023	
		Date of Sampling	06/10/23	10/10/23	20/10/23	26/10/23	01/11/23	18/11/23	05/12/23	16/12/23
S. No.	Test Parameters	Unit	Result							
01.	pH @ 25 ° C	^{0}C	5.61	7.33	7.18	BDL (MDL:2.0)	6.99	7.51	6.75	7.14
02.	Total Dissolved Solids	pH unit	20820	17560	19764	2.25	15940	8300	13740	5510
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	42	24	BDL (MDL:0.05)	72	BDL (MDL:4.0)	14	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	4.40	3.10	4.05	2.25	3.75	1.25	3.05	1.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.1	5.8	6.2	5.5	4.8	5.2	8.3	7.6
08.	Ammonical Nitrogen	mg/L	2.3	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.8	2.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.084	0.104	0.115	0.067	0.087	0.067	0.078	0.057
11.	Zinc	mg/L	0.062	0.086	0.093	BDL (MDL:0.05)	0.059	BDL (MDL:0.05)	0.052	BDL (MDL:0.05)
12.	COD	mg/L	33.6	160.2	48.6	64.9	56.2	16.6	40.5	40.3
13.	BOD (3 days at 27 0C)	mg/L	9	46	15	19	16	4	12	12
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	0.057	0.067	0.078	0.036	0.057	0.035	0.036	0.025
17	Cadmium	mg/L	0.069	0.084	0.092	0.045	0.068	0.042	0.047	0.033
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)
20.	Nickel	mg/L	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	>10000	>10000	>10000	1625	4230	1210	3920	1562
24.	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)

October 2023 to December 2023										
Wastewater Samples		Month	October 2023				November 2023		December 2023	
		Date of Sampling	06/10/23	10/10/23	20/10/23	26/10/23	01/11/23	18/11/23	05/12/23	16/12/23
S. No.	Test Parameters	Unit	Result							
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	20/Unobjectionable	20/Unobjectionable	25/Unobjectionable	30/Unobjectionable	55/Objectionable	40/Objectionable	40/Objectionable	30/Objectionable
27.	Temperature	mg/L	30	30	29	29	30	29.5	29.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.

Note: BDL=Below Detection Limit, **MDL**=Minimum Detection Limit,

4.18. Wastewater Monitoring Data (M/s. Meghmani Industries Ltd.)

January 2024 to March 2024											
Wastewater Samples		Month	January 2024	February 2024				March 2024			
		Date of Sampling	16/01/24	05/02/24	16/02/24	20/02/24	26/02/24	07/03/24	16/03/24	23/03/24	29/03/24
S. No.	Test Parameters	Unit	Result								
01.	Temperature	^{0}C	36	34.10	35	34	28	34	34	34	35
02.	pH at 25^{0}C	pH unit	7.38	7.10	6.80	7.36	6.92	7.43	7.63	7.32	7.56
03.	Total Suspended Solids (TSS)	mg/L	47	24	34	40	31	34	27	30	36
04.	Chloride	mg/L	3185	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	642	152	96	185	136	121	187	85	123
06.	Oil & grease	mg/L	3.6	1.9	2.6	6.2	8.6	7.6	2.3	3.2	4.6
07.	Fluoride	mg/L	0.8	0.8	0.3	0.7	0.6	0.5	0.6	0.5	0.5
08.	Sulphide	mg/L	1.0	0.5	0.3	0.4	0.4	0.3	0.5	0.3	0.4
09.	Ammonical Nitrogen	mg/L	6.4	3.4	14.8	15.2	12.6	10.5	5.6	16.2	11.6
10.	Total Kjeldahl Nitrogen	mg/L	7.1	5.1	16.5	18.4	13.5	14.3	9.4	20.4	14.8
11.	Free Ammonia	mg/L	0.15	0.23	0.2	0.3	0.1	0.2	0.20	0.25	0.26
12.	Copper	mg/L	0.05	0.05	0.07	0.05	0.04	0.03	0.04	0.06	0.04
13.	Zinc	mg/L	0.75	0.42	0.35	0.2	0.2	0.1	0.32	0.31	0.30
14.	BOD 3 days at 27^{0}C	mg/L	67	32	45	49	41	46	36	41	48
15.	COD	mg/L	196	96	134	148	123	138	109	128	143
16	Total Residual Chlorine	mg/L	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)
19.	Lead	mg/L	0.04	0.03	0.03	0.05	0.02	0.03	0.02	0.02	0.04
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.4
22.	Total Chromium	mg/L	0.8	0.7	0.5	0.4	0.3	0.4	0.5	0.3	0.6
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.4	0.4	0.2	0.2	0.1	0.2	0.3	0.4	0.3
26.	Iron	mg/L	0.5	0.2	0.4	0.5	0.4	0.3	0.2	0.5	0.4
27.	Vanadium	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO3-N	mg/L	6.1	5.8	12.8	15.2	13.2	8.9	7.5	16.2	8.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.19. Wastewater Monitoring Data (M/s. Meghmani Unichem Limited Liability partnership)

d												
Wastewater Samples		Month	October 2023		November 2023			December 2023				
		Date of Sampling	20/10/23	26/10/23	01/11/23	18/11/23	23/11/23	05/12/23	08/12/23	22/12/23	27/12/23	30/12/23
S. No.	Test Parameters	Unit	Result									
01.	pH @ 25 ° C	^{0}C	8.11	7.47	7.79	6.04	6.21	6.72	7.58	7.49	7.60	7.59
02.	Total Dissolved Solids	pH unit	4960	5826	4580	7120	4820	4976	4546	5112	5912	4390
03.	Total Suspended Solids	mg/L	24	24	28	18	32	6	62	10	14	14
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.60	2.40	1.95	2.25	1.45	2.10	1.65	2.10	2.45	1.40
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	6.2	7.9	5.6	8.9	10.1	8.4	4.6	5.2	3.9	4.2
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	2.8	BDL (MDL:2.0)	3.3	4.5	2.8	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.085	0.084	0.077	0.089	0.065	0.084	0.067	0.078	0.087	0.058
11.	Zinc	mg/L	0.091	0.092	0.085	0.096	0.074	0.093	0.078	0.086	0.094	0.066
12.	COD	mg/L	117.6	154.2	113.4	137.1	226.1	101.4	117.5	106.1	107.0	83.5
13.	BOD (3 days at 27 0C)	mg/L	32	44	32	39	64	28	32	30	30	24
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.063	0.065	0.056	0.067	0.047	0.067	0.044	0.057	0.066	0.035
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.56	0.55	0.41	0.57	0.31	0.69	0.31	0.45	0.57	0.23
20.	Nickel	mg/L	0.082	0.084	0.076	0.089	0.067	0.087	0.067	0.079	0.088	0.057
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	720.5	856.6	725.5	1086	865.2	944.5	785.2	844.2	910.2	744.2
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	400/Unobjectionable	450/Objectionable	250/Objectionable	420/Objectionable	450/Objectionable	330/Objectionable	310/Objectionable	275/Objectionable	285/Objectionable	280/Objectionable

d												
Wastewater Samples		Month	October 2023		November 2023			December 2023				
		Date of Sampling	20/10/23	26/10/23	01/11/23	18/11/23	23/11/23	05/12/23	08/12/23	22/12/23	27/12/23	30/12/23
S. No.	Test Parameters	Unit	Result									
27.	Temperature	mg/L	29	29	30	29.5	29.0	29.0	29.0	28.5	29.0	28.5
28.	Selenium	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
29.	Bio Assay test	mg/L	90%survivaloffishafter48 hrs.	90%survivaloffishafter48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.

Note: BDL=Below Detection Limit ,**MDL**=Minimum Detection Limit,

4.20. Wastewater Monitoring Data (M/s. Meghmani Unichem Limited Liability partnership)

January 2024 to March 2024																
Wastewater Samples		Month	January 2024					February 2024					March 2024				
		Date of Sampling	11/01/24	16/01/24	24/01/24	29/01/24	31/01/24	05/02/24	07/02/24	12/02/24	22/02/24	24/02/24	04/03/24	07/03/24	11/03/24	20/03/24	27/03/24
S. No.	Test Parameters	Unit	Result														
01.	Temperature	0C	33	32	29	34	33	35	25	36	30	34	34	35	34	33	29
02.	pH at 250C	pH unit	7.44	7.45	7.74	7.75	7.92	7.50	7.20	7.30	7.39	7.56	7.56	7.86	7.85	7.56	7.53
03.	Total Suspended Solids (TSS)	mg/L	48	62	38	48	54	52	54	65	53	55	58	28	57	58	59
04.	Chloride	mg/L	1156	672	671	852	586	--	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	286	204	413	321	169	285	316	526	263	628	668	486	486	426	246
06.	Oil & grease	mg/L	2.5	3.1	2.5	1.8	2.5	12.6	2.0	8.3	3.2	6.2	9.2	5.3	7.3	5.4	13.5
07.	Fluoride	mg/L	0.6	0.7	0.8	0.4	0.7	0.9	0.6	0.8	0.54	0.7	0.8	0.6	0.8	0.5	0.8
08.	Sulphide	mg/L	0.8	0.9	0.5	0.3	0.5	0.8	0.5	0.7	0.3	0.3	0.5	0.4	0.4	0.4	0.7
09.	Ammonical Nitrogen	mg/L	5.2	4.7	7.6	3.6	3.2	22.9	13.2	32.4	13.1	23.5	28.9	12.6	28.6	28.6	26.9
10.	Total Kjeldahl Nitrogen	mg/L	5.7	5.1	8.1	4.5	4.9	34.0	14.6	38.6	18.4	25.2	32.1	15.2	32.6	32.4	32.1
11.	Free Ammonia	mg/L	0.10	0.09	0.25	0.32	0.65	0.45	0.2	0.4	0.2	0.6	0.5	0.7	0.56	0.35	0.49
12.	Copper	mg/L	0.06	0.06	0.05	BDL (DL- 0.05)	0.05	0.06	0.1	0.08	0.08	0.08	0.07	0.05	0.04	0.05	0.07
13.	Zinc	mg/L	0.5	0.86	0.35	0.23	0.31	0.5	0.4	0.6	0.2	0.3	0.4	0.2	0.2	0.35	0.62
14.	BOD 3 days at 270C	mg/L	62	72	51	56	72	65	71	78	72	73	78	38	76	76	80
15.	COD	mg/L	198	236	150	169	217	195	150	235	225	218	234	114	229	234	241
16	Total Residual Chlorine	mg/L	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.3
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.01	0.06	0.04	0.03	0.03	0.2	0.04	0.1	0.05	0.07	0.08	0.05	0.05	0.08	0.3
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.12	BDL (DL-0.05)	0.07	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.18
21.	Hexavalent Chromium	mg/L	0.4	0.4	0.4	0.4	0.2	0.3	0.4	0.1	0.1	0.3	0.4	0.2	0.2	0.5	0.2
22.	Total Chromium	mg/L	0.6	0.6	0.7	0.6	0.4	0.5	0.6	0.2	0.2	0.5	0.7	0.4	0.4	0.7	0.5
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.5	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.4
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	ABSENT	Absent
25.	Phenolic compound	mg/L	0.4	0.7	0.5	0.3	0.3	0.5	0.4	0.2	0.2	0.3	0.4	0.5	0.3	0.4	0.4
26.	Iron	mg/L	0.5	0.5	0.7	0.4	0.5	0.7	0.3	0.52	0.6	0.6	0.5	0.3	0.5	0.6	0.6
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)

January 2024 to March 2024																
Wastewater Samples		Month	January 2024					February 2024					March 2024				
		Date of Sampling	11/01/24	16/01/24	24/01/24	29/01/24	31/01/24	05/02/24	07/02/24	12/02/24	22/02/24	24/02/24	04/03/24	07/03/24	11/03/24	20/03/24	27/03/24
S. No.	Test Parameters	Unit	Result														
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	1.2	BDL (DL-0.21)	0.3	0.3	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	1.0
29.	Nitrate Nitrogen as NO3-N	mg/L	3.2	4.5	7.2	3.5	3.6	18.9	17.2	18.6	13.0	14.6	15.3	10.1	12.6	23.5	23.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.21. Wastewater Monitoring Data (M/s. Shiva Pharmachem Pvt. Ltd.)

October 2023 to December 2023												
Wastewater Samples		Month	October 2023			November 2023			December 2023			
		Date of Sampling	07/10/23	12/10/23	20/10/23	01/11/23	24/11/23	29/11/23	05/12/23	08/12/23	14/12/23	16/12/23
S. No.	Test Parameters	Unit	Result									
01.	pH @ 25 ° C	^{0}C	7.56	6.78	8.37	7.21	7.64	7.48	6.72	7.58	7.42	BDL (MDL:2.0)
02.	Total Dissolved Solids	pH unit	2890	6106	4936	7230	5870	8310	4976	4546	3170	4666
03.	Total Suspended Solids	mg/L	4	26	6	24	BDL (MDL:4.0)	8	6	62	22	10
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.45	1.40	1.25	1.85	1.45	2.40	2.10	1.65	1.35	1.35
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.1	5.8	6.3	5.8	6.2	8.4	8.4	4.6	7.6	7.6
08.	Ammonical Nitrogen	mg/L	2.2	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.8	2.8	BDL (MDL:2.0)	2.1	2.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.067	0.074	0.065	0.077	0.065	0.096	0.084	0.067	0.074	0.077
11.	Zinc	mg/L	0.092	0.106	0.091	0.104	0.091	0.127	0.093	0.078	0.103	0.104
12.	COD	mg/L	42.1	85.8	20.2	48.6	44.9	69.8	101.4	117.5	113.4	28.2
13.	BOD (3 days at 27 0C)	mg/L	13	25	6	14	14	20	28	32	32	7
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.044	0.056	0.044	0.058	0.044	0.077	0.067	0.044	0.056	0.059
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.22	0.25	0.21	0.39	0.28	0.56	0.69	0.31	0.39	0.39
20.	Nickel	mg/L	0.057	0.063	0.054	0.066	0.057	0.084	0.087	0.067	0.065	0.065
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	745.2	625.5	745.5	922.5	785.2	1126	944.5	785.2	742.5	896.3
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023												
Wastewater Samples		Month	October 2023			November 2023			December 2023			
		Date of Sampling	07/10/23	12/10/23	20/10/23	01/11/23	24/11/23	29/11/23	05/12/23	08/12/23	14/12/23	16/12/23
S. No.	Test Parameters	Unit	Result									
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	90/Unobjectionable	60/Unobjectionable	40/Unobjectionable	50/Unobjectionable	40/Unobjectionable	60/Unobjectionable	330/Objectionable	310/Objectionable	80/Unobjectionable	40/Unobjectionable
27.	Temperature	mg/L	29	30	29	28	29.5	29	29.0	29.0	28.5	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.

Note: BDL= Below Detection Limit, **MDL**=Minimum Detection Limit,

4.22. Wastewater Monitoring Data (M/s. Shiva Pharmachem Pvt. Ltd.)

January 2024 to March 2024

Wastewater Samples		Month	January 2024				February 2024				March 2024				
		Date of Sampling	13/01/24	18/01/24	24/01/24	31/01/24	02/02/24	12/02/24	20/02/24	26/02/24	04/03/24	11/03/24	16/03/24	23/03/24	29/03/24
S. No.	Test Parameters	Unit	Result												
01.	Temperature	^{0}C	36	36	28	32	27	34	32	28.3	30	28.3	34	33	34
02.	pH at 25^{0}C	pH unit	7.82	7.12	8.21	7.96	7.20	7.50	7.76	7.25	7.38	7.25	7.56	7.49	7.62
03.	Total Suspended Solids (TSS)	mg/L	48	43	37	41	44	31	46	36	40	32	40	37	25
04.	Chloride	mg/L	652	745	45	120	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	68	220	61	75	195	386	359	269	145	238	289	278	265
06.	Oil & grease	mg/L	3.0	3.1	1.8	2.6	8.0	1.5	8.6	2.8	6.8	3.2	7.6	7.6	3.2
07.	Fluoride	mg/L	0.8	0.4	0.7	0.4	0.7	0.3	0.5	0.52	0.5	0.55	0.6	0.7	0.5
08.	Sulphide	mg/L	0.6	0.9	0.5	0.4	0.8	0.8	0.8	0.8	0.6	0.6	0.5	0.5	0.6
09.	Ammonical Nitrogen	mg/L	4.2	5.6	5.7	4.3	22.9	22.0	24.2	5.2	18.9	6.9	32.5	19.6	25.1
10.	Total Kjeldahl Nitrogen	mg/L	5.8	6.3	6.3	7.3	24.6	33.5	29.7	6.7	22.4	8.5	38.6	23.4	31.2
11.	Free Ammonia	mg/L	0.96	0.11	0.17	0.21	0.62	0.3	0.4	0.1	0.65	0.2	0.46	0.5	0.36
12.	Copper	mg/L	0.07	0.05	0.06	BDL (DL- 0.05)	0.12	0.1	0.15	0.03	0.15	0.02	0.25	0.19	0.16
13.	Zinc	mg/L	0.75	0.65	0.45	0.26	0.6	0.4	0.3	0.26	0.3	0.23	0.32	0.28	0.45
14.	BOD 3 days at 27^{0}C	mg/L	51	54	50	54	59	41	62	47	53	43	56	49	34
15.	COD	mg/L	196	165	162	162	176	123	185	142	161	128	168	148	103
16	Total Residual Chlorine	mg/L	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.06	0.05	0.04	0.02	0.06	0.08	0.05	0.02	0.05	0.01	0.03	0.04	0.05
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.08	0.1	BDL (DL-0.05)	BDL (DL-0.05)	0.07	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.06
21.	Hexavalent Chromium	mg/L	0.4	0.3	0.6	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.4	0.2	0.4
22.	Total Chromium	mg/L	0.8	0.7	0.8	0.6	0.7	0.5	0.5	0.4	0.6	0.3	0.6	0.4	0.6
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	0.3	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.2
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.4	0.3	0.2	0.5	0.2	0.3	0.2	0.4	0.2	0.2	0.4	0.3
26.	Iron	mg/L	0.4	0.2	0.7	0.6	065	0.8	0.4	0.3	062	0.3	0.3	0.6	0.6
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.4	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	0.3
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.5	5.2	5.3	4.5	12.8	14.6	16.8	6.0	15.3	7.3	13.9	19.4	12.1

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.23. Wastewater Monitoring Data (M/s. Thermax Ltd.)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023		November 2023		December 2023		
		Date of Sampling	25/10/23	28/10/23	11/11/23	17/11/23	01/12/23	04/12/23	15/12/23
S. No.	Test Parameters	Unit	Result						
01.	pH @ 25 ° C	^{0}C	7.47	7.38	7.45	7.73	7.70	7.65	7.41
02.	Total Dissolved Solids	pH unit	15390	11590	12066	13186	12850	16176	15860
03.	Total Suspended Solids	mg/L	12	26	BDL (MDL:4.0)	6	30	16	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	3.10	2.25	2.25	3.10	2.65	3.10	2.85
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	72.6	41.8	8.3	11.3	11.8	9.5	10.1
08.	Ammonical Nitrogen	mg/L	66.7	36.2	2.8	5.6	6.2	3.9	4.4
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.077	0.077	0.065	0.067	0.065	0.084	0.077
11.	Zinc	mg/L	0.104	0.106	0.093	0.098	0.091	0.106	0.093
12.	COD	mg/L	217.5	113.1	72	87.3	158.8	136.9	132.8
13.	BOD (3 days at 27 0C)	mg/L	62	32	21	25	46	38	36
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	0.068	0.067	0.055	0.057	0.055	0.078	0.065
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.65	0.45	0.41	0.95	0.44	0.65	0.44
20.	Nickel	mg/L	0.044	0.053	0.033	0.052	0.036	0.059	0.037
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	5690	3926	5112	6722	3850	6772	6254
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	20/Unobjectionable	40/Unobjectionable	20/Objectionable	50/Objectionable	50/Objectionable	50/Unobjectionable	70/Objectionable

October 2023 to December 2023									
Wastewater Samples		Month	October 2023		November 2023		December 2023		
		Date of Sampling	25/10/23	28/10/23	11/11/23	17/11/23	01/12/23	04/12/23	15/12/23
S. No.	Test Parameters	Unit	Result						
27.	Temperature	mg/L	29	29	30	29.5	29.5	29.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL=Below Detection Limit, **MDL**=Minimum Detection Limit,									

4.24. Wastewater Monitoring Data (M/s. Thermax Ltd.)

January 2024 to March 2024													
Wastewater Samples		Month	January 2024			February 2024					March 2024			
		Date of Sampling	08/01/24	15/01/24	23/01/24	03/02/24	15/02/24	16/02/24	21/02/24	25/02/24	06/03/24	12/03/24	19/03/24	27/03/24
S. No.	Test Parameters	Unit	Result											
01.	Temperature	^{0}C	33	34	28	33	32	27	29	18	29	32	32	29
02.	pH at 25^{0}C	pH unit	7.78	7.64	7.65	7.56	6.80	7.30	7.36	7.35	7.36	7.86	7.56	7.52
03.	Total Suspended Solids (TSS)	mg/L	55	52	49	59	52	32	38	52	34	47	42	41
04.	Chloride	mg/L	1485	635	380	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	526	238	540	426	854	642	1256	712	849	512	356	346
06.	Oil & grease	mg/L	4.2	2.8	2.5	3.6	9.2	6.0	2.5	6.2	3.2	5.6	4.6	3.0
07.	Fluoride	mg/L	0.5	0.8	0.9	0.5	0.8	0.7	0.75	0.5	0.63	0.7	0.5	0.6
08.	Sulphide	mg/L	0.8	0.9	0.8	0.6	0.6	0.4	0.6	0.6	0.47	0.5	0.3	0.4
09.	Ammonical Nitrogen	mg/L	2.6	6.5	6.1	13.8	22.5	23.5	23.9	10.5	21.5	19.2	18.6	16.2
10.	Total Kjeldahl Nitrogen	mg/L	2.9	7.1	6.7	17.2	24.8	26.1	26.5	14.2	23.6	24.6	22.8	21.6
11.	Free Ammonia	mg/L	0.04	0.14	0.19	0.24	0.4	0.4	0.35	0.1	0.28	0.25	0.6	0.20
12.	Copper	mg/L	0.02	0.03	0.06	0.1	0.07	0.082	0.08	0.04	0.06	0.05	0.052	0.15
13.	Zinc	mg/L	0.25	0.45	0.45	0.4	0.4	0.45	0.2	0.35	0.3	0.42	0.34	0.3
14.	BOD 3 days at 27^{0}C	mg/L	74	62	63	78	58	31	49	71	46	63	58	55
15.	COD	mg/L	241	210	195	234	175	92	152	223	138	189	173	164
16	Total Residual Chlorine	mg/L	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.04	0.03	0.01	0.12	0.08	0.06	0.1	0.03	0.2	0.05	0.05	0.2
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.08	0.1	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.5	0.3	0.1	0.2	0.3	0.2	0.2	0.3	0.4	0.2
22.	Total Chromium	mg/L	0.8	0.7	0.8	0.5	0.2	0.3	0.5	0.3	0.3	0.5	0.6	0.4
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.5	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.3
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.3	0.3	0.5	0.5	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.4
26.	Iron	mg/L	0.2	0.2	0.2	0.7	0.5	0.4	0.7	0.2	0.4	0.2	0.3	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL- 0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	5.3	8.2	5.9	16.2	15.8	13.2	17.9	16.5	16.2	18.6	16.2	20.1

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.25. Wastewater Monitoring Data (M/s. Torrent Pharmaceuticals Ltd. (Dahej))

