11/29/24, 7:52 PM Home Page

| Your (Half Yearly Compliance Report) has been Submitted with following details | | | |
|--|--|--|--|
| Proposal No | IA/OR/IND/59484/2016 | | |
| Compliance ID | 111302365 | | |
| Compliance Number(For Tracking) | EC/M/COMPLIANCE/111302365/2024 | | |
| Reporting Year | 2024 | | |
| Reporting Period | 01 Dec(01 Apr - 30 Sep) | | |
| Submission Date | 29-11-2024 | | |
| RO/SRO Name | ARTATRANA MISHRA | | |
| RO/SRO Email | jhk109@ifs.nic.in | | |
| State | ODISHA | | |
| RO/SRO Office Address | Integrated Regional Offices, Bhubaneswar | | |
| | | | |





DDSP/MOEFCC/001/2024-135 November 22, 2024.

To,
The Addl. Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office (EZ),
A/3, Chandrasekharpur,
Bhubaneswar - 751 023.

Sub: Submission of six-monthly compliance report of the Environmental clearance for Dalmia DSP unit of M/s Dalmia Cement Bharat Limited, At/Po. – Rajgangpur, Dist.-Sundargarh, Odisha for the period April 2024 to September 2024.

Ref: Environmental Clearance vide File No. J-11011/232/2016- 1A II (I) dated 16.02.2018.

Dear Sir,

With reference to above captioned subject matter, we are submitting herewith the six-monthly compliance report of the conditions laid down in above Environmental clearance for Dalmia DSP unit of M/s Dalmia Cement Bharat Limited, At/Po. – Rajgangpur, Dist. – Sundargarh, Odisha for the period April 2024 to September 2024.

Thanking you,

Yours sincerely,

For Dalmia Cement Bharat Limited,

Ashok Kumar Mishra Head - Environment

Encl: As above.

CC:

1. The Director, Impact Assessment Division, MoEF&CC, New Delhi.

2. The Member Secretary, CPCB, New Delhi.

3. The Member Secretary, OSPCB, Bhubaneswar, Odisha.

Half Yearly Compliance Report 2024 01 Dec(01 Apr - 30 Sep)

Acknowledgement

| Proposal Name | Proposed Cement Plant (Dalmia DSP Unit) - Clinker 3.0 MTPA, Cement 2.25 MTPA, WHRS (15 MW) and DG Set (1000 KVA) by Dalmia Cement Bharat Limited at Village & Tehsil - Rajgangpur, District - Sundargarh, Odisha. |
|-----------------------------------|---|
| Name of Entity / Corporate Office | Dalmia Cement (Bharat) Limited |
| Village(s) | N/A |
| District | SUNDARGARH |

| Proposal No. | IA/OR/IND/59484/2016 | |
|-------------------------------|-------------------------------|--|
| Plot / Survey / Khasra No. | N/A | |
| State | ODISHA | |
| MoEF File No. | J-11011/232/2016-IA.II (I) | |

| Category | Industrial Projects - 2 | |
|---------------------------|-----------------------------------|--|
| Sub-District | N/A | |
| Entity's PAN | ****9414C | |
| Entity name as per PAN | DALMIA CEMENT (BHARAT) LIMITED | |

Compliance Reporting Details

Reporting Year 2024

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Dalmia Cement (Bharat) Limited **Corporate Office**

| | Project Area as per EC Granted | Actual Project Area in Possession |
|--------------|--------------------------------|-----------------------------------|
| Private | 0 | 0.020 |
| Revenue Land | 39.27 | 46.207 |
| Forest | 0 | 0 |
| Others | 0 | 0 |
| Total | 39.27 | 46.227000000000004 |

Production Capacity

| Sr. no | Product Name | units | Valid Upto | Capacity | Production last year | Capacity as per CTO |
|--------|-----------------|----------------------------|------------|----------|----------------------|---------------------|
| 1 | Clinker | Tons per Annum (TPA) | 31/03/2025 | 3000000 | 2068606 | 3900000 |
| 2 | WHRB | MW | 31/03/2025 | 15 | 63951 | 15 |

Conditions

Specific Conditions

| Sr.No. | Condition Type | Condition Details | |
|----------------------|--|---|---|
| 1 | MISCELLANEOUS | 3. The Capital cost Rs. 95.00 Crores and annual recursion 5.00 Crores towards the environmental protection measuremental separately. The funds so provided shall not any other purpose. | sures shall be |
| The fund | ubmission: Complied ds earmarked for environmental protection diverted for any other purpose. | ction measures is used for the specified purpose and | Date: 28/11/2024 |
| 2 | Corporate Environmental Responsibility | 1. An amount of Rs 46.00 Crores proposed towards I Social Commitment (ESC) shall be utilized as capital e project mode. The project shall be completed in concur implementation of the expansion and estimated on the Scheduled Rates. | expenditure in rrence with th |
| ESC ear | ubmission: Being Complied marked funds are being utilized as cap cture development, livelihood and ski | pital expenditure towards education, health, sanitation, ill development initiatives etc. | Date: 28/11/2024 |
| 3 | GREENBELT | Green belt shall be developed in 12.95 Ha equal to 33 area with a native tree species in accordance with CPC. The greenbelt shall inter alia cover the entire periphery. The plantation shall be completed within one year form issue of EC. In addition to this 1500 additional plants swithin the premises. | B guidelines. of the plant. n the date of |
| Green co | ubmission: Complied over has been developed in and around in this year till Sept 2024. | d the plant premises. We have planted around 2349 | Date: 28/11/2024 |
| 4 | WASTE MANAGEMENT | 4. Kitchen waste shall be composted or convened to further use. | biogas for |
| | | | |
| Mechan | | r composting of food and kitchen wastes for further use | Date: 28/11/2024 |
| Mechani in hortic | ical bio-digester has been installed for | r composting of food and kitchen wastes for further use 5. The project proponent shall adopt the slip power refor energy conservation. | 28/11/2024 |
| Mechanin hortic | ical bio-digester has been installed for ulture. ENERGY PRESERVATION | 5. The project proponent shall adopt the slip power refor energy conservation. | 28/11/2024 ecovery system Date: |
| Mechanin hortic | ical bio-digester has been installed for ulture. ENERGY PRESERVATION MEASURES ubmission: Complied | 5. The project proponent shall adopt the slip power refor energy conservation. | Date: 28/11/2024 carried out conservation ted in provide |

| 7 | WATER QUALITY MONITORING AND PRESERVATION | No ground water shall be used for plant & township | | |
|---|---|--|------------------|--|
| | abmission: Complied water is not used for any purpose. | | Date: 28/11/2024 | |

General Conditions

| Sr.No. | Condition Type | Condition Details | |
|------------------|--|--|-----------------------|
| 1 | Statutory compliance | 25 (f) submit six monthly reports on the status of the the stipulated environmental conditions including resumenitored data (both in hard copies as well as by e-ma Regional Office of MoEF&CC, the respective Zonal C and the SPCB: | lts of ail) to the |
| | | g environment monitoring data are submitted to the | Date: 28/11/2024 |
| 2 | Statutory compliance | 25 (g) submit the environmental statement for each for Form-V to the concerned State Pollution Control Boar under the Environment (Protection) Rules. 1986, as an subsequently and put on the website of the company; | d as prescribe |
| Environr | abmission: Complied nental Statement in Form V has periodically on company websi | been submitted to OSPCB on 24.09.2024. The same is ite | Date: 28/11/2024 |
| 3 | Statutory compliance | 25 (h) inform the Regional Office as well as the Min of financial closure and final approval of the project be authorities and the date of commencing the land devel | y the concerne |
| Project e | CTO) from State Pollution Cont | ave obtained consent to establish (CTE) and consent to crol Board, Odisha for the commencement of operation since | Date: 28/11/2024 |
| 4 | MISCELLANEOUS | 26. The Ministry may revoke or suspend the clearance implementation of any of the above conditions is not stated. | |
| PPs Su Noted. | lbmission: Complied | | Date: 28/11/2024 |
| 5 | MISCELLANEOUS | 27. The Ministry reserves the right to stipulate additi if found necessary. The Company in a time bound manimplement these conditions. | |
| | abmission: Complied d will be complied if any from t | time to time. | Date: 28/11/2024 |
| 6 | PUBLIC HEARING | 28. The project proponent shall abide by all the com recommendations made in the EIA/EMP report and th presentation to the EAC. The commitment made by the | at during their |

| | Submission: Complied mmitments and recommendations i | made in the EIA/EMP report are being implemented | Date: 28/11/2024 |
|---------------|--|---|---|
| 7 | MISCELLANEOUS | 29. The above conditions shall be enforced. inter-ali provisions of the Water (Prevention & Control of Pol 1974, the Air (Prevention & Control of Pollution) Act Environment (Protection) Act. 1986, Hazardous and (Management and Transboundary Movement) Rules, Public Liability Insurance Act, 1991 along with their and rules. | lution) Act. 1,1981. the Other Wastes 2016 and the |
| PPs Noted. | Submission: Complied | | Date: 28/11/2024 |
| 8 | MISCELLANEOUS | 30. Any appeal against this EC shall lie with the Na Tribunal, if preferred, within a period of 30 days as preferred to 16 of the National Green Tribunal Act. 2010. | |
| PPs Noted | Submission: Complied | | Date: 28/11/2024 |
| 9 | WATER QUALITY MONITORING AND PRESERVATION | 2 (a) Install 24x7 continuous effluents monitoring sydischarge points to monitor treated effluents with resp parameters prescribed in G.S.R. No. 612 (E) dated 25 and subsequent amendment dated 9th May, 2016 and as amended from time to time; S.O.3305 (E) dated 7th 2015 for thermal power plants as amended from time amended from time to time; | pect to th August. 201 10th May 2010 n December |
| Cemer | Submission: Complied nt manufacturing being a dry proceduced back in the cooling circuit and | ss, no such effluent is generated and wastewater generated dust suppression. | Date: 28/11/2024 |
| 10 | AIR QUALITY MONITORING AND PRESERVATION | a. Install 24x7 continuous emission monitoring syst stacks to monitor stack emission with respect to parar prescribed in G.S.R. No. 612 (E) dated 25th August, 2 subsequent amendment dated 10th May, 2016 from ti SO. 3305 (E) dated 7th December 2015 for thermal amended from time to time and connected to CPCB of | neters 2014 and me to time; power plants a |
| Contin | Submission: Complied nuous Emission Monitoring System and are connected to the Board serv | (CEMS) have been installed in all process stacks of our | Date: 28/11/2024 |
| 11 | AIR QUALITY MONITORING AND PRESERVATION | b. Monitor fugitive emissions in the plant premises; | |
| | Submission: Complied we emissions are being regularly me | onitored within plant premises. | Date: 28/11/2024 |
| 12 | AIR QUALITY MONITORING AND PRESERVATION | c. Carryout Continuous Ambient Air Quality monitor National Ambient Air Quality Standards issued by the G.S.R.No. 826(E) dated I6th November 2009 (as ame to time) within and outside the plant area at least at for covering upwind and downwind directions at an angle each; and | e Ministry vide ended from tim our locations |

| Contin | Submission: Complied nuous Ambient Air Quality Monito ons covering upwind and downwind | ring (CAAQM) System have been installed at four d directions. | Date: 28/11/2024 |
|--------|---|---|------------------|
| 13 | AIR QUALITY MONITORING AND PRESERVATION | d. Submit monitoring report to Regional Office of Zonal office of CPCB and Regional Office of SPCB monthly monitoring report. | |
| Six mo | Submission: Complied onthly compliance report along wit ically. The Monitoring Report attacks | th monitored results are submitted to the statutory bodies ched. | Date: 28/11/2024 |
| 14 | WATER QUALITY MONITORING AND PRESERVATION | b) submit monitoring report to Regional Office of Zonal office of CPCB and Regional Office of SPCB monthly monitoring report. | |
| Six mo | Submission: Complied onthly compliance report along wit ically. | h monitored data are submitted to statutory bodies | Date: 28/11/2024 |
| 15 | AIR QUALITY MONITORING AND PRESERVATION | a) Provide appropriate Air Pollution Control (APC the dust generating points including fugitive dust fro sources; | |
| Air Po | Submission: Complied ollution Control (APC) devices have towers. | e been installed at major dust generating points including | Date: 28/11/202 |
| 16 | AIR QUALITY MONITORING AND PRESERVATION | b) Design suitable capacity of bag filters to handle 150% of the normal flow from process/ from suction achieve particulate emission to less than 30 mg/N m | hoods to |
| | Submission: Complied nately sized bag filters have been in | estalled to control the PM emissions below 30 mg/Nm3. | Date: 28/11/202 |
| 17 | AIR QUALITY MONITORING AND PRESERVATION | c) Provide leakage detection and mechanized bag of for better maintenance of bags: | eleaning facilit |
| | Submission: Complied Bag Houses are provided with leal | kage detection and mechanized bag cleaning facilities. | Date: 28/11/202 |
| 18 | AIR QUALITY MONITORING AND PRESERVATION | d) Provide pollution control system in the cement p CREP Guidelines of CPCB; | plant as per the |
| | Submission: Complied ion control measures as recommend | ded in CREP guidelines for Cement Plant is being adhered | Date: 28/11/202 |
| 19 | AIR QUALITY MONITORING AND PRESERVATION | e) Provide sufficient number of mobile or stationer cleaners to clean plant roads, shop floors, roofs regu | |
| | · | · | Date: |

| 20 | AIR QUALITY MONITORING AND PRESERVATION | f) Recycle and reuse lime fines. coal fines and such collected in the pollution control devices and vacuum devices in the process after agglomeration; | |
|--------|--|---|------------------|
| Lime a | Submission: Complied and coal fines collected in the pollument possible. | tion control devices are recycled and reused to the | Date: 28/11/2024 |
| 21 | AIR QUALITY MONITORING AND PRESERVATION | g) Use leak proof trucks/dumpers for carrying coal a materials and shall cover them with tarpaulin. Use clos carrying fly ash; | |
| Trucks | Submission: Complied sused for carrying coal and other ray rakes are used for fly ash transpor | aw materials are covered with tarpaulin. Closed bulkers and rtation. | Date: 28/11/2024 |
| 22 | AIR QUALITY MONITORING AND PRESERVATION | h) Provide wind shelter fence and chemical spraying material stock piles: | on the raw |
| | Submission: Complied barriers have been provided near ra | w material stock piles. | Date: 28/11/2024 |
| 23 | AIR QUALITY MONITORING AND PRESERVATION | i) Provide Low NOx burners to control NOx emissio calibration of the instruments must be ensured. If need be controlled by using SCR/NSCR technologies: | |
| | Submission: Complied Ox burners have been installed to c | control NOx emissions. | Date: 28/11/2024 |
| 24 | AIR QUALITY MONITORING AND PRESERVATION | j) Have separate truck parking area and monitor vehi at regular interval. | cular emissio |
| | Submission: Complied cated truck parking area has been p | provided and vehicular emissions are monitored. | Date: 28/11/2024 |
| 25 | WATER QUALITY MONITORING AND PRESERVATION | a) Adhere to "zero liquid discharge"; | |
| Cemer | Submission: Being Complied nt manufacturing is a dry process, an on/surface run off. | nd zero liquid discharge is being adhered to except | Date: 28/11/2024 |
| 26 | WATER QUALITY MONITORING AND PRESERVATION | b) Provide Sewage Treatment Plant for domestic was | stewater |
| | Submission: Complied stic wastewater is treated in Sewage | e Treatment Plant. | Date: 28/11/2024 |
| 27 | WATER QUALITY MONITORING AND PRESERVATION | c) Provide garland drains and collection pits for each arrest the run-off in the event of heavy rains and to che pollution due to surface run off. | |

| | Submission: Complied drains with collection pits are provid | ed at stockpile area. | Date: 28/11/2024 |
|---------|---|---|------------------|
| 28 | WATER QUALITY MONITORING AND PRESERVATION | a) Practice rainwater harvesting to maximum possil | ole extent; |
| | Submission: Complied ter harvesting system has been installed | ed in concrete roof buildings. | Date: 28/11/2024 |
| 29 | WATER QUALITY MONITORING AND PRESERVATION | b) Provide water meters at the inlet to all unit procecement plants: | esses in the |
| | Submission: Complied meters are in place at the inlet to all un | nit processes in the plant. | Date: 28/11/2024 |
| 30 | WATER QUALITY MONITORING AND PRESERVATION | c) Make efforts to minimize water consumption in complex by segregation of used water, practicing cas recycling treated water. | |
| Water c | Submission: Complied conservation efforts are practised to mirecycled water | inimize the freshwater consumption by maximizing the | Date: 28/11/2024 |
| 31 | ENERGY PRESERVATION MEASURES | 6 (a) provide Waste heat recovery system for kiln a | nd cooler; |
| | Submission: Complied Heat Recovery System has been install | led for power generation. | Date: 28/11/2024 |
| 32 | ENERGY PRESERVATION MEASURES | 6 (b) make efforts to achieve power consumption le units/tonne for Portland Pozzolona Cement (PPC) and for Ordinary Portland Cement (OPC) production and consumption of 670 Kcal/Kg of clinker; | d 85 units/tonne |
| | Submission: Complied are being made to lower the power and | d thermal energy consumption within the stipulated | Date: 28/11/2024 |
| 33 | ENERGY PRESERVATION MEASURES | 6 (c) provide solar power generation on roof tops of solar light system for all common areas, street lights. project area and maintain the same regularly; | |
| | Submission: Complied AW Solar power system has been insta | alled. | Date: 28/11/2024 |
| 34 | ENERGY PRESERVATION MEASURES | 6 (d) provide the project proponent for LED lights and residential areas: | n their offices |
| | Submission: Complied ghts are used in offices as well as resid | lential areas. | Date: 28/11/2024 |
| 35 | ENERGY PRESERVATION MEASURES | 6 (e) maximize utilization of fly ash, slag and swee blend as per BIS standards; | tener in cement |

