Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/OR/IND/59484/2016
Compliance ID	125825675
Compliance Number(For Tracking)	EC/M/COMPLIANCE/125825675/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-04-2025
RO/SRO Name	ARTATRANA MISHRA
RO/SRO Email	jhk109@ifs.nic.in
State	ODISHA
RO/SRO Office Address	Integrated Regional Offices, Bhubaneswar
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.	

Dalmia cement
FUTURE TODAY

cement! sugar! refractories! power!

DDSP/MOEFCC/001/2025-26/025
April 29, 2025.

Deputy Director General 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 October 2024 to March 2025.**

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 October 2024 to March 2025.

Thanking you,

Yours sincerely,
For **Dalmia Cement Bharat Limited,**

Akmishra.

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
2025
01 Jun(01 Oct - 31 Mar)

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	2025
Remarks (if any)	
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

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

	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)	31/03/2028	3000000	2508368	3900000
2	WHRB	MW	31/03/2028	15	90971	15

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Corporate Environmental Responsibility	1. An amount of Rs 46.00 Crores proposed towards Enterprise Social Commitment (ESC) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.
PPs Submission: Being Complied The amount earmarked towards ESC have been spent on education, health, sanitation, infrastructure development, livelihood and skill development initiatives etc.		Date: 29/04/2025
2	GREENBELT	Green belt shall be developed in 12.95 Ha equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant. The plantation shall be completed within one year form the date of issue of EC. In addition to this 1500 additional plants shall be planted within the premises.
PPs Submission: Being Complied Green cover has been developed in and around the plant premises. We have planted around 3249 saplings in this year till March 2025.		Date: 29/04/2025
3	WASTE MANAGEMENT	4. Kitchen waste shall be composted or convened to biogas for further use.
PPs Submission: Complied Mechanical bio-digester has been installed for composting of food and kitchen wastes for further use in horticulture.		Date: 29/04/2025
4	ENERGY PRESERVATION MEASURES	5. The project proponent shall adopt the slip power recovery system for energy conservation.
PPs Submission: Complied Slip power recovery system is in place for energy conservation.		Date: 29/04/2025
5	MISCELLANEOUS	Detailed study of the fauna in the study area shall be carried out within one year. If Schedule-I species are found, then conservation plan for Schedule-I species be prepared and implemented in consultation with state forest department. The PP shall provide necessary financial resources for implementation of the plan.
PPs Submission: Complied No Schedule I species have been found within the project area.		Date: 29/04/2025
6	WATER QUALITY MONITORING AND PRESERVATION	No ground water shall be used for plant & township
PPs Submission: Complied Ground water is not used in the plant or township.		Date: 29/04/2025
7	MISCELLANEOUS	3. The Capital cost Rs. 95.00 Crores and annual recurring cost Rs. 5.00 Crores towards the environmental protection measures shall be

		earmarked separately. The funds so provided shall not be diverted for any other purpose.

PPs Submission: Complied The funds have been utilized for environmental protection and has not been diverted for any other purpose.	Date: 29/04/2025

General Conditions

Sr.No.	Condition Type	Condition Details
1	WATER QUALITY MONITORING AND PRESERVATION	b) Provide water meters at the inlet to all unit processes in the cement plants:

PPs Submission: Complied Water meters are in place at the inlet to all unit processes in the plant.	Date: 29/04/2025

2	WATER QUALITY MONITORING AND PRESERVATION	c) Make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

PPs Submission: Complied Water conservation efforts are practised to minimize the freshwater consumption by maximizing the use of recycled water.	Date: 29/04/2025

3	ENERGY PRESERVATION MEASURES	6 (a) provide Waste heat recovery system for kiln and cooler;

PPs Submission: Complied A 15 MW Green Power plant has been installed having waste heat recovery system for kiln and cooler.	Date: 29/04/2025

4	AIR QUALITY MONITORING AND PRESERVATION	a. Install 24x7 continuous emission monitoring system at all the stacks to monitor stack emission with respect to parameters prescribed in G.S.R. No. 612 (E) dated 25th August, 2014 and subsequent amendment dated 10th May, 2016 from time to time; S..O. 3305 (E) dated 7th December 2015 for thermal power plants as amended from time to time and connected to CPCB online;

PPs Submission: Complied Continuous Emission Monitoring System (CEMS) have been installed in all process stacks of our plant and are connected to the Board server.	Date: 29/04/2025

5	AIR QUALITY MONITORING AND PRESERVATION	b. Monitor fugitive emissions in the plant premises;

PPs Submission: Complied Fugitive emissions are being regularly monitored within plant premises.	Date: 29/04/2025

6	AIR QUALITY MONITORING AND PRESERVATION	c. Carryout Continuous Ambient Air Quality monitoring as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R.No. 826(E) dated I6th November 2009 (as amended from time to time) within and outside the plant area at least at four locations covering upwind and downwind directions at an angle of 120 degree each; and