October 2023 to December 2023								
Wastewater Samples		Month	October 2023		November 2023		December 2023	
		Date of Sampling	25/10/23	28/10/23	04/11/23	20/11/23	09/12/23	15/12/23
S. No.	Test Parameters	Unit	Result					
01.	pH @ 25 ° C	^{0}C	7.61	7.48	7.67	7.84	8.00	7.68
02.	Total Dissolved Solids	pH unit	1696	1460	1426	1590	1506	1470
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	32	14	6	12	12
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.10	0.74	0.83	0.97	0.89	0.77
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	6.2	8.9	5.6	4.7	5.2	4.4
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	3.4	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.085	0.057	0.052	0.061	0.054	0.051
11.	Zinc	mg/L	0.104	0.078	0.067	0.073	0.066	0.062
12.	COD	mg/L	45.1	46.1	57.4	57.9	36.2	37.3
13.	BOD (3 days at 27 0C)	mg/L	13	13	16	17	11	12
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.35	0.15	0.11	0.19	0.14	0.11
20.	Nickel	mg/L	0.058	0.026	0.035	0.042	0.035	0.028
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	425.2	266.8	218.5	263.2	322.5	293.2
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	50/Unobjectionable	30/Unobjectionable	40/Unobjectionable	50/Unobjectionable	60/Unobjectionable	60/Unobjectionable

October 2023 to December 2023								
Wastewater Samples		Month	October 2023		November 2023		December 2023	
		Date of Sampling	25/10/23	28/10/23	04/11/23	20/11/23	09/12/23	15/12/23
S. No.	Test Parameters	Unit	Result					
27.	Temperature	mg/L	30	30	29	29.5	28.5	28.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90%survivaloffishafter48 hrs.	90%survivaloffishafter48 hrs.	90%survivaloffish after 48 hrs.	90 % survival of fish after 48hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,								

4.26. Wastewater Monitoring Data (M/s. Torrent Pharmaceuticals Ltd. (Dahej))

January 2024 to March 2024											
Wastewater Samples		Month	January			February			March			
		Date of Sampling	05/01/24	19/01/24	25/01/24	06/02/24	22/02/24	27/02/24	08/03/24	14/03/24	26/03/24	28/03/24
S. No.	Test Parameters	Unit	Result									
01.	Temperature	0C	31	34	34	36	29	34	32	35	34	34
02.	pH at 25^0C	pH unit	8.05	7.52	7.52	7.50	7.20	6.75	7.36	7.62	7.46	7.65
03.	Total Suspended Solids (TSS)	mg/L	30	46	46	44	38	32	24	43	36	32
04.	Chloride	mg/L	952	660	589	--	--	--	--	--	--	--
05.	Sulphate	mg/L	396	138	267	236	346	310	189	196	286	236
06.	Oil & grease	mg/L	1.0	2.9	2.5	7.0	2.0	2.2	3.2	5.2	2.8	2.8
07.	Fluoride	mg/L	0.5	0.6	0.6	0.8	0.5	0.5	0.6	0.6	0.6	0.6
08.	Sulphide	mg/L	0.4	1.0	0.8	0.5	0.2	0.4	0.45	0.4	0.3	0.3
09.	Ammonical Nitrogen	mg/L	2.1	5.2	6.4	32.6	13.0	14.2	11.6	25.6	15.9	10.8
10.	Total Kjeldahl Nitrogen	mg/L	2.5	5.8	8.2	44.3	15.8	15.8	14.2	31.5	21.3	14.6
11.	Free Ammonia	mg/L	0.04	0.25	0.52	0.5	0.2	0.2	0.6	0.4	0.26	0.26
12.	Copper	mg/L	BDL (DL-0.05)	0.03	BDL (DL- 0.05)	0.12	0.06	0.05	0.04	0.16	0.04	0.03
13.	Zinc	mg/L	0.24	0.43	0.35	0.4	0.3	0.3	0.2	0.35	0.2	0.25
14.	BOD 3 days at 27^0C	mg/L	40	58	58	45	43	38	32	53	48	42
15.	COD	mg/L	120	168	178	135	129	115	98	161	146	128
16	Total Residual Chlorine	mg/L	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.02	0.02	0.03	0.1	0.05	0.08	0.05	0.2	0.03	0.05
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.08	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.4	0.5	0.2	0.5	0.3	0.1	0.1	0.4	0.4	0.2
22.	Total Chromium	mg/L	0.6	0.8	0.4	0.8	0.4	0.2	0.3	0.7	0.6	0.4
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.4	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.2	BDL (DL- 0.3)	BDL (DL -0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.5	0.3	0.4	0.1	0.1	0.2	0.2	0.2	0.2
26.	Iron	mg/L	0.4	0.4	0.1	0.7	0.5	0.5	0.4	0.5	0.4	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	1.0	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	0.8	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	1.2	4.8	4.5	17.5	14.2	11.9	8.5	15.4	13.8	9.5
Note: 1. Temperature and Total Residual Chlorine was measured onsite. 2. BDL – Below Detection Limit, DL – Detection Limit												

4.27. Wastewater Monitoring Data (M/s. Sun Pharmaceuticals & Industries Ltd.)

October 2023 to December 2023															
Wastewater Samples		Month	October 2023				November 2023					December 2023				
		Date of Sampling	03/10/23	12/10/23	26/10/23	31/10/23	06/11/23	09/11/23	16/11/23	22/11/23	24/11/23	05/12/23	08/12/23	14/12/23	22/12/23	27/12/23
S. No.	Test Parameters	Unit	Result													
01.	pH @ 25 ° C	^{0}C	8.34	8.50	8.11	8.18	8.21	8.18	8.27	8.05	8.11	7.89	8.34	8.33	8.15	8.04
02.	Total Dissolved Solids	pH unit	4220	2970	4056	2996	2536	3090	3526	3166	2950	3500	3630	3302	3452	4186
03.	Total Suspended Solids	mg/L	30	48	46	30	18	32	24	16	32	28	30	40	40	568
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.0	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	2.20	1.85	2.10	1.62	1.25	1.45	1.10	0.98	1.30	1.85	1.45	1.25	1.60	1.85
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	8.2	6.9	5.8	8.3	5.7	7.1	5.8	4.3	6.3	8.3	5.5	4.2	5.2	4.3
08.	Ammonical Nitrogen	mg/L	2.8	2.2	BDL (MDL:2.0)	2.8	BDL (MDL:2.0)	2.2	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.8	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.074	0.067	0.078	0.065	0.055	0.068	0.075	0.067	0.061	0.074	0.084	0.075	0.067	0.078
11.	Zinc	mg/L	0.059	BDL (MDL:0.05)	0.054	BDL (MDL:0.05)	BDL (MDL:0.05)	0.057	0.063	0.055	0.052	0.063	0.074	0.065	0.055	0.064
12.	COD	mg/L	68.8	81.7	81.2	56.4	60.8	89.2	187.3	41.2	61.3	56.7	93.1	72.6	57.1	55.6
13.	BOD (3 days at 27 0C)	mg/L	20	24	23	16	18	26	62	12	18	16	26	21	16	15
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.057	0.047	0.058	0.047	0.036	0.047	0.055	0.047	0.038	0.055	0.063	0.052	0.047	0.055
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.046	0.036	0.044	0.036	0.025	0.036	0.044	0.036	0.027	0.044	0.052	0.044	0.036	0.049
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	485.2	395.2	485.6	325.5	424.5	626.5	705.2	596.6	536.2	745.5	893.2	844.4	596.6	712.2
24.	Residual Chlorine	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

October 2023 to December 2023																
Wastewater Samples		Month	October 2023				November 2023					December 2023				
		Date of Sampling	03/10/23	12/10/23	26/10/23	31/10/23	06/11/23	09/11/23	16/11/23	22/11/23	24/11/23	05/12/23	08/12/23	14/12/23	22/12/23	27/12/23
S. No.	Test Parameters	Unit	Result													
			(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)
25.	Pesticides	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
26.	(Colour /Odour)	mg/L	250/Objectionable	280/Objectionable	260/Objectionable	220/Objectionable	145/Unobjectionable	120/Unobjectionable	100/Objectionable	80/Objectionable	100/Unobjectionable	80/Unobjectionable	80/Objectionable	70/Objectionable	70/Unobjectionable	80/Unobjectionable
27.	Temperature	mg/L	29	30	29	30	29	28	29.5	29.0	29	28.5	29.0	28.5	28.0	28.5
28.	Selenium	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
29.	Bio Assay test	mg/L	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.	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,																

4.28. Wastewater Monitoring Data (M/s. Sun Pharmaceuticals & Industries Ltd.)

January 2024 to March 2024													
Wastewater Samples		Month	January				February					March		
		Date of Sampling	10/01/24	12/01/24	18/01/24	24/01/24	02/02/24	07/02/24	20/02/24	24/02/24	25/02/24	04/03/24	11/03/24	18/03/24
S. No.	Test Parameters	Unit	Result											
01.	Temperature	0C	33	33	36	29	28	25	33	35	21.6	32	34	34
02.	pH at 25^{0}C	pH unit	8.36	8.25	7.35	8.54	7.65	7.00	8.5	7.68	7.65	7.49	7.56	7.43
03.	Total Suspended Solids (TSS)	mg/L	39	37	57	40	50	52	43	41	17	44	21	20
04.	Chloride	mg/L	295	325	742	480	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	98	122	360	716	286	286	169	189	385	186	289	275
06.	Oil & grease	mg/L	2.2	2.8	3.2	3.6	13.2	6.0	4.0	2.6	2.0	11.8	2.5	2.5
07.	Fluoride	mg/L	0.8	0.7	0.9	0.8	0.7	0.8	0.5	0.45	0.31	0.6	0.28	0.26
08.	Sulphide	mg/L	0.6	0.9	1.1	0.7	0.5	0.6	0.4	0.70	0.3	0.4	0.29	0.21
09.	Ammonical Nitrogen	mg/L	6.2	7.3	5.4	6.5	24.2	24.3	23.9	14.2	6.8	22.4	7.6	5.2
10.	Total Kjeldahl Nitrogen	mg/L	6.5	7.8	6.1	6.9	36.5	32.6	27.9	16.2	8.5	32.5	9.5	7.9
11.	Free Ammonia	mg/L	0.11	0.10	0.12	0.19	0.3	0.3	0.4	0.3	0.1	0.2	0.25	0.15
12.	Copper	mg/L	0.07	0.05	0.08	0.07	0.05	0.08	0.1	0.06	0.05	0.03	0.04	0.03
13.	Zinc	mg/L	0.75	0.25	0.85	0.75	0.45	0.3	0.6	0.25	0.3	0.40	0.28	0.2
14.	BOD 3 days at 27^{0}C	mg/L	52	49	72	52	66	62	57	54	23	57	28	26
15.	COD	mg/L	156	148	220	162	198	186	172	162	74	173	86	80
16	Total Residual Chlorine	mg/L	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.06	0.03	0.05	0.06	0.05	0.04	0.05	0.02	0.05	0.03	0.03	0.04
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.05	0.05	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.4	0.4	0.6	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.20	0.1
22.	Total Chromium	mg/L	0.8	0.6	0.9	0.6	0.6	0.4	0.5	0.3	0.15	0.7	0.32	0.2
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	0.4	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.5	0.6	0.2	0.5	0.5	0.3	0.2	0.1	0.4	0.2	0.2
26.	Iron	mg/L	0.4	0.4	0.4	0.5	0.5	0.6	0.8	0.4	0.4	0.3	0.4	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.14	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.52	BDL (DL-0.21)	0.5	BDL (DL-0.21)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.2	4.4	4.8	6.3	14.2	14.0	17.5	13.5	12.2	13.5	10.3	9.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.29. Wastewater Monitoring Data (M/s. Coromandal International Ltd.)

October 2023 to December 2023							
Wastewater Samples		Month	October 2023		November 2023	December 2023	
		Date of Sampling	25/10/23	31/10/23	23/11/23	01/12/23	13/12/23
S. No.	Test Parameters	Unit	Result				
01.	pH @ 25 ° C	^{0}C	7.30	7.03	7.54	7.35	7.52
02.	Total Dissolved Solids	pH unit	1750	1540	1310	1480	1640
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	10	6
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.22	0.97	0.92	0.98	1.10
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	15.6	26.5	6.9	10.2	5.6
08.	Ammonical Nitrogen	mg/L	10.2	20.9	2.2	4.5	BDL(MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.104	0.096	0.084	0.091	0.092
11.	Zinc	mg/L	0.067	0.057	0.051	0.055	0.063
12.	COD	mg/L	8.2	12.3	8.2	24.4	8.3
13.	BOD (3 days at 27 0C)	mg/L	2	3	2	7	2
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.37	0.41	0.22	0.25	0.31
20.	Nickel	mg/L	0.055	0.055	0.038	0.044	0.047
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	623.2	424.4	475.2	510.2	562.2
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	30/Unobjectionable	20/Unobjectionable	30/Objectionable	25/Unobjectionable	40/Unobjectionable
27.	Temperature	mg/L	30	29	29.5	29.0	29.0

October 2023 to December 2023							
Wastewater Samples		Month	October 2023		November 2023	December 2023	
		Date of Sampling	25/10/23	31/10/23	23/11/23	01/12/23	13/12/23
S. No.	Test Parameters	Unit	Result				
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90%survivaloffishafter48 hrs.	90%survivaloffishafter48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,							

4.30. Wastewater Monitoring Data (M/s. Coromandal International Ltd.)

January 2024 to March 2024													
Wastewater Samples		Month	January				February				March			
		Date of Sampling	05/01/24	15/01/24	20/01/24	25/01/24	03/02/24	13/02/24	21/02/24	26/02/24	08/03/24	14/03/24	26/03/24	28/03/24
S. No.	Test Parameters	Unit	Result											
01.	Temperature	0C	27	36	35	35	30	34	30	34	30	34	35	34
02.	pH at 25^0C	pH unit	7.42	7.26	7.72	7.72	7.36	7.30	7.40	7.56	7.40	7.62	7.36	7.53
03.	Total Suspended Solids (TSS)	mg/L	38	24	42	42	45	36	34	30	30	36	28	26
04.	Chloride	mg/L	812	487	747	847	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	394	215	836	654	326	147	218	139	138	165	163	243
06.	Oil & grease	mg/L	5.6	1.2	5.2	3.2	2.8	7.8	4.2	8.2	4.0	2.8	5.3	5.9
07.	Fluoride	mg/L	0.1	0.7	1.1	0.8	0.4	0.5	0.5	0.6	0.6	0.6	0.5	0.6
08.	Sulphide	mg/L	0.7	0.8	2.1	0.5	0.5	0.5	0.2	0.3	0.3	0.3	0.4	0.4
09.	Ammonical Nitrogen	mg/L	4.6	4.6	6.7	5.6	6.9	12.1	13.5	12.9	7.6	15.6	15.9	13.5
10.	Total Kjeldahl Nitrogen	mg/L	5.2	5.7	7.4	6.5	8.3	16.9	16.8	14.0	10.4	20.6	19.6	15.4
11.	Free Ammonia	mg/L	0.07	0.11	0.14	0.42	0.52	0.2	0.3	0.2	0.4	0.25	0.3	0.31
12.	Copper	mg/L	0.05	0.04	0.03	BDL (DL- 0.05)	0.04	0.1	0.05	0.06	0.03	0.04	0.04	0.15
13.	Zinc	mg/L	0.54	0.36	0.75	0.62	0.28	0.2	0.12	0.2	0.15	0.19	0.26	0.23
14.	BOD 3 days at 27^0C	mg/L	51	32	59	59	50	40	45	40	41	48	38	35
15.	COD	mg/L	152	96	190	178	149	120	135	121	125	146	119	107
16	Total Residual Chlorine	mg/L	0.1	0.2	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.03	0.03	0.02	0.04	0.08	0.03	0.08	0.02	0.04	0.06	0.05
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.05	BDL (DL-0.05)	0.06	BDL (DL-0.05)	BDL (DL-0.05)	0.03	0.03
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.2	0.4	0.4	0.3	0.2	0.2	0.1	0.3	0.2	0.2
22.	Total Chromium	mg/L	0.8	0.8	0.4	0.6	0.8	0.4	0.3	0.3	0.2	0.5	0.4	0.4
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.2	0.3	0.2	0.3	0.4	0.4	0.2	0.3	0.3	0.4	0.3
26.	Iron	mg/L	0.5	0.4	0.2	0.3	0.1	0.4	0.5	0.4	0.4	0.5	0.6	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.1	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.2
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	1.0	BDL (DL- 0.01)	BDL (DL- 0.21)	BDL (DL- 0.01)	BDL (DL- 0.21)	BDL (DL- 0.01)	1.3
29.	Nitrate Nitrogen as NO_3-N	mg/L	8.2	5.4	5.6	4.8	13.6	17.5	13.9	12.8	7.9	10.6	17.3	15.7

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.31. Wastewater Monitoring Data (M/s. Indofil Industries Ltd.)

January 2024			
Wastewater Samples		Month	January
		Date of Sampling	06/01/24
S. No.	Test Parameters	Unit	Result
01.	Temperature	0C	30
02.	pH at 25^0C	pH unit	7.32
03.	Total Suspended Solids (TSS)	mg/L	26
04.	Chloride	mg/L	1120
05.	Sulphate	mg/L	9645
06.	Oil & grease	mg/L	3.7
07.	Fluoride	mg/L	0.8
08.	Sulphide	mg/L	0.7
09.	Ammonical Nitrogen	mg/L	4.8
10.	Total Kjeldahl Nitrogen	mg/L	5.2
11.	Free Ammonia	mg/L	0.10
12.	Copper	mg/L	0.08
13.	Zinc	mg/L	0.78
14.	BOD 3 days at 27^0C	mg/L	21
15.	COD	mg/L	65
16	Total Residual Chlorine	mg/L	0.2
17	Arsenic	mg/L	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL- 0.01)
19.	Lead	mg/L	0.07
20.	Cadmium	mg/L	BDL (DL- 0.05)
21.	Hexavalent Chromium	mg/L	0.4
22.	Total Chromium	mg/L	0.8
23.	Nickel	mg/L	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent
25.	Phenolic compound	mg/L	0.4
26.	Iron	mg/L	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.32. Wastewater Monitoring Data (M/s.GIDC Drainage Pumping Station C-2)

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

October 2023 to December 2023													
Wastewater Samples		Month	October 2023				November 2023			December 2023				
		Date of Sampling	03/10/23	10/10/23	20/10/23	31/10/23	06/11/23	25/11/23	28/11/23	05/12/23	12/12/23	18/12/23	25/12/23	30/12/23
S. No.	Test Parameters	Unit	Result											
01.	pH @ 25 ° C	^{0}C	7.77	7.66	7.42	7.72	7.61	6.96	7.56	8.03	7.15	8.17	8.40	8.05
02.	Total Dissolved Solids	pH unit	2260	3606	6130	1206	25786	14620	15190	1590	3436	1786	16280	1800
03.	Total Suspended Solids	mg/L	12	62	96	18	BDL (MDL:4.0)	108	10	20	112	20	110	BDL (MDL:4.0)
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	13.0	21.0	9.0	2.0	BDL (MDL:2.0)	BDL (MDL:2.0)	3.0	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.25	2.05	1.90	0.96	4.25	3.10	3.10	0.96	1.25	0.93	3.25	1.05
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	13.4	16.2	8.6	10.7	10.2	9.8	14.5	36.2	6.9	9.6	14.2	49.9
08.	Ammonical Nitrogen	mg/L	7.8	10.6	2.8	5.6	4.5	4.2	9.0	30.5	2.2	4.3	9.0	44.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.052	0.067	0.078	0.052	0.097	0.078	0.078	0.057	0.052	BDL(MDL:0.05)	0.078	0.052
11.	Zinc	mg/L	0.075	0.096	0.093	0.077	0.104	0.086	0.083	0.063	0.065	0.054	0.089	0.067
12.	COD	mg/L	73.1	31.4	77.0	97.5	3407	19157	2445.6	105.4	230.2	124	553.2	105.3
13.	BOD (3 days at 27 0C)	mg/L	21	9	22	27	1130	6510	810	30	65	36	182	30
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.049	0.055	0.063	0.036	0.078	0.055	0.054	0.033	0.032	0.024	0.057	0.036
17	Cadmium	mg/L	0.057	0.078	0.074	0.057	0.096	0.078	0.078	0.065	0.042	0.053	0.069	0.044
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.41	0.33	0.65	0.21	3.75	2.10	2.25	0.45	0.45	0.31	0.65	0.29
20.	Nickel	mg/L	0.056	0.078	0.074	0.056	0.092	0.074	0.074	0.067	0.047	0.032	0.067	0.041
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	465.2	944.8	744.6	426.8	>10000	8952	6782	455.2	756.5	442.6	4692	896.4
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023														
Wastewater Samples		Month	October 2023				November 2023			December 2023				
		Date of Sampling	03/10/23	10/10/23	20/10/23	31/10/23	06/11/23	25/11/23	28/11/23	05/12/23	12/12/23	18/12/23	25/12/23	30/12/23
S. No.	Test Parameters	Unit	Result											
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	150/Objectionable	160/Objectionable	400/Objectionable	140/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	160/Objectionable	120/Objectionable	155/Objectionable	>500/Objectionable	400/Objectionable
27.	Temperature	mg/L	30	30	29	29	28	29.5	29.0	28.5	29.0	28.5	28.5	29.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	Not pass the test	Not pass the test	Not pass the test	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.	90% survival offish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,														