| | Submission: Complied num utilization of fly ash as well as sla | g is done in the cement blend. | Date: 28/11/2024 |
|--------|--|---|-----------------------------------|
| 36 | ENERGY PRESERVATION MEASURES | 6 (f) maximize utilization of alternate fuels and Coachieve best practice norms. | o-processing to |
| | Submission: Complied occessing of Hazardous wastes as alternated | ate fuels and raw mix is carried out. | Date: 28/11/2024 |
| 37 | Human Health Environment | 7. Efforts shall be made to reduce impact of the transaction and end products on the surrounding envir agricultural land by the use of covered conveyor be mode of transport. | ronment includi |
| Raw m | Submission: Complied naterial from our captive mines to the conveyor (CCBC). | rement plant is transported through cross-country closed | Date: 28/11/2024 |
| 38 | WASTE MANAGEMENT | 8. Used refractories shall be recycled as far as pos | sible. |
| | Submission: Complied refractories are recycled to the maximu | m extent possible. | Date: 28/11/2024 |
| 39 | GREENBELT | 9. The PP shall prepare GHG emissions inventory shall submit the program for reduction of the same is sequestration including plantation. | |
| GHG e | Submission: Being Complied emissions inventory for the plant is in part the fuel consumption. Plantation is ca | place and maximum use of RDF as fuel is done to rried out on a regular basis. | Date: 28/11/2024 |
| 40 | Risk Mitigation and Disaster Management | 10. Emergency preparedness plan based on the Ha identification and Risk Assessment (HIRA) and Dis Management Plan shall be implemented. | |
| Emerg | Submission: Complied tency Preparedness Plan based on HIR. conducted at regular intervals to check | A and DMP is implemented at site along with mock the efficiency of the same. | Date: 28/11/202 |
| 41 | Human Health Environment | 11. The PP shall Carry-out heat stress analysis for who work in high temperature work zone and provide Protection Equipment (PPE) as per the norms of Factorian Equipment (PPE). | de Personal |
| PPEs h | Submission: Complied nave been made mandatory job specific in high temperature zone. | c and heat stress analysis carried out for workmen | Date: 28/11/2024 |
| 42 | Statutory compliance | 12. The PP shall adhere to the corporate environment system of the reporting of any infringements/ non-conditions at least once in a year to the Board of Discopy of the board resolution shall be submitted to the part of six-monthly report. | ompliance of E rectors and the |
| | | | Date: |

| 43 | Corporate Environmental Responsibility | 13. All the recommendations made in the Charter on Responsibility for Environment Protection (CREP) for plants shall be implemented. | |
|--------|---|--|---|
| | Submission: Complied commendations made in the CREP gui | idelines for Cement Plant are being adhered to. | Date: 28/11/2024 |
| 44 | Statutory compliance | 14. A dedicated environmental cell with qualified per established. The head of the environment cell shall rep the head of the organization. | |
| An En | Submission: Complied vironmental Cell with qualified personate Head. | nnel is in place with Head of Cell directly reporting to | Date: 28/11/2024 |
| 45 | Human Health Environment | 15. Provision shall be made for the housing of construction within the site with all necessary infrastructure and facture fuel for cooking. mobile toilets, mobile STP, Safe drin medical health care. creche etc. The housing may be in temporary structures to be removed after the completic project. | ilities such as king water. the form of |
| | Submission: Complied sary basic infrastructure was provided | to workers and labour during the construction phase. | Date: 28/11/2024 |
| 46 | Statutory compliance | 16. The project authorities must strictly adhere to the made by the State Pollution Control Board and the State | |
| | Submission: Complied and will be adhered to from time to ti | me. | Date: 28/11/2024 |
| 47 | Statutory compliance | 17. No further expansion or modifications in the plan carried out without prior approval of the Ministry of Erforests and Climate Change (MoEF&CC). | |
| | | een carried out without obtaining prior approval from the | Date: 28/11/2024 |
| 48 | WASTE MANAGEMENT | 18. The waste oil, grease and other hazardous shall b as per the Hazardous & Other waste (Management & Movement) Rules, 2016. | |
| Waste | Submission: Complied Oil, Grease and other Hazardous was nd amendments thereof. | tes are handled and disposed off as per HOWM Rules | Date: 28/11/2024 |
| 49 | Risk Mitigation and Disaster Management | 19. The storage of NH3 and other hazardous chemical shall be as per the provisions of Manufacture, Storage Hazardous Chemical Rules, 1989 as amended from times. | and Import of |
| Noted. | Submission: Complied NH3 and other Hazardous Chemicals as per storage rules. | s are being stored properly in designated and earmarked | Date: 28/11/2024 |
| | Noise Monitoring & Prevention | 20. The ambient noise levels should conform to the s prescribed under EPA Rules. 1989 viz. 75 dB(A) during | |

| | Submission: Complied bient noise levels monitored are well | I within the stipulated norms. | Date: 28/11/2024 |
|---------|---|---|--|
| 51 | Human Health Environment | 21. Occupational health surveillance of the workers on a regular basis and records maintained as per the F | |
| The hea | Submission: Complied alth surveillance of the workers as we ned as per Factories Act. | ell as executives is done periodically, and records are | Date: 28/11/2024 |
| 52 | MISCELLANEOUS | 22. The project proponent shall also comply with al environmental protection measures and safeguards re the EIA/EMP report. | |
| | | feguards recommended in EIA/EMP report are | Date: 28/11/2024 |
| 53 | Human Health Environment | 23. Ventilation system shall be designed for adequate per ACGIH document for all tunnels, motor houses, or plants. | |
| Ventila | Submission: Complied tion system has been designed for adg plants. | equate air changes in all tunnels, motor houses, cement | Date: 28/11/2024 |
| 54 | WASTE MANAGEMENT | 24. Sufficient number of colour coded waste collect constructed at shop floors in each hop to systematical store waste materials generated at the shop floors (oth waste) in designated colored bins for value addition be reuse of such wastes and for good housekeeping. | lly segregate ar ner than Proces |
| Wastes | Submission: Complied other than process wastes collected fa good housekeeping practice. | from shop floors are segregated and stored in color coded | Date: 28/11/2024 |
| 55 | Statutory compliance | 25 (a) send a copy of environmental clearance letter Local Bodies, Panchayat, Municipal bodies and relev the Government: | |
| | | e submitted to heads of local bodies and relevant Govt. | Date: 28/11/2024 |
| 56 | Statutory compliance | 25 (b) put on the clearance letter on the web site of access to the Public. | the company for |
| | Submission: Complied nmental Clearance Letter has been up | ploaded and made available on company website. | Date: 28/11/2024 |
| 57 | Statutory compliance | 25 (c) inform the public through advertisement with from the date of issue of the clearance letter, at least in newspapers that are widely circulated in the region of be in the vernacular language that the project has bee environmental clearance by the Ministry and copies of letter are available with the SPCB and may also be set the Ministry of Environment. Forests and Climate Ch (MoEF&CC) at http://envfor.nic.in. | n two local which one shan accorded of the clearance en at Website |

| The gra | Submission: Complied ant of Environmental Clearance to Today and Manthan dated 22.02. | the project was advertised in two local newspaper i.e. 2018. | Date: 28/11/2024 | | | |
|---|---|---|----------------------------|--|--|--|
| 58 Statutory compliance 25 (d) upload the status of compliance of the stipulated environm clearance conditions. including results of monitored data on their website and update the same periodically | | | | | | |
| | _ | long with the environment monitoring data are uploaded | Date: 28/11/2024 | | | |
| 59 | Statutory compliance | 25 (e) monitor the criteria pollutants Level namely NOx (ambient levels as well as stack emissions) or c parameters indicated for the projects and display the convenient location for disclosure to the public and p website of the company; | ritical sectoral same at a | | | |
| Stack e | Submission: Complied missions as well as ambient air quaded on company website. | nality are monitored and results displayed in public as well | Date: 28/11/2024 | | | |

| Visit Remarks | | | | | |
|------------------------------|---|--|--|--|--|
| Last Site Visit Report Date: | N/A | | | | |
| Additional Remarks: | The detailed environment monitoring report for the period of April 2024 to September 2024 is attached as additional attachment. | | | | |

Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

APRIL 2024 - SEPTEMBER 2024

FOR

DALMIA CEMENT BHARAT LIMITED

At/Po: RAJGANGPUR - 770017, District: SUNDARGARH, ODISHA



Prepared By:

Cleenviron Private Limited

PLOT NO: 689/17, INDUSTRIAL ESTATE, KALUNGA – 770031, ROURKELA, ODISHA Tele: 0661 – 2475746

Email:cleenviron@gmail.com

1. DATA ANALYSIS

1.1 Micro-meteorological Study:

1.1.1 Wind Speed & Wind Direction

During the entire period from 1st April to 30th September all total 4392 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 6.85%, while considering the 24 hourly data. 7.41% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 9.53% calm condition prevailed from 14hrs to 22hrs and 3.34% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from NE, NE, SE & NE with average wind speed 3.79 m/sec. The wind rose diagram for the entire study period are depicted on the **Figure No: 1.1, 1.2, 1.3 & 1.4.**

1.1.2 Temperature

The maximum & minimum temperature during the entire study period were divided in to two parts as the study period was covering summer as well as monsoon seasons. The Minimum temperature during the summer season was found to be 16.52°C and the Maximum temperature was found to be 44.23°C up to the end of 30th June.

The minimum and maximum temperature during the monsoon season i.e. from July to September was found to be 23.45°C and 36.50°C. **Table No 1.1** shows a summary of micro-meteorological data collected for the entire period.

1.1.3 Rainfall

The total rain fall from 1st April to 30th September was observed to be 749.9 mm. during the study period. A month wise rainfall data recorded at the site is depicted in **Table No 1.1.**

Table No: 1.1

A SUMMARY OF THE MICRO-METEOROLOGICAL DATA

Project Site

Lanjiberna Limestone & Dolomite Mines

Location

Magazine Hill Top

| SI No | Parameters | From April – September 2024 | | | |
|-------|----------------------------|-----------------------------|--|--|--|
| 1 | Predominant Wind Direction | From NE, NE, NE & SE | | | |
| 2 | Calm Condition % | 6.85% | | | |
| 3 | Average Wind Speed m/sec | 3.79 | | | |
| 4 | Temperature °C | | | | |
| | Summer Season | | | | |
| | Minimum | 16.52 | | | |
| | Maximum | 44.23 | | | |
| | Monsoon Season | | | | |
| | Minimum | 23.45 | | | |
| | Maximum | 36.50 | | | |
| 5 | Rain Fall in mm | | | | |
| k. | April | 10.2 | | | |
| | May | 56.6 | | | |
| | June | 145.7 | | | |
| | July | 120.4 | | | |
| | August | 273.4 | | | |
| | September | 143.6 | | | |
| | Total | 749.9 | | | |

Figure No: 1.2 Wind Rose Diagram for 24 Hours

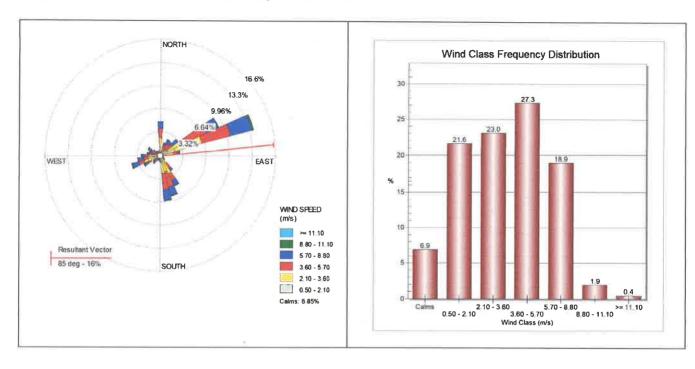


Figure No: 1.2 Wind Rose Diagram from 06 – 14 Hours

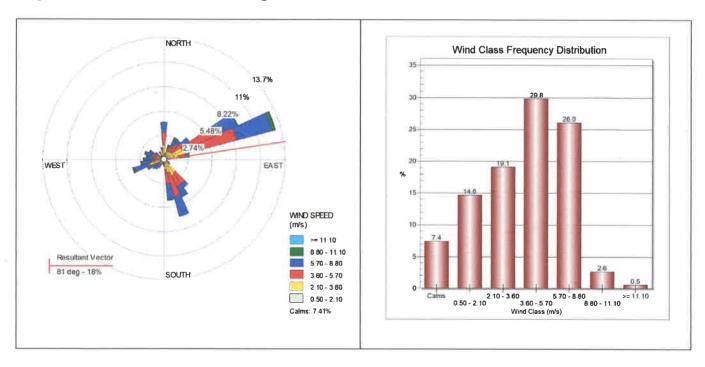


Figure No: 1.3 Wind Rose Diagram from 14 – 22 Hours

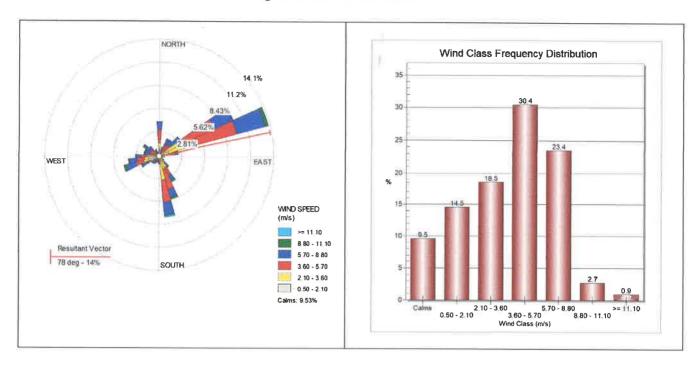


Figure No: 1.4 Wind Rose Diagram from 22 – 06 Hours

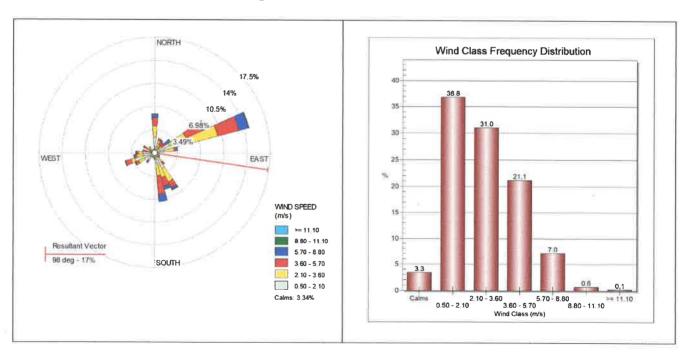


Table No: 1

AMBIENT AIR QUALITY DATA From 01.04.2024 to 30.09.2024

Station: A-1 (Konark Vihar Area)

| PORTS IN THE ROOM | PM2.5 | PM10 | SO ₂ | NO ₂ | СО |
|-------------------|-------|-------|-----------------|-----------------|-------|
| Months | μg/m³ | μg/m³ | μg/m³ | μg/m³ | mg/m³ |
| April | 23 | 67 | 04 | 25 | < 0.1 |
| | 25 | 73 | 03 | 22 | < 0.1 |
| | 22 | 62 | 05 | 29 | < 0.1 |
| | 29 | 78 | 07 | 30 | < 0.1 |
| | 26 | 71 | 07 | 28 | < 0.1 |
| | 20 | 69 | 03 | 30 | < 0.1 |
| | 24 | 67 | 04 | 35 | < 0.1 |
| | 27 | 79 | 06 | 27 | < 0.1 |
| May | 21 | 70 | 18 | 19 | < 0.1 |
| | 27 | 71 | 08 | 25 | < 0.1 |
| | 21 | 60 | 07 | 20 | < 0.1 |
| | 23 | 63 | 04 | 18 | < 0.1 |
| | 23 | 60 | 03 | 12 | < 0.1 |
| | 22 | 65 | 05 | 26 | < 0.1 |
| | 24 | 62 | 06 | 22 | < 0.1 |
| | 28 | 84 | 06 | 22 | < 0.1 |
| | 26 | 70 | 04 | 25 | < 0.1 |
| June | 23 | 74 | 05 | 20 | < 0.1 |
| | 28 | 82 | 04 | 25 | < 0.1 |
| | 24 | 72 | 03 | 25 | < 0.1 |
| | 26 | 78 | 06 | 22 | < 0.1 |
| | 27 | 85 | 06 | 25 | < 0.1 |
| | 25 | 70 | 07 | 23 | < 0.1 |
| | 22 | 73 | 08 | 26 | < 0.1 |
| | 27 | 80 | 05 | 28 | < 0.1 |
| July | 24 | 70 | 05 | 22 | < 0.1 |
| | 23 | 64 | 04 | 20 | < 0.1 |
| | 15 | 50 | 06 | 22 | < 0.1 |
| | 20 | 57 | 04 | 23 | < 0.1 |
| | 23 | 60 | 05 | 28 | < 0.1 |
| | 26 | 68 | 06 | 23 | < 0.1 |
| | 21 | 62 | 03 | 18 | < 0.1 |
| | 19 | 58 | < 03 | 19 | < 0.1 |
| | 22 | 69 | 03 | 20 | < 0.1 |
| August | 18 | 49 | 04 | 30 | < 0.1 |
| 4 | 11 | 32 | 07 | 24 | < 0.1 |
| | 18 | 56 | 03 | 32 | < 0.1 |
| 193 | 20 | 64 | 03 | 19 | < 0.1 |
| | 21 | 61 | 03 | 22 | < 0.1 |
| | 11 | 33 | 03 | 26 | < 0.1 |
| | 17 | 47 | 03 | 16 | < 0.1 |
| | 22 | 63 | 03 | 13 | < 0.1 |

| Months | PM2.5 μg/m³ | PM10 µg/m³ | SO ₂ µg/m³ | NO ₂ µg/m ³ | CO mg/m ³ |
|-----------|----------------|---------------|--------------------------|--------------------------------------|-------------------------|
| | 04 | 11 | 04 | 17 | < 0.1 |
| September | 22 | 62 | 05 | 13 | < 0.1 |
| | 27 | 78 | 09 | 28 | < 0.1 |
| | 18 | 53 | 07 | 21 | < 0.1 |
| | 20 | 57 | 07 | 29 | < 0.1 |
| | 14 | 40 | 06 | 35 | < 0.1 |
| | 22 | 62 | 05 | 21 | < 0.1 |
| | 26 | 73 | 04 | 19 | < 0.1 |
| | 16 | 45 | 08 | 24 | < 0.1 |