	PPs Submission: Complied CAAQMS Stations have been installed within and outside the plant premises.		Date: 29/04/2025
7	AIR QUALITY MONITORING AND PRESERVATION	d. Submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	
	PPs Submission: Complied Six monthly compliance report along with monitored results are submitted to the statutory bodies periodically. The Monitoring Report attached		Date: 29/04/2025
8	WATER QUALITY MONITORING AND PRESERVATION	b) submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	
	PPs Submission: Complied Six monthly compliance report along with monitored data are submitted to statutory bodies periodically.		Date: 29/04/2025
9	AIR QUALITY MONITORING AND PRESERVATION	a) Provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources;	
	PPs Submission: Complied Auxillary Bag filters, Bag houses and dust suppression systems have been installed at major dust generating points including transfer towers.		Date: 29/04/2025
10	AIR QUALITY MONITORING AND PRESERVATION	b) Design suitable capacity of bag filters to handle gas/air shall be 150% of the normal flow from process/ from suction hoods to achieve particulate emission to less than 30 mg/N m3.	
	PPs Submission: Complied Adequately sized bag filters have been installed to control the PM emissions below 30 mg/Nm3.		Date: 29/04/2025
11	AIR QUALITY MONITORING AND PRESERVATION	c) Provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags:	
	PPs Submission: Complied Major Bag Houses are provided with leakage detection and mechanized bag cleaning facilities.		Date: 29/04/2025
12	AIR QUALITY MONITORING AND PRESERVATION	d) Provide pollution control system in the cement plant as per the CREP Guidelines of CPCB;	
	PPs Submission: Complied Pollution control measures as recommended in CREP guidelines for Cement Plant is being adhered to.		Date: 29/04/2025
13	AIR QUALITY MONITORING AND PRESERVATION	e) Provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	
	PPs Submission: Complied 2 nos. of mechanized sweeping machines and one no. of heavy-duty mechanical road sweeper have been deployed to clean the roads and shop floors.		Date: 29/04/2025

14	AIR QUALITY MONITORING AND PRESERVATION	f) Recycle and reuse lime fines. coal fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after agglomeration;

PPs Submission: Complied Lime and coal fines collected in the pollution control devices are recycled and reused to the maximum extent possible.	Date: 29/04/2025

15	AIR QUALITY MONITORING AND PRESERVATION	g) Use leak proof trucks/dumpers for carrying coal and other raw materials and shall cover them with tarpaulin. Use closed bulkers for carrying fly ash;

PPs Submission: Complied Trucks used for carrying coal and other raw materials are covered with tarpaulin. Closed bulkers and railway rakes are used for fly ash transportation.	Date: 29/04/2025

16	AIR QUALITY MONITORING AND PRESERVATION	h) Provide wind shelter fence and chemical spraying on the raw material stock piles:

PPs Submission: Complied Wind barriers have been provided near raw material stock piles.	Date: 29/04/2025

17	AIR QUALITY MONITORING AND PRESERVATION	i) Provide Low NOx burners to control NOx emissions. Regular calibration of the instruments must be ensured. If needed. NOx will be controlled by using SCR/NSCR technologies:

PPs Submission: Complied Low NOx burners have been installed to control NOx emissions.	Date: 29/04/2025

18	AIR QUALITY MONITORING AND PRESERVATION	j) Have separate truck parking area and monitor vehicular emissions at regular interval.

PPs Submission: Complied A dedicated truck parking area has been provided and vehicular emissions are monitored.	Date: 29/04/2025

19	WATER QUALITY MONITORING AND PRESERVATION	a) Adhere to “zero liquid discharge”;

PPs Submission: Being Complied Cement manufacturing is a dry process, and zero liquid discharge is being adhered to except monsoon/surface run off.	Date: 29/04/2025

20	WATER QUALITY MONITORING AND PRESERVATION	b) Provide Sewage Treatment Plant for domestic wastewater

PPs Submission: Complied Domestic wastewater is treated in Sewage Treatment Plant.	Date: 29/04/2025

21	WATER QUALITY MONITORING AND PRESERVATION	c) Provide garland drains and collection pits for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

PPs Submission: Complied Garland drains with collection pits are provided at stockpile area.		Date: 29/04/2025
22	WATER QUALITY MONITORING AND PRESERVATION	a) Practice rainwater harvesting to maximum possible extent;
PPs Submission: Being Complied Roof top rainwater harvesting systems are installed.		Date: 29/04/2025
23	ENERGY PRESERVATION MEASURES	6 (b) make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker;
PPs Submission: Being Complied Efforts are being made to lower the power and thermal energy consumption within the stipulated norms.		Date: 29/04/2025
24	ENERGY PRESERVATION MEASURES	6 (c) provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights. parking around project area and maintain the same regularly;
PPs Submission: Complied 1.732 MW Solar power system has been installed.		Date: 29/04/2025
25	ENERGY PRESERVATION MEASURES	6 (d) provide the project proponent for LED lights in their offices and residential areas:
PPs Submission: Complied LED lights are used in offices as well as residential areas.		Date: 29/04/2025
26	ENERGY PRESERVATION MEASURES	6 (e) maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards;
PPs Submission: Complied Maximum utilization of fly ash as well as slag is done in the cement blend.		Date: 29/04/2025
27	ENERGY PRESERVATION MEASURES	6 (f) maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
PPs Submission: Complied Co-processing of Hazardous wastes as alternate fuels and raw mix is carried out.		Date: 29/04/2025
28	Human Health Environment	7. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport.
PPs Submission: Complied Raw material from our captive mines to the cement plant is transported through cross-country closed belt conveyor (CCBC).		Date: 29/04/2025
29	WASTE MANAGEMENT	8. Used refractories shall be recycled as far as possible.