4.33. Wastewater Monitoring Data (M/s.GIDC Drainage Pumping Station C-2)

January 2024 to March 2024											
Wastewater Samples		Month	January				February			March		
		Date of Sampling	13/01/24	22/01/24	24/01/24	31/01/24	02/02/24	22/02/24	28/02/24	07/03/24	16/03/24	23/03/24
S. No.	Test Parameters	Unit	Result									
01.	Temperature	0C	34	34	30	34	32	29	37	34	35	35
02.	pH at 25^0C	pH unit	8.16	7.98	7.82	8.36	7.56	7.46	7.68	7.62	7.86	7.42
03.	Total Suspended Solids (TSS)	mg/L	62	45	52	65	70	55	74	38	85	61
04.	Chloride	mg/L	998	662	980	1156	--	--	--	--	--	--
05.	Sulphate	mg/L	452	439	557	572	485	524	325	243	296	685
06.	Oil & grease	mg/L	6.8	4.6	4.7	6.9	3.2	13.2	12.5	4.6	10.4	9.6
07.	Fluoride	mg/L	1.0	1.1	0.8	0.9	0.6	0.7	0.9	0.8	0.7	0.5
08.	Sulphide	mg/L	1.4	0.9	0.9	0.8	0.7	0.6	0.2	0.6	0.5	0.6
09.	Ammonical Nitrogen	mg/L	4.2	4.9	6.8	5.9	43.6	37.2	36.2	25.3	42.3	38.6
10.	Total Kjeldahl Nitrogen	mg/L	6.4	5.2	7.2	6.8	52.5	42.3	43.5	31.6	49.2	44.5
11.	Free Ammonia	mg/L	0.26	0.19	0.21	0.25	0.7	0.7	0.6	0.5	0.7	0.8
12.	Copper	mg/L	0.05	0.05	0.12	0.08	0.1	0.12	0.05	0.3	0.06	0.25
13.	Zinc	mg/L	0.78	0.62	0.45	0.28	0.54	0.4	0.32	0.28	0.42	0.62
14.	BOD 3 days at 27^0C	mg/L	82	60	72	86	93	75	91	51	114	82
15.	COD	mg/L	246	175	230	264	278	234	274	155	342	246
16	Total Residual Chlorine	mg/L	0.2	0.7	0.4	0.2	0.1	0.2	0.1	0.2	0.3	0.3
17	Arsenic	mg/L	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.7	0.09	0.08	0.07	0.05	0.06	0.04	0.04	0.06	0.06
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.5	0.8	0.8	0.4	0.5	0.4	0.3	0.3	0.5	0.3
22.	Total Chromium	mg/L	0.8	1.0	0.9	0.6	0.7	0.5	0.5	0.5	0.7	0.6
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.6	0.7	0.2	0.4	0.4	0.3	0.3	0.5	0.52
26.	Iron	mg/L	0.4	0.9	0.8	0.3	0.65	0.9	1.0	0.4	1.2	0.61
27.	Vanadium	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	11.2	5.3	6.4	7.6	22.8	18.4	36.5	14.3	42.2	31.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.34. Wastewater Monitoring Data (M/s. Camlin Fine Sciences Ltd.)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023				November 2023	December 2023	
		Date of Sampling	03/10/23	18/10/23	21/10/23	27/10/23	22/11/23	01/12/23	15/12/23
S. No.	Test Parameters	Unit	Result						
01.	pH @ 25 ° C	^{0}C	8.35	7.21	6.56	7.33	7.51	7.68	7.86
02.	Total Dissolved Solids	pH unit	910	39036	18770	25660	4456	490	12360
03.	Total Suspended Solids	mg/L	6	282	184	156	70	18	56
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	13.0
05.	Fluoride	mg/L	0.74	4.25	4.25	4.50	1.35	0.46	1.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	9.1	8.6	8.7	8.2	5.3	9.5	20.4
08.	Ammonical Nitrogen	mg/L	3.5	2.8	3.4	2.7	BDL (MDL:2.0)	3.9	14.5
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	BDL (MDL:0.05)	0.108	0.067	0.096	0.063	BDL (MDL:0.05)	0.067
11.	Zinc	mg/L	0.062	0.123	0.098	0.112	0.084	0.063	0.096
12.	COD	mg/L	20.4	150.6	211.3	134.9	45.4	36.6	250.2
13.	BOD (3 days at 27 0C)	mg/L	5	42	60	36	13	11	85.0
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.15	3.10	2.5	2.35	0.45	0.23	1.45
20.	Nickel	mg/L	0.021	0.087	0.067	0.078	0.047	0.036	0.078
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	144.2	>10000	>10000	>10000	985.5	125.5	2162
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	70/Unobjectionable	450/Objectionable	200/Objectionable	380/Objectionable	395/Objectionable	85/Unobjectionable	>500/Objectionable

October 2023 to December 2023									
Wastewater Samples		Month	October 2023				November 2023	December 2023	
		Date of Sampling	03/10/23	18/10/23	21/10/23	27/10/23	22/11/23	01/12/23	15/12/23
S. No.	Test Parameters	Unit	Result						
27.	Temperature	mg/L	29	29	30	29	29.5	29.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	Not pass the test
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,									

4.35. Wastewater Monitoring Data (M/s. Camlin Fine Sciences Ltd.)

January 2024 to March 2024												
Wastewater Samples		Month	January			February			March			
		Date of Sampling	15/01/24	20/01/24	23/01/24	03/02/24	15/02/24	25/02/24	06/03/24	12/03/24	19/03/24	27/03/24
S. No.	Test Parameters	Unit	Result									
01.	Temperature	0C	34	32	29	32	35	18.5	34	34	34	28
02.	pH at 25^{0}C	pH unit	7.36	7.35	7.82	7.10	7.35	7.28	7.48	7.52	7.38	7.65
03.	Total Suspended Solids (TSS)	mg/L	20	21	32	45	22	42	32	38	23	20
04.	Chloride	mg/L	125	309	276	--	--	--	--	--	--	--
05.	Sulphate	mg/L	68	128	172	236	125	72	113	126	42	195
06.	Oil & grease	mg/L	2.3	2.3	2.3	2.1	1.2	2.0	2.9	2.5	1.5	3.2
07.	Fluoride	mg/L	0.5	0.8	1.0	0.4	1.0	0.6	0.5	0.7	0.5	0.6
08.	Sulphide	mg/L	0.6	0.9	0.6	0.5	0.25	0.5	0.4	0.4	0.3	0.22
09.	Ammonical Nitrogen	mg/L	6.9	6.6	7.1	14.6	3.6	4.2	8.9	8.6	6.5	6.9
10.	Total Kjeldahl Nitrogen	mg/L	7.8	7.0	7.6	16.5	5.2	6.9	11.2	11.6	8.2	11.2
11.	Free Ammonia	mg/L	0.3	0.2	0.22	0.25	0.18	0.1	0.2	0.24	0.2	0.15
12.	Copper	mg/L	0.05	0.04	0.08	0.08	0.02	0.03	0.05	0.02	0.02	0.03
13.	Zinc	mg/L	0.58	0.53	0.35	0.30	0.25	0.24	0.26	0.28	0.19	0.21
14.	BOD 3 days at 27^{0}C	mg/L	28	24	45	46	29	62	44	51	30	27
15.	COD	mg/L	84	81	129	139	86	192	132	153	92	81
16	Total Residual Chlorine	mg/L	0.2	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)
19.	Lead	mg/L	0.05	0.04	0.02	0.08	0.03	0.02	0.04	0.03	0.03	0.02
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.5	0.3	0.2	0.1	0.3	0.1	0.3
22.	Total Chromium	mg/L	0.8	0.8	0.6	0.7	0.6	0.4	0.2	0.5	0.2	0.5
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.5	0.5	0.3	0.3	0.2	0.3	0.3	0.3	0.4
26.	Iron	mg/L	0.5	0.5	0.4	0.3	0.2	0.5	0.6	0.5	0.5	0.3
27.	Vanadium	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.5	6.1	6.5	14.9	3.8	13.8	14.8	11.6	12.3	10.6
Note: 1. Temperature and Total Residual Chlorine was measured onsite. 2. BDL – Below Detection Limit, DL – Detection Limit												

4.36. Wastewater Monitoring Data (M/s. GIDC drainage pumping station - D)

October 2023 to December 2023																
Wastewater Samples		Month	October 2023				November 2023					December 2023				
		Date of Sampling	03/10/23	10/10/23	21/10/23	25/10/23	04/11/23	07/11/23	17/11/23	20/11/23	28/11/23	04/12/23	11/12/23	20/12/23	25/12/23	29/12/23
S. No.	Test Parameters	Unit	Result													
01.	pH @ 25 ° C	^{0}C	7.20	7.52	BDL (MDL:2.0)	2.50	7.51	6.84	2.01	2.80	7.87	7.50	BDL (MDL:2.0)	7.36	8.52	6.98
02.	Total Dissolved Solids	pH unit	3696	4610	10706	19210	9190	14130	12746	10576	9780	5536	9310	2180	8296	14426
03.	Total Suspended Solids	mg/L	32	32	40	690	34	90	132	24	10	42	10	30	26	24
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	3.0	12.0	14.0	BDL (MDL:2.0)	3.0	5.0	BDL (MDL:2.0)	BDL (MDL:2.0)	2.0	4.0	BDL (MDL:2.0)	2.0	4.0
05.	Fluoride	mg/L	1.25	1.25	2.45	3.30	2.10	3.25	2.85	2.45	2.10	1.75	3.65	1.05	3.20	4.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	383.9	236.3	216.3	145.6	49.8	22.1	526.1	51.1	6.5	24.9	836.2	109.1	275.4	14.7
08.	Ammonical Nitrogen	mg/L	375.7	229.6	210.4	137.4	44.1	16.3	519.4	45.5	BDL (MDL:2.0)	19.2	824.1	102.9	269.5	9.0
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.074	0.063	0.084	0.104	0.087	0.105	0.094	0.093	0.084	0.085	0.093	0.063	0.084	0.104
11.	Zinc	mg/L	0.092	0.095	0.117	0.127	0.104	0.138	0.125	0.115	0.103	0.103	0.117	0.085	0.103	0.127
12.	COD	mg/L	102.9	213.5	2470.9	2831.7	180.4	201.8	764.7	190.4	89.4	169.1	847.5	146.8	187.1	435.9
13.	BOD (3 days at 27 0C)	mg/L	29	62	840	960	51	58	252	54	26	48	280	42	52	144
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.047	0.047	0.067	0.078	0.056	0.084	0.072	0.067	0.055	0.056	0.065	0.041	0.056	0.078
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.41	0.45	1.25	1.25	0.72	2.1	1.45	0.85	0.63	0.74	0.93	0.56	0.71	2.25
20.	Nickel	mg/L	0.057	0.057	0.078	0.084	0.063	0.093	0.078	0.074	0.059	0.066	0.077	0.044	0.065	0.089
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	1056	948.2	3252	8955	2955	5675	4630	4232	2988	985.2	3250	623.2	3002	5224
24.	Residual Chlorine	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

October 2023 to December 2023																
Wastewater Samples		Month	October 2023				November 2023					December 2023				
		Date of Sampling	03/10/23	10/10/23	21/10/23	25/10/23	04/11/23	07/11/23	17/11/23	20/11/23	28/11/23	04/12/23	11/12/23	20/12/23	25/12/23	29/12/23
S. No.	Test Parameters	Unit	Result													
			(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)	(MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	300/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	450/Objectionable	>500/Objectionable	250/Objectionable	>500/Objectionable	350/Objectionable	>500/Objectionable
27.	Temperature	mg/L	30	30	29	29	28	28	29.5	30	29.0	29.5	28.5	29.0	28.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.	Not pass the test	Not pass the test	Pass the test	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	Pass the test	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	Not pass the test	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,																

4.37. Wastewater Monitoring Data (M/s. GIDC drainage pumping station - D)

January 2024 to March 2024										
Wastewater Samples		Month	January		February		March			
		Date of Sampling	08/01/24	23/01/24	03/02/24	15/02/24	06/03/24	13/03/24	21/03/24	30/03/24
S. No.	Test Parameters	Unit	Result							
01.	Temperature	0C	36	29	32	32	34	34	34	34
02.	pH at 25^{0}C	pH unit	8.86	7.52	7.54	5.40	7.26	7.76	8.26	7.53
03.	Total Suspended Solids (TSS)	mg/L	58	43	62	85	78	58	65	82
04.	Chloride	mg/L	6045	970	--	--	--	--	--	--
05.	Sulphate	mg/L	3689	645	2065	2548	1632	1563	2126	2216
06.	Oil & grease	mg/L	5.6	4.6	9.0	15.6	12.8	8.3	18.3	16.9
07.	Fluoride	mg/L	1.2	1.1	1.0	1.1	1.4	1.3	1.5	1.6
08.	Sulphide	mg/L	1.1	1.0	1.0	1.2	1.6	1.0	1.6	1.4
09.	Ammonical Nitrogen	mg/L	15.3	9.2	56.2	45.4	38.6	76.2	42.6	72.4
10.	Total Kjeldahl Nitrogen	mg/L	17.3	10.3	66.7	54.2	46.2	85.3	49.2	78.6
11.	Free Ammonia	mg/L	0.23	0.32	0.85	0.8	0.7	0.80	0.86	0.92
12.	Copper	mg/L	0.03	0.21	0.08	0.2	0.3	0.09	0.52	0.32
13.	Zinc	mg/L	0.36	0.75	0.86	1.2	1.0	0.79	1.5	1.
14.	BOD 3 days at 27^{0}C	mg/L	76	62	83	94	105	79	87	108
15.	COD	mg/L	227	190	249	281	315	238	262	324
16	Total Residual Chlorine	mg/L	0.1	0.8	0.8	0.2	0.2	0.5	0.3	0.3
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.07	0.15	0.09	0.12	0.18	0.08	0.26	0.18
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.07	0.06	BDL (DL- 0.05)	0.08	0.09
21.	Hexavalent Chromium	mg/L	0.5	0.8	0.8	0.4	0.3	0.7	0.3	0.6
22.	Total Chromium	mg/L	0.8	0.9	0.9	0.5	0.4	0.9	0.6	0.9
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL-0.3)	0.3	0.4	BDL (DL- 0.3)	0.4	0.5
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.7	0.8	0.6	0.5	0.7	0.8	0.4
26.	Iron	mg/L	0.5	0.9	0.6	1.1	1.2	0.6	1.3	1.0
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.2	0.3	BDL (DL- 0.1)	0.3	0.6
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	0.8	0.7	BDL (DL- 0.21)	0.6	0.7
29.	Nitrate Nitrogen as NO_3-N	mg/L	14.5	8.6	18.6	35.9	29.2	22.6	41.6	45.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.38. Wastewater Monitoring Data (M/s. GIDC drainage pumping station - C)

October 2023 to December 2023														
Wastewater Samples		Month	October 2023					November 2023			December 2023				
		Date of Sampling	06/10/23	10/10/23	18/10/23	25/10/23	27/10/24	07/11/23	25/11/23	28/11/23	12/12/23	18/12/23	22/12/23	25/12/23	30/12/23
S. No.	Test Parameters	Unit	Result												
01.	pH @ 25 ° C	^{0}C	7.41	7.15	7.77	8.34	7.33	7.83	7.14	6.75	7.18	6.71	7.79	6.95	7.00
02.	Total Dissolved Solids	pH unit	9930	16700	12140	6176	25660	10820	15396	8670	9294	8932	1212	7876	11980
03.	Total Suspended Solids	mg/L	94	190	86	16	156	56	128	50	88	122	4	58	110
04.	Oil & Grease	mg/L	2.0	7.0	7.0	3.0	BDL (MDL:2.0)	BDL (MDL:2.0)	9.0	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	8.0
05.	Fluoride	mg/L	2.65	4.25	3.25	1.65	4.50	3.60	4.25	2.65	3.15	3.65	0.96	2.60	3.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	8.5	8.6	8.5	11.3	8.2	6.3	7.1	38.5	5.9	16.2	33.7	8.4	7.7
08.	Ammonical Nitrogen	mg/L	2.8	2.8	2.8	5.6	2.7	BDL (MDL:2.0)	2.2	32.8	BDL (MDL:2.0)	10.5	28.1	2.8	2.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.114	0.127	0.125	0.087	0.096	0.114	0.136	0.104	0.115	0.104	0.093	0.104	0.125
11.	Zinc	mg/L	0.125	0.139	0.136	0.102	0.112	0.136	0.147	0.123	0.134	0.123	0.102	0.123	0.144
12.	COD	mg/L	235.8	2497.6	1677.6	410	134.9	16.2	1396.7	211.9	101	268.5	118.2	170.8	1625.8
13.	BOD (3 days at 27 0C)	mg/L	66	830	560	132	36	4	460	60	28	82	34	48	540
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.093	0.107	0.104	0.074	BDL (MDL:0.01)	0.096	0.114	0.087	0.095	0.084	0.074	0.084	0.096
17	Cadmium	mg/L	0.074	0.084	0.082	0.047	BDL (MDL:0.003)	0.072	0.093	0.065	0.077	0.067	0.065	0.063	0.084
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.75	1.10	0.85	0.52	2.35	3.50	4.25	2.65	2.95	2.45	0.43	2.20	3.15
20.	Nickel	mg/L	0.104	0.114	0.111	0.074	0.078	0.102	0.123	0.089	0.097	0.084	0.082	0.084	0.107
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	2952	4952	3926	1102	>10000	2525	6562	1652	1755	1602	466.2	1610	2322

October 2023 to December 2023															
Wastewater Samples		Month	October 2023					November 2023			December 2023				
		Date of Sampling	06/10/23	10/10/23	18/10/23	25/10/23	27/10/24	07/11/23	25/11/23	28/11/23	12/12/23	18/12/23	22/12/23	25/12/23	30/12/23
S. No.	Test Parameters	Unit	Result												
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	220/Objectionable	>500/Objectionable	420/Objectionable	220/Objectionable	380/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	20/Objectionable	>500/Objectionable	200/Objectionable	40/Objectionable	>500/Objectionable
27.	Temperature	mg/L	29	30	29	30	29	29	29.5	29.5	28.5	28.5	28.5	28.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	Pass the 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	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
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,															

4.39. Wastewater Monitoring Data (M/s. GIDC drainage pumping station - C)

January 2024 to March 2024										
Wastewater Samples		Month	January			February		March			
		Date of Sampling	13/01/24	18/01/24	31/01/24	12/02/24	22/02/24	06/03/24	16/03/24	23/03/24	29/03/24
S. No.	Test Parameters	Unit	Result								
01.	Temperature	0C	34	34	34	35	34.1	34	34	35	35
02.	pH at 25^0C	pH unit	8.45	7.28	8.65	7.70	7.81	7.26	7.86	8.42	8.25
03.	Total Suspended Solids (TSS)	mg/L	61	62	50	214	238	78	193	211	137
04.	Chloride	mg/L	825	1088	986	--	--	--	--	--	--
05.	Sulphate	mg/L	325	424	89	689	1285	1632	589	1526	1126
06.	Oil & grease	mg/L	6.2	6.8	5.6	15.2	8.5	12.8	13.6	10.6	11.6
07.	Fluoride	mg/L	0.9	1.8	0.7	0.8	0.8	1.4	0.7	0.9	0.8
08.	Sulphide	mg/L	0.1	2.2	0.8	1.0	0.7	1.6	1.3	0.6	0.8
09.	Ammonical Nitrogen	mg/L	5.2	10.4	6.2	48.6	12.4	38.6	56.2	28.3	25.6
10.	Total Kjeldahl Nitrogen	mg/L	6.8	11.8	8.2	56.2	15.7	46.2	61.3	32.5	32.6
11.	Free Ammonia	mg/L	0.76	0.26	0.62	0.7	0.2	0.7	0.62	0.52	0.52
12.	Copper	mg/L	0.06	0.08	0.08	0.2	0.12	0.3	0.25	0.25	0.28
13.	Zinc	mg/L	0.52	0.68	0.62	0.6	0.89	1.0	0.46	0.82	0.72
14.	BOD 3 days at 27^0C	mg/L	81	76	66	285	324	105	259	282	184
15.	COD	mg/L	242	223	198	856	1051	315	781	846	554
16	Total Residual Chlorine	mg/L	0.1	0.9	0.3	0.1	0.3	0.2	0.3	0.3	0.3
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.06	0.1	0.2	0.08	0.18	0.3	0.05	0.2
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)	0.3	0.05	0.06	0.4	0.06	0.08
21.	Hexavalent Chromium	mg/L	0.5	0.7	0.5	0.7	0.6	0.3	0.6	0.4	0.5
22.	Total Chromium	mg/L	0.6	0.9	0.8	1	0.8	0.4	1.2	0.7	0.9
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.4	BDL (DL-0.3)	0.4	0.5	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.6	0.4	0.8	0.6	0.5	0.5	0.4	0.3	0.4
26.	Iron	mg/L	0.7	0.5	0.9	0.8	0.8	1.2	0.6	0.6	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.2	BDL (DL- 0.1)	0.3	0.4	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	1.1	BDL (DL- 0.01)	0.7	0.7	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	10.2	13.6	11.6	23.5	18.6	29.2	28.6	23.5	25.3

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.40. Wastewater Monitoring Data (M/s. Raks Pharma Pvt. Ltd.)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023			November 2023		December 2023	
		Date of Sampling	04/10/23	25/10/23	31/10/23	4/11/23	28/11/23	11/12/23	20/12/23
S. No.	Test Parameters	Unit	Result						
01.	pH @ 25 ° C	^{0}C	7.57	7.39	7.05	7.33	7.40	7.45	7.95
02.	Total Dissolved Solids	pH unit	1200	576	566	970	1030	1080	1066
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	6	12	BDL (MDL:4.0)	18	22	6
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.84	0.67	0.67	0.84	0.78	0.86	0.77
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	3.8	8.4	7.8	10.1	15.6	27.3	17.5
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	2.8	2.2	4.5	10.1	21.7	11.8
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.058	BDL (MDL:0.05)	0.084	0.093	0.084	0.073	0.065
11.	Zinc	mg/L	0.077	0.056	0.105	0.111	0.102	0.092	0.084
12.	COD	mg/L	30	24.6	64.5	65.6	61.1	108.9	61.2
13.	BOD (3 days at 27 0C)	mg/L	8	7	18	18	17	30	18
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.036	0.025	0.066	0.074	0.065	0.057	0.044
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)
20.	Nickel	mg/L	0.024	0.032	0.057	0.063	0.047	0.036	0.029
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	322.2	210.5	268.5	344.2	387.2	322.5	293.2
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023			November 2023		December 2023	
		Date of Sampling	04/10/23	25/10/23	31/10/23	4/11/23	28/11/23	11/12/23	20/12/23
S. No.	Test Parameters	Unit	Result						
26.	(Colour /Odour)	mg/L	35/Unobjectionable	30/Unobjectionable	60/Objectionable	70/Objectionable	60/Objectionable	50/Objectionable	40/Unobjectionable
27.	Temperature	mg/L	29	30	30	29	29.5	29.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,									

4.41. Wastewater Monitoring Data (M/s. Raks Pharma Pvt. Ltd.)

January 2024 to March 2024									
Wastewater Samples		Month	January			February		March	
		Date of Sampling	05/01/24	17/01/24	25/01/24	03/02/24	21/02/24	21/03/24	28/03/24
S. No.	Test Parameters	Unit	Result						
01.	Temperature	0C	32	36	36	32	29	32	32
02.	pH at 25^{0}C	pH unit	7.81	7.23	7.23	7.58	7.16	7.25	7.35
03.	Total Suspended Solids (TSS)	mg/L	26	18	18	35	28	26	26
04.	Chloride	mg/L	325	436	389	--	--	--	--
05.	Sulphate	mg/L	145	195	156	218	178	136	142
06.	Oil & grease	mg/L	3.6	1.9	2.0	9.2	3.0	3.2	2.6
07.	Fluoride	mg/L	0.8	0.7	0.5	0.5	0.6	0.5	0.5
08.	Sulphide	mg/L	0.9	0.4	0.6	0.4	0.7	0.4	0.3
09.	Ammonical Nitrogen	mg/L	5.3	4.1	4.5	13.2	22.5	15.6	18.5
10.	Total Kjeldahl Nitrogen	mg/L	5.7	4.5	6.5	14.6	25.2	19.4	22.7
11.	Free Ammonia	mg/L	0.10	0.6	0.48	0.3	0.4	0.3	0.32
12.	Copper	mg/L	BDL (DL-0.05)	0.06	0.05	0.05	0.08	0.06	0.05
13.	Zinc	mg/L	0.45	0.48	0.26	0.25	0.2	0.3	0.25
14.	BOD 3 days at 27^{0}C	mg/L	22	24	24	39	32	35	37
15.	COD	mg/L	65	73	86	118	96	106	110
16	Total Residual Chlorine	mg/L	0.1	0.3	0.2	0.1	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.03	0.05	0.01	0.05	0.1	0.2	0.04
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.08	0.07	0.05	0.05
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.4	0.3	0.2	0.3
22.	Total Chromium	mg/L	0.7	0.8	0.5	0.6	0.5	0.5	0.6
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL- 0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.3	0.7	0.4	0.4	0.2	0.1	0.3
26.	Iron	mg/L	0.2	0.5	0.2	0.45	0.8	0.5	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
29.	Nitrate Nitrogen as NO_3-N	mg/L	5.1	3.8	3.2	18.6	14.2	12.8	12.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.42. Wastewater Monitoring Data (M/s. Aarti Industries Ltd., Z/103/C) (Unit – II Diamond)