Table No: 2

AMBIENT AIR QUALITY DATA From 01.04.2024 to 30.09.2024

Station: A-2 (General Store Area, Line – 1)

| | PM2.5 | PM10 | SO ₂ | NO ₂ | CO |
|---------------|-------|-------|-----------------|-----------------|-------|
| <u>Months</u> | μg/m³ | μg/m³ | μg/m³ | μg/m³ | mg/m³ |
| April | 22 | 64 | 03 | 16 | < 0.1 |
| | 26 | 70 | 05 | 29 | < 0.1 |
| | 28 | 75 | 08 | 30 | < 0.1 |
| | 26 | 77 | 05 | 28 | < 0.1 |
| | 24 | 75 | 06 | 22 | < 0.1 |
| | 24 | 72 | 04 | 32 | < 0.1 |
| | 25 | 70 | 05 | 35 | < 0.1 |
| | 22 | 64 | 06 | 19 | < 0.1 |
| May | 24 | 69 | 06 | 28 | < 0.1 |
| | 20 | 57 | 04 | 15 | < 0.1 |
| | 26 | 73 | 06 | 25 | < 0.1 |
| | 21 | 62 | 08 | 24 | < 0.1 |
| | 23 | 72 | 06 | 19 | < 0.1 |
| | 25 | 62 | 07 | 22 | < 0.1 |
| · | 22 | 69 | 05 | 20 | < 0.1 |
| | 22 | 68 | 06 | 28 | < 0.1 |
| | 23 | 69 | 03 | 25 | < 0.1 |
| June | 22 | 68 | 05 | 28 | < 0.1 |
| | 26 | 73 | 04 | 20 | < 0.1 |
| | 29 | 82 | 04 | 20 | < 0.1 |
| | 25 | 74 | 05 | 22 | < 0.1 |
| | 28 | 84 | 08 | 32 | < 0.1 |
| | 21 | 60 | 06 | 24 | < 0.1 |
| | 24 | 76 | 03 | 26 | < 0.1 |
| | 23 | 77 | 06 | 22 | < 0.1 |
| July | 23 | 66 | < 03 | 16 | < 0.1 |
| | 23 | 68 | 03 | 22 | < 0.1 |
| 9 | 24 | 70 | 04 | 18 | < 0.1 |
| | 22 | 68 | 03 | 22 | < 0.1 |

| | PM2.5 | PM10 | SO ₂ | NO ₂ | CO |
|-----------|-------|-------|-----------------|-----------------|-------|
| Months | µg/m³ | µg/m³ | µg/m³ | µg/m³ | mg/m³ |
| | 26 | 73 | 05 | 20 | < 0.1 |
| | 25 | 74 | 05 | 18 | < 0.1 |
| | 21 | 60 | 06 | 19 | < 0.1 |
| | 20 | 60 | 04 | 17 | < 0.1 |
| | 27 | 75 | 06 | 21 | < 0.1 |
| August | 10 | 25 | 04 | 14 | < 0.1 |
| | 11 | 31 | 05 | 34 | < 0.1 |
| | 06 | 20 | 07 | 17 | < 0.1 |
| | 21 | 61 | < 03 | 11 | < 0.1 |
| | 19 | 41 | 03 | 29 | < 0.1 |
| | 24 | 69 | 03 | 18 | < 0.1 |
| | 13 | 44 | 03 | 29 | < 0.1 |
| | 25 | 68 | 06 | 20 | < 0.1 |
| | 24 | 67 | 03 | 27 | < 0.1 |
| September | 12 | 36 | 04 | 19 | < 0.1 |
| | 20 | 57 | 04 | 17 | < 0.1 |
| | 22 | 61 | 04 | 15 | < 0.1 |
| | 24 | 69 | 04 | 17 | < 0.1 |
| | 13 | 36 | 04 | 27 | < 0.1 |
| | 26 | 74 | 05 | 21 | < 0.1 |
| | 28 | 80 | 07 | 24 | < 0.1 |
| | 10 | 26 | 06 | 19 | < 0.1 |

Table No: 3

AMBIENT AIR QUALITY DATA

From 01.04.2024 to 30.09.2024

Station: A-3 (Material Gate, DSP Unit)

| Months | PM2.5 μg/m ³ | PM10 µg/m³ | SO₂ µg/m³ | NO ₂ µg/m³ | CO mg/m ³ |
|--------|----------------------------|---------------|--------------|--------------------------|-------------------------|
| April | 27 | 81 | 07 | 25 | < 0.1 |
| | 29 | 83 | 03 | 19 | < 0.1 |
| | 23 | 70 | 05 | 21 | < 0.1 |
| | 34 | 82 | 08 | 25 | < 0.1 |
| | 30 | 85 | 04 | 28 | < 0.1 |
| | 28 | 79 | 06 | 29 | < 0.1 |
| | 28 | 72 | 05 | 37 | < 0.1 |
| | 29 | 82 | 07 | 22 | < 0.1 |
| May | 27 | 77 | 07 | 29 | < 0.1 |
| | 29 | 83 | 07 | 24 | < 0.1 |
| | 28 | 76 | 08 | 27 | < 0.1 |
| | 29 | 83 | 08 | 28 | < 0.1 |
| | 25 | 69 | 08 | 32 | < 0.1 |
| | 26 | 70 | 06 | 20 | < 0.1 |
| | 30 | 86 | 05 | 22 | < 0.1 |
| | 26 | 85 | 07 | 25 | < 0.1 |

| | PM2.5 | PM10 | SO ₂ | NO ₂ | CO |
|-----------|-------|-------|-----------------|-----------------|-------|
| Months | µg/m³ | μg/m³ | µg/m³ | µg/m³ | mg/m³ |
| | 27 | 79 | 05 | 28 | < 0.1 |
| June | 26 | 78 | 06 | 22 | < 0.1 |
| | 28 | 80 | 06 | 25 | < 0.1 |
| | 27 | 81 | 07 | 25 | < 0.1 |
| | 30 | 81 | 04 | 22 | < 0.1 |
| | 32 | 88 | 09 | 28 | < 0.1 |
| | 29 | 83 | 05 | 20 | < 0.1 |
| | 25 | 76 | 03 | 19 | < 0.1 |
| | 28 | 82 | 08 | 26 | < 0.1 |
| July | 25 | 72 | 03 | 21 | < 0.1 |
| | 27 | 77 | 04 | 28 | < 0.1 |
| | 22 | 67 | 05 | 24 | < 0.1 |
| | 25 | 72 | 04 | 22 | < 0.1 |
| | 27 | 77 | 03 | 20 | < 0.1 |
| | 23 | 68 | 05 | 25 | < 0.1 |
| | 26 | 70 | 06 | 23 | < 0.1 |
| | 24 | 66 | 03 | 25 | < 0.1 |
| | 26 | 70 | 06 | 23 | < 0.1 |
| August | 10 | 29 | 09 | 27 | < 0.1 |
| | 14 | 39 | 03 | 10 | < 0.1 |
| | 13 | 39 | 03 | 46 | < 0.1 |
| | 17 | 47 | 06 | 32 | < 0.1 |
| | 14 | 40 | 03 | 26 | < 0.1 |
| | 16 | 47 | 04 | 17 | < 0.1 |
| | 20 | 58 | 03 | 18 | < 0.1 |
| | 23 | 67 | 04 | 19 | < 0.1 |
| | 19 | 55 | 03 | 36 | < 0.1 |
| September | 19 | 52 | 04 | 18 | < 0.1 |
| | 14 | 39 | 07 | 22 | < 0.1 |
| 2 | 20 | 59 | 03 | 25 | < 0.1 |
| | 23 | 66 | 03 | 25 | < 0.1 |
| | 21 | 61 | 08 | 46 | < 0.1 |
| | 28 | 79 | 09 | 28 | < 0.1 |
| | 23 | 68 | 08 | 33 | < 0.1 |
| | 11 | 32 | 04 | 18 | < 0.1 |

Table No: 4

AMBIENT AIR QUALITY DATA

From 01.04.2024 to 30.09.2024

Station: A-4 (Near Refractory Main Gate)

| Months | PM2.5 µg/m³ | PM10 µg/m³ | SO ₂ µg/m ³ | NO₂ µg/m³ | CO mg/m ³ |
|--------|----------------|---------------|--------------------------------------|--------------|-------------------------|
| April | 28 | 84 | 08 | 23 | < 0.1 |
| | 32 | 88 | 06 | 30 | < 0.1 |
| | 27 | 82 | 05 | 29 | < 0.1 |

| | PM2.5 | PM10 | SO ₂ | NO₂ | CO |
|-----------|-------|-------|-----------------|-------|-------------------|
| Months | µg/m³ | µg/m³ | µg/m³ | μg/m³ | mg/m ³ |
| | 30 | 84 | 09 | 29 | < 0.1 |
| | 30 | 85 | 09 | 35 | < 0.1 |
| | 25 | 79 | 04 | 26 | < 0.1 |
| | 30 | 85 | 06 | 35 | < 0.1 |
| | 24 | 76 | 05 | 20 | < 0.1 |
| May | 29 | 86 | 04 | 15 | < 0.1 |
| | 28 | 73 | 06 | 26 | < 0.1 |
| | 24 | 71 | 07 | 26 | < 0.1 |
| | 29 | 80 | 07 | 32 | < 0.1 |
| | 26 | 77 | 04 | 19 | < 0.1 |
| | 25 | 75 | 08 | 30 | < 0.1 |
| - | 27 | 72 | 03 | 20 | < 0.1 |
| | 23 | 70 | 06 | 21 | < 0.1 |
| | 27 | 76 | 05 | 22 | < 0.1 |
| June | 28 | 83 | 05 | 25 | < 0.1 |
| | 26 | 77 | 05 | 20 | < 0.1 |
| | 28 | 83 | 05 | 25 | < 0.1 |
| | 24 | 77 | 04 | 28 | < 0.1 |
| | 27 | 78 | 04 | 22 | < 0.1 |
| | 25 | 70 | 06 | 22 | < 0.1 |
| | 27 | 79 | 07 | 26 | < 0.1 |
| | 26 | 79 | 03 | 24 | < 0.1 |
| July | 28 | 78 | 04 | 20 | < 0.1 |
| | 25 | 74 | 06 | 24 | < 0.1 |
| | 26 | 72 | 06 | 20 | < 0.1 |
| | 23 | 66 | 04 | 20 | < 0.1 |
| | 24 | 68 | 05 | 24 | < 0.1 |
| | 23 | 70 | 06 | 22 | < 0.1 |
| | 23 | 64 | 03 | 26 | < 0.1 |
| | 12 | 65 | 04 | 23 | < 0.1 |
| | 27 | 76 | 03 | 21 | < 0.1 |
| August | 25 | 72 | 05 | 19 | < 0.1 |
| | 24 | 70 | 05 | 19 | < 0.1 |
| | 10 | 29 | 05 | 20 | < 0.1 |
| | 20 | 57 | 04 | 21 | < 0.1 |
| | 15 | 42 | 04 | 22 | < 0.1 |
| | 21 | 60 | 05 | 20 | < 0.1 |
| | 06 | 18 | 04 | 18 | < 0.1 |
| | 21 | 59 | 04 | 13 | < 0.1 |
| | 17 | 49 | 03 | 31 | < 0.1 |
| September | 23 | 66 | 04 | 19 | < 0.1 |
| | 24 | 70 | 03 | 21 | < 0.1 |
| | 24 | 68 | 03 | 22 | < 0.1 |
| | 25 | 67 | 05 | 18 | < 0.1 |
| | 25 | 71 | 04 | 33 | < 0.1 |
| | 19 | 55 | 04 | 21 | < 0.1 |
| | 24 | 69 | 03 | 22 | < 0.1 |
| | 20 | 58 | 07 | 25 | < 0.1 |

Table No: 5

AMBIENT AIR QUALITY DATA From 01.04.2024 to 30.09.2024

Station: A-5 (B. G Loco Gate, Line – 1)

| | PM2.5 | PM10 | SO ₂ | NO ₂ | CO |
|---------------|-------|-------|-----------------|-----------------|-------|
| <u>Months</u> | μg/m³ | μg/m³ | μg/m³ | μg/m³ | mg/m³ |
| April | 28 | 81 | 04 | 29 | < 0.1 |
| | 26 | 75 | 03 | 32 | < 0.1 |
| | 30 | 83 | 05 | 27 | < 0.1 |
| | 28 | 72 | 06 | 30 | < 0.1 |
| | 25 | 72 | 04 | 26 | < 0.1 |
| | 27 | 79 | 06 | 28 | < 0.1 |
| | 29 | 78 | 04 | 29 | < 0.1 |
| | 26 | 76 | 07 | 28 | < 0.1 |
| May | 24 | 76 | 03 | 11 | < 0.1 |
| | 23 | 75 | 04 | 18 | < 0.1 |
| | 21 | 60 | 08 | 26 | < 0.1 |
| | 27 | 79 | 07 | 25 | < 0.1 |
| | 26 | 78 | 04 | 23 | < 0.1 |
| | 25 | 72 | 05 | 27 | < 0.1 |
| | 22 | 65 | 06 | 20 | < 0.1 |
| | 28 | 80 | 04 | 29 | < 0.1 |
| | 30 | 87 | 04 | 32 | < 0.1 |
| June | 28 | 75 | 05 | 27 | < 0.1 |
| | 25 | 70 | 03 | 21 | < 0.1 |
| | 25 | 70 | 03 | 21 | < 0.1 |
| | 24 | 85 | 04 | 23 | < 0.1 |
| | 26 | 78 | 04 | 28 | < 0.1 |
| | 22 | 68 | 07 | 26 | < 0.1 |
| | 26 | 78 | 06 | 28 | < 0.1 |
| | 27 | 80 | 05 | 24 | < 0.1 |
| July | 24 | 70 | 04 | 15 | < 0.1 |
| | 22 | 65 | 03 | 19 | < 0.1 |
| | 23 | 67 | 04 | 25 | < 0.1 |
| | 25 | 71 | 06 | 21 | < 0.1 |
| | 26 | 68 | 05 | 18 | < 0.1 |
| | 25 | 72 | 06 | 22 | < 0.1 |
| | 20 | 60 | < 03 | 16 | < 0.1 |
| | 21 | 62 | 05 | 16 | < 0.1 |
| | 19 | 55 | 03 | 20 | < 0.1 |
| August | 24 | 69 | 08 | 30 | < 0.1 |
| | 10 | 27 | 03 | 13 | < 0.1 |
| | 24 | 68 | 06 | 20 | < 0.1 |
| | 24 | 68 | 08 | 28 | < 0.1 |
| | 08 | 23 | < 03 | 17 | < 0.1 |
| | 11 | 31 | 04 | 16 | < 0.1 |
| | 19 | 55 | 04 | 18 | < 0.1 |
| | 18 | 51 | 03 | 27 | < 0.1 |

| Months | PM2.5 μg/m³ | PM10 µg/m³ | SO₂ µg/m³ | NO ₂ µg/m³ | CO mg/m ³ |
|-----------|----------------|---------------|--------------|--------------------------|-------------------------|
| | 21 | 61 | 03 | 19 | < 0.1 |
| September | 12 | 35 | 04 | 11 | < 0.1 |
| | 24 | 67 | 04 | 28 | < 0.1 |
| | 20 | 57 | 04 | 19 | < 0.1 |
| | 16 | 47 | 05 | 21 | < 0.1 |
| | 12 | 36 | 04 | 25 | < 0.1 |
| | 24 | 68 | 03 | 30 | < 0.1 |
| | 17 | 47 | 04 | 30 | < 0.1 |
| | 15 | 43 | 04 | 16 | < 0.1 |