PPs Submission: Complied Used refractories are recycled to the maximum extent possible.		Date: 29/04/2025
30	GREENBELT	9. The PP shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.
PPs Submission: Being Complied GHG emissions inventory for the plant is in place and maximum use of RDF as fuel is done to reduce the fuel consumption. Plantation is carried out on a regular basis.		Date: 29/04/2025
31	Risk Mitigation and Disaster Management	10. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
PPs Submission: Complied Emergency Preparedness Plan based on HIRA and DMP is implemented at site along with mock drills conducted at regular intervals to check the efficiency of the same.		Date: 29/04/2025
32	Human Health Environment	11. The PP shall Carry-out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
PPs Submission: Complied PPEs have been made mandatory job specific and heat stress analysis carried out for workmen working in high temperature zone.		Date: 29/04/2025
33	Statutory compliance	12. The PP shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.
PPs Submission: Complied Environment Policy is in place and non-compliances are reviewed at Board of Directors level periodically.		Date: 29/04/2025
34	Corporate Environmental Responsibility	13. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.
PPs Submission: Complied All recommendations made in the CREP guidelines for Cement Plant are being adhered to.		Date: 29/04/2025
35	Statutory compliance	14. A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.
PPs Submission: Complied An Environmental Cell with qualified personnel is in place with Head of Cell directly reporting to the Unit Head.		Date: 29/04/2025
36	Human Health Environment	15. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking. mobile toilets, mobile STP, Safe drinking water. medical health care. creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

PPs Submission: Complied Necessary basic infrastructure was provided to workers and labour during the construction phase.		Date: 29/04/2025
37	Statutory compliance	16. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Complied Noted and will be adhered to from time to time.		Date: 29/04/2025
38	Statutory compliance	17. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment. Forests and Climate Change (MoEF&CC).
PPs Submission: Complied Noted and no expansion/modification will be carried out without obtaining prior approval from the Ministry.		Date: 29/04/2025
39	WASTE MANAGEMENT	18. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
PPs Submission: Complied Waste Oil, Grease and other Hazardous wastes are handled and disposed off as per HOWM Rules 2016 and amendments thereof.		Date: 29/04/2025
40	Risk Mitigation and Disaster Management	19. The storage of NH3 and other hazardous chemicals at the site shall be as per the provisions of Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended from time to time.
PPs Submission: Complied Noted. NH3 and other Hazardous Chemicals are being stored properly in designated and earmarked areas as per storage rules.		Date: 29/04/2025
41	Noise Monitoring & Prevention	20. The ambient noise levels should conform to the standards prescribed under EPA Rules. 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.
PPs Submission: Complied The ambient noise levels monitored are well within the stipulated norms.		Date: 29/04/2025
42	Human Health Environment	21. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Complied The health surveillance of the workers as well as executives is done periodically, and records are maintained as per Factories Act.		Date: 29/04/2025
43	MISCELLANEOUS	22. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.
PPs Submission: Complied All environment protection measures and safeguards recommended in EIA/EMP report are implemented.		Date: 29/04/2025
44	Human Health Environment	23. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging

		plants.
PPs Submission: Complied Ventilation system has been designed for adequate air changes in all tunnels, motor houses, cement bagging plants.		Date: 29/04/2025
45	WASTE MANAGEMENT	24. Sufficient number of colour coded waste collection bins shall be constructed at shop floors in each hop to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated colored bins for value addition by promoting reuse of such wastes and for good housekeeping.
PPs Submission: Complied Wastes other than process wastes collected from shop floors are segregated and stored in color coded bins as a good housekeeping practice.		Date: 29/04/2025
46	Statutory compliance	25 (a) send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government:
PPs Submission: Complied Copies of the Environmental Clearance were submitted to heads of local bodies and relevant Govt. Offices.		Date: 29/04/2025
47	Statutory compliance	25 (b) put on the clearance letter on the web site of the company for access to the Public.
PPs Submission: Complied Environmental Clearance Letter has been uploaded and made available on company website.		Date: 29/04/2025
48	Statutory compliance	25 (c) inform the public through advertisement within seven days from the date of issue of the clearance letter. at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment. Forests and Climate Change (MoEF&CC) at http:/envfor.nic.in.
PPs Submission: Complied The grant of Environmental Clearance to the project was advertised in two local newspaper i.e. Odisha Today and Manthan dated 22.02.2018.		Date: 29/04/2025
49	Statutory compliance	25 (d) upload the status of compliance of the stipulated environment clearance conditions. including results of monitored data on their website and update the same periodically
PPs Submission: Complied Status on compliance of EC conditions along with the environment monitoring data are uploaded periodically.		Date: 29/04/2025
50	Statutory compliance	25 (e) monitor the criteria pollutants Level namely PM10, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;
PPs Submission: Complied Stack emissions as well as ambient air quality are monitored and results displayed in public as well		Date:

as uploaded on company website.		29/04/2025
51	Statutory compliance	25 (f) submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB:
PPs Submission: Complied Six monthly compliance reports including environment monitoring data are submitted to the statutory bodies.		Date: 29/04/2025
52	Statutory compliance	25 (g) submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules. 1986, as amended subsequently and put on the website of the company;
PPs Submission: Complied Environmental Statement in Form V has been submitted to OSPCB on 24.09.2024. The same is uploaded periodically on company website.		Date: 29/04/2025
53	Statutory compliance	25 (h) inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
PPs Submission: Complied Project executed in October 2018. We have obtained consent to establish (CTE) and consent to operate (CTO) from State Pollution Control Board, Odisha for the commencement of operation since December 2019.		Date: 29/04/2025
54	MISCELLANEOUS	26. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Complied Noted.		Date: 29/04/2025
55	MISCELLANEOUS	27. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
PPs Submission: Complied Noted and will be complied if any from time to time.		Date: 29/04/2025
56	PUBLIC HEARING	28. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.
PPs Submission: Being Complied All commitments and recommendations made in the EIA/EMP report are being implemented.		Date: 29/04/2025
57	MISCELLANEOUS	29. The above conditions shall be enforced. inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act. 1974, the Air (Prevention & Control of Pollution) Act,1981. the Environment (Protection) Act. 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the

		Public Liability Insurance Act, 1991 along with their amendments and rules.