October 2023 to December 2023													
Wastewater Samples		Month	October 2023				November 2023		December 2023				
		Date of Sampling	06/10/23	21/10/23	26/10/23	28/10/23	04/11/23	24/11/23	04/12/23	13/12/23	16/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result										
01.	pH @ 25 ° C	^{0}C	7.35	7.40	7.37	7.28	7.26	7.88	7.50	7.02	7.11	7.40	7.54
02.	Total Dissolved Solids	pH unit	930	786	756	836	376	1286	5536	1750	1360	1236	940
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	BDL (MDL:4.0)	4	14	BDL (MDL:4.0)	6	42	26	52	10	6
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.0	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.96	0.84	0.84	0.84	0.56	0.97	1.75	1.20	0.96	1.40	1.05
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	13.4	11.8	8.2	8.6	12.1	9.4	24.9	10.7	8.8	8.4	8.8
08.	Ammonical Nitrogen	mg/L	7.8	6.2	2.7	2.7	6.2	3.9	19.2	5.0	3.2	2.8	3.3
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.074	0.065	0.063	0.066	0.052	0.077	0.085	0.083	0.077	0.096	0.082
11.	Zinc	mg/L	0.086	0.077	0.077	0.074	0.063	0.084	0.103	0.092	0.084	0.104	0.091
12.	COD	mg/L	80	56.8	40.6	41.9	110.7	98.1	169.1	69.0	106.9	53	70.9
13.	BOD (3 days at 27 0C)	mg/L	23	17	12	12	32	28	48	20	30	15	20
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.056	0.047	0.045	0.047	0.032	0.057	BDL(MDL:0.01)	0.064	0.052	0.077	0.065
17	Cadmium	mg/L	0.072	0.065	0.063	0.065	0.044	0.063	0.056	0.071	0.063	0.086	0.074
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.21	0.17	0.14	0.14	0.11	0.45	0.74	0.56	0.41	0.65	0.44
20.	Nickel	mg/L	0.063	0.055	0.055	0.054	0.037	0.057	0.066	0.067	0.053	0.078	0.063
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	210.2	178.6	210.2	178.6	210.2	178.6	210.2	178.6	210.2	178.6	210.2
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	40/Unobjectionable	50/Unobjectionable	50/Unobjectionable	50/Unobjectionable	60/Unobjectionable	70/Objectionable	>500/Objectionable	205/Objectionable	270/Objectionable	240/Objectionable	200/Objectionable
27.	Temperature	mg/L	29	30	30	30	29	29.5	29.5	29.0	28.5	28.5	29.0

October 2023 to December 2023													
Wastewater Samples		Month	October 2023				November 2023		December 2023				
		Date of Sampling	06/10/23	21/10/23	26/10/23	28/10/23	04/11/23	24/11/23	04/12/23	13/12/23	16/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result										
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,													

4.43. Wastewater Monitoring Data (M/s. Aarti Industries Ltd., Z/103/C) (Unit – II Diamond)

January 2024 to March 2024														
Wastewater Samples		Month	January				February					March			
		Date of Sampling	08/01/24	15/01/24	19/01/24	25/01/23	01/02/24	13/02/24	19/02/24	23/02/24	27/02/24	06/03/24	08/03/24	12/03/24	21/03/24
S. No.	Test Parameters	Unit	Result												
01.	Temperature	0C	33	34	36	36	31	31	33	36	34	34	32	34	34
02.	pH at 25^{0}C	pH unit	7.85	7.63	7.36	7.36	7.50	7.50	7.45	7.29	7.21	7.56	7.45	7.65	7.56
03.	Total Suspended Solids (TSS)	mg/L	20	13	25	25	28	35	45	36	26	23	23	28	24
04.	Chloride	mg/L	552	693	571	467	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	110	110	152	214	215	169	142	186	185	132	142	143	142
06.	Oil & grease	mg/L	2.3	3.1	2.8	2.1	2.3	1.8	8.2	5.2	2.0	3.6	3.6	3.1	2.1
07.	Fluoride	mg/L	0.6	0.6	0.7	0.4	1.0	0.4	0.6	0.6	0.5	0.8	0.4	0.6	0.5
08.	Sulphide	mg/L	0.6	0.8	0.6	0.2	0.7	0.3	0.5	0.3	0.3	0.5	0.2	0.4	0.3
09.	Ammonical Nitrogen	mg/L	3.5	5.6	4.6	3.8	12.8	11.9	23.2	14.5	13.2	10.5	18.2	15.6	9.5
10.	Total Kjeldahl Nitrogen	mg/L	3.9	6.2	5.1	6.5	15.2	13.0	28.9	16.5	14.6	13.4	22.8	18.5	12.4
11.	Free Ammonia	mg/L	0.05	0.16	0.11	0.35	0.3	0.2	0.5	0.2	0.2	0.3	0.26	0.3	0.25
12.	Copper	mg/L	0.07	0.02	0.03	BDL (DL- 0.05)	0.1	0.12	0.12	0.06	0.05	0.2	0.04	0.05	0.18
13.	Zinc	mg/L	0.58	0.25	0.25	0.21	0.35	0.26	0.3	0.25	0.25	0.28	0.21	0.20	0.22
14.	BOD 3 days at 27^{0}C	mg/L	19	20	31	31	27	38	45	35	34	31	30	37	32
15.	COD	mg/L	47	58	95	116	82	113	135	105	103	95	92	113	98
16	Total Residual Chlorine	mg/L	0.2	0.2	0.3	02	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.03	0.04	0.02	0.02	0.08	0.05	0.05	0.1	0.06	0.05	0.05	0.05	0.04
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.2	0.06	0.05	BDL (DL-0.05)	BDL (DL-0.05)	0.1	BDL (DL-0.05)	BDL (DL-0.05)	0.03
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.2	0.5	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.1
22.	Total Chromium	mg/L	0.8	0.8	0.6	0.4	0.7	0.3	0.4	0.3	0.3	0.5	0.4	0.5	0.5
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.3	0.2	0.3	0.4	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3
26.	Iron	mg/L	0.6	0.2	0.1	0.2	0.7	0.5	0.5	0.5	0.8	0.4	0.5	0.6	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	0.8	BDL (DL-0.21)	BDL (DL-0.21)	0.4	BDL (DL-0.21)	0.3	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	4.3	4.8	4.2	3.8	6.2	14.2	17.5	12.3	11.5	8.3	7.6	8.5	16.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.44. Wastewater Monitoring Data (M/s. Ramdev Chemical Industries)

October 2023 to December 2023											
Wastewater Samples		Month	October 2023			November 2023		December 2023			
		Date of Sampling	07/10/23	12/10/23	31/10/23	09/11/23	23/11/23	07/12/23	12/12/23	18/12/23	23/12/23
S. No.	Test Parameters	Unit	Result								
01.	pH @ 25 ° C	^{0}C	7.74	7.97	8.04	8.15	7.90	8.07	8.13	8.06	7.85
02.	Total Dissolved Solids	pH unit	1920	2690	1226	1646	1386	1256	1486	1796	1780
03.	Total Suspended Solids	mg/L	18	20	28	18	BDL (MDL:4.0)	18	16	28	14
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.97	1.25	0.92	1.10	0.96	0.84	0.92	1.25	1.05
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	12.9	12.3	11.6	36.5	6.5	35.0	32.3	27.8	28.6
08.	Ammonical Nitrogen	mg/L	7.3	6.7	6.2	30.9	BDL(MDL:2.0)	29.4	26.7	22.2	23.0
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.068	0.084	0.074	0.084	0.077	0.068	0.075	0.084	0.074
11.	Zinc	mg/L	0.057	0.063	0.055	0.063	0.056	0.051	0.056	0.066	0.063
12.	COD	mg/L	92.6	85.8	32.2	110.5	41.1	123.9	101	132.2	126.6
13.	BOD (3 days at 27 0C)	mg/L	26	25	9	30	12	35	28	38	36
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)
16	Lead	mg/L	0.037	0.057	0.042	0.057	0.044	0.038	0.044	0.053	0.047
17	Cadmium	mg/L	0.044	0.068	0.053	0.068	0.057	0.049	0.057	0.064	0.059
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.037	0.057	0.038	0.045	0.036	0.025	0.036	0.044	0.033
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	442.2	284.4	223.2	326.6	267.5	325.5	295.5	344.2	456.2
24.	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)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	120/Objectionable	135/Unobjectionable	120/Unobjectionable	125/Unobjectionable	120/Unobjectionable	100/Unobjectionable	110/Unobjectionable	125/Objectionable	150/Unobjectionable

October 2023 to December 2023											
Wastewater Samples		Month	October 2023			November 2023		December 2023			
		Date of Sampling	07/10/23	12/10/23	31/10/23	09/11/23	23/11/23	07/12/23	12/12/23	18/12/23	23/12/23
S. No.	Test Parameters	Unit	Result								
27.	Temperature	mg/L	29	30	29	28	29	28.5	28.5	28.0	28.0
28.	Selenium	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)	BDL (MDL:0.1)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,											

4.45. Wastewater Monitoring Data (M/s. Ramdev Chemical Industries)

January 2024 to March 2024																
Wastewater Samples		Month	January				February						March				
		Date of Sampling	04/01/24	11/01/24	22/01/24	24/01/23	02/02/24	12/02/24	16/02/24	20/02/24	24/02/24	28/02/24	04/03/24	07/03/24	11/03/24	16/03/24	20/03/24
S. No.	Test Parameters	Unit	Result														
01.	Temperature	0C	25	29	34	28	29	33	27	32	34	35	34	34	34	34	35
02.	pH at 25^{0}C	pH unit	7.47	7.26	7.48	7.66	7.45	7.50	7.50	7.56	7.36	7.36	7.58	7.36	7.46	7.86	7.52
03.	Total Suspended Solids (TSS)	mg/L	53	45	58	40	53	28	57	59	57	47	32	28	53	35	43
04.	Chloride	mg/L	725	628	527	310	--	--	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	342	286	672	134	423	162	850	215	245	275	154	134	241	623	182
06.	Oil & grease	mg/L	3.1	3.7	4.1	3.2	4.1	12.8	12.0	2.8	12.5	13.2	10.3	8.6	10.3	10.4	5.6
07.	Fluoride	mg/L	0.8	0.9	0.9	0.4	0.4	0.6	0.8	0.65	0.9	0.4	0.7	0.5	0.5	0.7	0.5
08.	Sulphide	mg/L	0.6	0.8	0.8	0.7	0.6	0.4	0.4	0.30	0.5	0.2	0.5	0.6	0.3	0.5	0.3
09.	Ammonical Nitrogen	mg/L	6.1	7.8	5.8	5.1	3.6	13.0	33.2	4.5	34.5	14.2	10.8	19.6	21.6	36.8	25.3
10.	Total Kjeldahl Nitrogen	mg/L	7.4	8.3	6.3	5.4	5.3	15.8	35.8	6.5	45.6	19.7	13.6	24.6	25.4	40.2	31.6
11.	Free Ammonia	mg/L	0.30	0.12	0.12	0.16	0.25	0.2	0.5	0.35	0.8	0.3	0.3	0.7	0.4	0.56	0.5
12.	Copper	mg/L	0.1	0.07	0.07	0.06	0.04	0.08	0.08	0.06	0.14	0.08	0.05	0.23	0.052	0.07	0.12
13.	Zinc	mg/L	0.36	0.49	0.32	0.58	0.32	0.2	0.52	0.35	0.3	0.25	0.3	0.19	0.26	0.62	0.2
14.	BOD 3 days at 27^{0}C	mg/L	56	49	79	53	71	37	75	79	76	63	43	37	71	47	56
15.	COD	mg/L	196	182	230	175	213	112	227	237	228	189	134	112	213	142	168
16	Total Residual Chlorine	mg/L	BDL (DL-0.1)	0.2	0.3	0.2	0.3	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.06	0.02	0.03	0.06	0.02	0.05	0.1	0.04	0.1	0.06	0.03	0.2	0.05	0.2	0.2
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.07	0.06	BDL (DL-0.05)	0.06	BDL (DL-0.05)	0.05	0.04	BDL (DL-0.05)	0.05	0.05
21.	Hexavalent Chromium	mg/L	0.4	0.4	0.4	0.2	0.2	0.1	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
22.	Total Chromium	mg/L	0.8	0.6	0.5	0.5	0.5	0.2	0.4	0.5	0.4	0.3	0.3	0.6	0.4	0.6	0.5
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	0.3	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.2	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.3	0.5	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.2	0.3	0.3
26.	Iron	mg/L	0.4	0.4	0.3	0.4	0.4	0.5	0.8	0.4	1.1	0.5	0.3	0.9	0.4	0.6	1.0
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.5	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	0.4	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	15.1	12.7	5.9	4.6	14.6	13.6	14.8	9.5	18.4	13.6	12.3	15.2	18.6	19.2	16.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.46. Wastewater Monitoring Data (M/s. Benzo Chem Industries Pvt. Ltd.)

October 2023 to December 2023										
Wastewater Samples		Month	October 2023		November 2023			December 2023		
		Date of Sampling	28/10/23	31/10/23	04/11/23	20/11/23	22/11/23	11/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result							
01.	pH @ 25 ° C	^{0}C	7.88	7.98	8.45	8.55	8.59	8.05	7.98	8.02
02.	Total Dissolved Solids	pH unit	700	790	760	774	1070	536	490	9180
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	4	BDL (MDL:4.0)	12	4	BDL (MDL:4.0)
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.65	0.63	0.72	0.81	0.96	0.65	0.57	1.65
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	3.9	4.5	5.3	4.2	5.3	4.4	3.6	10.1
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	4.5
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.057	0.054	0.063	0.069	0.074	0.056	0.050	0.084
11.	Zinc	mg/L	0.067	0.067	0.074	0.082	0.091	0.074	0.067	0.093
12.	COD	mg/L	62.8	40.3	41	66.2	53.9	24.2	49.2	20.8
13.	BOD (3 days at 27 0C)	mg/L	18	12	12	19	16	7	15	5
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.18	0.21	0.25	0.36	0.42	0.25	0.21	1.25
20.	Nickel	mg/L	0.038	0.036	0.044	0.052	0.065	0.044	0.036	0.067
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	82.2	74.4	125.5	144.4	183.2	85.5	78.2	1065.5
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BD L(MDL:1.0)	BDL (MDL:1.0)	BD L(MDL:1.0)	BDL (MDL:1.0)	BD L(MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	100/Objectionable	100/Objectionable	30/Objectionable	20/Unobjectionable	15/Unobjectionable	30/Unobjectionable	20/Unobjectionable	20/Unobjectionable

October 2023 to December 2023										
Wastewater Samples		Month	October 2023		November 2023			December 2023		
		Date of Sampling	28/10/23	31/10/23	04/11/23	20/11/23	22/11/23	11/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result							
27.	Temperature	mg/L	30	30	29.5	29.5	29.0	28.5	28.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.	90%survivaloffish 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.

Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,

4.47. Wastewater Monitoring Data (M/s. Benzo Chem Industries Pvt. Ltd.)

January 2024 to March 2024														
Wastewater Samples		Month	January				February					March			
		Date of Sampling	12/01/24	17/01/24	25/01/24	30/01/24	06/02/24	15/02/24	19/02/24	23/02/24	27/02/24	06/03/24	12/03/24	19/03/24	26/03/24
S. No.	Test Parameters	Unit	Result												
01.	Temperature	0C	34	34	34	34	30	29	35	36	35	32	35	34	34
02.	pH at 25^{0}C	pH unit	7.84	7.23	7.23	7.36	7.30	7.30	7.81	7.35	7.45	7.78	7.65	7.65	7.45
03.	Total Suspended Solids (TSS)	mg/L	49	44	44	36	40	28	48	45	33	36	37	36	32
04.	Chloride	mg/L	2058	356	278	428	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	686	536	327	412	452	345	112	285	246	189	242	246	168
06.	Oil & grease	mg/L	3.4	2.3	1.8	1.5	6.0	7.0	6.2	6.0	5.4	5.0	4.8	6.8	5.4
07.	Fluoride	mg/L	1.1	0.5	0.3	0.4	0.9	0.6	0.8	0.8	0.4	0.5	0.7	0.7	0.6
08.	Sulphide	mg/L	0.7	0.9	0.4	0.3	0.6	0.8	1.0	0.6	0.6	0.4	0.5	0.5	0.4
09.	Ammonical Nitrogen	mg/L	6.2	5.8	4.2	3.1	13.0	23.5	33.5	23.0	23.0	19.6	20.3	20.6	20.6
10.	Total Kjeldahl Nitrogen	mg/L	7.2	6.1	7.5	6.5	18.6	28.3	44.3	27.4	28.3	22.7	23.6	23.6	24.5
11.	Free Ammonia	mg/L	0.11	0.18	0.25	0.10	0.2	0.24	0.5	0.4	0.5	0.65	0.5	0.36	0.3
12.	Copper	mg/L	0.06	0.06	0.05	BDL (DL- 0.05)	0.05	0.1	0.14	0.1	0.09	0.06	0.16	0.16	0.15
13.	Zinc	mg/L	0.48	0.58	0.42	0.45	0.4	0.6	0.6	0.2	0.25	0.22	0.25	0.15	0.23
14.	BOD 3 days at 27^{0}C	mg/L	47	56	56	48	46	37	49	45	44	49	49	48	40
15.	COD	mg/L	165	163	136	143	138	110	148	136	132	147	148	145	124
16	Total Residual Chlorine	mg/L	0.3	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	0.05	0.04	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	0.04	0.02	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.01	0.01	0.02	0.1	0.08	0.03	0.1	0.05	0.04	0.2	0.2	0.2
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.15	0.07	BDL (DL-0.05)	0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.04	0.03	0.04
21.	Hexavalent Chromium	mg/L	0.5	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.1
22.	Total Chromium	mg/L	0.8	0.4	0.5	0.5	0.8	0.3	0.4	0.3	0.4	0.4	0.3	0.5	0.3
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.3	0.4	0.3	0.5	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2
26.	Iron	mg/L	0.5	0.2	0.1	0.4	0.5	0.5	0.4	0.7	0.9	0.7	0.5	0.5	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	0.1	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	0.8	0.7	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21
29.	Nitrate Nitrogen as NO_3-N	mg/L	7.3	4.1	5.6	2.5	16.8	16.3	6.5	18.4	22.5	18.4	16.4	15.4	16.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.48. Wastewater Monitoring Data (M/s. Fermenta Biotech Ltd.)

October 2023 to December 2023										
Wastewater Samples		Month	October 2023		November 2023			December 2023		
		Date of Sampling	04/10/23	25/10/23	11/11/23	20/11/23	28/11/23	09/12/23	12/12/23	20/12/23
S. No.	Test Parameters	Unit	Result							
01.	pH @ 25 ° C	^{0}C	7.76	7.67	7.53	8.55	7.85	7.66	7.76	7.70
02.	Total Dissolved Solids	pH unit	2106	2220	2396	774	1850	1520	1500	2030
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	4	BDL (MDL:4.0)	16	4	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.05	1.22	1.05	0.81	0.96	0.85	0.84	0.93
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	3.2	4.1	3.2	4.2	8.4	5.8	4.3	5.2
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.085	0.092	0.093	0.069	0.084	0.077	0.078	0.084
11.	Zinc	mg/L	0.104	0.113	0.111	0.082	0.103	0.093	0.093	0.104
12.	COD	mg/L	42.8	49.2	25.4	66.2	24.4	40.2	65	57.2
13.	BOD (3 days at 27 0C)	mg/L	14	15	7	19	7	12	18	16
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	0.042	0.057	0.042	BDL (MDL:0.01)	0.037	0.025	0.026	0.037
17	Cadmium	mg/L	0.078	0.084	0.086	BDL (MDL:0.003)	0.074	0.067	0.067	0.074
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.85	1.10	0.45	0.36	0.32	0.26	0.21	0.36
20.	Nickel	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	0.052	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	562.2	705.6	742.2	144.4	665.2	544.5	325.5	456.2
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)

October 2023 to December 2023										
Wastewater Samples		Month	October 2023		November 2023			December 2023		
		Date of Sampling	04/10/23	25/10/23	11/11/23	20/11/23	28/11/23	09/12/23	12/12/23	20/12/23
S. No.	Test Parameters	Unit	Result							
26.	(Colour /Odour)	mg/L	20/Unobjectionable	25/Unobjectionable	10/Unobjectionable	20/Unobjectionable	15/Unobjectionable	25/Unobjectionable	10/Unobjectionable	10/Unobjectionable
27.	Temperature	mg/L	30	29	30	29.5	29.0	28.5	28.5	28.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,										

4.49. Wastewater Monitoring Data (M/s. Fermenta Biotech Ltd.)

January 2024 to March 2024													
Wastewater Samples		Month	January				February				March			
		Date of Sampling	12/01/24	17/01/24	20/01/24	25/01/24	03/02/24	13/02/24	19/02/24	23/02/24	09/03/24	14/03/24	26/03/24	27/03/24
S. No.	Test Parameters	Unit	Result											
01.	Temperature	0C	32	34	33	33	33	35	32	33	35	34	35	29
02.	pH at 25^{0}C	pH unit	7.56	7.85	7.48	7.48	7.52	7.50	7.20	7.36	7.35	7.75	7.44	7.35
03.	Total Suspended Solids (TSS)	mg/L	30	45	46	46	45	36	45	42	28	28	38	25
04.	Chloride	mg/L	353	675	1305	1536	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	95	145	470	389	295	345	189	152	143	295	326	152
06.	Oil & grease	mg/L	4.1	2.8	3.1	2.8	7.0	4.6	5.2	5.0	3.9	5.4	6.2	5.2
07.	Fluoride	mg/L	0.8	0.6	0.6	0.5	0.6	0.4	0.6	0.6	0.5	0.5	0.5	0.6
08.	Sulphide	mg/L	0.9	0.9	1.0	0.4	0.3	0.5	0.2	0.3	0.3	0.3	0.4	0.4
09.	Ammonical Nitrogen	mg/L	4.2	6.2	6.1	3.9	7.9	23.2	22.8	22.5	15.3	5.9	12.6	19.5
10.	Total Kjeldahl Nitrogen	mg/L	4.5	6.7	6.7	7.2	9.5	25.3	34.6	28.6	21.6	8.4	16.4	25.4
11.	Free Ammonia	mg/L	0.10	0.12	0.34	0.31	0.36	0.3	0.4	0.4	0.32	0.29	0.31	0.25
12.	Copper	mg/L	0.08	0.03	0.05	BDL (DL- 0.05)	0.02	0.06	0.1	0.01	0.12	0.03	0.03	0.15
13.	Zinc	mg/L	0.8	0.43	0.42	0.53	0.22	0.20	0.4	0.15	0.41	0.20	0.25	0.3
14.	BOD 3 days at 27^{0}C	mg/L	40	56	63	63	46	48	40	38	38	37	52	34
15.	COD	mg/L	135	163	186	163	138	145	120	114	114	113	153	103
16	Total Residual Chlorine	mg/L	0.1	0.2	0.3	0.3	0.3	0.1	0.2	0.2	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.03	0.02	0.02	0.03	0.02	0.05	0.1	0.02	0.2	0.03	0.03	0.2
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.06	0.07	BDL (DL-0.05)	0.05	BDL (DL- 0.05)	BDL (DL- 0.05)	0.05
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.2	0.3
22.	Total Chromium	mg/L	0.8	0.8	0.6	0.4	0.5	0.3	0.3	0.4	0.4	0.6	0.4	0.5
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.3	0.5	0.2	0.3	0.2	0.3	0.1	0.3	0.2	0.3	0.4	0.2
26.	Iron	mg/L	0.3	0.4	0.4	0.2	0.2	0.5	0.6	0.2	0.5	0.5	0.3	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.1	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.6	0.4	BDL (DL-0.21)	0.3	BDL (DL- 0.21)	BDL (DL- 0.21)	0.2
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.2	5.8	4.8	2.9	5.6	15.0	15.3	13.6	13.4	7.9	10.8	17.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.50. Wastewater Monitoring Data (M/s. Rallis INDIA ltd.)