Table No: 6

AMBIENT AIR QUALITY DATA From 01.04.2024 to 30.09.2024

Station: A-6 (Workshop Area, Line – 2)

| Manda | PM2.5 | PM10 | SO ₂ | NO ₂ | СО |
|--------------|-------------------------|-------------|-----------------|-------------------------|-------|
| Months April | μg/m ³ 24 | μg/m³ 70 | μg/m³ 06 | μg/m ³ 21 | mg/m³ |
| Дрії | 30 | 81 | 08 | 25 | < 0.1 |
| | 28 | | | | < 0.1 |
| | | 83 | 07 | 24 | < 0.1 |
| | 31 | 79 | 08 | 24 | < 0.1 |
| | 26 | 78 | 05 | 30 | < 0.1 |
| | 25 | 73 | 07 | 32 | < 0.1 |
| | 25 | 78 | 03 | 36 | < 0.1 |
| | 24 | 68 | 06 | 27 | < 0.1 |
| May | 24 | 68 | 04 | 19 | < 0.1 |
| | 25 | 73 | 08 | 26 | < 0.1 |
| | 29 | 81 | 06 | 18 | < 0.1 |
| | 22 | 65 | 08 | 28 | < 0.1 |
| | 25 | 76 | 06 | 23 | < 0.1 |
| | 23 | 70 | 05 | 22 | < 0.1 |
| | 26 | 72 | 04 | 20 | < 0.1 |
| | 27 | 73 | 05 | 22 | < 0.1 |
| | 26 | 78 | 05 | 29 | < 0.1 |
| June | 28 | 72 | 05 | 22 | < 0.1 |
| | 25 | 74 | 06 | 25 | < 0.1 |
| | 26 | 75 | 04 | 20 | < 0.1 |
| | 24 | 70 | 03 | 18 | < 0.1 |
| | 24 | 73 | 05 | 22 | < 0.1 |
| | 23 | 69 | 08 | 23 | < 0.1 |
| | 27 | 73 | 07 | 21 | < 0.1 |
| | 29 | 80 | 06 | 28 | < 0.1 |
| July | 21 | 65 | 04 | 18 | < 0.1 |
| · | 20 | 58 | 05 | 20 | < 0.1 |
| | 24 | 68 | 03 | 20 | < 0.1 |
| | 22 | 66 | 05 | 24 | < 0.1 |
| | 25 | 78 | 03 | 28 | < 0.1 |

| Months | PM2.5 μg/m³ | PM10 µg/m³ | SO₂ µg/m³ | NO₂ µg/m³ | CO mg/m³ |
|-----------|----------------|---------------|--------------|--------------|-------------|
| | 23 | 67 | 06 | 19 | < 0.1 |
| _ | 26 | 73 | 08 | 25 | < 0.1 |
| | 22 | 63 | 04 | 20 | < 0.1 |
| | 24 | 70 | 07 | 22 | < 0.1 |
| August | 23 | 72 | 07 | 26 | < 0.1 |
| | 24 | 67 | 05 | 20 | < 0.1 |
| | 07 | 19 | 05 | 32 | < 0.1 |
| | 23 | 67 | 07 | 33 | < 0.1 |
| | 17 | 48 | 05 | 16 | < 0.1 |
| | 09 | 27 | 04 | 29 | < 0.1 |
| | 23 | 66 | 03 | 27 | < 0.1 |
| | 21 | 60 | 05 | 29 | < 0.1 |
| | 23 | 66 | 03 | 27 | < 0.1 |
| September | 21 | 60 | 05 | 21 | < 0.1 |
| | 21 | 60 | 07 | 24 | < 0.1 |
| | 17 | 49 | 04 | 25 | < 0.1 |
| | 21 | 60 | 07 | 21 | < 0.1 |
| | 18 | 51 | 04 | 21 | < 0.1 |
| | 24 | 69 | 05 | 19 | < 0.1 |
| | 22 | 64 | 03 | 31 | < 0.1 |
| | 11 | 30 | 03 | 27 | < 0.1 |

Table No 7:

STACK EMISSION MONITORING RESULTS

| | | PM | SO ₂ | NO ₂ | Hg |
|--|---|--------------------|--------------------|-------------------|---------------|
| | | mg/Nm ³ | mg/Nm ³ | mg/Nm³ | mg/Nm |
| Months April | Coal Mill – 1 Bag Filter | 15 | - | - | 19 |
| | Cooler ESP – 1 | 24 | * | :#: | 8 4 8. |
| | Location of sampling mg/Nm³ mg/Nm³ Coal Mill – 1 Bag Filter 15 Cooler ESP – 1 24 CVRM – 1 Bag Filter 05 CVRM – 2 Bag Filter 08 Coal Mill – 2 Bag Filter 06 Cooler ESP – 2 08 Kiln & VRM ESP – 1 10 Kiln & VRM – 2 RABH 08 Boiler 1 & 2 ESP Stack 32 Clinker Cooler Attached To ESP (DSP Unit) 16 Coal Mill Attached To Bag Filter (DSP Unit) 06 Kiln & Raw Mill RABH (DSP Unit) 08 Coal Mill – 1 Bag Filter 08 Coal Mill – 1 Bag Filter 06 CVRM – 1 Bag Filter 06 CVRM – 2 Bag Filter 07 CVRM – 3 Bag Filter 05 Coal Mill – 2 Bag Filter 05 Coal Mill – 2 Bag Filter 18 Cooler ESP – 2 12 | 7. | 3 | (-); | |
| | CVRM – 2 Bag Filter | 07 | = | - | |
| | CVRM – 3 Bag Filter | 08 | | 1961 | 560 |
| | Coal Mill – 2 Bag Filter | 06 | | | 3.53 |
| | Cooler ESP – 2 | 08 | 120 | | = 1 |
| | Kiln & VRM ESP – 1 | 10 | 26.71 | 230.29 | :•0 |
| | Kiln & VRM – 2 RABH | 08 | 14.62 | 197.53 | 17.0 |
| | Boiler 1 & 2 ESP Stack | 32 | 484.36 | 211.65 | < 0.02 |
| | Clinker Cooler Attached To ESP (DSP Unit) | 16 | y=2 | | :*: |
| | Coal Mill Attached To Bag Filter (DSP Unit) | 06 | 17 4 1 | - | - |
| | Kiln & Raw Mill RABH (DSP Unit) | 08 | 61.08 | 173.01 | - |
| April Coal Mill – 1 Bag Filter Cooler ESP – 1 CVRM – 1 Bag Filter CVRM – 2 Bag Filter CVRM – 3 Bag Filter Coal Mill – 2 Bag Filter Cooler ESP – 2 Kiln & VRM ESP – 1 Kiln & VRM – 2 RABH Boiler 1 & 2 ESP Stack Clinker Cooler Attached To ESP (DSP Unit) Coal Mill Attached To Bag Filter (DSP Unit) Kiln & Raw Mill RABH (DSP Unit) Kiln & Raw Mill RABH (DSP Unit) Cooler ESP – 1 CVRM – 1 Bag Filter CVRM – 2 Bag Filter CVRM – 3 Bag Filter Cooler ESP – 2 | 08 | 08 | 9 | 27.) | |
| | Cooler ESP – 1 | 19 | 19 | (4) | 2 |
| | CVRM – 1 Bag Filter | 06 | 06 | = | |
| | CVRM – 2 Bag Filter | 07 | 07 | (4) | - |
| | CVRM – 3 Bag Filter | 05 | 05 | 999 | 94 |
| | Coal Mill – 2 Bag Filter | 18 | 18 | 53/ | - |
| | Cooler ESP – 2 | 12 | 12.00 | 14 0 | - |
| | Kiln & VRM ESP – 1 | 07 | 48.82 | 235.96 | * |

| Months | Location of sampling | PM mg/Nm ³ | SO ₂ mg/Nm ³ | NO ₂ mg/Nm ³ | Hg mg/Nr |
|------------|--|--------------------------|---------------------------------------|---------------------------------------|---------------|
| THE STREET | Kiln & VRM – 2 RABH | 04 | 29.30 | 206.7 | 11.911 |
| | Boiler 1 & 2 ESP Stack | 10 | 452.95 | 224.2 | < 0.0 |
| | Clinker Cooler Attached To ESP(DSP Unit) | 27 | 102.00 | | 10.0 |
| | Coal Mill Attached To Bag Filter(DSP Unit) | 17 | - | | |
| | Kiln & Raw Mill RABH (DSP Unit) | 08 | 51.84 | 167.6 | 1.5 |
| June | Coal Mill – 1 Bag Filter | 07 | - 01.01 | 107.0 | - |
| | Cooler ESP – 1 | 16 | | 16 | 2 |
| | CVRM – 1 Bag Filter | 09 | | (= : | |
| | CVRM – 2 Bag Filter | 08 | | | |
| | CVRM – 3 Bag Filter | 06 | 2 | | _ |
| | Coal Mill – 2 Bag Filter | 21 | | (** | - |
| | Cooler ESP – 2 | 24 | | | - |
| | Kiln & VRM ESP – 1 | 07 | 31.71 | 270.62 | |
| | Kiln & VRM – 2 RABH | 06 | 41.44 | 213.14 | _ |
| | | 22 | 469.44 | 304.35 | < 0.0 |
| | Boiler 1 & 2 ESP Stack Clinker Cooler Attached To ESP(DSP Unit) | 06 | 409.44 | | - |
| | Coal Mill Attached To Bag Filter(DSP Unit) | 18 | - | (#) | 741 |
| | | 07 | - 57.07 | 450.00 | |
| luhi | Kiln & Raw Mill RABH (DSP Unit) | 14 | 57.87 | 159.60 | |
| July | Coal Mill – 1 Bag Filter Cooler ESP – 1 | L. | - | 9番) | (#3 |
| | | 19 | 7. | 3% | |
| | CVRM – 1 Bag Filter | 11 | <u> </u> | | |
| | CVRM – 2 Bag Filter | 09 | - | 2#4 | :=: |
| | CVRM – 3 Bag Filter | 06 | - | 1,41 | :=0: |
| | Coal Mill – 2 Bag Filter | 21 | - | - | |
| | Cooler ESP – 2 | 19 | * | 390 | :=: |
| | Kiln & VRM ESP – 1 | 12 | 41.83 | 193.74 | :=: |
| | Kiln & VRM – 2 RABH | 06 | 61.7 | 232.48 | - |
| | Boiler 1 & 2 ESP Stack | 09 | 444.88 | 265.37 | < 0.0 |
| | Clinker Cooler Attached To ESP(DSP Unit) | 14 | | | 1.00 |
| | Coal Mill Attached To Bag Filter(DSP Unit) | 06 | 7: | | ~ |
| | Kiln & Raw Mill RABH (DSP Unit) | 15 | 25.44 | 167.99 | |
| August | Coal Mill – 1 Bag Filter | 18 | /= | | |
| | Cooler ESP – 1 | 28 | | · · | - |
| | CVRM – 1 Bag Filter | 12 | H | :#C | |
| | CVRM – 2 Bag Filter | 09 | - | • | • |
| | CVRM – 3 Bag Filter | 23 | = | (a) | 2 |
| | Coal Mill – 2 Bag Filter | 25 | * | 2.5 | 150 |
| | Cooler ESP – 2 | 08 | = | * | |
| | Kiln & VRM ESP – 1 | 12 | 47.26 | 222.32 | |
| | Kiln & VRM 2 RABH | 10 | 38.61 | 201.35 | |
| | Boiler 1 & 2 ESP Stack | 34 | 460.66 | 319.51 | < 0.0 |
| | Clinker Cooler Attached To ESP(DSP Unit) | 24 | 5 | 5 = 3 | : • 05 |
| | Coal Mill Attached To Bag Filter(DSP Unit) | 08 | ¥ | - | *) |
| | Kiln & Raw Mill RABH (DSP Unit) | 21 | 41.42 | 180.30 | :=0 |
| September | Coal Mill – 1 Bag Filter | 06 | | | |
| | Cooler ESP – 1 | 15 | 7.6 | N 1¥1 | Eq. |
| | CVRM – 1 Bag Filter | 11 | × | (16) | 190 |
| | CVRM – 2 Bag Filter | 10 | ě | | - |
| | CVRM – 3 Bag Filter | 06 | | (#) | - |

| Months | Location of sampling | PM mg/Nm³ | SO ₂ mg/Nm ³ | NO ₂ mg/Nm ³ | Hg mg/Nm ³ |
|--------|--|--------------|---------------------------------------|---------------------------------------|--------------------------|
| | Coal Mill – 2 Bag Filter | 26 | - | <u>u</u> : | 0.50 |
| | Cooler ESP – 2 | 08 | - | a) | 1,40 |
| | Kiln & VRM ESP – 1 | 16 | 28.71 | 157.30 | ₹. |
| | Kiln & VRM – 2 RABH | 10 | 45.54 | 200.19 | - |
| | Boiler 1 & 2 ESP Stack | 19 | 434.26 | 307.44 | < 0.02 |
| | Clinker Cooler Attached To ESP(DSP Unit) | 21 | • | | 8#8 |
| | Coal Mill Attached To Bag Filter(DSP Unit) | 12 | 2 | - | |
| | Kiln & Raw Mill RABH (DSP Unit) | 09 | 18.06 | 171.60 | 3.00 |

Table No 8:

GROUND WATER QUALITY RESULT FOR THE MONTH OF APRIL 2024

| SI | Parameter | | | Results Obta | nined | | Unit | Permissible Limit in absence of |
|----|--|--------------------------------|----------------------------------|---------------------------|---------------------------------|-------------------------------------|-----------|---|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL DailyMarket | Tube Well Village Rani Bandha | | Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 3.1 | 3.5 | 5.2 | 0.60 | 0.10 | NTU | 5.0 |
| 2 | pH Value | 7.09 | 6.62 | 6.83 | 6.89 | 6.56 | | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 448.8 | 175.44 | 333.25 | 375.16 | 167.28 | mg/i | 600 |
| 4 | Iron (as Fe) | 0.10 | 0.14 | 0.28 | 0.19 | 0.11 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 267.07 | 15.76 | 73.91 | 57.16 | 42.38 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 1094 | 238 | 546 | 550 | 266 | mg/l | 2000 |
| 7 | Electrical Conductivity | 1843 | 377 | 868 | 873 | 422 | µS/cm | :#): |
| 8 | Calcium (as Ca) | 89.94 | 44.15 | 81.44 | 121.01 | 47.42 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 54.53 | 15.86 | 31.60 | 17.85 | 11.89 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 166.64 | 21.11 | 91.54 | 103.69 | 25.34 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | 40.12 | 3.93 | 8.73 | 16.64 | 6.23 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 408 | 148 | 216 | 204 | 132 | mg/l | 600 |
| 15 | Acidity | 46 | 20 | 28 | 32 | 28 | mg/l | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 39.02 | 4.73 | 33.99 | 18,68 | 8.09 | mg/l | 0.00 |
| 18 | Potassium (as K) | 3.18 | 2.26 | 1.33 | 3.18 | 1.30 | mg/l | - |
| 19 | Fluoride (as F) | 0.90 | 0.90 | 1.0 | 0.90 | 0.50 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND ND | ND ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND . | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | mg/i | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/i | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 1102011 | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 31 | Temperature | 24.7 | 24.6 | 24.3 | 24.7 | 24,3 | °C | Agreeable |
| 32 | Residual Free Chlorine | 0.26 | 0.18 | 0.21 | 0.19 | 0.20 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 9: GROUND WATER QUALITY RESULT FOR THE MONTH OF MAY 2024