PPs Submission: Complied Noted.	Date: 29/04/2025

58	MISCELLANEOUS	30. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act. 2010.

PPs Submission: Complied Noted.	Date: 29/04/2025

59	WATER QUALITY MONITORING AND PRESERVATION	2 (a) Install 24x7 continuous effluents monitoring system at all the discharge points to monitor treated effluents with respect to parameters prescribed in G.S.R. No. 612 (E) dated 25th August. 2014 and subsequent amendment dated 9th May, 2016 and 10th May 2016 as amended from time to time; S.O.3305 (E) dated 7th December 2015 for thermal power plants as amended from time to time as amended from time to time;

PPs Submission: Complied Cement manufacturing being a dry process, no such effluent is generated and wastewater generated is recycled back in the cooling circuit and dust suppression.	Date: 29/04/2025

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	The detailed environment monitoring report for the period of October 2024 to March 2025 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

OCTOBER 2024 – MARCH 2025

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 October to 31st March all total 4371 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 6.59%, while considering the 24 hourly data. 4.7% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 2.5% calm condition prevailed from 14hrs to 22hrs and 13.0% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from S, NE & SW with average wind speed 2.59 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 three parts as the study period was covering post monsoon, winter as well as early summer seasons. The Minimum temperature during the post monsoon season was found to be 12.76°C and the Maximum temperature was found to be 35.36°C up to the end of 30th November.

The minimum and maximum temperature during the winter season i.e. from December to February was found to be 8.30°C and 36.56°C. During the month of March the minimum and maximum temperature were 12.62°C and 40.89°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 October to 31st March was observed to be 76.6 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 : DALMIA DSP UNIT
Location : CCR BUILDING

Sl No	Parameters	From October 2024 – March 2025
1	Predominant Wind Direction	From NE, S & SW
2	Calm Condition %	6.59%
3	Average Wind Speed m/sec	2.59
4	Temperature °C	
	Post Monsoon Season	
	Minimum	12.76
	Maximum	35.36
	Winter Season	
	Minimum	8.30
	Maximum	36.56
	Early Summer	
	Minimum	12.62
	Maximum	40.89
5	**Rain Fall in mm**	
	October	11.4
	November	8.6
	December	7.6

Sl No	Parameters	From October 2024 – March 2025
	January	0.0
	February	8.6
	March	40.4
	Total	**76.6**