October 2023 to December 2023									
Wastewater Samples		Month	October 2023			November 2023		December 2023	
		Date of Sampling	04/10/23	18/10/23	27/10/23	20/11/23	24/11/23	09/12/23	13/12/23
S. No.	Test Parameters	Unit	Result						
01.	pH @ 25 ° C	^{0}C	7.89	7.24	7.25	8.05	8.51	8.03	8.07
02.	Total Dissolved Solids	pH unit	1446	2190	2210	4616	2590	3836	7760
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	6	34	26	4	26	12
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.05	0.89	1.25	1.35	1.05	1.35	2.10
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	70.5	47.6	37.3	45.1	37.2	5.6	27.9
08.	Ammonical Nitrogen	mg/L	64.9	42.0	31.7	39.3	31.6	BDL (MDL:2.0)	22.2
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.065	0.051	0.074	0.074	0.063	0.077	0.092
11.	Zinc	mg/L	0.083	0.065	0.091	0.093	0.084	0.093	0.114
12.	COD	mg/L	128.6	329.8	100.6	99.3	44.9	52.3	105.6
13.	BOD (3 days at 27 0C)	mg/L	36	108	28	28	13	16	30
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.047	0.026	0.055	0.057	0.045	0.057	0.074
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.19	0.18	0.27	0.45	0.36	0.44	0.63
20.	Nickel	mg/L	0.047	0.025	0.057	0.056	0.039	0.047	0.074
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	663.2	585.2	724.2	844.2	685.5	756.5	1025
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	110/Objectionable	120/Objectionable	100/Objectionable	110/Objectionable	100/Objectionable	90/Objectionable	100/Objectionable
27.	Temperature	mg/L	30	30	29	29.5	29.0	28.5	29.0

October 2023 to December 2023									
Wastewater Samples		Month	October 2023			November 2023		December 2023	
		Date of Sampling	04/10/23	18/10/23	27/10/23	20/11/23	24/11/23	09/12/23	13/12/23
S. No.	Test Parameters	Unit	Result						
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,									

4.51. Wastewater Monitoring Data (M/s. Rallis INDIA ltd.)

January 2024 to March 2024											
Wastewater Samples		Month	January	February			March				
		Date of Sampling	06/01/24	01/02/24	06/02/24	15/02/24	09/03/24	14/03/24	21/03/24	26/03/24	30/03/24
S. No.	Test Parameters	Unit	Result								
01.	Temperature	0C	32	33	35	33	32	35	34	34	33
02.	pH at 25^0C	pH unit	7.23	7.65	7.30	7.50	7.75	7.30	7.43	7.59	7.26
03.	Total Suspended Solids (TSS)	mg/L	22	40	28	24	29	31	29	23	22
04.	Chloride	mg/L	766	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	335	485	243	895	345	228	526	196	352
06.	Oil & grease	mg/L	4.2	4.2	3.8	2.9	4.0	3.0	2.5	4.6	4.9
07.	Fluoride	mg/L	0.7	0.9	0.3	0.7	0.6	0.4	0.6	0.6	0.7
08.	Sulphide	mg/L	0.5	0.7	0.6	0.36	0.5	0.5	0.28	0.5	0.5
09.	Ammonical Nitrogen	mg/L	4.2	23.6	12.3	6.9	16.8	12.3	7.5	16.2	18.6
10.	Total Kjeldahl Nitrogen	mg/L	4.8	26.2	14.0	9.3	20.1	16.8	11.3	21.5	22.5
11.	Free Ammonia	mg/L	0.10	0.4	0.1	0.1	0.5	0.25	0.2	0.21	0.52
12.	Copper	mg/L	BDL (DL-0.05)	0.06	0.01	0.05	0.03	0.05	0.04	0.02	0.04
13.	Zinc	mg/L	0.24	0.62	0.45	0.15	0.28	0.36	0.19	0.32	0.36
14.	BOD 3 days at 27^0C	mg/L	30	42	37	32	39	42	38	31	30
15.	COD	mg/L	89	125	110	95	118	126	116	94	89
16	Total Residual Chlorine	mg/L	0.2	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL- 0.02)	0.04	BDL (DL-0.01)	BDL (DL-0.01)	0.02	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	0.03
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.02	0.2	0.06	0.01	0.3	0.03	0.02	0.04	0.08
20.	Cadmium	mg/L	BDL (DL- 0.05)	0.35	BDL (DL-0.05)	BDL (DL-0.05)	0.42	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.26
21.	Hexavalent Chromium	mg/L	0.4	0.3	0.3	0.4	0.21	0.2	0.3	0.4	0.2
22.	Total Chromium	mg/L	0.6	0.7	0.8	0.6	0.75	0.5	0.5	0.8	0.5
23.	Nickel	mg/L	BDL (DL- 0.3)	0.42	BDL (DL-0.3)	BDL (DL-0.3)	0.26	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.29
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.4	0.6	0.3	0.3	0.4	0.4	0.2	0.3	0.5
26.	Iron	mg/L	0.5	0.8	0.2	0.4	0.6	0.5	0.3	0.4	0.7
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	1.1	BDL (DL-0.21)	BDL (DL-0.21)	1.0	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	1.0
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.5	18.6	14.3	16.2	13.5	10.8	14.9	12.9	10.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.52. Wastewater Monitoring Data (M/s. Dorf ketal chemicals (INDIA) Pvt. Ltd.)

October 2023 to December 2023							
Wastewater Samples		Month	October			November	December
		Date of Sampling	04/10/23	25/10/23	27/10/23	04/11/23	04/12/23
S. No.	Test Parameters	Unit	Result				
01.	pH @ 25 ° C	^{0}C	7.34	7.89	7.48	7.62	7.75
02.	Total Dissolved Solids	pH unit	510	386	316	330	316
03.	Total Suspended Solids	mg/L	20	8	4	8	28
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.47	0.39	0.29	0.34	0.32
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	8.8	14.6	14.1	12.9	8.9
08.	Ammonical Nitrogen	mg/L	3.9	9.0	8.5	7.3	3.3
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.056	BDL (MDL:0.05)	BDL (MDL:0.05)	0.054	BDL (MDL:0.05)
11.	Zinc	mg/L	0.067	0.056	0.053	0.061	0.057
12.	COD	mg/L	171.5	279	220.7	206.2	145
13.	BOD (3 days at 27 0C)	mg/L	48	84	62	58	42
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.045	0.037	0.029	0.035	0.032
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.036	0.025	0.023	0.034	0.028
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	128.5	105.2	96.2	104.4	88.5
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)

October 2023 to December 2023							
Wastewater Samples		Month	October			November	December
		Date of Sampling	04/10/23	25/10/23	27/10/23	04/11/23	04/12/23
S. No.	Test Parameters	Unit	Result				
26.	(Colour /Odour)	mg/L	45/Unobjectionable	45/Unobjectionable	50/Unobjectionable	40/Unobjectionable	60/Objectionable
27.	Temperature	mg/L	30	28	29	28	29.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,							

4.53. Wastewater Monitoring Data (M/s. Dorf ketal chemicals (INDIA) Pvt. Ltd.)

January 2024 to March 2024										
Wastewater Samples		Month	January		February			March		
		Date of Sampling	17/01/24	25/01/24	01/02/24	15/02/24	21/02/24	08/03/24	21/03/24	30/03/24
S. No.	Test Parameters	Unit	Result							
01.	Temperature	0C	36	36	32	35	28	34	33	32
02.	pH at 25^0C	pH unit	7.84	7.84	7.52	7.60	7.40	7.46	7.42	7.52
03.	Total Suspended Solids (TSS)	mg/L	29	29	45	44	36	29	27	25
04.	Chloride	mg/L	354	426	--	--	--	--	--	--
05.	Sulphate	mg/L	176	216	286	145	45	223	62	68
06.	Oil & grease	mg/L	3.2	3.0	6.0	6.0	8.4	5.6	5.9	5.2
07.	Fluoride	mg/L	0.8	0.4	0.8	0.8	0.62	0.7	0.52	0.42
08.	Sulphide	mg/L	1.1	0.9	0.8	0.5	0.5	0.6	0.36	0.32
09.	Ammonical Nitrogen	mg/L	7.2	4.8	14.3	24.6	13.1	12.8	10.5	7.6
10.	Total Kjeldahl Nitrogen	mg/L	7.5	7.0	17.8	33.3	16.4	15.4	13.8	10.5
11.	Free Ammonia	mg/L	0.44	0.35	0.3	0.2	0.3	0.32	0.23	0.45
12.	Copper	mg/L	0.03	BDL (DL- 0.05)	0.07	0.02	0.05	0.05	0.03	0.04
13.	Zinc	mg/L	0.52	0.30	1.2	0.32	0.25	1.0	0.21	0.30
14.	BOD 3 days at 27^0C	mg/L	38	38	44	44	40	38	36	34
15.	COD	mg/L	114	98	132	132	124	116	110	105
16	Total Residual Chlorine	mg/L	0.1	0.2	BDL	0.1	0.2	BDL	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.03	0.04	0.05	0.16	0.02	0.03	0.03	0.03
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	0.1	0.1	BDL (DL-0.05)	0.2	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.4	0.1	0.3	0.4	0.2	0.2	0.3	0.2
22.	Total Chromium	mg/L	0.6	0.3	0.5	0.5	0.5	0.5	0.5	0.4
23.	Nickel	mg/L	BDL (DL -0.3)	BDL (DL -0.3)	0.6	0.3	BDL (DL-0.3)	0.4	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.7	0.2	0.5	0.2	0.2	0.4	0.2	0.4
26.	Iron	mg/L	0.5	0.1	0.7	0.8	0.3	0.6	0.4	0.3
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	0.4	0.6	BDL (DL-0.21)	0.2	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.1	3.8	23.5	15.6	13.6	14.6	9.6	9.0

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.54. Wastewater Monitoring Data (M/s. GIDC Drainage Pumping Station C-1)

October 2023 to December 2023												
Wastewater Samples		Month	October				November			December			
		Date of Sampling	06/10/23	10/10/23	18/10/23	31/10/23	06/11/23	24/11/23	28/11/23	05/12/23	12/12/23	18/12/23	25/12/23
S. No.	Test Parameters	Unit	Result										
01.	pH @ 25 ° C	^{0}C	6.08	6.14	6.60	8.21	7.19	6.97	6.42	6.15	5.15	5.17	6.05
02.	Total Dissolved Solids	pH unit	13856	17436	8886	5416	9170	11216	10256	10150	8956	9686	10006
03.	Total Suspended Solids	mg/L	298	518	288	42	140	22	4	364	326	344	362
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	4.85	4.25	2.85	2.20	3.10	4.25	4.25	3.25	3.10	3.45	2.90
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.1	7.7	6.2	5.6	6.2	6.6	8.9	8.3	5.7	4.8	5.5
08.	Ammonical Nitrogen	mg/L	2.2	2.4	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	3.3	2.8	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.104	0.093	0.097	0.084	0.105	0.117	0.117	0.114	0.104	0.113	0.103
11.	Zinc	mg/L	0.139	0.125	0.125	0.111	0.136	0.148	0.149	0.144	0.125	0.136	0.132
12.	COD	mg/L	42.1	123.2	105.8	112.2	121.6	102.2	16.3	48.6	96.9	80.1	162.7
13.	BOD (3 days at 27 0C)	mg/L	12	35	30	32	36	28	4	14	27	23	46
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.097	0.088	0.084	0.073	0.095	0.104	0.104	0.104	0.093	0.104	0.089
17	Cadmium	mg/L	0.084	0.079	0.077	0.065	0.084	0.096	0.096	0.093	0.078	0.086	0.074
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	1.40	1.40	1.40	0.85	2.25	2.45	2.65	2.45	1.65	1.85	2.10
20.	Nickel	mg/L	0.105	0.096	0.093	0.077	0.093	0.104	0.107	0.085	0.096	0.074	0.072
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	4262	6752	1620	1262	1425	2926	2062	2025.5	1985	2044	1952
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023													
Wastewater Samples		Month	October				November			December			
		Date of Sampling	06/10/23	10/10/23	18/10/23	31/10/23	06/11/23	24/11/23	28/11/23	05/12/23	12/12/23	18/12/23	25/12/23
S. No.	Test Parameters	Unit	Result										
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	450/Objectionable	250/Objectionable	110/Objectionable	100/Objectionable	120/Objectionable	40/Objectionable	50/Objectionable	80/Objectionable	>500/Objectionable	>500/Objectionable	70/Objectionable
27.	Temperature	mg/L	29	30	29	30	29	29.5	29.5	28.5	29.0	28.5	29.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,													

4.55. Wastewater Monitoring Data (M/s. GIDC Drainage Pumping Station C-1)

January 2024 to March 2024										
Wastewater Samples		Month	January			February		March		
		Date of Sampling	13/01/24	24/01/24	31/01/24	16/02/24	22/02/24	05/03/24	16/03/24	29/03/24
S. No.	Test Parameters	Unit	Result							
01.	Temperature	0C	34	29	32	32	29	33	34	33
02.	pH at 25^{0}C	pH unit	8.21	7.87	8.45	8.05	7.83	8.25	8.23	7.86
03.	Total Suspended Solids (TSS)	mg/L	60	45	68	65	60	40	58	42
04.	Chloride	mg/L	716	771	1203	--	--	--	--	--
05.	Sulphate	mg/L	358	672	463	589	426	145	625	385
06.	Oil & grease	mg/L	7.3	7.4	6.2	16.4	7.5	4.7	8.9	13.5
07.	Fluoride	mg/L	1.2	0.7	1.0	0.8	0.8	0.3	0.6	1.2
08.	Sulphide	mg/L	1.3	0.8	0.9	0.9	0.7	0.2	0.5	1.0
09.	Ammonical Nitrogen	mg/L	3.8	7.0	7.3	48.6	36.1	19.2	45.2	62.8
10.	Total Kjeldahl Nitrogen	mg/L	7.5	7.5	8.5	57.9	44.3	23.5	51.3	68.2
11.	Free Ammonia	mg/L	0.5	0.22	0.74	0.6	0.7	0.45	0.5	0.65
12.	Copper	mg/L	0.08	BDL (DL- 0.05)	0.15	0.2	0.10	0.13	0.16	0.28
13.	Zinc	mg/L	0.75	0.75	0.74	1.0	0.68	0.58	0.65	1.5
14.	BOD 3 days at 27^{0}C	mg/L	79	61	89	82	79	54	78	56
15.	COD	mg/L	238	183	278	246	248	163	238	168
16	Total Residual Chlorine	mg/L	0.3	0.2	0.4	0.1	0.3	0.1	0.3	0.3
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	0.04	BDL (DL-0.01)	BDL (DL0.01)	BDL (DL-0.01)	0.02
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL -0.01)
19.	Lead	mg/L	0.08	0.04	0.09	0.2	0.07	0.03	0.08	0.4
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.1	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.2
21.	Hexavalent Chromium	mg/L	0.7	0.2	0.6	0.2	0.7	0.3	0.5	0.4
22.	Total Chromium	mg/L	0.8	0.6	0.9	0.3	0.8	0.4	0.7	0.6
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.4	0.4	0.6	0.2	0.3	0.2	0.4	0.3
26.	Iron	mg/L	0.3	0.8	0.7	0.7	0.6	0.3	0.6	0.5
27.	Vanadium	mg/L	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
29.	Nitrate Nitrogen as NO_3-N	mg/L	9.5	6.7	8.6	35.8	19.5	15.3	25.6	42.5

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.56. Wastewater Monitoring Data (M/s. Yashashvi Rasayan Pvt. Ltd.)

October 2023 to December 2023										
Wastewater Samples		Month	October			November			December	
		Date of Sampling	06/10/23	10/10/23	27/10/23	07/11/23	17/11/23	22/11/23	04/12/23	29/12/23
S. No.	Test Parameters	Unit	Result							
01.	pH @ 25 ° C	^{0}C	7.36	7.41	7.28	7.55	8.01	7.44	7.45	7.40
02.	Total Dissolved Solids	pH unit	496	636	500	1276	646	546	6430	860
03.	Total Suspended Solids	mg/L	8	36	14	22	14	10	12	6
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.69	0.56	0.42	0.96	0.69	0.62	1.45	0.93
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.8	8.4	5.6	7.1	111.8	7.8	8.4	4.9
08.	Ammonical Nitrogen	mg/L	2.2	2.8	BDL (MDL:2.0)	2.2	106.0	2.2	2.8	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.071	0.067	0.055	0.074	0.055	0.051	0.078	0.052
11.	Zinc	mg/L	0.096	0.084	0.075	0.093	0.074	0.067	0.093	0.074
12.	COD	mg/L	46.3	53.4	24.5	72.6	12.5	82.5	96.6	25.1
13.	BOD (3 days at 27 0C)	mg/L	13	16	7	22	3	24	28	7
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	BDL (MDL:0.1)	0.16	0.11	0.45	0.22	0.18	1.20	0.41
20.	Nickel	mg/L	0.045	0.035	0.024	0.047	0.029	0.023	0.057	0.036
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	165.5	156.2	133.7	325.5	144.2	123.1	965.5	144.5
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	225/Objectionable	310/Objectionable	240/Objectionable	300/Objectionable	250/Objectionable	200/Objectionable	240/Objectionable	250/Objectionable

October 2023 to December 2023										
Wastewater Samples		Month	October			November			December	
		Date of Sampling	06/10/23	10/10/23	27/10/23	07/11/23	17/11/23	22/11/23	04/12/23	29/12/23
S. No.	Test Parameters	Unit	Result							
27.	Temperature	mg/L	29	30	29	28	29	29.5	29.5	29.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.	90 % survival of fishafter48 hrs.	90 % survival of fishafter48 hrs.	90 % survival of fishafter48 hrs.	90 % survival of fishafter48 hrs.	90 % survival of fishafter48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,										

4.57. Wastewater Monitoring Data (M/s. Yashashvi Rasayan Pvt. Ltd.)

January 2024 to March 2024											
Wastewater Samples		Month	January			February		March			
		Date of Sampling	08/01/24	15/01/24	23/01/24	03/02/24	15/02/24	06/03/24	12/03/24	21/03/24	30/03/24
S. No.	Test Parameters	Unit	Result								
01.	Temperature	0C	30	35	28	33	33	32	33	33	33
02.	pH at 25^0C	pH unit	8.01	7.63	7.71	7.58	6.50	7.34	7.62	6.46	7.36
03.	Total Suspended Solids (TSS)	mg/L	14	22	21	36	24	23	32	22	19
04.	Chloride	mg/L	1584	1452	532	--	--	--	--	--	--
05.	Sulphate	mg/L	268	321	118	245	79	186	231	82	59
06.	Oil & grease	mg/L	2.6	2.6	2.3	11.2	7.5	8.9	8.6	6.8	5.2
07.	Fluoride	mg/L	0.9	0.9	0.9	0.7	0.7	0.6	0.6	0.5	0.5
08.	Sulphide	mg/L	0.4	0.4	0.4	0.6	1.0	0.4	0.5	0.8	0.3
09.	Ammonical Nitrogen	mg/L	6.1	6.1	5.2	13.0	21.6	10.5	18.3	18.9	14.6
10.	Total Kjeldahl Nitrogen	mg/L	6.4	6.4	5.6	18.4	28.7	14.7	21.6	23.6	19.5
11.	Free Ammonia	mg/L	0.10	0.27	0.18	0.2	0.3	0.23	0.25	0.25	0.25
12.	Copper	mg/L	0.07	0.07	0.07	0.08	0.15	0.05	0.06	0.18	0.23
13.	Zinc	mg/L	0.48	0.48	0.26	0.26	0.6	0.23	0.20	0.5	0.52
14.	BOD 3 days at 27^0C	mg/L	18	30	27	37	32	32	42	31	26
15.	COD	mg/L	54	89	121	110	96	93	128	95	78
16	Total Residual Chlorine	mg/L	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.03	0.03	0.05	0.2	0.3	0.3	0.3	0.3	0.06
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.1	0.07	0.2	0.1	0.05	0.05
21.	Hexavalent Chromium	mg/L	0.4	0.4	0.2	0.5	0.2	0.2	0.4	0.1	0.1
22.	Total Chromium	mg/L	0.6	0.6	0.5	0.7	0.4	0.8	0.6	0.3	0.3
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	0.15	BDL (DL-0.3)	0.10	0.10	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.4	0.4	0.3	0.2	0.1	0.3	0.3	0.2	0.2
26.	Iron	mg/L	0.5	0.5	0.5	0.6	08	0.5	0.5	0.6	05
27.	Vanadium	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	0.1	BDL (MDL:0.1)	BDL (MDL:0.1)	0.1	0.2
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.4	BDL (DL- 0.21)	BDL (DL- 0.21)	0.3	0.3
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.2	3.2	4.5	14.6	18.2	12.8	12.5	15.8	15.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.58. Wastewater Monitoring Data (M/s. Accent Microcell Pvt.Ltd.)