| SI No | Parameter | | | Results Obtai | ined | , " - t | Unit | Permissible Limit in absence of |
|----------|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-----------|---|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 3.1 | 2.4 | 4.2 | 0.80 | 1.6 | NTU | 5.0 |
| 2 | pH Value | 7.20 | 6.72 | 6.80 | 6.99 | 6.56 | 12 | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 170.69 | 134.41 | 345.44 | 333.25 | 146.30 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.07 | 0.28 | 0.26 | 0.29 | 0.09 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 15.76 | 19.71 | 57.16 | 62.08 | 34.49 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 239 | 200 | 478 | 546 | 246 | mg/l | 2000 |
| 7 | Electrical Conductivity | 408 | 328 | 747 | 848 | 390 | µS/cm | * |
| 8 | Calcium (as Ca) | 53.75 | 45.61 | 81.44 | 81.44 | 45.61 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 8.88 | 5.01 | 34.56 | 31,60 | 7.89 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 30.18 | 17.10 | 40.64 | 90.19 | 23.67 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | < 2.20 | 3.98 | 3.46 | 5.92 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 100 | 96 | 228 | 232 | 108 | mg/l | 600 |
| 15 | Acidity | 04 | 28 | 46 | 40 | 38 | mg/l | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 17.56 | 8.06 | 24.08 | 34.11 | 10.46 | mg/l | |
| 18 | Potassium (as K) | 2.32 | 1.61 | 2.76 | 2.99 | 0.89 | mg/l | |
| 19 | Fluoride (as F) | 0.70 | 1.0 | 0.90 | 1.0 | 0.60 | mg/l | 1,5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 2 | Agreeable |
| 31 | Temperature | 30.4 | 30.1 | 30.3 | 30.6 | 30.2 | °C | |
| 32 | Residual Free Chlorine | 0.09 | 0.14 | 0.76 | 0.24 | 0.16 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 10: GROUND WATER QUALITY RESULT FOR THE MONTH OF JUNE 2024

| SI No | Parameter | | | Results Obtai | ned | WE EVE | Unit | Permissible Limit in absence of |
|----------|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-------|--|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 2.4 | 2.4 | 3.9 | 0.70 | 1.4 | NTU | 5.0 |
| 2 | pH Value | 6.69 | 6.86 | 6.62 | 6.87 | 6.49 | * | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 390.14 | 532.38 | 316.99 | 256.03 | 134.41 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.20 | 0.21 | 0.26 | 0.24 | 0.26 | mg/l | 0.3 |
| 5 | Chlorides (as Cl) | 56.17 | 260.17 | 50.26 | 46.32 | 21.68 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 523 | 996 | 470 | 436 | 184 | mg/l | 2000 |
| 7 | Electrical Conductivity | 853 | 1651 | 779 | 675 | 328 | µS/cm | * |
| 8 | Calcium (as Ca) | 89.58 | 182.43 | 79.81 | 68.41 | 45.61 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 40.48 | 18.76 | 28.64 | 14.81 | 5.01 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 81.04 | 134.70 | 89.11 | 79.10 | 16.10 | mg/l | 400 |

| SI No | Parameter | | | Results Obtai | ned | | Unit | Permissible Limit in absence of | |
|----------|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-----------|---|--|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 | |
| 13 | Total Nitrate (as NO ₃) | 25.95 | 30.14 | 3.58 | 5.49 | 3.98 | mg/l | 45 | |
| 14 | Total Alkalinity (as CaCO ₃) | 200 | 308 | 180 | 200 | 132 | mg/l | 600 | |
| 15 | Acidity | 26 | 20 | 14 | 24 | 28 | mg/l | - | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 | |
| 17 | Sodium (as Na) | 26.82 | 47.24 | 34.41 | 20.19 | 8.99 | mg/l | Tes | |
| 18 | Potassium (as K) | 0.95 | 3.18 | 1.15 | 0.79 | 1.62 | mg/l | = | |
| 19 | Fluoride (as F) | 1.0 | 0.80 | 1.0 | 0.90 | 0.70 | mg/l | 1.5 | |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | mg/l | 0.003 | |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | mg/i | 0.05 | |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 | |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | mg/l | 0.02 | |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 | |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 | |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable | |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | - 72 | Agreeable | |
| 31 | Temperature | 29.6 | 32.7 | 32.6 | 31.6 | 30.2 | °C | • | |
| 32 | Residual Free Chlorine | 0.19 | 0.16 | 0.20 | 0.32 | 0.12 | mg/l | 1.0 (min) | |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |

Table No 11:
GROUND WATER QUALITY RESULT FOR THE MONTH OFJULY 2024

| SI | Parameter | 1 | | Results Obtai | ned | | Unit | Permissible Limit in absence of | |
|-----|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-------|---|--|
| 110 | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 | |
| 1 | Turbidity | 3.1 | 2.9 | 4.1 | 0.50 | 0.40 | NTU | 5.0 | |
| 2 | pH Value | 6.80 | 6.67 | 6.96 | 6.93 | 6.55 | · · | 6.5 - 8.5 | |
| 3 | Total Hardness (as CaCO ₃) | 522.19 | 174.06 | 311.69 | 380.51 | 206.45 | mg/l | 600 | |
| 4 | Iron (as Fe) | 0.24 | 0.11 | 0.24 | 0.19 | 0.22 | mg/l | 0.3 | |
| 5 | Chlorides (as CI) | 201.55 | 11.74 | 35.22 | 51.86 | 32.29 | mg/l | 1000 | |
| 6 | Total Dissolved Solids | 891 | 214 | 426 | 492 | 250 | mg/l | 2000 | |
| 7 | Electrical Conductivity | 1396 | 342 | 705 | 795 | 401 | µS/cm | | |
| 8 | Calcium (as Ca) | 194.69 | 47.05 | 74.63 | 116.82 | 51.91 | mg/l | 200 | |
| 9 | Magnesium (as Mg) | 8.85 | 13.77 | 30.49 | 21.64 | 18.68 | mg/l | 100 | |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 | |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 | |
| 12 | Sulfate (as SO ₄) | 150.29 | 13.01 | 64.11 | 81.16 | 21.46 | mg/l | 400 | |
| 13 | Total Nitrate (as NO ₃) | 40.24 | 3.93 | 5.49 | 23.09 | 2.23 | mg/l | 45 | |
| 14 | Total Alkalinity (as CaCO ₃) | 252 | 128 | 176 | 164 | 112 | mg/l | 600 | |
| 15 | Acidity | 36 | 10 | 12 | 16 | 16 | mg/l | | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 | |
| 17 | Sodium (as Na) | 39.42 | 8.40 | 35.52 | 30.36 | 13.54 | mg/l | | |
| 18 | Potassium (as K) | 2.10 | 2.64 | 2.49 | 1.49 | 1.20 | mg/l | (€) | |
| 19 | Fluoride (as F) | 0.90 | 0.70 | 1.0 | 1.0 | 0.40 | mg/l | 1.5 | |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | mg/l | 0.003 | |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 | |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | mg/l | 0.02 | |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 | |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 | |

| SI No | Parameter | | | Unit | Permissible Limit in absence of | | | |
|----------|------------------------|-----------|-----------|-----------|---------------------------------|-----------|-----------|-----------|
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | (H) | Agreeable |
| 31 | Temperature | 30.3 | 30.4 | 30.4 | 30.4 | 30.4 | °C | - |
| 32 | Residual Free Chlorine | 0.32 | 0.20 | 0.28 | 0,26 | 0.19 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 12:

GROUND WATER QUALITY RESULT FOR THE MONTH OF AUGUST 2024

| Si | Parameter | | | Results Obta | ined | | Unit | Permissible Limit in absence of | |
|----|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-----------|---|--|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 | |
| 1 | Turbidity | 3.8 | 2.5 | 4.4 | 0.40 | 0.40 | NTU | 5.0 | |
| 2 | pH Value | 6.64 | 6.79 | 6.76 | 6.78 | 6.66 | • | 6.5 - 8.5 | |
| 3 | Total Hardness (as CaCO ₃) | 425.04 | 137.63 | 275.26 | 352.18 | 210.49 | mg/l | 600 | |
| 4 | Iron (as Fe) | 0.22 | 0.22 | 0.10 | 0.29 | 0.29 | mg/l | 0.3 | |
| 5 | Chlorides (as CI) | 79.25 | 21.53 | 45.01 | 54.79 | 31.31 | ma/l | 1000 | |
| 6 | Total Dissolved Solids | 568 | 220 | 435 | 492 | 252 | mg/l | 2000 | |
| 7 | Electrical Conductivity | 901 | 360 | 692 | 770 | 410 | µS/cm | - | |
| 8 | Calcium (as Ca) | 84.37 | 47.05 | 71.39 | 110.33 | 53.54 | ma/l | 200 | |
| 9 | Magnesium (as Mg) | 52.14 | 4.92 | 23.61 | 18.69 | 18.69 | ma/l | 100 | |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 | |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 | |
| 12 | Sulfate (as SO ₄) | 104.26 | 19.20 | 62.48 | 80.16 | 23.34 | mg/l | 400 | |
| 13 | Total Nitrate (as NO ₃) | 29.91 | 3.46 | 4.43 | 10.85 | < 2.20 | mg/l | 45 | |
| 14 | Total Alkalinity (as CaCO ₃) | 196 | 112 | 208 | 192 | 108 | mg/l | 600 | |
| 15 | Acidity | 20 | 22 | 30 | 24 | 16 | mg/l | 16: | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 | |
| 17 | Sodium (as Na) | 14.96 | 8.52 | 27.94 | 21.20 | 13.49 | mg/l | \@) | |
| 18 | Potassium (as K) | 2.52 | 1.74 | 2.24 | 1.34 | 1.56 | mg/l | :-: | |
| 19 | Fluoride (as F) | 0.70 | 0.97 | 0.76 | 0.84 | 0.49 | mg/l | 1,5 | |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | mg/l | 0.003 | |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 | |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | mg/l | 0.02 | |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 | |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 | |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | - | Agreeable | |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | - | Agreeable | |
| 31 | Temperature | 26.9 | 28.1 | 26.9 | 26.9 | 28.1 | °C | / igroodbio | |
| 32 | Residual Free Chlorine | 0.28 | 0.20 | 0.24 | 0.21 | 0.16 | mg/l | 1.0 (min) | |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |

Table No 13:

GROUND WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

| SI No | Parameter | | | Unit | Permissible Limit in absence of | | | |
|----------|-----------|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|----------|---|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 2.9 | 2.7 | 4.4 | 0.30 | 1.4 | NTU | 5.0 |
| 2 | pH Value | 6.59 | 6.63 | 6.62 | 6.89 | 6.78 | <u>u</u> | 6.5 - 8.5 |

| SI No | Parameter | " - u | | Results Obtai | ned | Eq | Unit | Permissible Limit in absence of | |
|----------|--|--------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------------|-----------|---|--|
| | | Tube Well Village Liploi | Tube Well Village Surudihi | Tube Well IT Colony | Tube Well OCL Daily Market Gate | Tube Well Village Ranibandha | | Alternate Source as per IS 10500: 2012 | |
| 3 | Total Hardness (as CaCO ₃) | 504 | 189.50 | 310.46 | 379.01 | 322.56 | mg/l | 600 | |
| 4 | Iron (as Fe) | 0.32 | 0.10 | 0.10 | 0.27 | 0.22 | mg/l | 0.3 | |
| 5 | Chlorides (as CI) | 98.82 | 18.59 | 43.05 | 64.58 | 50.88 | mg/l | 1000 | |
| 6 | Total Dissolved Solids | 794 | 243 | 468 | 567 | 407 | mg/l | 2000 | |
| 7 | Electrical Conductivity | 1349 | 372 | 717 | 871 | 680 | µS/cm | - | |
| 8 | Calcium (as Ca) | 92.11 | 51.71 | 77.56 | 108.27 | 84.03 | ma/l | 200 | |
| 9 | Magnesium (as Mg) | 66.63 | 14.69 | 28.41 | 26.46 | 27.43 | mg/l | 100 | |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1,5 | |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 | |
| 12 | Sulfate (as SO ₄) | 109.41 | 13.82 | 51.02 | 92.25 | 56.55 | mg/l | 400 | |
| 13 | Total Nitrate (as NO ₃) | 40.12 | 3.05 | 5.43 | 20.24 | 3.27 | mg/l | 45 | |
| 14 | Total Alkalinity (as CaCO ₃) | 352 | 148 | 240 | 224 | 160 | mg/l | 600 | |
| 15 | Acidity | 32 | 12 | 16 | 28 | 10 | mg/l | - | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 | |
| 17 | Sodium (as Na) | 24.89 | 7.79 | 26,46 | 20.05 | 20.76 | mg/l | 2.00 | |
| 18 | Potassium (as K) | 9.64 | 2.45 | 11.62 | 10.14 | 2.66 | mg/l | | |
| 19 | Fluoride (as F) | 0.95 | 0.74 | 0.94 | 0.83 | 0.76 | mg/l | 1.5 | |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | mg/l | 0.003 | |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | mg/l | 0.01 | |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ma/l | 0.05 | |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | mg/l | 0.001 | |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ma/l | 0.01 | |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | mg/l | 0.02 | |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | mg/l | 15.0 | |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | mg/l | 0.05 | |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 | |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | - | Agreeable | |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | - | Agreeable | |
| 31 | Temperature | 28.3 | 28.6 | 28.4 | 28.9 | 28.5 | °C | , igi 0000.0 | |
| 32 | Residual Free Chlorine | 0.24 | 0.17 | 0.16 | 0.11 | 0.18 | mg/l | 1.0 (min) | |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent | |

Table No 14:
DRINKING WATER QUALITY RESULT FOR THE MONTH OF APRIL 2024

| SI | Parameter | | | Results | Obtained | | | Unit | Permissible |
|----|--|---|---|---|--|---|---|-------|--|
| No | | General Office Ground Floor drinking water | Drinking Water Point VRM Area (Line – 2) | Atithi Niwas drinking Water (L – 2) | General Office 2 nd Floor Drinking Water Point(Line ~ 1) | Drinking Water Point Near New Weigh Bridge(DSP Unit) | Drinking Water Near CCR Building Canteen (DSP Unit) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 0.80 | 0.60 | 0.20 | 0.10 | 0.90 | 1.1 | NTU | 5.0 |
| 2 | pH Value | 7.46 | 7.60 | 7.79 | 7.79 | 7.28 | 7.73 | | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO₃) | 191.76 | 182.88 | 183.6 | 182.88 | 191.76 | 195.84 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.28 | 0.24 | 0.29 | 0.14 | 0.28 | 0.26 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 36.46 | 20.69 | 19.71 | 18.72 | 8.87 | 21.68 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 282 | 266 | 269 | 235 | 264 | 263 | mg/l | 2000 |
| 7 | Electrical Conductivity | 436 | 415 | 424 | 373 | 416 | 423 | µS/cm | |
| 8 | Calcium (as Ca) | 53.96 | 40.72 | 42.52 | 40.72 | 47.42 | 42.52 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 13.88 | 19.75 | 34.28 | 19.75 | 17.84 | 21.81 | rng/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 18.36 | 18.96 | 19.59 | 12.37 | 19.16 | 19.44 | mg/l | 400 |
| 13 | Total Nitrate (as NO₃) | 2.95 | 3.36 | < 2.20 | < 2.20 | 3.15 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 164 | 172 | 160 | 152 | 184 | 168 | mg/l | 600 |
| 15 | Acidity | 14 | 04 | 10 | < 2.0 | 10 | 10 | mg/l | |
| 16 | Sulphide (as H₂S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 7.41 | 9.27 | 7.48 | 10.31 | 7.44 | 7.45 | mg/l | |
| 18 | Potassium (as K) | 3.27 | 5.24 | 3.43 | 1.56 | 3.35 | 3.28 | mg/l | - |
| 19 | Fluoride (as F) | 0.60 | 0.50 | 0.70 | 0.30 | 0.60 | 0.80 | mg/l | 1.5 |

| SI | Parameter | | 1000 | Results | Obtained | 197 | | Unit | Permissible |
|----|------------------------|---|---|---|--|---|---|-----------|--|
| No | | General Office Ground Floor drinking water | Drinking Water Point VRM Area (Line – 2) | Atithi Niwas drinking Water (L – 2) | General Office 2 rd Floor Drinking Water Point(Line – 1) | Drinking Water Point Near New Weigh Bridge(DSP Unit) | Drinking Water Near CCR Building Canteen (DSP Unit) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/i | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 382 | Agreeable |
| 31 | Temperature | 24.3 | 24.3 | 24.3 | 24.3 | 26.9 | 27.3 | °C | (2) |
| 32 | Residual Free Chlorine | 0.19 | 0.20 | 0.18 | 0.24 | 0.16 | 0.14 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 15:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF MAY 2024