Figure No: 1.2 **Wind Rose Diagram for 24 Hours**

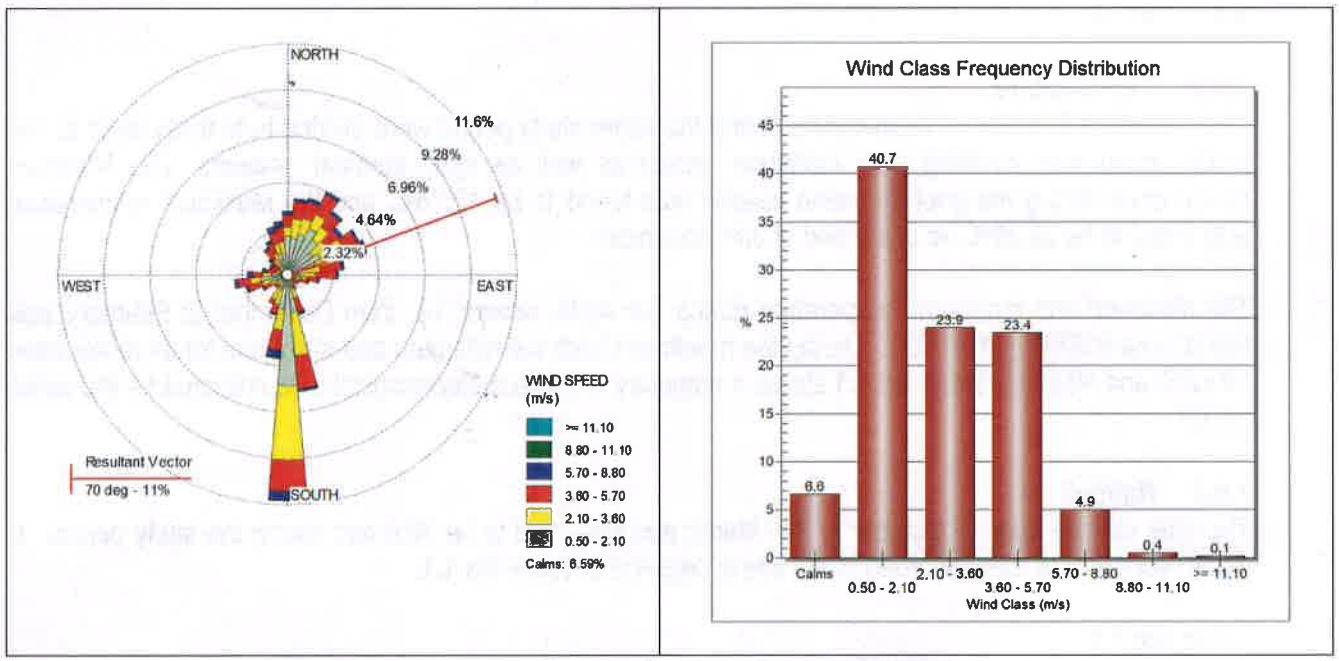

Figure No: 1.2 **Wind Rose Diagram from 06 – 14 Hours**

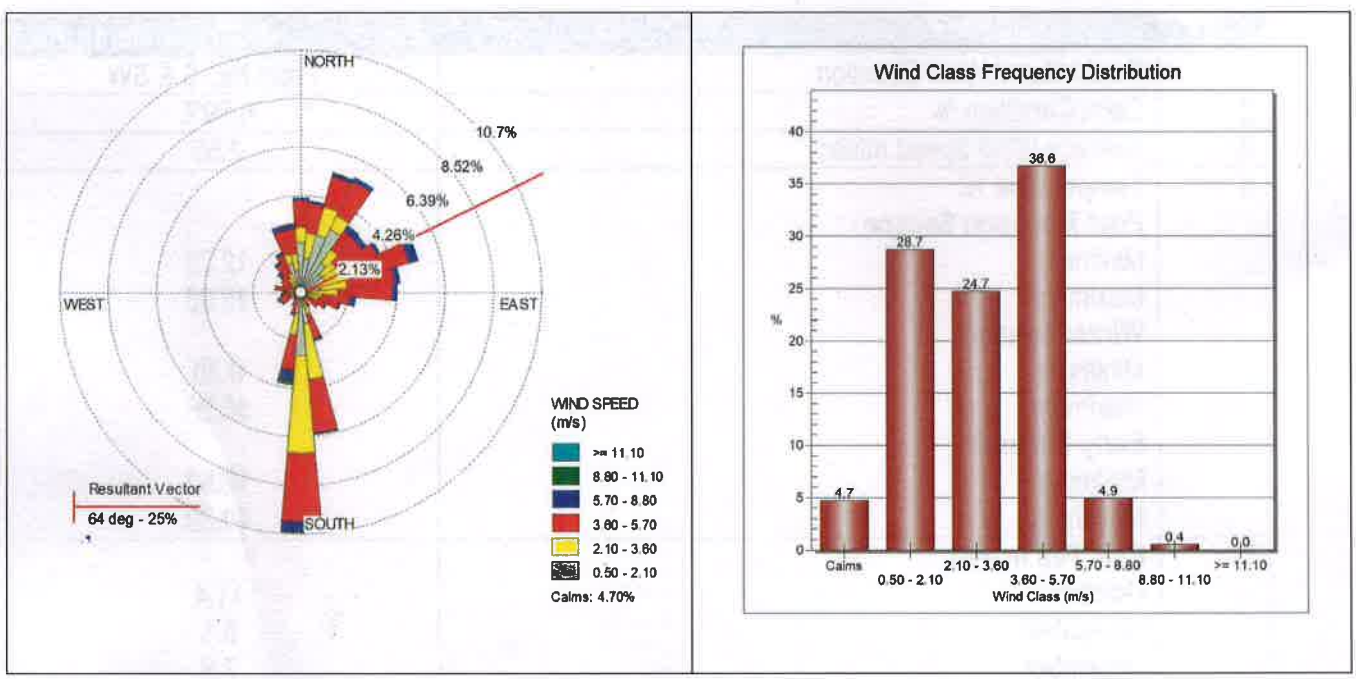

Figure No: 1.3 **Wind Rose Diagram from 14 – 22 Hours**

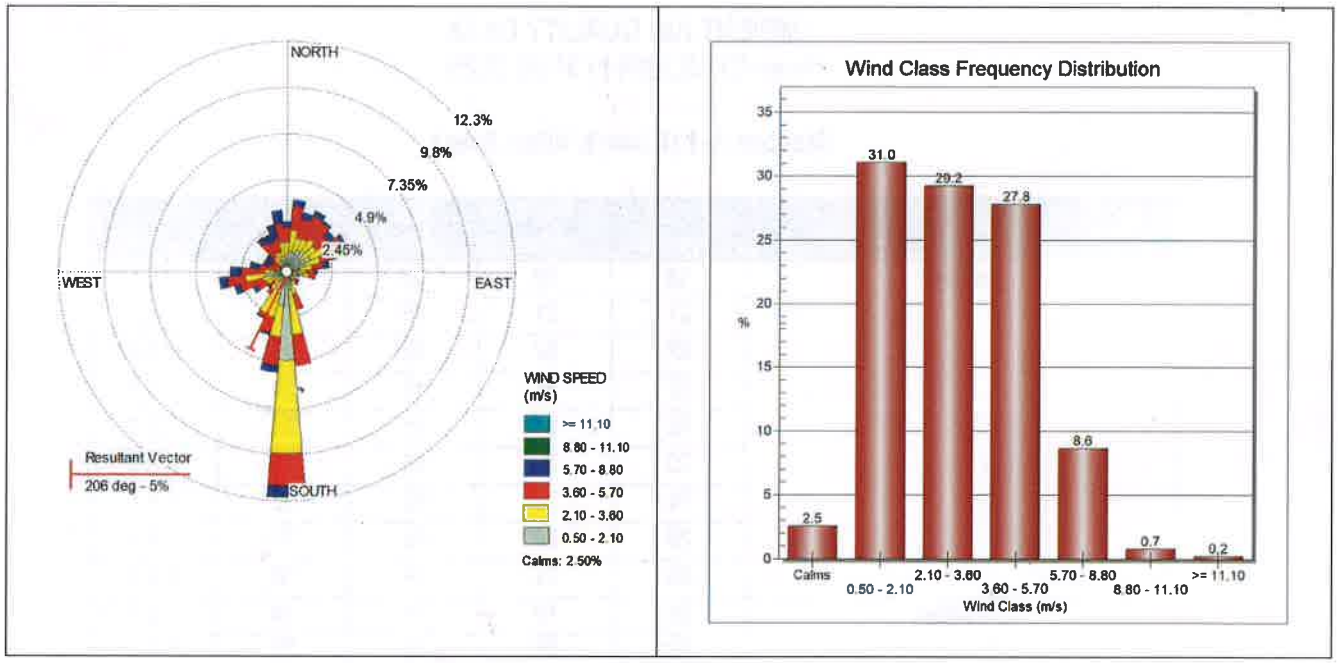

Figure No: 1.4 **Wind Rose Diagram from 22 – 06 Hours**

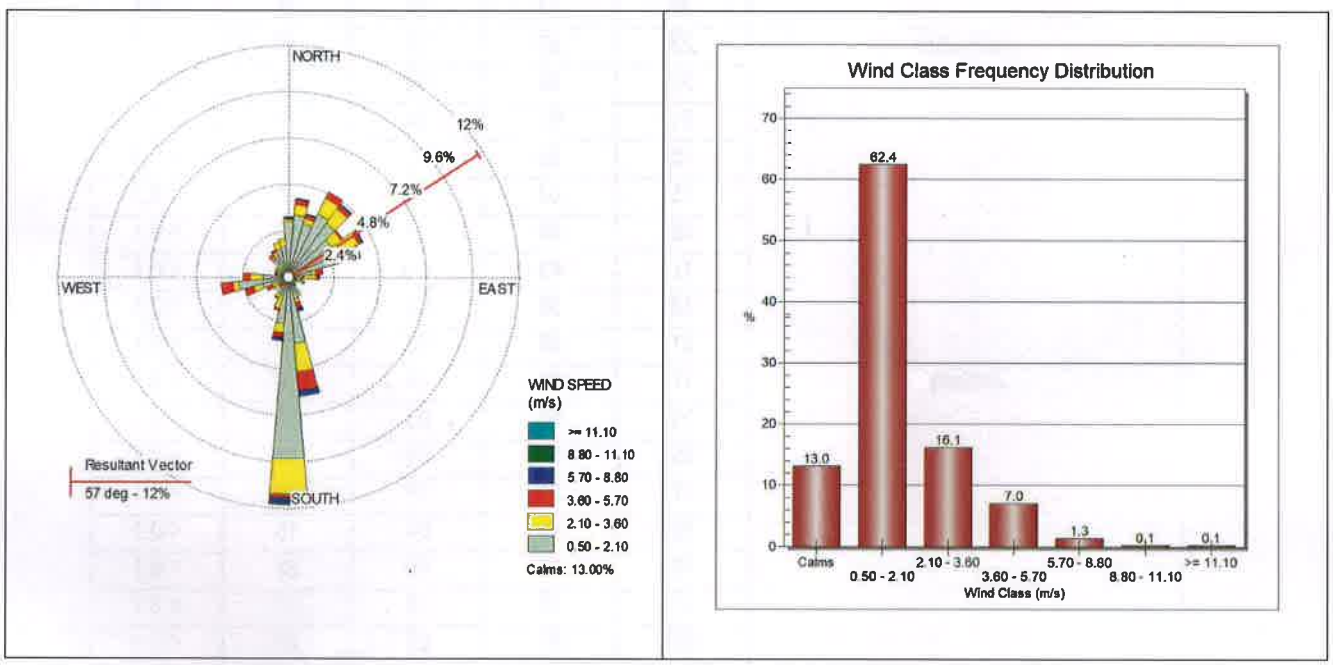

Table No: 1

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-1 (Konark Vihar Area)

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	19	55	05	20	< 0.1
	21	61	09	28	< 0.1
	22	62	08	29	< 0.1
	27	78	10	29	< 0.1
	22	64	05	18	< 0.1
	25	72	06	26	< 0.1
	24	70	06	22	< 0.1
	20	58	09	21	< 0.1
	25	74	04	18	< 0.1
November	25	72	04	14	< 0.1
	23	66	05	22	< 0.1
	20	59	03	12	< 0.1
	14	49	05	20	< 0.1
	27	76	06	20	< 0.1
	24	69	06	10	< 0.1