October 2023 to December 2023											
Wastewater Samples		Month	October		November			December			
		Date of Sampling	07/10/23	12/10/23	07/11/23	18/11/23	23/11/23	07/12/23	12/12/23	22/12/23	30/12/23
S. No.	Test Parameters	Unit	Result								
01.	pH @ 25 ° C	^{0}C	8.08	7.69	7.60	7.81	7.66	7.68	7.81	7.51	7.76
02.	Total Dissolved Solids	pH unit	530	600	3506	3250	3280	4576	2520	3276	3370
03.	Total Suspended Solids	mg/L	4	BDL (MDL:4.0)	BDL (MDL:4.0)	52	BDL (MDL:4.0)	8	BDL (MDL:4.0)	10	6
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.86	0.67	1.45	1.10	1.25	1.45	1.10	1.65	1.80
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	7.8	10.3	5.6	4.1	5.2	4.1	4.2	5.3	4.6
08.	Ammonical Nitrogen	mg/L	2.2	4.5	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.054	0.056	0.078	0.067	0.071	0.084	0.065	0.078	0.084
11.	Zinc	mg/L	0.077	0.068	0.089	0.076	0.082	0.093	0.077	0.086	0.093
12.	COD	mg/L	8.2	8.1	102.6	49.9	37.0	66.1	48.4	65.3	70.9
13.	BOD (3 days at 27 0C)	mg/L	2	2	28	14	11	19	14	18	21
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)
16	Lead	mg/L	0.042	0.038	0.056	0.044	0.049	0.056	0.045	0.057	0.064
17	Cadmium	mg/L	0.056	0.045	0.067	0.053	0.061	0.074	0.056	0.069	0.077
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.17	0.21	1.10	0.65	0.54	0.67	0.65	0.74	0.91
20.	Nickel	mg/L	0.045	0.057	0.079	0.066	0.072	0.084	0.071	0.086	0.093
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	144.7	166.2	665.5	598.2	626.2	744.2	744.5	825.5	946.2
24.	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)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	20/Unobjectionable	310/Objectionable	40/Unobjectionable	50/Unobjectionable	40/Unobjectionable	50/Unobjectionable	60/Unobjectionable	70/Unobjectionable	80/Unobjectionable
27.	Temperature	mg/L	30	30	28	29.5	29.0	28.5	28.5	28.0	29.0

October 2023 to December 2023											
Wastewater Samples		Month	October		November			December			
		Date of Sampling	07/10/23	12/10/23	07/11/23	18/11/23	23/11/23	07/12/23	12/12/23	22/12/23	30/12/23
S. No.	Test Parameters	Unit	Result								
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fishafter 48 hrs.	90 % survival of fish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.	90%survivaloffish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,											

4.59. Wastewater Monitoring Data (M/s. Accent Microcell Pvt.Ltd.)

January 2024 to March 2024												
Wastewater Samples		Month	January			February				March		
		Date of Sampling	04/01/24	11/01/24	29/01/24	05/02/24	16/02/24	20/02/24	24/02/24	07/03/24	16/03/24	23/03/24
S. No.	Test Parameters	Unit	Result									
01.	Temperature	0C	32	34	34	34	34	35	34	35	34	34
02.	pH at 25^{0}C	pH unit	7.52	7.33	7.95	7.30	6.90	7.20	7.46	7.20	7.56	7.45
03.	Total Suspended Solids (TSS)	mg/L	33	28	32	29	28	34	35	55	44	37
04.	Chloride	mg/L	1187	984	1025	--	--	--	--	--	--	--
05.	Sulphate	mg/L	115	186	172	243	210	145	142	248	256	219
06.	Oil & grease	mg/L	1.2	3.3	2.3	8.0	1.0	3.0	6.5	3.9	7.6	6.2
07.	Fluoride	mg/L	0.9	0.4	0.3	0.6	0.5	0.4	0.5	0.8	0.5	0.5
08.	Sulphide	mg/L	0.8	0.7	0.4	0.6	0.2	0.6	0.2	0.7	0.4	0.4
09.	Ammonical Nitrogen	mg/L	2.1	6.5	4.2	13.5	2.3	13.0	12.6	24.5	16.2	10.9
10.	Total Kjeldahl Nitrogen	mg/L	2.5	6.8	6.2	18.7	4.6	15.6	16.2	30.5	21.3	13.6
11.	Free Ammonia	mg/L	0.04	0.11	0.26	0.3	0.2	0.30	0.3	0.35	0.25	0.35
12.	Copper	mg/L	0.04	0.03	BDL (DL- 0.05)	0.07	0.06	0.05	0.07	0.04	0.06	0.04
13.	Zinc	mg/L	0.36	0.35	0.25	0.36	0.36	0.3	0.18	0.27	0.32	0.31
14.	BOD 3 days at 27^{0}C	mg/L	43	37	43	39	37	45	41	74	60	48
15.	COD	mg/L	130	110	128	116	110	136	124	223	182	149
16	Total Residual Chlorine	mg/L	0.2	0.2	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)
19.	Lead	mg/L	0.03	0.08	0.04	0.15	0.02	0.04	0.06	0.03	0.10	0.12
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	0.07	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	0.06	0.05
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.5	0.2	0.4	0.2	0.3	0.4	0.4
22.	Total Chromium	mg/L	0.8	0.8	0.5	0.6	0.4	0.5	0.3	0.6	0.7	0.3
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	0.5	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	0.3	0.4
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.7	0.5	0.3	0.3	0.2	0.4	0.3	0.3	0.3
26.	Iron	mg/L	0.4	0.6	0.3	0.9	0.5	0.5	0.7	0.4	0.7	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL- 0.21)	BDL (DL-0.21)	BDL (DL- 0.21)	BDL (DL- 0.21)	BDL (DL- 0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.2	4.4	2.9	15.2	12.3	15.9	13.4	22.6	21.3	12.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.60. Wastewater Monitoring Data (Kumar Organic Products Ltd.)

October 2023 to December 2023												
Wastewater Samples		Month	October			November			December			
		Date of Sampling	10/10/23	18/10/23	31/10/23	08/11/23	22/11/23	29/11/23	05/12/23	14/12/23	23/12/23	30/12/23
S. No.	Test Parameters	Unit	Result									
01.	pH @ 25 ° C	0C	7.62	7.64	7.80	8.32	7.75	7.95	8.04	7.93	7.76	7.27
02.	Total Dissolved Solids	pH unit	226	214	326	246	440	200	540	210	396	260
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	68	6	BDL (MDL:4.0)	10	BDL (MDL:4.0)	16	4	6	BDL (MDL:4.0)
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.42	0.38	0.33	0.27	0.39	0.21	0.41	0.29	0.28	0.23
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	11.3	5.3	5.3	7.1	50.3	6.9	10.2	8.9	61.4	5.6
08.	Ammonical Nitrogen	mg/L	5.6	BDL (MDL:2.0)	BDL (MDL:2.0)	2.2	44.6	2.1	4.5	3.3	55.7	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	0.056	BDL (MDL:0.05)	0.056	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
11.	Zinc	mg/L	0.056	BDL (MDL:0.05)	0.051	0.054	0.069	0.051	0.071	0.053	0.057	0.051
12.	COD	mg/L	12.3	12.3	8.2	12.4	45.4	12.3	8.2	12.6	40.8	8.2
13.	BOD (3 days at 27 0C)	mg/L	3	3	2	3	13	3	2	3	12	2
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.049	0.051	0.036	0.029	0.042	0.022	0.042	0.027	0.029	0.023
17	Cadmium	mg/L	0.065	0.063	0.052	0.044	0.063	0.031	0.063	0.044	0.047	0.038
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.044	0.044	0.037	0.031	0.057	0.024	0.055	0.039	0.037	0.029
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	30.5	26.6	45.5	36.7	85.5	18.6	96.3	59.2	51.2	36.6
24.	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)	BDL (MDL:0.1)	BDL (MDL:0.1)

October 2023 to December 2023												
Wastewater Samples		Month	October			November			December			
		Date of Sampling	10/10/23	18/10/23	31/10/23	08/11/23	22/11/23	29/11/23	05/12/23	14/12/23	23/12/23	30/12/23
S. No.	Test Parameters	Unit	Result									
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	15/Unobjectionable	10/Unobjectionable	10/Unobjectionable	15/Unobjectionable	25/Unobjectionable	15/Unobjectionable	25/Unobjectionable	25/Unobjectionable	20/Unobjectionable	25/Unobjectionable
27.	Temperature	mg/L	30	30	29	28	29	29.0	28.5	28.0	28.0	28.5
28.	Selenium	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)	BDL (MDL:0.1)	BDL (MDL:0.1)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,												

4.61. Wastewater Monitoring Data (Kumar Organic Products Ltd.)

January 2024 to March 2024

Wastewater Samples		Month	January				February				March				
		Date of Sampling	13/01/24	22/01/24	29/01/24	31/01/24	16/02/24	22/02/24	26/02/24	24/02/24	04/03/24	16/03/24	20/03/24	23/03/24	27/03/24
S. No.	Test Parameters	Unit	Result												
01.	Temperature	0C	34	32	34	34	33	29	30.6	34	30.6	33	34	34	29
02.	pH at 25^{0}C	pH unit	7.18	7.35	7.25	7.86	7.20	7.25	7.16	7.46	7.35	7.42	7.34	7.45	7.39
03.	Total Suspended Solids (TSS)	mg/L	45	19	32	36	24	35	24	35	21	22	20	21	18
04.	Chloride	mg/L	526	52	426	486	--	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	158	28	120	218	126	45	65	142	45	146	102	62	78
06.	Oil & grease	mg/L	2.0	1.8	1.9	2.9	3.0	3.0	3.2	6.5	3.0	3.5	2.0	3.5	5.4
07.	Fluoride	mg/L	0.6	0.8	0.5	0.6	0.4	0.8	0.4	0.5	0.2	0.6	0.3	0.5	0.6
08.	Sulphide	mg/L	1.2	0.9	0.6	0.8	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3
09.	Ammonical Nitrogen	mg/L	4.6	3.8	3.1	2.9	2.0	12.5	7.2	12.6	6.5	4.6	6.2	8.2	8.2
10.	Total Kjeldahl Nitrogen	mg/L	6.8	4.2	6.2	3.6	3.8	14.6	10.1	16.2	8.9	8.3	9.3	11.6	12.6
11.	Free Ammonia	mg/L	0.34	0.13	0.25	0.23	0.1	0.2	0.2	0.3	0.3	0.12	0.25	0.25	0.32
12.	Copper	mg/L	0.06	BDL (DL- 0.05)	BDL (DL- 0.05)	BDL (DL- 0.05)	0.05	0.1	0.03	0.07	0.02	0.032	0.02	0.2	0.02
13.	Zinc	mg/L	0.7	0.40	0.42	0.25	0.12	0.15	0.12	0.18	0.18	0.15	0.16	0.13	0.21
14.	BOD 3 days at 27^{0}C	mg/L	45	22	43	45	25	34	32	41	28	32	27	28	24
15.	COD	mg/L	156	70	129	135	76	110	95	124	86	98	81	86	73
16	Total Residual Chlorine	mg/L	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1
17	Arsenic	mg/L	BDL (DL- 0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)
19.	Lead	mg/L	0.06	0.02	0.02	0.02	0.02	0.02	0.01	0.06	0.02	0.03	0.02	0.03	0.02
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.3	0.5	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2
22.	Total Chromium	mg/L	0.5	0.7	0.4	0.3	0.3	0.3	0.13	0.3	0.10	0.3	0.31	0.4	0.3
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.6	0.3	0.5	0.2	0.3	0.1	0.2	0.4	0.3	0.3	0.3	0.3	0.3
26.	Iron	mg/L	0.3	0.5	0.3	0.4	0.4	0.2	0.5	0.7	0.4	0.4	0.5	0.5	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	7.2	3.5	3.1	4.2	12.0	12.8	11.8	13.4	10.6	14.6	7.2	10.8	8.2

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.62. Wastewater Monitoring Data (Roha Dye Chem Pvt. Ltd.)

October 2023 to December 2023								
Wastewater Samples		Month	October		November		December	
		Date of Sampling	21/10/23	28/10/23	04/11/23	22/11/23	13/12/23	30/12/23
S. No.	Test Parameters	Unit	Result					
01.	pH @ 25 ° C	^{0}C	7.78	7.36	7.62	8.24	8.97	8.32
02.	Total Dissolved Solids	pH unit	6096	9280	7890	8376	8676	9180
03.	Total Suspended Solids	mg/L	44	94	68	18	48	18
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.20	1.35	1.10	1.42	1.65	1.85
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	674.2	247.7	149.5	50.3	51.6	706.2
08.	Ammonical Nitrogen	mg/L	665.9	239.2	141.9	44.6	46.0	699.5
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.055	0.058	0.067	0.078	0.086	0.095
11.	Zinc	mg/L	0.068	0.067	0.078	0.089	0.097	0.104
12.	COD	mg/L	597.4	599.4	410	206.4	245	334
13.	BOD (3 days at 27 0C)	mg/L	196	192	136	58	70	106
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	0.047	0.038	0.042	0.057	0.065	0.077
17	Cadmium	mg/L	0.055	0.057	0.063	0.076	0.084	0.092
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.23	0.41	0.29	0.42	0.59	0.79
20.	Nickel	mg/L	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)	BDL (MDL:0.02)
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	1025.5	1256	1162	1205	1310	1396
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	300/Objectionable	440/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable	>500/Objectionable
27.	Temperature	mg/L	29	30	30	29.0	28.5	29.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)

October 2023 to December 2023								
Wastewater Samples		Month	October		November		December	
		Date of Sampling	21/10/23	28/10/23	04/11/23	22/11/23	13/12/23	30/12/23
S. No.	Test Parameters	Unit	Result					
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,								

4.63. Wastewater Monitoring Data (Roha Dye Chem Pvt. Ltd.)

January 2024 to March 2024												
Wastewater Samples		Month	January							March			
		Date of Sampling	05/01/24	19/01/24	23/01/24	01/02/24	13/02/24	23/02/24	25/02/24	09/03/24	14/03/24	19/03/24	28/03/24
S. No.	Test Parameters	Unit	Result										
01.	Temperature	0C	33	34	29	31	35	34	19.5	34	34	34	34
02.	pH at 25^{0}C	pH unit	7.33	7.38	7.61	7.30	7.80	7.64	7.38	7.89	7.34	4.35	7.92
03.	Total Suspended Solids (TSS)	mg/L	47	47	40	45	78	60	274	62	61	62	58
04.	Chloride	mg/L	1312	1245	132	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	394	380	65	452	2248	1120	415	826	486	526	489
06.	Oil & grease	mg/L	5.2	3.4	2.8	5.2	13.6	6.2	10.1	7.6	8.6	9.5	15.2
07.	Fluoride	mg/L	0.7	0.8	0.5	0.4	1.1	0.5	0.9	0.6	0.7	0.8	1.0
08.	Sulphide	mg/L	0.9	0.9	0.9	1.0	1.2	0.4	0.6	0.3	0.6	0.6	1.1
09.	Ammonical Nitrogen	mg/L	4.6	5.4	6.5	43.5	53.8	24.1	1123	45.2	38.6	48.2	36.8
10.	Total Kjeldahl Nitrogen	mg/L	5.4	5.9	7.2	47.6	65.4	32.3	1540	68.5	54.2	78.3	42.9
11.	Free Ammonia	mg/L	0.10	0.18	0.41	0.8	0.5	0.4	14.01	0.6	0.45	0.5	0.55
12.	Copper	mg/L	0.05	0.05	0.03	0.02	0.06	0.08	0.08	0.07	0.07	0.06	0.07
13.	Zinc	mg/L	0.54	0.54	0.58	0.26	0.2	0.3	0.62	0.5	0.26	0.4	0.3
14.	BOD 3 days at 27^{0}C	mg/L	63	60	54	56	81	80	345	83	81	84	80
15.	COD	mg/L	189	182	173	168	242	241	1125	248	245	247	239
16	Total Residual Chlorine	mg/L	0.2	0.2	0.2	0.4	0.1	0.2	0.1	0.2	0.2	0.2	0.3
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.05	0.02	0.2	0.03	0.06	0.05	0.07	0.05	0.07	0.3
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.1	BDL (DL-0.05)	0.05	BDL (DL-0.05)	0.04	0.04	0.04	0.09
21.	Hexavalent Chromium	mg/L	0.5	0.5	0.3	0.4	0.2	0.2	0.4	0.3	0.2	0.3	0.35
22.	Total Chromium	mg/L	0.8	0.8	0.5	0.6	0.4	0.3	0.6	0.5	0.4	0.5	0.52
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.5	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.2	0.5	0.4	0.2	0.2	0.5	0.5	0.4	0.6	0.2
26.	Iron	mg/L	0.2	0.2	0.8	0.7	0.3	0.4	0.45	0.6	0.5	0.5	0.3
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.1	BDL (DL- 0.01)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.01)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL

January 2024 to March 2024													
Wastewater Samples		Month	January							March			
		Date of Sampling	05/01/24	19/01/24	23/01/24	01/02/24	13/02/24	23/02/24	25/02/24	09/03/24	14/03/24	19/03/24	28/03/24
S. No.	Test Parameters	Unit	Result										
			(DL- 0.01)	(DL- 0.01)	(DL- 0.01)		(DL- 0.01)	(DL- 0.01)	(DL- 0.01)	(DL- 0.01)	(DL- 0.01)	(DL- 0.01)	(DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	6.1	5.1	6.1	32.6	13.2	13.5	118.5	16.9	38.6	47.6	42.6
Note: 1. Temperature and Total Residual Chlorine was measured onsite 2. BDL – Below Detection Limit, DL – Detection Limit													

4.64. Wastewater Monitoring Data (IPG Asia Pvt. Ltd. (Formerly M/S. Powerband Industries))

October 2023 to December 2023										
Wastewater Samples		Month	October			November		December		
		Date of Sampling	25/10/23	28/10/23	31/10/24	07/11/23	24/11/23	16/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result							
01.	pH @ 25 ° C	^{0}C	7.83	7.44	7.03	7.80	8.20	BDL(MDL:2.0)	7.40	7.33
02.	Total Dissolved Solids	pH unit	1040	1176	1135	1724	1196	3216	996	936
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	BDL (MDL:4.0)	4	6	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.84	0.67	0.89	1.10	0.96	1.25	0.82	0.74
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	5.2	4.4	5.8	4.7	3.9	5.2	7.8	4.9
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	2.2	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.075	BDL (MDL:0.05)	0.074	0.089	0.074	0.085	0.066	0.058
11.	Zinc	mg/L	0.084	0.058	0.095	0.104	0.091	0.104	0.084	0.077
12.	COD	mg/L	16.4	8.2	16.4	8.2	12.3	8.3	16.3	8.2
13.	BOD (3 days at 27 0C)	mg/L	4	2	4	2	3	2	4	2
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	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)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.052	0.025	0.047	0.058	0.046	0.063	0.035	0.028
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.28	0.11	0.26	0.37	0.25	0.41	0.21	0.17
20.	Nickel	mg/L	0.065	0.035	0.057	0.066	0.054	0.071	0.047	0.038
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	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)
23.	Sulphate (as SO4)	mg/L	395.5	167.7	385.5	565.5	493.2	652.2	425.5	396.2
24.	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)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	40/Unobjectionable	25/Unobjectionable	20/Unobjectionable	20/Unobjectionable	25/Unobjectionable	20/Unobjectionable	35/Objectionable	25/Unobjectionable

October 2023 to December 2023										
Wastewater Samples		Month	October			November		December		
		Date of Sampling	25/10/23	28/10/23	31/10/24	07/11/23	24/11/23	16/12/23	20/12/23	30/12/23
S. No.	Test Parameters	Unit	Result							
27.	Temperature	mg/L	30	30	29	28	29	28.5	28.5	28.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fishafter 48 hrs.	90 % survival of fishafter 48 hrs.	90 % survival of fish after 48 hrs.	90 % survival of fishafter 48 hrs.	90 % survival of fishafter 48 hrs.	90 % survival of fishafter 48 hrs.	90 % survival of fishafter 48 hrs.	90 % survival of fishafter 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,										

4.65. Wastewater Monitoring Data (IPG Asia Pvt. Ltd. (Formerly M/S. Powerband Industries))

January 2024 to March 2024											
Wastewater Samples		Month	January						March		
		Date of Sampling	17/01/24	23/01/24	30/01/24	13/02/24	21/02/24	27/02/24	09/03/24	28/03/24	30/03/24
S. No.	Test Parameters	Unit	Result								
01.	Temperature	0C	35	35	35	30	28	36	32	33	34
02.	pH at 25^{0}C	pH unit	7.26	7.35	7.65	7.30	7.65	7.1	7.30	7.54	7.42
03.	Total Suspended Solids (TSS)	mg/L	34	35	42	19	22	25	17	18	18
04.	Chloride	mg/L	374	660	523	--	--	--	--	--	--
05.	Sulphate	mg/L	112	710	645	486	758	589	342	526	356
06.	Oil & grease	mg/L	2.2	3.2	3.5	1.0	3.0	4.1	2.1	4.5	2.4
07.	Fluoride	mg/L	0.6	0.8	0.5	0.2	0.6	0.6	0.3	0.7	0.5
08.	Sulphide	mg/L	0.8	0.8	0.4	0.41	0.4	0.3	0.34	0.5	0.4
09.	Ammonical Nitrogen	mg/L	4.2	5.3	4.2	1.5	12.2	12.9	5.9	16.1	7.9
10.	Total Kjeldahl Nitrogen	mg/L	4.8	6.0	7.2	2.8	14.5	16.4	8.1	21.0	12.6
11.	Free Ammonia	mg/L	0.07	0.16	0.15	0.12	0.2	0.2	0.20	0.23	0.26
12.	Copper	mg/L	0.05	0.05	BDL (DL- 0.05)	0.02	0.1	0.06	0.02	0.15	0.05
13.	Zinc	mg/L	0.28	0.45	0.36	0.30	0.3	0.26	0.28	0.26	0.22
14.	BOD 3 days at 27^{0}C	mg/L	46	47	56	25	32	26	22	24	24
15.	COD	mg/L	142	152	168	75	89	79	68	73	72
16	Total Residual Chlorine	mg/L	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.02	0.03	0.04	0.03	0.03	0.1	0.05	0.02	0.09
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.07)	BDL (DL-0.05)	BDL (DL-0.05)	0.05
21.	Hexavalent Chromium	mg/L	0.3	0.5	0.5	0.1	0.2	0.2	0.1	0.3	0.3
22.	Total Chromium	mg/L	0.5	0.7	0.8	0.3	0.4	0.3	0.3	0.5	0.5
23.	Nickel	mg/L	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL-0.3)	BDL (DL -0.3)	BDL (DL -0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.2	0.4	0.2	0.2	0.1	0.2	0.2	0.2
26.	Iron	mg/L	0.1	0.5	0.3	0.4	0.3	0.7	0.4	0.3	0.5
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	3.8	4.8	3.0	3.2	13.2	12.1	8.5	15.1	10.3

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.66. Wastewater Monitoring Data (Milan Laboratories (INDIA) Pvt. Ltd.)