| SI | Parameter | | | Results (| Obtained | | | Unit | Permissible |
|----|--|--|--|---|--|--|---|-----------|--|
| No | | Near Cooler Drinking Water Point(Line 1) | Drinking Water Near CCR Building Canteen(Line - 1) | Workers' CanteenDrinking Water Point (Line - 2) | CCR Building 1st Floor Pantry Room Drinking Water(Line 1) | Drinking Water Point Near Cooler(DSP Unit) | Drinking Water Near General Store (DSP Unit) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 1.0 | 0.10 | 0.10 | 0.10 | 0.10 | 0.80 | NTU | 5.0 |
| 2 | pH Value | 7.57 | 7.56 | 7.36 | 7.75 | 7,40 | 7.54 | :=: | 6.5 – 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 182.88 | 174.75 | 211.33 | 166.62 | 207.26 | 182.88 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.16 | 0.26 | 0.10 | 0.29 | 0.14 | 0.28 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 23.65 | 20.69 | 23.65 | 15.76 | 22.66 | 12.8 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 242 | 240 | 238 | 229 | 248 | 236 | mg/l | 2000 |
| 7 | Electrical Conductivity | 384 | 384 | 377 | 363 | 394 | 393 | µS/cm | |
| 8 | Calcium (as Ca) | 40.72 | 43.97 | 47.24 | 47.24 | 48.86 | 42.35 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 19.75 | 15.79 | 22.71 | 11.84 | 20.74 | 18.76 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 13.56 | 19.46 | 15.49 | 14.24 | 14.68 | 15.29 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | < 2.20 | < 2.20 | < 2.20 | < 2.20 | < 2.20 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 128 | 132 | 108 | 128 | 124 | 132 | mg/l | 600 |
| 15 | Acidity | 18 | < 2.0 | < 2.0 | 06 | < 2.0 | 04 | mg/l | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 8.11 | 4.94 | 11.96 | 4.24 | 12.11 | 4.73 | mg/l | |
| 18 | Potassium (as K) | 3.14 | 1.98 | 3.46 | 2.24 | 3.38 | 2.26 | mg/l | |
| 19 | Fluoride (as F) | 0.60 | 0.70 | 0.30 | 0.60 | 0.40 | 0.50 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 24 | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 31 | Temperature | 30.8 | 30.8 | 30.6 | 30.7 | 30.7 | 30.8 | °C | * |
| 32 | Residual Free Chlorine | 0.11 | 0.19 | 0.16 | 0.14 | 0.14 | 0.20 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 16:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JUNE 2024

| SI | Parameter | | | Results | Obtained | | | Unit | Permissible Limit |
|----|--|-------------------------------|--|--|---|--|--|-----------|---|
| No | | Near CPP Office (Line – 2) | Drinking Water Near Clinker Silo(Line - 1) | Central WorkshopDrinking Water Point (Line - 2) | Near AFR Area Orinking Water Point(Une – 2) | Drinking Water Point Near Workers' Canteen(DSP Unit) | Orinking Water Near Coal Mill (DSP Unit) | | In absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 1.1 | 0.70 | 0.50 | 0.10 | 0.10 | 0.30 | NTU | 5.0 |
| 2 | pH Value | 6.86 | 7.61 | 7.55 | 7.47 | 7.32 | 7.49 | * | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 223.52 | 219.46 | 207.26 | 211.33 | 170.69 | 199.14 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.26 | 0.22 | 0.26 | 0.18 | 0.24 | -0.29 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 20.69 | 19.71 | 18.72 | 16.75 | 21.68 | 22.66 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 324 | 298 | 288 | 243 | 295 | 295 | mg/l | 2000 |
| 7 | Electrical Conductivity | 532 | 495 | 465 | 495 | 506 | 508 | µS/cm | - |
| 8 | Calcium (as Ca) | 50.49 | 58.64 | 47.24 | 47.24 | 53.75 | 45.61 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 23.70 | 17.77 | 21.72 | 22.71 | 8.88 | 20.74 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 44.61 | 18.56 | 21.11 | 29.06 | 49.11 | 20.69 | mg/l | 400 |
| 13 | Total Nitrate (as NO₃) | < 2.20 | 3.62 | 8.35 | 3.93 | < 2.20 | 14.15 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 180 | 180 | 172 | 152 | 153 | 172 | mg/l | 600 |
| 15 | Acidity | 10 | 04 | < 2.0 | 08 | 06 | 08 | mg/l | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 12.92 | 12.84 | 12.61 | 14.62 | 14.26 | 17.11 | mg/l | - |
| 18 | Potassium (as K) | 7.71 | 8.06 | 8.46 | 3.29 | 8.79 | 9.06 | mg/l | 3 |
| 19 | Fluoride (as F) | 0.60 | 0.70 | 0.80 | 0.50 | 0.40 | 0.70 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 3 | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | | Agreeable |
| 31 | Temperature | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | °C | |
| 32 | Residual Free Chlorine | 0.19 | 0.11 | 0.09 | 0.14 | 0.21 | 0.16 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 17:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JULY 2024

| Si | Parameter | N. C. | | Results | Obtained | | 1 | Unit | Permissible |
|----|--|--|---|--|--|---|---|-------|--|
| No | | Drinking Water Near KHD Section Workers' Canteen (Line – 1) | Drinking Water Point Near General Office Ground Floor | Drinking Water Point Near CPP Workers' Canteen(Line – 2) | Drinking Water Point Near Main Gate (Line 2) | Drinking Water Point Near New Weigh Bridge (DSP Unit) | Drinking Water Point Near CCR Building 2nd Floor Pantry Room (DSP Unit)) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 0.20 | 0.10 | 0.20 | 0.20 | 0.30 | 0.40 | NTU | 5.0 |
| 2 | pH Value | 7.49 | 6.79 | 7.75 | 7.46 | 7.84 | 7.83 | 15. | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 287.41 | 230.74 | 214.54 | 222.64 | 384.56 | 234.78 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.16 | 0.11 | 0.29 | 0.27 | 0.22 | 0.26 | mg/i | 0.3 |
| 5 | Chlorides (as CI) | 64.58 | 31.31 | 23.48 | 26.42 | 21.53 | 27.39 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 295 | 293 | 268 | 280 | 274 | 274 | mg/l | 2000 |
| 7 | Electrical Conductivity | 476 | 455 | 442 | 445 | 438 | 443 | µS/cm | |
| 8 | Calcium (as Ca) | 56.79 | 50.29 | 47.05 | 35.69 | 66.52 | 40.56 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 35.41 | 25.58 | 23.61 | 32.46 | 53.11 | 32.46 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |

| SI | Parameter | | | Results | Obtained | | | Unit | Permissible |
|----|--|--|---|--|--|---|---|-----------|--|
| No | | Drinking Water Near KHD Section Workers' Canteen (Line – 1) | Drinking Water Point Near General Office Ground Floor | Drinking Water Point Near CPP Workers' Canteen(Line – 2) | Drinking Water Point Near Main Gate (Line – 2) | Drinking Water Point Near New Weigh Bridge (DSP Unit) | Drinking Water Point Near CCR Building 2 nd Floor Pantry Room (DSP Unit)) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 15.24 | 14.42 | 15.76 | 19.52 | 13.96 | 21.15 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | < 2.20 | < 2.20 | 2.87 | 4.66 | 2.93 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 104 | 180 | 160 | 164 | 100 | 160 | mg/l | 600 |
| 15 | Acidity | 08 | 08 | 08 | 06 | 08 | 06 | mg/l | |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 12.11 | 11.01 | 10.41 | 13.46 | 10.01 | 9.88 | mg/l | 800 |
| 18 | Potassium (as K) | 3.38 | 3.24 | 3.14 | 2.41 | 5.16 | 1.68 | mg/l | 250 |
| 19 | Fluoride (as F) | 0.70 | 0.30 | 0.90 | 0.90 | 0.40 | 0.80 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0,001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | (fail | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 22 | Agreeable |
| 31 | Temperature | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.8 | °C | (*) |
| 32 | Residual Free Chlorine | 0.11 | 0.19 | 0.12 | 0.10 | 0.10 | 0.13 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 18:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF AUGUST 2024

| SI | Parameter | THE REAL PROPERTY. | | Results | Obtained | | | Unit | Permissible |
|----|--|--|---|---|--|--|--|-------|--|
| No | | CCR Building Ground Floor Canteen Drinking Water Point (Line – 1) | Drinking Water Point Near CVRM – 2(Line – 1) | CCR Building 1st Floor Pantry Room Drinking Water Point (Line – 2)) | Workers' Canteen Drinking Water Point (Line – 2) | Drinking Water Point Near New General Store (DSP Unit) | Drinking Water Point Near Cooler Area(DSP Unit) | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 0.10 | 0.10 | 0.10 | 0.90 | 0.10 | 1.0 | NTU | 5.0 |
| 2 | pH Value | 7.63 | 7.52 | 7.92 | 7.96 | 7.66 | 7.78 | * | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 202.4 | 259.07 | 194.30 | 226.69 | 222.64 | 198.35 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.29 | 0.28 | 0.24 | 0.29 | 0.21 | 0.28 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 17.61 | 10.76 | 16.75 | 24.46 | 10.76 | 23.48 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 233 | 330 | 245 | 275 | 241 | 263 | mg/l | 2000 |
| 7 | Electrical Conductivity | 389 | 549 | 389 | 441 | 415 | 424 | µS/cm | × |
| 8 | Calcium (as Ca) | 45.43 | 58.41 | 43.81 | 53.54 | 40.56 | 32.45 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 21.64 | 27.54 | 20.66 | 22.63 | 26.55 | 28.53 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 23.40 | 94.20 | 22.41 | 16.32 | 41.23 | 12.04 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | 3.27 | < 2.20 | 3.05 | 3.19 | < 2.20 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 120 | 124 | 144 | 156 | 128 | 176 | mg/l | 600 |
| 15 | Acidity | 2.0 | 08 | < 2.0 | 08 | 04 | 10 | mg/l | 2 |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 9.76 | 5.79 | 9.42 | 13.41 | 3.49 | 9.94 | mg/l | * |
| 18 | Potassium (as K) | 1.52 | 2.42 | 1.56 | 3.54 | 1.24 | 7.04 | mg/l | |
| 19 | Fluoride (as F) | 0.64 | 0.72 | 0.58 | 0.84 | 0.56 | 0.64 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0,003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | NĎ | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/l | 0.02 |

| SI | Parameter | | | Results | Obtained | No. | | Unit | Permissible |
|----|------------------------|--|---|--|--|--|--|-----------|--|
| No | | CCR Building Ground Floor Canteen Drinking Water Point (Line – 1) | Drinking Water Point Near CVRM – 2(Line – 1) | CCR Building 1sl Floor Pantry Room Drinking Water Point (Line 2)) | Workers' Canteen Drinking Water Point (Line – 2) | Drinking Water Point Near New General Store (DSP Unit) | Drinking Water Point Near Cooler Area(DSP Unit) | mall | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | <u> </u> | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | (F) | Agreeable |
| 31 | Temperature | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | °C | ** |
| 32 | Residual Free Chlorine | 0.11 | 0.09 | 0.14 | 0.11 | 0.19 | 0.20 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

| SI | Parameter | | | Results | Obtained | | -5351 | Unit | Permissible |
|----|--|---|--|--|---|--|--|-----------|--|
| No | | Main Gate Canteen Drinking Water Point(Line – 1) | Drinking Water Point Near General Store Workers' Canteen(Line - 1) | Near AFR Area Drinking Water Point (Line – 2) | CPP Office 2nd Floor Pantry Room Drinking Water Point(Line – 2) | Drinking Water Point Near Workers' Canteen (DSP Unit)) | Drinking Water Point Near Coal Mill Area(DSP Unit | | Limit in absence of Alternate Source as per IS 10500: 2012 |
| 1 | Turbidity | 0.40 | 0.40 | 0.10 | 0.20 | 0.60 | 0.50 | NTU | 5.0 |
| 2 | pH Value | 7.36 | 7.24 | 7.29 | 7.36 | 7.38 | 7.45 | - | 6.5 - 8.5 |
| 3 | Total Hardness (as CaCO ₃) | 217.73 | 205.63 | 201.6 | 209.66 | 217.73 | 225.79 | mg/l | 600 |
| 4 | Iron (as Fe) | 0.29 | 0.28 | 0.16 | 0.14 | 0.22 | 0.26 | mg/l | 0.3 |
| 5 | Chlorides (as CI) | 20.55 | 19.56 | 18.59 | 18.59 | 19.56 | 28.37 | mg/l | 1000 |
| 6 | Total Dissolved Solids | 255 | 243 | 243 | 248 | 248 | 252 | mg/l | 2000 |
| 7 | Electrical Conductivity | 403 | 400 | 378 | 381 | 394 | 408 | μS/cm | 740 |
| 8 | Calcium (as Ca) | 45.25 | 48.48 | 50.09 | 51,71 | 46.86 | 50.09 | mg/l | 200 |
| 9 | Magnesium (as Mg) | 25.48 | 20.57 | 18.62 | 19.59 | 24.49 | 24.49 | mg/l | 100 |
| 10 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 11 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.3 |
| 12 | Sulfate (as SO ₄) | 44.42 | 30.56 | 30.93 | 30.25 | 21.77 | 25.01 | mg/l | 400 |
| 13 | Total Nitrate (as NO ₃) | 3.62 | < 2.20 | 3.93 | < 2.20 | 3.05 | < 2.20 | mg/l | 45 |
| 14 | Total Alkalinity (as CaCO ₃) | 104 | 120 | 116 | 124 | 132 | 120 | mg/l | 600 |
| 15 | Acidity | 04 | 02 | 06 | 02 | 04 | 04 | mg/l | £ |
| 16 | Sulphide (as H ₂ S) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 0.05 |
| 17 | Sodium (as Na) | 7.82 | 7.49 | 8.18 | 7.85 | 7.91 | 7.58 | mg/l | |
| 18 | Potassium (as K) | 2.46 | 2.26 | 3.29 | 3.21 | 3.14 | 3.28 | mg/l | <u> </u> |
| 19 | Fluoride (as F) | 0.89 | 0.51 | 0.50 | 0.74 | 0.82 | 0.65 | mg/l | 1.5 |
| 20 | Cadmium (as Cd) | ND | ND | ND | ND | ND | ND | mg/l | 0.003 |
| 21 | Lead (as Pb) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 22 | Arsenic (as As) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 23 | Mercury (as Hg) | ND | ND | ND | ND | ND | ND | mg/l | 0.001 |
| 24 | Selenium (as Se) | ND | ND | ND | ND | ND | ND | mg/l | 0.01 |
| 25 | Nickel (as Ni) | ND | ND | ND | ND | ND | ND | mg/l | 0.02 |
| 26 | Zinc (as Zn) | ND | ND | ND | ND | ND | ND | mg/l | 15.0 |
| 27 | Total Chromium (as Cr) | ND | ND | ND | ND | ND | ND | mg/l | 0.05 |
| 28 | Colour | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | Hazen | 15 |
| 29 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | 9 | Agreeable |
| 30 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | Agreeable | + | Agreeable |
| 31 | Temperature | 28.5 | 28.5 | 27.9 | 28.4 | 28.7 | 28.8 | °C | - |
| 32 | Residual Free Chlorine | 0.11 | 0.14 | 0.08 | 0.10 | 0.10 | 0.11 | mg/l | 1.0 (min) |
| 33 | Total Bacterial Count | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |
| 34 | E coli | Absent | Absent | Absent | Absent | Absent | Absent | Nos/100ml | Absent |

Table No 20:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF APRIL 2024

| SI | Parameter | | Results (| Obtained | | Unit | Surface Water Quality Standard as per IS: 2296 (Class C) | |
|----|--|---|---|--|-----------------|-----------|--|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | | |
| 1 | pH Value | 7.37 | 7.62 | 7.63 | 8.90 | (9) | 6.5 - 8.5 | |
| 2 | Electrical Conductivity | 799 | 751 | 798 | 49.4 | μS/cm | | |
| 3 | Total Dissolved Solids | 479 | 451 | 478 | 32 | mg/t | 1500 | |
| 4 | Total Hardness (as CaCO ₃) | 265.2 | 285.6 | 281.52 | 28.56 | mg/l | 9 | |
| 5 | Chlorides (as CI) | 62.08 | 64.06 | 64.06 | 3.94 | mg/l | 600 | |
| 6 | Sulfate (as SO ₄) | 61.91 | 57.57 | 56.52 | 1.19 | mg/l | 400 | |
| 7 | Total Nitrate (as NO ₃) | 2.76 | 3.76 | 3.14 | < 2.20 | mg/l | 50 | |
| 8 | Fluoride (as F) | 0.80 | 0.80 | 0.90 | 0.20 | mg/l | 1.5 | |
| 9 | Calcium (as Ca) | 57.23 | 65.41 | 57.23 | 4.91 | mg/l | | |
| 10 | Magnesium (as Mg) | 29.74 | 29.74 | 33.71 | 3.96 | mg/l | | |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 | |
| 12 | Iron (as Fe) | 0.39 | 0.54 | 0.44 | 0.10 | mg/l | 50 | |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | | |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 | |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.2 | |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | • | |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 | |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 | |
| 19 | Hex. Chromium (as Cr ⁺⁶) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 | |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 | |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 | |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | | | |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | 12 | | |
| 24 | Dissolved Oxygen (Min.) | 6.3 | 6.1 | 6.2 | 6.4 | mg/l | 4 | |
| 25 | BOD 5 days at 20°C | 01 | 02 | 02 | 01 | mg/l | 3 | |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 | |
| 27 | Free Carbon Dioxide (as CO ₂) | 14.08 | 8.8 | 10.56 | 7.04 | mg/l | 3 | |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0.012 | < 0.012 | < 0.012 | mg/l | g- | |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.05 | |
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 | |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 | |
| 32 | Total Coliforms | Absent | Absent | Absent | Absent | Nos/100ml | 5000 | |