	22	67	08	18	< 0.1
	21	63	09	19	< 0.1
	25	72	04	14	< 0.1
December	23	65	03	11	< 0.1
	23	66	04	12	< 0.1
	21	61	04	14	< 0.1
	18	53	06	21	< 0.1
	15	43	05	15	< 0.1
	15	44	04	13	< 0.1
	17	48	< 3	12	< 0.1
	12	38	03	19	< 0.1
	21	59	03	20	< 0.1
January	17	51	04	20	< 0.1
	19	55	05	22	< 0.1
	20	59	04	16	< 0.1
	17	51	07	29	< 0.1
	16	46	04	15	< 0.1
	18	53	06	23	< 0.1
	21	62	03	21	< 0.1
	22	65	05	24	< 0.1
	23	68	08	19	< 0.1
February	23	68	06	20	< 0.1
	25	73	04	23	< 0.1
	17	48	05	19	< 0.1
	29	78	08	30	< 0.1
	16	41	09	26	< 0.1
	16	42	07	25	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	20	58	05	18	< 0.1
	18	52	03	20	< 0.1
	23	68	06	20	< 0.1
March	18	51	05	18	< 0.1
	16	46	06	22	< 0.1
	27	76	09	31	< 0.1
	25	64	08	25	< 0.1
	19	53	04	13	< 0.1
	17	49	05	16	< 0.1
	23	69	06	20	< 0.1
	22	68	05	19	< 0.1
	24	72	07	24	< 0.1