November 2023 to December 2023							
Wastewater Samples		Month	November			December	
		Date of Sampling	11/11/23	17/11/23	23/11/24	04/12/23	15/12/23
S. No.	Test Parameters	Unit	Result				
01.	pH @ 25 ° C	^{0}C	7.73	7.75	7.15	7.60	7.49
02.	Total Dissolved Solids	pH unit	510	2110	920	210	926
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	74	4	8	52
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.69	1.10	0.82	0.42	0.63
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	5.8	69.4	30.0	11.8	14.1
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	63.5	24.3	6.2	8.4
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	BDL (MDL:0.05)	0.067	0.052	BDL (MDL:0.05)	BDL (MDL:0.05)
11.	Zinc	mg/L	0.054	0.079	0.063	BDL (MDL:0.05)	BDL (MDL:0.05)
12.	COD	mg/L	21.2	203.6	126.3	8.2	87.1
13.	BOD (3 days at 27 0C)	mg/L	6	58	36	2	25
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
17	Cadmium	mg/L	0.025	0.052	0.039	0.021	0.039
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.12	0.26	0.17	0.10	0.23
20.	Nickel	mg/L	0.035	0.059	0.036	0.024	0.047
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	157.7	266.7	144.2	47.7	132.2
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)

November 2023 to December 2023							
Wastewater Samples		Month	November			December	
		Date of Sampling	11/11/23	17/11/23	23/11/24	04/12/23	15/12/23
S. No.	Test Parameters	Unit	Result				
26.	(Colour /Odour)	mg/L	120/Objectionable	200/Objectionable	280/Objectionable	40/Unobjectionable	50/Unobjectionable
27.	Temperature	mg/L	30	30	29.0	29.0	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	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.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,							

4.67. Wastewater Monitoring Data (Milan Laboratories (INDIA) Pvt. Ltd.)

January 2024 to March 2024												
Wastewater Samples		Month	January			February				March			
		Date of Sampling	08/01/24	19/01/24	25/01/24	03/02/24	15/02/24	21/02/24	27/02/24	06/03/24	12/03/24	19/03/24	30/03/24
S. No.	Test Parameters	Unit	Result										
01.	Temperature	0C	31	35	35	31	32	28	33	34	343	34	32
02.	pH at 25^0C	pH unit	7.56	7.65	7.65	7.56	7.43	7.32	7.12	7.52	7.43	7.46	7.53
03.	Total Suspended Solids (TSS)	mg/L	43	45	45	47	22	26	26	18	21	47	21
04.	Chloride	mg/L	1032	923	1038	--	--	--	--	--	--	--	--
05.	Sulphate	mg/L	376	340	478	485	89	105	86	53	86	375	105
06.	Oil & grease	mg/L	4.4	3.2	2.2	3.1	1	4.0	3.0	3.8	3.5	3.6	2.0
07.	Fluoride	mg/L	0.8	0.7	0.3	0.4	0.2	0.5	0.4	0.5	0.6	0.6	0.5
08.	Sulphide	mg/L	1.0	0.9	0.6	0.5	0.48	0.4	0.2	0.3	0.3	0.3	0.36
09.	Ammonical Nitrogen	mg/L	4.5	5.6	4.0	3.2	8.4	13.2	14.2	17.3	10.2	12.6	5.9
10.	Total Kjeldahl Nitrogen	mg/L	4.9	6.2	6.6	6.1	11.3	16.1	15.4	20.1	14.3	16.2	9.2
11.	Free Ammonia	mg/L	0.11	0.36	0.28	0.21	0.1	0.20	0.2	0.25	0.25	0.25	0.25
12.	Copper	mg/L	0.09	0.09	0.05	0.04	0.06	0.05	0.07	0.04	0.03	0.03	0.04
13.	Zinc	mg/L	0.8	0.8	0.23	0.52	0.2	0.1	0.18	0.21	0.2	0.34	0.15
14.	BOD 3 days at 27^0C	mg/L	57	62	62	49	29	26	27	25	29	49	31
15.	COD	mg/L	170	183	177	146	86	79	81	74	87	146	94
16	Total Residual Chlorine	mg/L	0.1	0.1	0.3	0.3	0.2	0.2	0.1	0.2	0.1	0.2	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL- 0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL- 0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.05	0.02	0.03	0.09	0.05	0.04	0.03	0.03	0.02	0.07
20.	Cadmium	mg/L	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	0.07	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL- 0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.06
21.	Hexavalent Chromium	mg/L	0.4	0.4	0.5	0.4	0.3	0.1	0.1	0.21	0.2	0.2	0.5
22.	Total Chromium	mg/L	0.6	0.6	0.7	0.6	0.5	0.2	0.12	0.32	0.3	0.4	0.7
23.	Nickel	mg/L	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL-0.3)	BDL (DL- 0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL- 0.3)	BDL (DL- 0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.23	0.4	0.2	0.4
26.	Iron	mg/L	0.4	0.4	0.2	0.2	0.8	0.7	0.45	0.34	0.6	0.1	0.8
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.21)	0.6	BDL (DL- 0.21)	BDL (DL- 0.21)	BDL (DL- 0.21)	BDL (DL- 0.21)	BDL (DL- 0.21)	0.5
29.	Nitrate Nitrogen as NO_3-N	mg/L	5.4	5.2	4.9	5.9	13.2	14.5	12.0	8.2	9.5	10.3	9.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.68. Wastewater Monitoring Data (Aarti Industries Ltd. (Unit-III Saffron))

November 2023 to December 2023				
Wastewater Samples		Month	November	December
		Date of Sampling	28/11/23	13/12/23
S. No.	Test Parameters	Unit	Result	
01.	pH @ 25 ° C	^{0}C	7.49	7.50
02.	Total Dissolved Solids	pH unit	2530	2050
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.10	0.92
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	8.4	20.1
08.	Ammonical Nitrogen	mg/L	2.8	14.4
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.063	0.055
11.	Zinc	mg/L	0.091	0.082
12.	COD	mg/L	24.4	32.5
13.	BOD (3 days at 27 0C)	mg/L	7	9
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.052	0.047
17	Cadmium	mg/L	0.044	0.036
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	0.31	0.23
20.	Nickel	mg/L	0.057	0.044
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	563.2	425.5
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	25/Unobjectionable	30/Unobjectionable
27.	Temperature	mg/L	29	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,				

4.69. Wastewater Monitoring Data (Tatva Chintan Pharma Chem Pvt. Ltd.)

December 2023			
Wastewater Samples		Month	December
		Date of Sampling	09/12/23
S. No.	Test Parameters	Unit	Result
01.	pH @ 25 ° C	^{0}C	8.00
02.	Total Dissolved Solids	pH unit	3656
03.	Total Suspended Solids	mg/L	4
04.	Oil & Grease	mg/L	BDL (MDL:2.0)
05.	Fluoride	mg/L	1.65
06.	Sulphide	mg/L	BDL (MDL:0.05)
07.	TKN	mg/L	5.6
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)
10.	Copper	mg/L	0.104
11.	Zinc	mg/L	0.113
12.	COD	mg/L	64.4
13.	BOD (3 days at 27 0C)	mg/L	18
14.	Arsenic	mg/L	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)
16	Lead	mg/L	BDL (MDL:0.01)
17	Cadmium	mg/L	BDL (MDL:0.003)
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	BDL (MDL:0.1)
20.	Nickel	mg/L	0.087
21.	Cyanide	mg/L	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	844.5
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	10/Unobjectionable
27.	Temperature	mg/L	28.5
28.	Selenium	mg/L	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,			

4.70. Wastewater Monitoring Data (Tatva Chintan Pharma Chem Pvt. Ltd.)

January 2024 to March 2024

Wastewater Samples		Month	January				February			March			
		Date of Sampling	15/01/24	20/01/24	23/01/24	30/01/24	01/02/24	13/02/24	23/02/24	12/03/24	14/03/24	19/03/24	26/03/24
S. No.	Test Parameters	Unit	Result										
01.	Temperature	0C	36	34	34	34	33	33	35	34	34	34	34
02.	pH at 25^{0}C	pH unit	7.85	7.58	7.80	7.80	7.25	7.60	7.46	7.56	7.55	7.52	7.52
03.	Total Suspended Solids (TSS)	mg/L	33	40	31	30	36	32	35	27	19	16	24
04.	Chloride	mg/L	1342	1756	324	436	--	--	--	--	--	--	--
05.	Sulphate	mg/L	394	126	140	136	385	186	235	146	179	152	234
06.	Oil & grease	mg/L	1.8	2.6	3.2	2.5	6.2	1.5	3.1	2.0	3.5	2.5	2.6
07.	Fluoride	mg/L	0.7	0.5	0.6	0.3	0.8	0.3	0.5	0.5	0.6	0.3	0.4
08.	Sulphide	mg/L	0.1	0.4	0.7	0.4	0.6	0.41	0.4	0.36	0.3	0.2	0.32
09.	Ammonical Nitrogen	mg/L	4.6	5.2	6.0	2.8	13.2	2.6	13.6	5.6	10.6	10.2	6.9
10.	Total Kjeldahl Nitrogen	mg/L	5.2	5.6	6.7	4.3	16.8	3.6	18.2	8.2	13.8	14.3	10.6
11.	Free Ammonia	mg/L	0.21	0.15	0.22	0.25	0.23	0.21	0.3	0.25	0.26	0.2	0.23
12.	Copper	mg/L	0.05	0.03	0.08	BDL (DL- 0.05)	0.06	0.03	0.08	0.03	0.06	0.05	0.02
13.	Zinc	mg/L	0.54	0.45	0.52	0.32	0.36	0.15	0.2	0.19	0.18	0.1	0.10
14.	BOD 3 days at 27^{0}C	mg/L	44	49	41	40	47	43	32	36	25	21	32
15.	COD	mg/L	140	145	135	119	142	129	96	109	76	65	96
16	Total Residual Chlorine	mg/L	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL- 0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)	BDL (DL-0.01)
19.	Lead	mg/L	0.05	0.04	0.03	0.04	0.07	0.03	0.05	0.02	0.04	0.03	0.02
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.1	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.5	0.3	0.5	0.6	0.5	0.1	0.1	0.2	0.2	0.1	0.2
22.	Total Chromium	mg/L	0.8	0.4	0.8	0.9	0.86	0.3	0.2	0.3	0.3	0.3	0.4
23.	Nickel	mg/L	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.4	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.3	0.4	0.2	0.4	0.3	0.2	0.1	0.3	0.3	0.4
26.	Iron	mg/L	0.2	0.5	0.2	0.5	0.8	0.2	0.4	0.2	0.4	0.2	0.2
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	0.1	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	0.41	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	5.7	5.2	5.6	3.9	13.5	13.6	13.7	10.5	8.4	15.2	8.6

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.71. Wastewater Monitoring Data (Vidhi Speciality Food Ingredients Ltd)

January 2024 to February 2024										
Wastewater Samples		Month	January			February				
		Date of Sampling	18/01/24	24/01/24	29/01/24	05/02/24	16/02/24	20/02/24	24/02/24	25/02/24
S. No.	Test Parameters	Unit	Result							
01.	Temperature	0C	35	28	35	30	34	29	34	17.5
02.	pH at 25^0C	pH unit	7.36	7.66	7.65	7.70	7.30	7.35	7.32	12.24
03.	Total Suspended Solids (TSS)	mg/L	31	29	35	36	22	50	56	232
04.	Chloride	mg/L	435	335	652	--	--	--	--	--
05.	Sulphate	mg/L	171	119	146	219	275	312	526	510
06.	Oil & grease	mg/L	2.1	2.1	1.6	2.0	2.0	6.0	6.2	5.0
07.	Fluoride	mg/L	0.4	0.9	0.3	0.3	0.6	0.8	0.7	0.8
08.	Sulphide	mg/L	0.3	0.4	0.5	0.5	0.3	0.5	0.2	0.7
09.	Ammonical Nitrogen	mg/L	5.1	8.4	3.2	6.2	21.8	35.6	12.8	12.2
10.	Total Kjeldahl Nitrogen	mg/L	5.5	9.1	4.8	7.3	26.3	48.9	14.1	18.6
11.	Free Ammonia	mg/L	0.14	0.23	0.21	0.45	0.3	0.5	0.3	0.2
12.	Copper	mg/L	0.01	BDL (DL- 0.05)	BDL (DL- 0.05)	0.03	0.1	0.15	0.08	0.07
13.	Zinc	mg/L	0.32	0.21	0.21	0.28	0.2	0.3	0.2	0.53
14.	BOD 3 days at 27^0C	mg/L	41	43	45	48	29	66	75	279
15.	COD	mg/L	122	115	136	143	86	198	224	937
16	Total Residual Chlorine	mg/L	0.2	0.15	0.3	0.3	0.1	0.2	0.1	0.2
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
18.	Mercury	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
19.	Lead	mg/L	0.03	0.02	0.02	0.02	0.05	0.04	0.03	0.05
20.	Cadmium	mg/L	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.3	0.3	0.2	0.3	0.2	0.5	0.3	0.4
22.	Total Chromium	mg/L	0.5	0.5	0.4	0.6	0.3	0.6	0.4	0.5
23.	Nickel	mg/L	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.2	0.1	0.3	0.4	0.2	0.2	0.4	0.4
26.	Iron	mg/L	0.3	0.3	0.2	0.1	0.5	0.3	0.2	0.3
27.	Vanadium	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)
28.	Manganese	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)	0.6	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	4.2	8.1	3.5	16.3	12.0	16.9	15.8	17.9

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4.72. Wastewater Monitoring Data (Neogen Chemicals Ltd.)

November 2023 to December 2023					
Wastewater Samples		Month	November	December	
		Date of Sampling	23/11/23	04/12/23	13/12/23
S. No.	Test Parameters	Unit	Result		
01.	pH @ 25 ° C	^{0}C	8.02	8.00	8.26
02.	Total Dissolved Solids	pH unit	186	166	196
03.	Total Suspended Solids	mg/L	BDL (MDL:4.0)	6	BDL (MDL:4.0)
04.	Oil & Grease	mg/L	BDL (MDL:2.0)	BDL (MDL:2.0)	BDL (MDL:2.0)
05.	Fluoride	mg/L	0.33	0.32	0.41
06.	Sulphide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
07.	TKN	mg/L	BDL (MDL:2.0)	8.4	BDL (MDL:2.0)
08.	Ammonical Nitrogen	mg/L	BDL (MDL:2.0)	2.8	BDL (MDL:2.0)
09.	Free Ammonia	mg/L	BDL (MDL:0.2)	BDL (MDL:0.2)	BDL (MDL:0.2)
10.	Copper	mg/L	0.069	0.069	0.074
11.	Zinc	mg/L	0.052	BDL (MDL:0.05)	0.061
12.	COD	mg/L	16.4	8.2	8.3
13.	BOD (3 days at 27 0C)	mg/L	4	2	2
14.	Arsenic	mg/L	BDL (MDL:0.01)	BDL (MDL:0.01)	BDL (MDL:0.01)
15.	Mercury	mg/L	BDL (MDL:0.001)	BDL (MDL:0.001)	BDL (MDL:0.001)
16	Lead	mg/L	0.039	0.041	0.043
17	Cadmium	mg/L	0.052	0.052	0.061
18.	Hexavalent Chromium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
19.	Phosphate as PO4-	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
20.	Nickel	mg/L	0.044	0.044	0.053
21.	Cyanide	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
22.	Phenolic Compound	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
23.	Sulphate (as SO4)	mg/L	22.3	20.2	27.1
24.	Residual Chlorine	mg/L	BDL (MDL:0.1)	BDL (MDL:0.1)	BDL (MDL:0.1)
25.	Pesticides	mg/L	BDL (MDL:1.0)	BDL (MDL:1.0)	BDL (MDL:1.0)
26.	(Colour /Odour)	mg/L	10/Unobjectionable	25/Unobjectionable	10/Unobjectionable
27.	Temperature	mg/L	29.5	28.5	29.0
28.	Selenium	mg/L	BDL (MDL:0.05)	BDL (MDL:0.05)	BDL (MDL:0.05)
29.	Bio Assay test	mg/L	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.	90 % survival of fish after 48 hrs.
Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit,					

4.73. Wastewater Monitoring Data (Neogen Chemicals Ltd.)

January 2024 to March 2024										
Wastewater Samples		Month	January			February		March		
		Date of Sampling	17/01/24	23/01/24	30/01/24	6/02/24	21/02/24	08/03/24	21/03/24	30/03/24
S. No.	Test Parameters	Unit	Result							
01.	Temperature	0C	34	30	34	32	28	34	34	32
02.	pH at 25^0C	pH unit	7.48	7.67	7.72	7.50	7.30	7.45	7.52	7.56
03.	Total Suspended Solids (TSS)	mg/L	31	33	29	30	22	18	19	23
04.	Chloride	mg/L	562	120	236	--	--	--	--	--
05.	Sulphate	mg/L	251	62	95	116	35	42	42	48
06.	Oil & grease	mg/L	2.5	1.9	2.0	4.0	1.0	2.1	2.1	2.5
07.	Fluoride	mg/L	0.5	0.8	0.5	0.6	0.32	0.28	0.42	0.45
08.	Sulphide	mg/L	1.2	0.4	0.3	0.3	0.3	0.24	0.25	0.36
09.	Ammonical Nitrogen	mg/L	6.2	6.8	3.9	8.8	12.1	5.9	7.6	9.5
10.	Total Kjeldahl Nitrogen	mg/L	6.8	7.4	6.2	14.6	14.6	9.4	10.5	13.4
11.	Free Ammonia	mg/L	0.48	0.32	0.31	0.1	0.2	0.25	0.25	0.26
12.	Copper	mg/L	0.04	0.06	BDL (DL- 0.05)	0.08	0.05	0.036	0.03	0.04
13.	Zinc	mg/L	0.45	0.43	0.28	0.5	0.2	0.16	0.1	0.2
14.	BOD 3 days at 27^0C	mg/L	42	43	38	40	30	26	26	32
15.	COD	mg/L	125	124	114	119	89	78	78	96
16	Total Residual Chlorine	mg/L	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1
17	Arsenic	mg/L	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL-0.02)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)
18.	Mercury	mg/L	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)	BDL (DL -0.01)
19.	Lead	mg/L	0.04	0.02	0.05	0.07	0.01	0.01	0.02	0.02
20.	Cadmium	mg/L	BOD (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	0.05	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)	BDL (DL-0.05)
21.	Hexavalent Chromium	mg/L	0.1	0.4	0.3	0.3	0.2	0.3	0.3	0.3
22.	Total Chromium	mg/L	0.3	0.7	0.6	0.6	0.4	0.4	0.5	0.5
23.	Nickel	mg/L	BDL (DL -0.3)	BDL (DL -0.3)	BDL (DL -0.3)	0.4	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)	BDL (DL-0.3)
24.	Cyanide	mg/L	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25.	Phenolic compound	mg/L	0.5	0.3	0.2	0.3	0.1	0.2	0.2	0.2
26.	Iron	mg/L	0.2	0.6	0.3	BDL (DL- 0.1)	0.4	0.3	0.4	0.4
27.	Vanadium	mg/L	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL-0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)	BDL (DL- 0.1)
28.	Manganese	mg/L	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL- 0.01)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)	BDL (DL-0.21)
29.	Nitrate Nitrogen as NO_3-N	mg/L	5.3	6.3	4.1	18.6	14.0	11.8	11.4	12.8

Note: 1. Temperature and Total Residual Chlorine was measured onsite.
2. BDL – Below Detection Limit, DL – Detection Limit

4. NABL CERTIFICATE OF THE LABORATORY

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

ECOSYSTEM RESOURCE MANAGEMENT PVT.LTD. - LAB DIVISION

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

209, 4TH FLOOR, SIDDHIVINAYAK PLATINUM, ALTHAN PANDESARA BRTS ROAD, BAMROLI, SURAT, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-11369

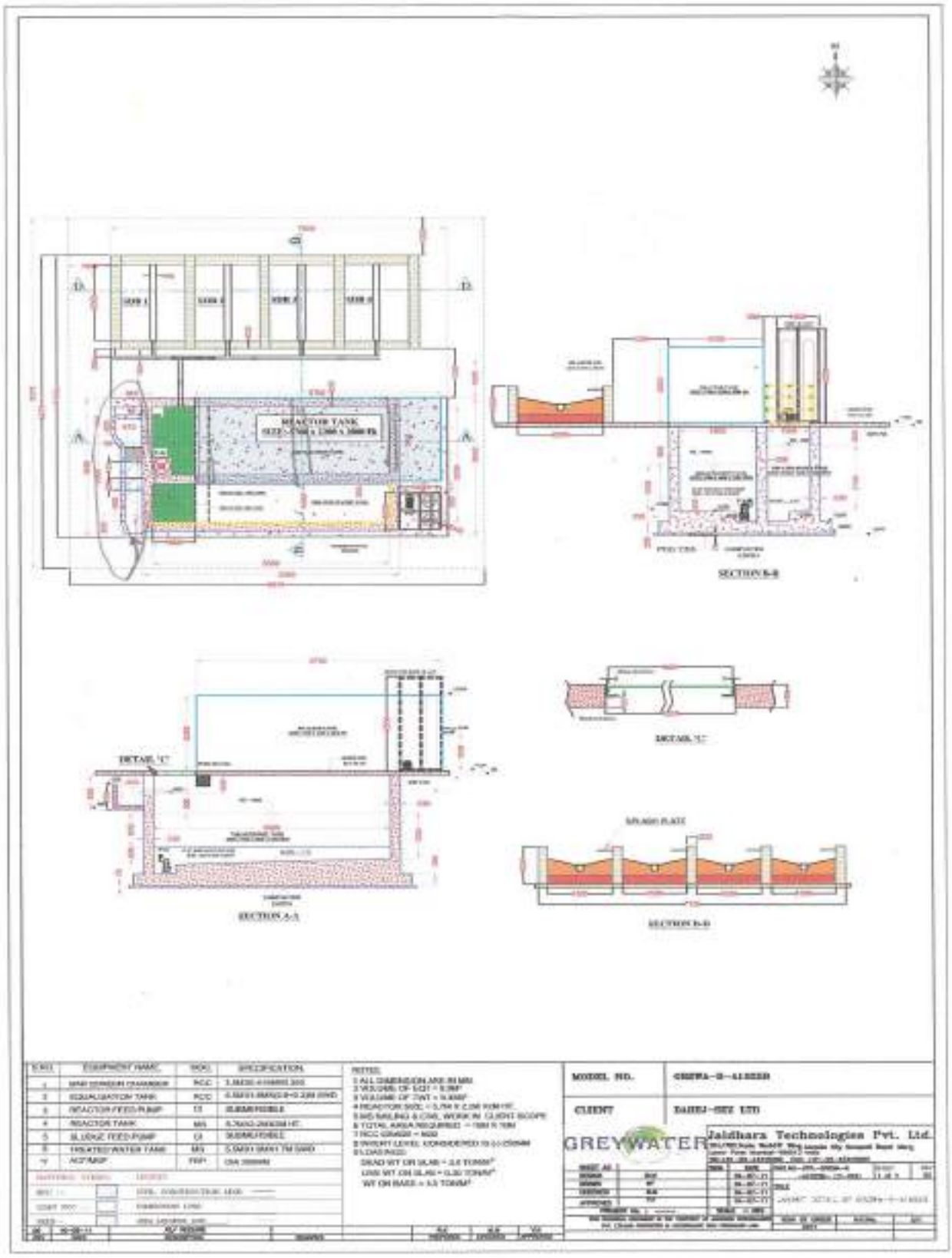
Issue Date: 10/02/2023 Valid Until: 09/02/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

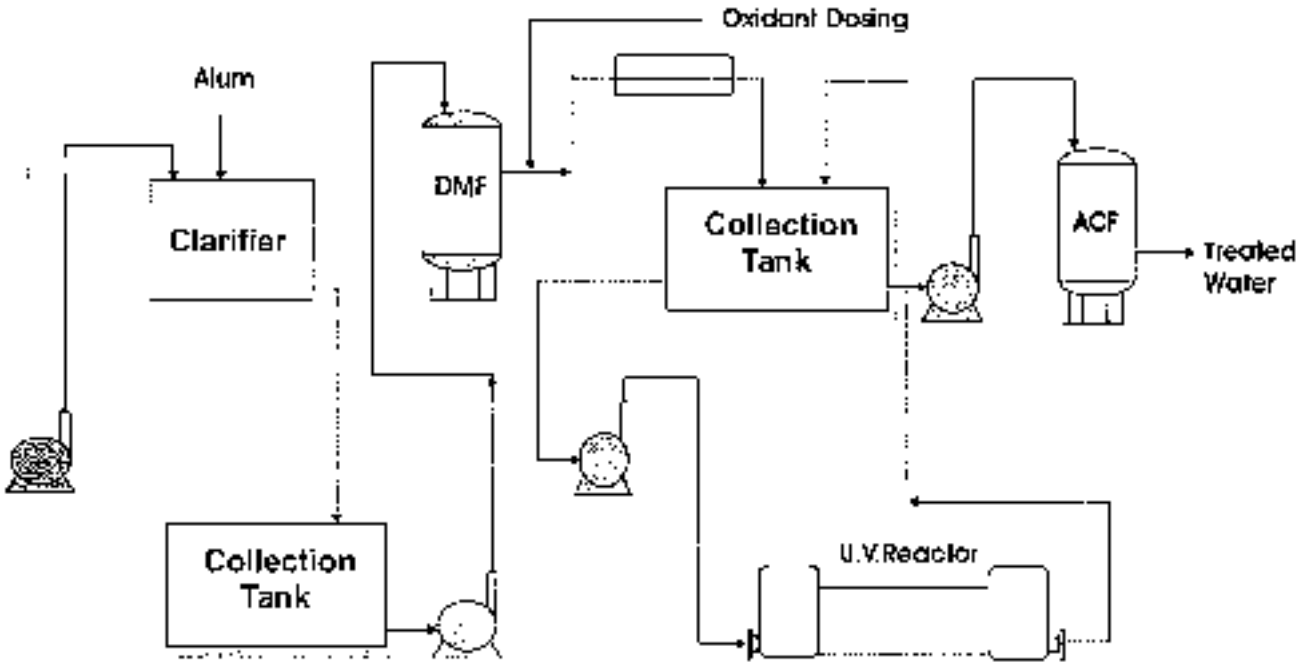
Name of Legal Identity : ECOSYSTEM RESOURCE MANAGEMENT PVT. LTD.