Table No 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MAY 2024

| SI | Parameter | | Results | Obtained | | Unit | Surface Water Quality | |
|----|--|---|---|--|-----------------|-------|---------------------------------------|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Standard as per IS: 2296 (Class C) | |
| 1 | pH Value | 7.54 | 7.51 | 7.51 | 7.69 | 3 | 6.5 – 8.5 | |
| 2 | Electrical Conductivity | 748 | 740 | 933 | 440 | μS/cm | | |
| 3 | Total Dissolved Solids | 449 | 444 | 560 | 264 | mg/l | 1500 | |
| 4 | Total Hardness (as CaCO ₃) | 264.16 | 276.35 | 345.44 | 199.14 | mg/l | • | |
| 5 | Chlorides (as CI) | 62.08 | 49.28 | 62.08 | 23.65 | mg/l | 600 | |
| 6 | Sulfate (as SO ₄) | 61.91 | 31.62 | 46.29 | 10.75 | mg/l | 400 | |
| 7 | Total Nitrate (as NO ₃) | 3.93 | 3.11 | 2.46 | 2.69 | mg/l | 50 | |
| 8 | Fluoride (as F) | 0.60 | 0.60 | 0.80 | 0.70 | mg/l | 1.5 | |
| 9 | Calcium (as Ca) | 60.26 | 50.49 | 81.44 | 42.35 | mg/l | | |
| 10 | Magnesium (as Mg) | 27.65 | 36.54 | 34.56 | 22.72 | mg/l |) e: | |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 | |
| 12 | Iron (as Fe) | 0.39 | 0.42 | 0.39 | 0.19 | mg/l | 50 | |

| SI | Parameter | | Results | Obtained | | Unit | Surface Water Quality |
|----|--|---|---|--|-----------------|-----------|---------------------------------------|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Standard as per IS: 2296 (Class C) |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | ğ |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.2 |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/I | - |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 |
| 19 | Hex. Chromium (as Cr+6) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | ž. | |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | | Q |
| 24 | Dissolved Oxygen (Min.) | 6.3 | 6.0 | 6.1 | 6.2 | mg/l | 4 |
| 25 | BOD 5 days at 20°C | 01 | 02 | 02 | 01 | mg/i | 3 |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 27 | Free Carbon Dioxide (as CO ₂) | 14.08 | 3.52 | 8.8 | 7.04 | mg/l | 4 |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0.012 | < 0.012 | < 0.012 | mg/l | :=: |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.05 |
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 |
| 32 | Total Coliforms | Absent | Absent | Absent | Absent | Nos/100ml | 5000 |

Table No 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JUNE 2024

| SI | Parameter | | Results (| Obtained | | Unit | Surface Water |
|----|---|---|---|--|--------------|-------|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Quality Standard as per IS: 2296 (Class C) |
| 1 | pH Value | 7.41 | 7.69 | 7.59 | 7.62 | * | 6.5 – 8.5 |
| 2 | Electrical Conductivity | 666 | 748 | 801 | 490 | µS/cm | 150 |
| 3 | Total Dissolved Solids | 400 | 449 | 480 | 299 | mg/l | 1500 |
| 4 | Total Hardness (as CaCO ₃) | 276.35 | 251.97 | 264.16 | 199.14 | mg/l | |
| 5 | Chlorides (as CI) | 48.29 | 45.33 | 52.23 | 21.68 | mg/l | 600 |
| 6 | Sulfate (as SO ₄) | 29.26 | 29.94 | 41.20 | 10.79 | mg/l | 400 |
| 7 | Total Nitrate (as NO ₃) | < 2.20 | 2.69 | 2.39 | 2.24 | mg/l | 50 |
| 8 | Fluoride (as F) | 0.60 | 0.40 | 0.40 | 0.50 | mg/l | 1.5 |
| 9 | Calcium (as Ca) | 50.49 | 68.41 | 60.26 | 43.98 | mg/l | (*) |
| 10 | Magnesium (as Mg) | 36.54 | 19.75 | 27.65 | 21.73 | mg/l | 7.5 |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 12 | Iron (as Fe) | 0.19 | 0.24 | 0.41 | 0.20 | mg/l | 50 |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | (%) |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.2 |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | () |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 |
| 19 | Hex. Chromium (as Cr+6) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | | |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | ē | 15 |
| 24 | Dissolved Oxygen (Min.) | 6.2 | 6.0 | 6.1 | 6.2 | mg/l | 4 |
| 25 | BOD 5 days at 20°C | 01 | 02 | 02 | 01 | mg/l | 3 |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 27 | Free Carbon Dioxide (as CO ₂) | 10.56 | 5.28 | 7.04 | < 0.01 | mg/l | |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0.012 | < 0.012 | < 0.012 | mg/l | ĕ |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.05 |

| Si | Parameter | | Results (| Unit | Surface Water | | |
|----|--|---------|-----------|---------|---------------|-----------|-------|
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 |
| 32 | Total Coliforms | 10 | 100 | 1000 | 100 | Nos/100ml | 5000 |

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JULY 2024

| SI | Parameter | | Results | Obtained | | Unit | Surface Water Quality Standard | |
|----|--|---|---|--|--------------|-----------|-----------------------------------|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | as per IS: 2296 (Class C) | |
| 1 | pH Value | 7.67 | 7.56 | 7.39 | 7.27 | 2 | 6.5 – 8.5 | |
| 2 | Electrical Conductivity | 612 | 623 | 387 | 346 | μS/cm | <u>*</u> | |
| 3 | Total Dissolved Solids | 367 | 374 | 645 | 208 | mg/l | 1500 | |
| 4 | Total Hardness (as CaCO ₃) | 259.07 | 267.16 | 275.26 | 165.96 | mg/l | | |
| 5 | Chlorides (as Cl) | 33.26 | 34.24 | 36.20 | 22.50 | mg/l | 600 | |
| 6 | Sulfate (as SO ₄) | 30.35 | 39.41 | 49.52 | 16.71 | mg/l | 400 | |
| 7 | Total Nitrate (as NO ₃) | 3.40 | 3.0 | 2.98 | 2.76 | mg/l | 50 | |
| 8 | Fluoride (as F) | 0.70 | 0.80 | 0.90 | 1.0 | mg/l | 1.5 | |
| 9 | Calcium (as Ca) | 74.63 | 76.25 | 79.49 | 55.16 | mg/l | | |
| 10 | Magnesium (as Mg) | 17.70 | 18.68 | 18.68 | 6.75 | mg/l | 3 | |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 | |
| 12 | Iron (as Fe) | 0.46 | 0.50 | 0.51 | 0.44 | mg/l | 50 | |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | - | |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 | |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.2 | |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 5 | |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 | |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 | |
| 19 | Hex. Chromium (as Cr+6) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 | |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 | |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 | |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | æ | ÷ | |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | | * | |
| 24 | Dissolved Oxygen (Min.) | 6.3 | 6.2 | 6.1 | 6.2 | mg/l | 4 | |
| 25 | BOD 5 days at 20°C | 01 | 01 | 02 | 01 | mg/l | 3 | |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 | |
| 27 | Free Carbon Dioxide (as CO ₂) | 7.04 | 8.8 | 10.56 | < 0.01 | mg/l | • | |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0.012 | < 0.012 | < 0.012 | mg/l | 3 | |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.05 | |
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 | |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 | |
| 32 | Total Coliforms | 100 | 1000 | 1000 | 100 | Nos/100ml | 5000 | |

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF AUGUST 2024

| SI | Parameter | | Results | Results Obtained | | | | | |
|----|--|---|---|--|--------------|-------|--|--|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Quality Standard as per IS: 2296 (Class C) | | |
| 1 | pH Value | 7.44 | 7.69 | 7.71 | 7.96 | 1,50 | 6.5 – 8.5 | | |
| 2 | Electrical Conductivity | 620 | 649 | 692 | 494 | µS/cm | 3 | | |
| 3 | Total Dissolved Solids | 366 | 389 | 415 | 296 | mg/l | 1500 | | |
| 4 | Total Hardness (as CaCO ₃) | 259.07 | 271.22 | 319.79 | 246.93 | mg/l | # | | |

| SI | Parameter | | Results | Obtained | | Unit | Surface Water |
|----|---|---|---|--|--------------|-----------|--|
| No | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Quality Standard as per IS: 2296 (Class C) |
| 5 | Chlorides (as Cl) | 35.47 | 50.88 | 49.89 | 25.44 | mg/l | 600 |
| 6 | Sulfate (as SO ₄) | 32.17 | 38.42 | 36.64 | 16.04 | mg/l | 400 |
| 7 | Total Nitrate (as NO ₃) | < 2.20 | < 2.20 | 2.88 | 2.67 | mg/l | 50 |
| 8 | Fluoride (as F) | 0.62 | 0.76 | 0.70 | 0.84 | mg/l | 1.5 |
| 9 | Calcium (as Ca) | 74.63 | 63.28 | 79.49 | 55.16 | mg/l | - |
| 10 | Magnesium (as Mg) | 17.70 | 27.54 | 29.51 | 26.56 | mg/l | (#) |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 12 | Iron (as Fe) | 0.51 | 0.57 | 0.56 | 0.18 | mg/l | 50 |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 4V |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.2 |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | £28 |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 |
| 19 | Hex. Chromium (as Cr+6) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | | |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | | (9) |
| 24 | Dissolved Oxygen (Min.) | 6.2 | 6.1 | 6.2 | 6.2 | mg/l | 4 |
| 25 | BOD 5 days at 20°C | 02 | 02 | 02 | 01 | mg/l | 3 |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 27 | Free Carbon Dioxide (as CO ₂) | 8.8 | 14.08 | 10.56 | 7.04 | mg/l | |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0.012 | < 0.012 | < 0.012 | mg/l | |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.05 |
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 |
| 32 | Total Coliforms | 100 | 1000 | 1000 | 100 | Nos/100ml | 5000 |

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

| SI No | Parameter | | Results | Obtained | | Unit | Surface Water |
|-------|--|---|---|--|--------------|-------|---|
| | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | N. T. | Quality Standard as per IS: 2296 (Class C) |
| 1 | pH Value | 7.24 | 7.40 | 7.27 | 7.05 | | 6.5 – 8.5 |
| 2 | Electrical Conductivity | 298 | 321 | 366 | 354 | µS/cm | - |
| 3 | Total Dissolved Solids | 179 | 193 | 220 | 212 | mg/l | 1500 |
| 4 | Total Hardness (as CaCO ₃) | 145.15 | 165.31 | 169.34 | 165.31 | mg/l | * |
| 5 | Chlorides (as Cl) | 15.65 | 13.69 | 17.61 | 12.72 | mg/l | 600 |
| 6 | Sulfate (as SO ₄) | 19.64 | 24.93 | 25.84 | 17.16 | mg/l | 400 |
| 7 | Total Nitrate (as NO ₃) | < 2.20 | < 2.20 | < 2.20 | < 2.20 | mg/l | 50 |
| 8 | Fluoride (as F) | 0.58 | 0.60 | 0.61 | 0.64 | mg/l | 1.5 |
| 9 | Calcium (as Ca) | 37.17 | 42.02 | 38.78 | 38.78 | mg/l | |
| 10 | Magnesium (as Mg) | 12.74 | 14.69 | 17.64 | 16.66 | mg/l | 3 |
| 11 | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 1.5 |
| 12 | Iron (as Fe) | 0.28 | 0.31 | 0.39 | 0.19 | mg/l | 50 |
| 13 | Manganese (as Mn) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | |
| 14 | Zinc (as Zn) | < 0.02 | < 0.02 | < 0.02 | < 0.02 | mg/l | 15 |
| 15 | Total Arsenic (as As) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/i | 0.2 |
| 16 | Mercury (as Hg) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 22 |
| 17 | Lead (as Pb) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 18 | Cadmium (as Cd) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 0.01 |
| 19 | Hex. Chromium (as Cr+6) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |

| SI No | Parameter | | Results | Obtained | | Unit | Surface Water |
|-------|--|---|---|--|--------------|-----------|---|
| | | Liploi Nadi Upstream (Shirdi Sai Temple) | Liploi Nadi (Muncipality Dump Yard) | Liploi Nadi Downstream (Poda Nadi) | Amaghat Nadi | | Quality Standard as per IS: 2296 (Class C) |
| 20 | Selenium (as Se) | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg/l | 0.05 |
| 21 | Colour | < 5 | < 5 | < 5 | < 5 | Hazen | 300 |
| 22 | Odour | Agreeable | Agreeable | Agreeable | Agreeable | 080 | 580 |
| 23 | Taste | Agreeable | Agreeable | Agreeable | Agreeable | ,,/,54L | 63% |
| 24 | Dissolved Oxygen (Min.) | 6.2 | 6.1 | 6.2 | 6.2 | mg/l | 4 |
| 25 | BOD 5 days at 20°C | 01 | 02 | 02 | 01 | mg/l | 3 |
| 26 | Oil & Grease | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | 0.1 |
| 27 | Free Carbon Dioxide (as CO ₂) | 3.52 | 5.28 | 3.52 | 7.04 | mg/l | • |
| 28 | Free Ammonia (as NH ₃) | < 0.012 | < 0,012 | < 0.012 | < 0.012 | mg/l | 22 |
| 29 | Cyanide (as CN) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/i | 0.05 |
| 30 | Phenolic Compounds (as C ₆ H ₅ OH) | < 0.002 | < 0.002 | < 0.002 | < 0.002 | mg/l | 0.005 |
| 31 | Anionic Detergents (as MBAS) | < 0.05 | < 0.05 | < 0.05 | < 0.05 | mg/l | 1.0 |
| 32 | Total Coliforms | 100 | 1000 | 1000 | 100 | Nos/100ml | 5000 |

Table No 26:

26.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

| SI No | Parameters | Results Obtained | | | | | | | |
|----------|------------------------|------------------|--------|-------|--------|--------|-----------|------|--|
| | | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | | |
| 1 | pH Value | 7.56 | 7.34 | 7.42 | 7.51 | 7.37 | 7.43 | (5) | |
| 2. | Total Suspended Solids | 12.5 | 22.5 | < 2.5 | 27.7 | 24.8 | 6.6 | mg/l | |
| 3. | Oil & Grease | 2.2 | 2.6 | 2.1 | < 2.0 | 12.0 | < 2.0 | mg/l | |
| 4. | BOD 5days at 20°C | 60 | 40 | 30 | 36 | 40 | 30 | mg/l | |
| 5. | COD | 184.60 | 122.36 | 92.16 | 110.16 | 24.8 | 92.61 | mg/l | |

26.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

| SI No | Parameters | | Permissible Limit as per CTO | Unit | | | | | |
|----------|------------------------|--------|------------------------------------|--------|--------|--------|-----------|------------|------|
| | | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | Conditions | |
| 1 | pH Value | 7.79 | 7.30 | 7.37 | 7.65 | 7.26 | 7.56 | 5.5 – 9.0 | - |
| 2. | Total Suspended Solids | < 2.5 | 2.5 | < 2.5 | 16.8 | 15.6 | < 2.5 | 100 | mg/l |
| 3. | Oil & Grease | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | 10 | mg/l |
| 4. | BOD 5days at 20°C | 04 | 12 | 14 | 08 | 17 | 11 | = | mg/l |
| 5. | COD | 15.267 | 37.26 | 43.160 | 25.624 | 52.612 | 34.68 | | mg/l |

Table No 27:

27.1 EFFLUENT WATER QUALITY RESULT OF BOILER BLOW DOWN (Line – 2)

| SI No | Parameters | Results Obtained | | | | | | | | |
|----------|------------------------|------------------|--------|--------|--------|--------|-----------|------|--|--|
| | | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | | | |
| 1 | pH Value | 7.21 | 7.28 | 8.93 | 8.42 | 8.03 | 7.95 | (4) | | |
| 2. | Total Suspended Solids | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | mg/l | | |
| 3. | Oil & Grease | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | mg/l | | |
| 4. | COD | 55.260 | 42.610 | 38.16 | 45.624 | 44.260 | 46.249 | mg/l | | |
| 5. | Copper (as Cu) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | mg/l | | |
| 6. | Iron (as Fe) | 0.18 | 0.20 | 0.18 | 0.26 | 0.22 | 0.12 | | | |