Table No: 2

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	28	80	06	22	< 0.1
	28	81	07	24	< 0.1
	18	51	08	31	< 0.1
	24	68	05	16	< 0.1
	24	70	03	19	< 0.1
	24	69	07	22	< 0.1
	26	73	06	25	< 0.1
	23	61	04	18	< 0.1
	24	71	04	14	< 0.1
November	26	77	05	19	< 0.1
	27	79	06	23	< 0.1
	25	72	03	11	< 0.1
	28	78	06	28	< 0.1
	23	68	05	20	< 0.1
	28	70	04	21	< 0.1
	24	69	07	26	< 0.1
	22	65	03	16	< 0.1
	26	77	05	19	< 0.1
December	22	68	05	14	< 0.1
	17	49	05	17	< 0.1
	27	79	03	14	< 0.1
	26	77	03	13	< 0.1
	25	74	05	15	< 0.1
	23	67	04	14	< 0.1
	24	69	05	20	< 0.1
	22	60	< 3	17	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	24	69	06	18	< 0.1
January	23	67	08	26	< 0.1
	24	71	09	30	< 0.1
	22	63	07	22	< 0.1
	23	66	08	29	< 0.1
	21	61	03	14	< 0.1
	20	65	05	28	< 0.1
	25	73	04	23	< 0.1
	24	69	06	25	< 0.1
	26	70	04	20	< 0.1
February	20	55	07	25	< 0.1
	21	59	07	25	< 0.1
	20	58	04	22	< 0.1
	28	70	07	21	< 0.1
	26	69	< 03	15	< 0.1
	26	75	04	20	< 0.1
	28	80	07	23	< 0.1
	27	78	05	22	< 0.1
	20	55	07	25	< 0.1
March	27	78	07	24	< 0.1
	26	74	04	20	< 0.1
	23	66	06	29	< 0.1
	29	79	09	28	< 0.1
	28	80	08	26	< 0.1
	26	77	06	25	< 0.1
	26	72	06	21	< 0.1
	25	71	06	20	< 0.1
	25	71	06	21	< 0.1

Table No: 3

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	22	63	03	12	< 0.1
	30	86	07	31	< 0.1
	29	82	05	29	< 0.1
	27	78	03	17	< 0.1
	23	66	07	22	< 0.1
	25	70	10	24	< 0.1
	22	63	06	19	< 0.1
	23	65	06	20	< 0.1
	21	60	03	14	< 0.1
November	23	66	05	19	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	28	80	07	24	< 0.1
	26	77	04	16	< 0.1
	26	73	07	31	< 0.1
	27	79	04	23	< 0.1
	25	72	06	15	< 0.1
	27	80	03	18	< 0.1
	24	70	06	22	< 0.1
	23	66	05	19	< 0.1
December	28	79	06	19	< 0.1
	22	71	05	18	< 0.1
	28	81	06	18	< 0.1
	23	69	03	14	< 0.1
	27	78	06	20	< 0.1
	27	80	05	23	< 0.1
	25	75	04	22	< 0.1
	24	69	07	21	< 0.1
	24	73	06	22	< 0.1
January	24	71	04	19	< 0.1
	28	80	07	24	< 0.1
	25	72	07	24	< 0.1
	24	71	05	17	< 0.1
	26	74	07	26	< 0.1
	29	81	06	22	< 0.1
	27	78	03	20	< 0.1
	25	75	06	28	< 0.1
	23	67	04	21	< 0.1
February	28	79	08	25	< 0.1
	28	80	05	20	< 0.1
	25	78	06	30	< 0.1
	27	78	07	25	< 0.1
	31	78	09	23	< 0.1
	27	79	05	21	< 0.1
	29	82	07	22	< 0.1
	26	76	08	26	< 0.1
	28	79	08	25	< 0.1
March	28	80	03	10	< 0.1
	27	77	03	13	< 0.1
	28	72	09	30	< 0.1
	29	80	06	28	< 0.1
	28	81	08	21	< 0.1
	27	79	07	23	< 0.1
	25	71	06	22	< 0.1
	26	74	06	20	< 0.1
	23	69	08	26	< 0.1

Table No: 4

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-4 (Near Refractory Main Gate)