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer


REACTOR TANK
SECTION B-B
DETAIL 'C'
SECTION A-A
DETAIL 'C'
SPLASH PLATE
SECTION B-B
MODEL NO.
CLIENT
Jaldhara Technologies Pvt. Ltd.
GREYWATER

TYPICAL PHOTOCHEMICAL PROCESS FOR WASTEWATER



Dahej SEZ Limited
Block No. 14, 3rd Floor, Udyog Bhavan,
Sector-11, Gandhinagar-382017, Gujarat, India
Phone : +91-79-23241598,23758838
Fax : (079) 23241736
e-mail : ceo@dahejsez.com, info@dahejsez.com
website : www.dahejsez.com
CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8088E3ZJ

Ref.: DSL/Agency/Environment Clerance/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

Dahej SEZ Limited
Block No. 14, 3rd Floor, Udyog Bhavan,
Sector-11, Gandhinagar-382017, Gujarat, India
Phone : +91-79-23241586,29750838
Fax : (079) 23241736
e-mail : ceo@dahejsez.com, info@dahejsez.com
website : www.dahejsez.com
CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8098E1ZJ

Ref.:DSL/Agency/Environment Clearance/945/2023/163/ Date: 12/09/2023

Through Email

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

Subject: Submission of Half Yearly (Period - October-2022 to March-2023) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Ltd. (Joint venture of GIDC & ONGC) at. 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 Ltd., 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- October-2022 to March-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 Ltd., 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

Dahej SEZ Limited
Block No.14, 3rd Floor, Udyog Bhavan,
Sector-11, Gandhinagar-382017, Gujarat, India
Phone : +91-79-23241590, 29750838
Fax : (079) 23241726
e-mail : ceo@dahejsez.com, info@dahejsez.com
website : www.dahejsez.com
CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8096E3ZJ

Ref.:DSL/Agency/Environment Clerance/945/2022/772 Date: 29/12/2022

Through Email

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-2022 to September-2022) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Ltd. (Joint venture of GIDC & ONGC) at. 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 Ltd., 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-2022 to September-2022) 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 Ltd., Village: Ambheta, Tal. Vagra, Bharuch District (Gujarat) for your kind consideration.

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

Thanking you,
Yours sincerely,

J. B. Patel
Chief Executive Officer

Encl: As Above

Annexure 8: Newspaper cut-outs of the published advertisement

For EC Clearance

Language: English
Publication: Gujarat Samachar (Vadodara Edition)
Date: 29.04.2010

DAHEJ SEZ LIMITED
Village: Dahej, Taluka: Vagra,
Dist. Bharuch, State-Gujarat

NOTICE

It is to inform to public at a large that, Environment Clearance to the proposed project for Development of Dahej SEZ at village Dahej, Taluka Vagra, District. Bharuch, Gujarat State by M/s Dahej SEZ Limited (SPV of GIDC & ONGC) has been accorded by Government of India, Ministry of Environment & Forest (MoEF) vide order No. 21-1084/2007: IA-III dtd. 17th March, 2010.

A copy of clearance letter is available in the office of Gujarat Pollution Control Board- Gandhinagar, Regional Office of GPCD, Bharuch & may also be seen at website of Ministry of Environment & Forest- http://envfor.nic.in

Sd/-
Authorized Signatory
Dahej SEZ Limited

(No.Mahiti-Bharuch-57-10)

Language: Gujarat
Publication: Gujarat Prabha (Bharuch Edition)
Date: 28.04.2010

મેમર્સ દહેજ એસ.ઈ.ઝેડ.લિમટેડ
ગામ:દહેજ,તા.વાગરા,જિ.ભરૂચ (ગુજરાત)
-:સુચના:-

આથી જાહેર જનતાને સુચિત કરવામાં આવે છે કે, મેસર્સ દહેજ એસ.ઈ.ઝેડ.લિમિટેડ દ્વારા ગામ:દહેજ,તા.વાગરા, જિ.ભરૂચ ખાતે આશરે ૧૮૦૩ હેકટર વિસ્તારમાં દહેજ એસ.ઈ.ઝેડ.ના વિકાસ માટેના પ્રોજેકટને ભારત સરકારના પર્યાવરણ અને વનમંત્રાલય તરફથી આદેશ નં.21-1084/2007-IA-III,Dtd: 17"March, 2010 થી એન્વાયરલમેન્ટલ કલીયરન્સ પાઠવવામાં આવેલ છે. આ મંજુરી પત્રની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, ગાંધીનગર તથા ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ,ગાંધીનગર તથા ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, સ્થાનિક કચેરી, ભરૂચ ખાતે ઉપલબ્ધ છે.તેમજ પર્યાવરણ અને વન-મંત્રાલય-ની વેબસાઈટhttps:/envfor.nic.in પર પણ જોઈ શકાશે.

માહિતી/ભરૂચ/૫૭/૨૦૧૦

Language: Gujarat
Publication: Sandesh (Vadodara Edition)
Date: 29.04.2010

મેસર્સ દહેજ એસ.ઈ.ઝેડ. લિમિટેડ
ગામ: દહેજ, તા.વાગરા, જિ.ભરૂચ (ગુજરાત)
—:સુચના:—

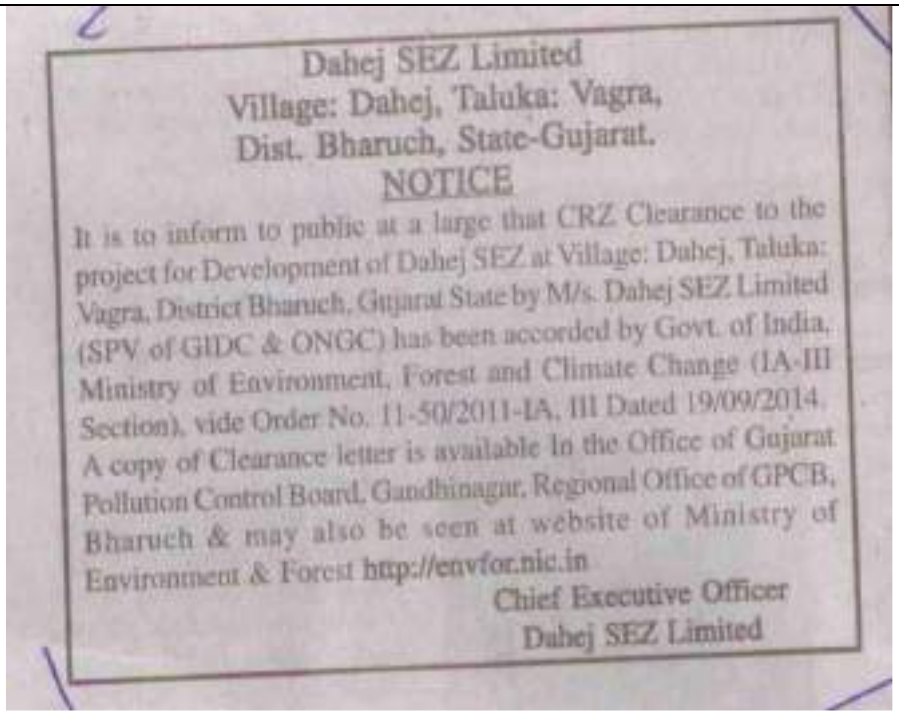
આથી જાહેર જનતાને સુચિત કરવામાં આવે છે કે, મેસર્સ દહેજ એસ.ઈ.ઝેડ. લિમિટેડ દ્વારા ગામ : દહેજ, તા.વાગરા, જિ.ભરૂચ ખાતે આશરે ૧૮૦૩ હેકટર વિસ્તારમાં દહેજ એસ.ઈ.ઝેડ.ના વિકાસ માટેના પ્રોજેકટને ભારત સરકારના પર્યાવરણ અને વન મંત્રાલય તરફથી આદેશ નં.21-1084/2007-IA-III, Dtd:17th March,2010 થી એન્વાયરલમેન્ટલ કલીયરન્સ પાઠવવામાં આવેલ છે. આ મંજુરી પત્રની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, ગાંધીનગર તથા ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ,સ્થાનિક કચેરી, ભરૂચ ખાતે ઉપલબ્ધ છે. તેમજ પર્યાવરણ અને વન મંત્રાલયની વેબસાઈટ http://envfor.nic.in પર પણ જોઈ શકાશે. (માહિતી-ભરૂચ-૫૭-૨૦૧૦)

For CRZ Clearance

Language: English

Publication: Times of India (Ahmedabad Edition)

Date: 11.10.2014



Dahej SEZ Limited
Village: Dahej, Taluka: Vagra,
Dist. Bharuch, State-Gujarat.

NOTICE

It is to inform to public at a large that CRZ Clearance to the project for Development of Dahej SEZ at Village: Dahej, Taluka: Vagra, District Bharuch, Gujarat State by M/s. Dahej SEZ Limited (SPV of GIDC & ONGC) has been accorded by Govt. of India, Ministry of Environment, Forest and Climate Change (IA-III Section), vide Order No. 11-50/2011-IA. III Dated 19/09/2014. A copy of Clearance letter is available In the Office of Gujarat Pollution Control Board, Gandhinagar, Regional Office of GPCB, Bharuch & may also be seen at website of Ministry of Environment & Forest http://envfor.nic.in

Chief Executive Officer
Dahej SEZ Limited

Language: Gujarati

Publication: Divya Bhashkar [Dainik Bhashkar Group] (Bharuch Edition)

Date: 11.10.2014

મેસર્સ દહેજ એસ.ઇ.ઝેડ લિમીટેડ
ગામઃદહેજ,તા.વાગરા,જિ.ભરૂચ(ગુજરાત)
સુચના

આથી જાહેર જનતાને સૂચિત કરવામાં આવે છે કે મેસર્સ દહેજ એસ. ઈ. ઝેડ લિમીટેડ, ગામઃ દહેજ, તા. વાગરા, જિ.ભરૂચ ખાતે દહેજ એસ.ઈ.ઝેડ ના વિકાસ માટેનાં પ્રોજેકટને ભારત સરકારના પર્યાવરણ, વન અને કલાઈમેટ ચેન્જ મંત્રાલય તરફથી આદેશ નં. 11-50/2011-IA.III તા.૧૯, સપ્ટેમ્બર, ૨૦૧૪ થી સીઆરઝેડ કલીયરન્સ પાઠવવામાં આવેલ છે. આ મંજુરી પત્રની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, ગાંધીનગર તથા ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, સ્થાનિક કચેરી, ભરૂચ ખાતે ઉપલબ્ધ છે. તેમજ પર્યાવરણ અને વનમંત્રાલયની વેબસાઈટ http/envior.nic.in પર પણ જોઈ શકાશે.

Annexure 9: Copy of Environment Statement for FY 2023-2024

FROM –V
(See Rule 14)

FROM:
DAHEJ SEZ LIMITED
DAHEJ SEZ (PART-1), DAHEJ,
TA-VAGRA, DIST-BHARUCH

TO:
GUJARAT POLLUTION CONTROL BOARD,
PARYAVARAN BHAVAN, SECTOR 10 –A,
GANDHINAGAR –382010

ENVIRONMENT STATEMENT for the financial year ending the 31st March 2024

PART – A

(i) Name and address of the owner/ occupier of the industry operation or Process : **DAHEJ SEZ LIMITED**
Dahej SEZ (PART-1), Dahej,
Ta-Vagra, Dist-Bharuch
Ph. No. 9825740882
Email: amit@dahejsez.com

(ii) Industry category
Primary – (STC Code)
Secondary – (STC Code) : **Large Scale Industry**

(iii) Production Capacity – Units : **Infrastructure Development**

(iv) Year of Establishment : **2004**

(v) Date of the last environment statement : **20/06/2019**

PART-B

Water and Raw Material Consumption

(i) Water Consumption KL/day

Process : **Nil**

Cooling : **Nil**

Domestic : **100 KL/day**

Name of Products	Process Water consumption per unit of product output	
	During the previous financial year (2022-2023)	During the current financial year (2023-2024)
	(1)	(2)
Infrastructure Development	Not Applicable	Not Applicable

(II) Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous Financial year (2022-2023)	During the current Financial year (2023-2024)
		(1)	(2)
Not Applicable	Infrastructure Development	Not Applicable	Not Applicable

Industry may use codes if disclosing detail of raw material would violate contractual obligation otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to the environment/unit output.
(parameters are specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(i) Water	--	--	--
(ii) Air	--	--	--

PART-D

As specified under Hazardous Waste/Management and Handling Rules, 1989

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial Year (2022-2023)	During the current Financial Year (2023-2024)
From process	–	--
From pollution control facilities	–	--

PART – E

Solid Waste

	Total Quantity	
	During the previous Financial Year (2022-2023)	During the current Financial Year (2023-2024)
(a) From process	--	--
(b) From pollution control facilities	--	--
(c) Quantity recycled or re-utilized within the unit. (1) Sold (2) Disposed	--	–

PART – F

Please specify the clarification (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Not Applicable

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

See Annexure-III

PART – H

Additional measures investment proposal for environment including abatement of pollution/ prevention of pollution.

Not Applicable

PART – I

Any other particulars for improving the quality of the environment.

Plantation

Signature:

Name: Jayesh B Patel

Designation: Chief Executive officer

Date: 28.06.2024

Photographs of green belt development at Dahej SEZ Limited

DAHEJ SEZ LIMITED

Report on Compliances to CRZ Clearance

October 2023 to March 2024

For

M/s. Dahej SEZ Limited

(Joint Venture of GIDC & ONGC)

Located At

Village: Dahej, Taluka: Vagra, District Bharuch

Registered Office:

Block No. 14th, 3rd Floor, Udyog Bhavan, Gandhinagar – 382017, Gujarat

[EC No: F. NO. 11-50/2011-IA.III Dated: 19.09.2014]

Applicant

M/s. Dahej SEZ Ltd.

Block No. 14th, 3rd Floor, Udyog Bhavan,

Gandhinagar – 382017, Gujarat

E-mail: info@dahejsez.com

Tel No: +91-079-23241590, 29750838

Report Prepared by

Ecosystem Resource Management Pvt. Ltd.

Office floor, Ashoka Pavilion 'A', New Civil Road,

Surat, Gujarat.

(QCI/NABET ACCREDITED NO. NABET/EIA/1720/RA 051)

E-mail: eco@ecoshripad.com

Tel No: +912612236223

Table of Contents

INTRODUCTION

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.

M/s. Dahej SEZ Ltd. has obtained EC from MoEF&CC vide letter no. F. No. 21-1084/2007-IA.III dated 17th March 2010 and CRZ Clearance vide letter no. F. No. 11-50/2011-IA.III dated 19th September, 2014.

Unit has obtained CC&A from GPCB vide order no. AWH-104709 date of issue: 22.10.2019 or letter no. GPCB/BRCH-B/CCA-125(2)/ID-25308/551863 dated 21.01.2020, which is valid up to 04.08.2024.

Dahej SEZ is located in Vagra Talulka 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).

As per CRZ clearance (letter no: F. No. 11-50/2011-IA.III dated 19th September, 2014 issued by MoEF&CC) condition no. 12, it is mandatory to submit six monthly compliance report to Region Office Bhopal.

COASTAL REGULATION ZONE (CRZ) CLEARANCE BY MoEF&CC

F. No. 11-50/2011-IA-III dated: 19/09/2014

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

(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, SO_2, NOx (ambient levels as well as

3

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)

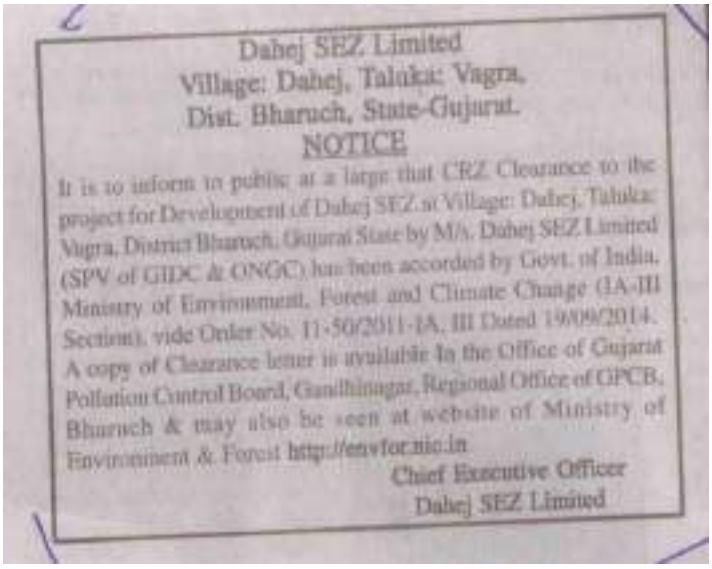
4

COMPLIANCE TO THE STIPULATED CONDITIONS OF COASTAL REGULATION ZONE (CRZ) CLEARANCE

Sr. No.	Conditions	Compliance status
A.	**SPECIFIC CONDITION**	
(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.	**Noted and Agreed** M/s. DSL will not allot the plot in 304.85 acres of CRZ area to industries except for port and harbor or any activity requiring foreshore facilities without obtaining prior approval under EIA notification, 2006 and its amended thereafter and CRZ notification, 2011 and amended thereafter.
(ii)	There shall no water logging due to the proposed roads.	**Complied.** M/s. DSL has provided well developed drainage system at parallel to the both sides of the road and maintaining the same to avoid the water logging. 
(iii)	The runoff from SEZ shall be collected and taken to ETP.	The unit in SEZ have their individual treatment plant within their plot premises and taken care for any run-off as per the norms.
(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.	**Abide by the condition.** M/s. DSL is strictly in compliance with all the conditions/recommendations stipulated in Environment Clearance (EC) issued by MoEF&CC for non CRZ area of SEZ vide their letter no. 21-1084/2007-IA-III dated 17.03.2010 and M/s. DSL is also submitting the compliance report of EC regularly to the concerned regulatory authorities. 

Sr. No.	Conditions	Compliance status
		
(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.	**Noted and complied.** M/s. DSL is strictly in compliance with the conditions/recommendations stipulated by GCZMA 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.	**Noted and complied.** M/s. DSL is complying with all the recommendations of EIA/EMP and DMP.
B.	**GENERAL CONDITION**	
(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.	**Noted and complied.** The construction of all the structures in the facility is undertaken as per the regulations of GDCR SEZ and in compliance with all the existing local and central rules and regulations along with incorporating the provisions of the Coastal Regulation Zone Notification, 2011 and 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.	**Abide by the condition** M/s. DSL will carry out changes in the project profile only obtaining necessary approvals from the statutory authorities..
(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.	**Noted.** M/s. DSL has noted the condition and will take precautionary actions to avoid any non-compliance with respect to EC & CRZ clearance.
(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.	**Abide by the condition.** M/s. DSL has taken noted the condition and shall comply with any additional conditions stipulated by statutory authorities, 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	**Noted.** M/s. DSL is/will extended complete support to the officers of the ministry's Integrated Regional Office at Gandhinagar

Sr. No.	Conditions	Compliance status
	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.	and the offices of the central and Gujarat Pollution Control Board for the inspection & monitoring purpose.
6.	These stipulations would be enforces 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.	**Noted & Agreed.**
7.	All other statutory clearance such as 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, as applicable by project proponents from the respective competent authorities.	**Complied.** We have obtained all necessary statutory & regulatory clearance from the concerned authorities.
8.	The project proponent should advertise in at least two local Newspapers widely circulated I the region, one of which shall be in the vernacular language informing that the project has been accorded Environment Clearance and copies of clearance letters are available with the Gujarat Pollution Control Board and may also sent to the website of the Ministry of Environment and Forest at https://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.	We have already published the advertisement in two local newspapers after obtaining the EC from MoEF&CC as below: **Vernacular language (Gujarati)** Name of the publication: 11.10.2014 Date of publication: Divya Bhashkar (Bharuch Edition) **Other language (English)** Name of publication: Times of India (Ahmedabad Edition) Date of publication: 11.10.2014

Sr. No.	Conditions	Compliance status
		 Dahej SEZ Limited Village: Dahej, Taluka: Vagra, Dist. Bharuch, State-Gujarat. NOTICE It is to inform to public at a large that CRZ Clearance to the project for Development of Dahej SEZ at Village: Dahej, Taluka: Vagra, District Bharuch, Gujarat State by M/s. Dahej SEZ Limited (SPV of GIDC & ONGC) has been accorded by Govt. of India, Ministry of Environment, Forest and Climate Change (IA-III Section), vide Order No. 11-50/2011-IA. III Dated 19/09/2014. A copy of Clearance letter is available in the Office of Gujarat Pollution Control Board, Gandhinagar, Regional Office of GPCB, Bharuch & may also be seen at website of Ministry of Environment & Forest http://envfor.nic.in Chief Executive Officer Dahej SEZ Limited  મેસર્સ દહેજ એસ.ઇ.ઝેડ લિમીટેડ ગામઃદહેજ,તા.વાગરા,જિ.ભરૂચ(ગુજરાત) સુચના આથી જાહેર જનતાને સૂચિત કરવામાં આવે છે કે મેસર્સ દહેજ એસ. ઈ. ઝેડ લિમીટેડ, ગામઃ દહેજ, તા. વાગરા, જિ.ભરૂચ ખાતે દહેજ એસ.ઈ.ઝેડ ના વિકાસ માટેનાં પ્રોજેક્ટને ભારત સરકારના પર્યાવરણ, વન અને ક્લાઇમેટ ચેન્જ મંત્રાલય તરફથી આદેશ નં. 11-50/2011-IA.III તા. ૧૯, સપ્ટેમ્બર, ૨૦૧૪ થી સીઆરઝેડ ક્લીયરન્સ પાઠવવામાં આવેલ છે. આ મંજુરી પત્રની નકલ ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, ગાંધીનગર તથા ગુજરાત પ્રદુષણ નિયંત્રણ બોર્ડ, સ્થાનિક કચેરી, ભરૂચ ખાતે ઉપલબ્ધ છે. તેમજ પર્યાવરણ અને વનમંત્રાલયની વેબસાઈટ http/envior.nic.in પર પણ જોઈ શકાશે.
9.	This clearance is subject to final order of Hon'ble Supreme Court of India in the matter of GOA Foundation Vs. Union of India in Write Petitio (Civil) No. 460 of 2004 as may be applicable to this project	**Noted.**
10.	Any appeal against this Environmental 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.	**Noted.** There was no appeal raised against the Environment Clearance to National Green Tribunal Act,2010.
11.	A copy of the clearance letter shall be sent by the	**Complied.**

Sr. No.	Conditions	Compliance status
	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.	We have already submitted the copy of Environment Clearance to the concerned authorities and we have also uploaded the copy of EC letter and last submitted compliance report on our website. **Photograph of website**  **Link: http://www.dahejsez.com/ec/**
12.	The proponent shall upload the status of compliance 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 representative Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely, SPM, RSPM, SO2, NOX (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 email) to respective regional Office of MoEF & CC, the respective Zonal office of CPCB and the SPCB.	**Abide by the condition.** We are bounded to provide full co-operation, facilities and documents/data to the officials from Integrated Regional Office, MoEF, Gandhinagar and the respective Zonal office of CPCB and the SPCB. We are also submitting the complete set or as well as email of required documents with EC compliance to Integrated Regional Office, MoEF, Gandhinagar, the respective Zonal office of CPCB and the SPCB every six months as per the condition of Environment Clearance.
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.	We have already submitted the Environment Statement (Form-V) to GPCB for the financial year 2023-2024 as per the mandatory requirement under EPA, 1986, as amended subsequently.