27.2 EFFLUENT WATER QUALITY RESULT OF COOLING TOWER BLOW DOWN (Line – 2)

| SI No | Parameters | Results Obtained | | | | | | | |
|----------|---|------------------|--------|--------|--------|--------|-----------|------|--|
| | | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | | |
| 1 | pH Value | 7.49 | 6.90 | 7.45 | 7.36 | 8.60 | 7.90 | _ a | |
| 2. | Total Suspended Solids | 12.4 | 10.8 | 9.4 | 11.6 | 10.2 | 9.8 | mg/l | |
| 3. | Oil & Grease | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | < 2.0 | mg/l | |
| 4. | Total Nitrate (as NO ₃) | 6.88 | 5.89 | 4.68 | 5.24 | 4.88 | 5.24 | mg/l | |
| 5. | Phosphate (as PO ₄) | 2.432 | 2.012 | 1.86 | 2.01 | 1.84 | 7.35 | mg/l | |
| 6. | Total Chromium (as Cr) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | | |
| 7. | Zinc (as Zn) | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | | |
| 8. | Residual Chlorine (as Cl ₂) | 0.28 | 0.20 | 0.19 | 0.21 | 0.24 | 0.18 | | |

Table No 28 : EFFLUENT WATER QUALITY RESULT OF STP OUTLET (LINE – 2)

| SI No | Parameters | | 100 | Permissible Limit as per CTO Conditions | Unit | | | | |
|----------|------------------------|--------|-------|---|--------|--------|--------|-----------|------|
| | | APR | MAY | JUN | JULY | AUG | SEPT | | |
| 1 | pH Value | 7.50 | 7.46 | 7.82 | 7.62 | 7.25 | 7.38 | 6.5 – 9.0 | • |
| 2. | Total Suspended Solids | < 2.5 | < 2.5 | < 2.5 | 9.4 | 8.2 | 7.8 | 100 | mg/l |
| 3. | BOD 5days at 20°C | 10 | 08 | 06 | 16 | 24 | 15 | 30 | mg/l |
| 4. | COD | 37.610 | 25.62 | 20.16 | 50.462 | 62.612 | 46.419 | • | mg/l |
| 5. | Fecal coliform | 100 | 100 | 1000 | 1000 | 100 | 100 | 1000 | mg/l |

Table No 29:

EFFLUENT WATER QUALITY RESULT OF STP OUTLET (DSP UNIT)

| SI No | Parameters | | Permissible Limit as per CTO | Unit | | | | | |
|----------|------------------------|--------|------------------------------------|-------|-------|--------|-------|------------|------|
| | | APR | MAY | JUN | JULY | AUG | SEPT | Conditions | |
| 1 | pH Value | 7.46 | 7.38 | 7.41 | 7.41 | 7.35 | 7.43 | 6.5 - 9.0 | - |
| 2. | Total Suspended Solids | 8.2 | 6.4 | 4.2 | 4.2 | 15.8 | 14.6 | 100 | mg/l |
| 3. | BOD 5days at 20°C | 05 | 16 | 05 | 05 | 20 | 25 | 30 | mg/l |
| 4. | COD | 16.610 | 49.69 | 16.46 | 16.46 | 52.160 | 91.64 | | mg/l |
| 5. | Fecal Coliform | 100 | 100 | 100 | 100 | 100 | 100 | 1000 | mg/l |

Table No 30:

SOIL QUALITY RESULT FOR THE MONTH OF APRIL 2024

| Sl. No. | Parameter | Unit | ETP Area (Line – 1) | Truck Parking Area | STP Area (DSP Unit) |
|---------|---|--------------------|---------------------|--------------------|---------------------|
| | | | | | |
| 1. | Colour | (e) | Brownish | Greyish | Greyish |
| 2. | Type of Soil | | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | = | Sandy Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.63 | 1.49 | 1.52 |
| 5. | pH (1:2 Suspension) | (E) | 7.88 | 8.15 | 8.15 |
| 6. | Iron | mg/kg | 5.2 | 5.4 | 3.92 |
| 7. | Calcium | mg/kg | 182 | 176 | 158 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 153.04 | 224.64 | 273.72 |

| SI. No. | Parameter | Unit | ETP Area (Line – 1) | Truck Parking Area | STP Area (DSP Unit) |
|---------|---------------------------|-------------------|---------------------|--------------------|---------------------|
| | | | | | |
| 9. | Organic Carbon | % | 0.90 | 1.3 | 0.88 |
| 10. | Available Nitrogen (as N) | Kg/ha | 175.62 | 75.26 | 50.18 |
| 11. | Manganese | mg/kg | 7.30 | 5.24 | 4.11 |
| 12. | Infiltration Rate | cm/hr | 2.44 | 2.23 | 3.39 |
| 13. | Porosity | mg/m ³ | 0.25 | 0.28 | 0.192 |
| 14. | Moisture Content | % | 15.6 | 18.6 | 18.9 |
| 16. | Chloride | mg/kg | 0.14 | 0.21 | 0.26 |
| 17. | Sulphate | mg/kg | 0.70 | 0.62 | 0.54 |

Table No 31:

SOIL QUALITY RESULT FOR THE MONTH OF MAY 2024

| SI. No. | Parameter | Unit | AFR Area (Line – 1) | STP Area(Line -2) | Konark Vihar Area | STP Area DSP Unit |
|---------|---|--------------------|----------------------|-------------------|-------------------|----------------------|
| 1. | Colour | (2) | Greyish | Greyish | Brownish | Greyish |
| 2. | Type of Soil |) # 3 | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | 36 | Sandy Clay Loam | Silty Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.38 | 1.32 | 1.32 | 1.6 |
| 5. | pH (1:2 Suspension) | 5 7 5 | 8.30 | 8.32 | 8.14 | 8.06 |
| 6. | Iron | mg/kg | 5.2 | 5.4 | 5.4 | 4.92 |
| 7. | Calcium | mg/kg | 162 | 157 | 146 | 162 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 122.04 | 198.08 | 286.2 | 310.76 |
| 9. | Organic Carbon | % | 0.65 | 0.84 | 1.07 | 0.94 |
| 10. | Available Nitrogen (as N) | Kg/ha | 125.44 | 137.98 | 62.72 | 100.35 |
| 11. | Manganese | mg/kg | 9.30 | 6.82 | 6.74 | 4.24 |
| 12. | Infiltration Rate | cm/hr | 1.44 | 2.17 | 2.19 | 4.49 |
| 13. | Porosity | mg/m³ | 0.28 | 0.21 | 0.24 | 0.192 |
| 14. | Moisture Content | % | 17.6 | 22.4 | 24.2 | 19.6 |
| 16. | Chloride | mg/kg | 0.13 | 0.19 | 0.22 | 0.18 |
| 17. | Sulphate | mg/kg | 0.70 | 0.62 | 0.62 | 0.41 |

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF JUNE 2024

| SI. No. | Parameter | Unit | Inside Store Yard (Line – 1) | Near AFR Area (Line – 2) | Near Weigh Bridge DSP Unit |
|---------|---|--------------------|---------------------------------|-----------------------------|----------------------------|
| 1. | Colour | | Brownish | Greyish | Brownish |
| 2. | Type of Soil | § | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | 5 | Sandy Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.24 | 1.38 | 1.32 |
| 5. | pH (1:2 Suspension) | | 7.50 | 8.48 | 7.86 |
| 6. | Iron | mg/kg | 5.2 | 5.4 | 3.92 |
| 7. | Calcium | mg/kg | 172 | 167 | 153 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 258.48 | 318 | 153.04 |
| 9. | Organic Carbon | % | 1.23 | 1.10 | 0.88 |
| 10. | Available Nitrogen (as N) | Kg/ha | 100.35 | 125.44 | 25.08 |
| 11. | Manganese | mg/kg | 8.90 | 5.82 | 5.12 |
| 12. | Infiltration Rate | cm/hr | 1.64 | 2.09 | 3.24 |
| 13. | Porosity | mg/m³ | 0.18 | 0.23 | 0.15 |
| 14. | Moisture Content | % | 16.9 | 21.8 | 13.6 |
| 16. | Chloride | rng/kg | 0.17 | 0.27 | 0.17 |

| SI. No. | Parameter | Unit | Inside Store Yard (Line – 1) | Near AFR Area (Line – 2) | Near Weigh Bridge DSP Unit |
|---------|-----------|-------|---------------------------------|-----------------------------|----------------------------|
| 17. | Sulphate | mg/kg | 0.73 | 0.52 | 0.26 |

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JULY 2024

| SI. No. | Parameter | Unit | Water Harvesting Pond (LINE – 2) | In Front Of HR Office (Line – 1) | AFR AREA (DSP UNIT) |
|---------|---|--------------------|-------------------------------------|-------------------------------------|---------------------|
| 1. | Colour | - | Greyish | Greyish | Greyish |
| 2. | Type of Soil | ====== | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | 9 | Sandy Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.3 | 1.2 | 1.2 |
| 5. | pH (1:2 Suspension) | * | 8.12 | 8.10 | 8.38 |
| 6. | Iron | mg/kg | 4.8 | 5.21 | 5.08 |
| 7. | Calcium | mg/kg | 174 | 179 | 168 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 324.96 | 198.08 | 318 |
| 9. | Organic Carbon | % | 0.81 | 0.47 | 0.88 |
| 10. | Available Nitrogen (as N) | Kg/ha | 238.34 | 62.72 | 112.89 |
| 11. | Manganese | mg/kg | 9.61 | 9.23 | 6.02 |
| 12. | Infiltration Rate | cm/hr | 6.54 | 4.26 | 5.61 |
| 13. | Porosity | mg/m³ | 0.19 | 0.22 | 0.12 |
| 14. | Moisture Content | % | 21.2 | 22.5 | 23.4 |
| 16. | Chloride | mg/kg | 0.11 | 0.08 | 0.16 |
| 17. | Sulphate | mg/kg | 0.60 | 0.50 | 0.60 |

Table No 34:

SOIL QUALITY RESULT FOR THE MONTH OF AUGUST 2024

| SI. No. | Parameter | Unit | ETP Area (Line – 1) | 132 KVA Substation (Line – 2) | Kiskindhaban Area (Line – 1) | STP Area (DSP Unit) |
|---------|---|--------------------|---------------------|-------------------------------------|---------------------------------|------------------------|
| 1. | Colour | • | Greyish | Greyish | Greyish | Greyish |
| 2. | Type of Soil | | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | 58. | Sandy Clay Loam | Silty Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.3 | 1.2 | 1.4 | 1.2 |
| 5. | pH (1:2 Suspension) | (ATA | 7.36 | 8.02 | 7.60 | 6.42 |
| 6. | Iron | mg/kg | 4.5 | 5.14 | 6.18 | 5.08 |
| 7. | Calcium | mg/kg | 164 | 172 | 186 | 168 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 780.96 | 411.72 | 419.16 | 768.48 |
| 9. | Organic Carbon | % | 0.5 | 1.84 | 1.34 | 2.47 |
| 10. | Available Nitrogen (as N) | Kg/ha | 163.07 | 50.176 | 188.16 | 62.72 |
| 11. | Manganese | mg/kg | 9.61 | 9.23 | 9.76 | 6.02 |
| 12. | Infiltration Rate | cm/hr | 5.48 | 5.26 | 4.87 | 5.61 |
| 13. | Porosity | mg/m³ | 0.31 | 0.29 | 0.26 | 0.12 |
| 14. | Moisture Content | % | 21.2 | 21.6 | 20.25 | 23.4 |
| 16. | Chloride | mg/kg | 0.18 | 0.28 | 0.26 | 0.16 |
| 17. | Sulphate | mg/kg | 0.62 | 0.54 | 0.48 | 0.60 |

Table No 35: SOIL QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2024

| SI. No. | Parameter | Unit | Store Yard (Line – 1) | STP Area (Line – 2) | STP Area DSP Unit |
|---------|---|--------------------|-----------------------|---------------------|-------------------|
| | | | H- N- 6 | | |
| 1. | Colour | • | Greyish | Greyish | Greyish |
| 2. | Type of Soil | | Fine Grained Soil | Fine Grained Soil | Fine Grained Soil |
| 3. | Texture | ÷ | Sandy Clay Loam | Silty Clay Loam | Silty Loam |
| 4. | Bulk Density | gm/cm ³ | 1.3 | 1.3 | 1.2 |
| 5. | pH (1:2 Suspension) | 9 | 7.52 | 8.08 | 8.40 |
| 6. | Iron | mg/kg | 4.8 | 6.05 | 5.21 |
| 7. | Calcium | mg/kg | 174 | 179 | 179 |
| 8. | Available Potassium (as K ₂ O) | Kg/ha | 250.68 | 224.64 | 300.72 |
| 9. | Organic Carbon | % | 1.10 | 1.62 | 0.81 |
| 10. | Available Nitrogen (as N) | Kg/ha | 87.80 | 163.07 | 125.44 |
| 11. | Manganese | mg/kg | 174 | 179 | 179 |
| 12. | Infiltration Rate | cm/hr | 9.61 | 9.76 | 9.23 |
| 13. | Porosity | mg/m³ | 6.54 | 4.77 | 4.26 |
| 14. | Moisture Content | % | 0.18 | 0.33 | 0.19 |
| 16. | Chloride | mg/kg | 21.26 | 22.84 | 22.57 |
| 17. | Sulphate | mg/kg | 0.11 | 0.10 | 0.08 |

Table No: 36:

NOISE LEVEL MONITORING DATA

From 01.04.2024 to 30.09.2024

| Month | Location | L _{eq} dB(A) Day Time | L _{eq} dB(A) Night Time |
|-------|--------------------------------------|-----------------------------------|-------------------------------------|
| Apr | Main gate Near Canteen (Line – 1) | 55.3 | 53.6 |
| • | General Store (Line – 1) | 62.9 | 62.5 |
| | Guest House Area | 55.6 | 48.1 |
| | Konark Vihar | 45.1 | 45.0 |
| | CPP Area (Line – 2) | 64.0 | 62.9 |
| | Lime Stone Transfer Point (Line – 2) | 64.1 | 63.7 |
| e | Project Gate Area (DSP Unit) | 58.1 | 57.4 |
| | General Store Area (DSP Unit) | 59.0 | 57.1 |
| May | Main gate Near Canteen (Line – 1) | 67.0 | 66.1 |
| , | General Store (Line – 1) | 62.0 | 60.2 |
| | Guest House Area | 55.0 | 48.9 |
| | Konark Vihar | 47.7 | 44.4 |
| | CCR Building Area (Line – 2) | 72.4 | 71.9 |
| | Workshop Area (Line – 2) | 60.7 | 60.8 |
| | STP Area (DSP Unit) | 61.2 | 58.5 |
| | AFR Storage Area (DSP Unit) | 60.6 | 58.6 |
| Jun | Main gate Near Canteen (Line – 1) | 55.2 | 52.1 |
| | B .G Loco Gate Area (Line – 1) | 61.5 | 60.7 |
| | Guest House Area | 54.7 | 51.1 |
| | Konark Vihar | 53.2 | 56.0 |
| | CPP Area(Line – 2) | 66.3 | 62.5 |
| | CCR Office Building Area (Line – 2) | 63.8 | 63.6 |
| | General Store Area (DSP Unit) | 61.2 | 60.6 |
| | Project Gate Area (DSP Unit) | 62.2 | 60.4 |
| Jul | Main gate Near Canteen (Line – 1) | 55.2 | 52.1 |
| | B .G Loco Gate Area (Line - 1) | 61.5 | 60.7 |
| | Guest House Area | 54.7 | 51.1 |

| Month | Location | L _{eq} dB(A) Day Time | L _{eq} dB(A) Night Time |
|-------|-------------------------------------|-----------------------------------|-------------------------------------|
| | Konark Vihar | 53.2 | 56.0 |
| | CPP Area(Line – 2) | 66.3 | 62.5 |
| | CCR Office Building Area (Line - 2) | 63.8 | 63.6 |
| | General Store Area (DSP Unit) | 61.2 | 60.6 |
| | Project Gate Area (DSP Unit) | 62.2 | 60.4 |
| Aug | Main gate Near Canteen (Line – 1) | 58.8 | 63.7 |
| Ü | B .G Loco Gate Area (Line – 1) | 62.1 | 58.1 |
| | Guest House Area | 56.9 | 52.8 |
| | Konark Vihar | 49.4 | 42.7 |
| | CPP Area(Line – 2) | 62.6 | 61.6 |
| | Atithi Niwas Arae (Line – 2) | 62.3 | 51.9 |
| | Project Gate Area (DSP Unit) | 59.2 | 57.9 |
| | General Store Area (DSP Unit) | 58.6 | 57.2 |
| Sept | General Store (Line – 1) | 61.4 | 60.3 |
| • | B .G Loco Gate Area (Line - 1) | 66.8 | 66.5 |
| | Guest House Area | 61.5 | 44.3 |
| | Konark Vihar | 51.5 | 37.9 |
| | CPP Area(Line – 2) | 73.8 | 69.8 |
| | Work Shop Area (Line – 2) | 58.9 | 57.1 |
| | AFR Storage Area (DSP Unit) | 61.3 | 60.4 |
| | STP Area (DSP Unit) | 68.4 | 68.0 |