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	23	66	04	16	< 0.1
	29	83	04	17	< 0.1
	27	77	05	23	< 0.1
	28	80	06	20	< 0.1
	24	71	04	17	< 0.1
	28	81	05	20	< 0.1
	27	79	07	24	< 0.1
	22	65	07	19	< 0.1
	25	73	06	21	< 0.1
November	23	68	07	21	< 0.1
	22	65	06	20	< 0.1
	24	70	05	16	< 0.1
	27	74	08	35	< 0.1
	26	69	09	30	< 0.1
	25	72	08	15	< 0.1
	23	66	04	25	< 0.1
	28	79	03	27	< 0.1
	23	68	07	21	< 0.1
December	28	81	05	18	< 0.1
	27	78	04	15	< 0.1
	25	73	03	17	< 0.1
	25	72	07	26	< 0.1
	23	66	06	20	< 0.1
	26	76	07	26	< 0.1
	24	70	03	24	< 0.1
	24	68	05	21	< 0.1
	28	79	05	21	< 0.1
January	24	71	04	19	< 0.1
	28	80	07	24	< 0.1
	25	72	07	24	< 0.1
	24	71	05	17	< 0.1
	26	74	07	26	< 0.1
	29	81	06	22	< 0.1
	27	78	03	20	< 0.1
	25	75	06	28	< 0.1
	23	67	04	21	< 0.1
February	28	80	06	25	< 0.1
	26	75	05	27	< 0.1
	20	57	09	26	< 0.1
	30	78	05	21	< 0.1
	32	82	08	28	< 0.1
	24	71	06	23	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	27	78	04	17	< 0.1
	27	77	07	22	< 0.1
	28	80	06	25	< 0.1
March	26	75	07	21	< 0.1
	27	79	05	18	< 0.1
	24	71	04	23	< 0.1
	27	79	07	23	< 0.1
	29	80	08	23	< 0.1
	27	77	06	20	< 0.1
	25	76	06	21	< 0.1
	18	55	07	22	< 0.1
	25	75	07	23	< 0.1

Table No: 5

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	24	70	05	22	< 0.1
	21	61	04	19	< 0.1
	29	78	07	31	< 0.1
	22	64	05	16	< 0.1
	24	69	03	14	< 0.1
	27	72	08	25	< 0.1
	23	71	07	23	< 0.1
	24	67	06	20	< 0.1
	22	64	03	16	< 0.1
November	25	73	07	25	< 0.1
	23	68	05	17	< 0.1
	26	76	07	22	< 0.1
	26	70	07	29	< 0.1
	27	69	06	23	< 0.1
	28	78	06	20	< 0.1
	24	67	04	27	< 0.1
	27	74	05	24	< 0.1
	25	73	07	25	< 0.1
December	21	59	03	14	< 0.1
	25	70	07	26	< 0.1
	23	67	04	21	< 0.1
	26	76	07	22	< 0.1
	24	69	07	26	< 0.1
	25	73	05	21	< 0.1
	22	68	06	25	< 0.1
	21	60	08	27	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	22	62	06	20	< 0.1
January	22	65	07	24	< 0.1
	24	69	04	14	< 0.1
	25	74	06	28	< 0.1
	21	62	07	29	< 0.1
	24	70	05	22	< 0.1
	23	67	03	27	< 0.1
	20	62	06	26	< 0.1
	26	72	05	23	< 0.1
	27	71	06	25	< 0.1
February	27	79	07	29	< 0.1
	29	78	06	25	< 0.1
	25	70	09	30	< 0.1
	22	69	04	21	< 0.1
	26	77	06	26	< 0.1
	24	69	07	24	< 0.1
	26	76	05	18	< 0.1
	25	73	07	19	< 0.1
	27	79	07	29	< 0.1
March	25	73	05	20	< 0.1
	24	70	03	23	< 0.1
	26	74	04	15	< 0.1
	22	59	04	21	< 0.1
	26	75	06	17	< 0.1
	25	72	07	20	< 0.1
	26	74	07	26	< 0.1
	24	70	07	25	< 0.1
	26	74	06	19	< 0.1
	25	73	05	20	< 0.1

Table No: 6

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
October	24	71	03	20	< 0.1
	30	86	04	23	< 0.1
	24	69	06	20	< 0.1
	24	69	04	16	< 0.1
	28	79	07	29	< 0.1
	22	70	07	21	< 0.1
	25	75	05	22	< 0.1
	23	68	03	14	< 0.1
	26	75	07	21	< 0.1
November	24	70	06	23	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	24	71	07	23	< 0.1
	26	75	07	23	< 0.1
	26	78	03	19	< 0.1
	30	86	07	25	< 0.1
	27	72	05	21	< 0.1
	25	76	04	20	< 0.1
	28	79	06	26	< 0.1
	24	70	06	23	< 0.1
December	26	77	03	14	< 0.1
	25	72	06	19	< 0.1
	24	71	05	20	< 0.1
	24	71	06	21	< 0.1
	24	70	06	20	< 0.1
	25	72	06	24	< 0.1
	18	54	07	16	< 0.1
	23	68	04	22	< 0.1
	22	66	03	18	< 0.1
January	24	69	03	14	< 0.1
	25	71	07	21	< 0.1
	21	61	07	23	< 0.1
	24	70	07	21	< 0.1
	23	67	06	20	< 0.1
	26	73	05	22	< 0.1
	22	64	04	24	< 0.1
	20	59	03	18	< 0.1
	27	77	08	25	< 0.1
February	25	79	08	27	< 0.1
	24	76	07	28	< 0.1
	23	66	04	21	< 0.1
	30	78	04	23	< 0.1
	29	79	03	21	< 0.1
	25	73	03	16	< 0.1
	23	68	06	21	< 0.1
	24	70	05	15	< 0.1
	25	79	08	27	< 0.1
March	24	68	03	13	< 0.1
	25	74	04	14	< 0.1
	28	79	04	14	< 0.1
	28	73	05	21	< 0.1
	24	70	05	19	< 0.1
	25	72	06	23	< 0.1
	27	75	05	18	< 0.1
	26	74	06	21	< 0.1
	24	75	06	20	< 0.1

Table No 7:

STACK EMISSION MONITORING RESULTS

Months	Location of sampling	PM mg/Nm³	SO_2 mg/Nm³	NO_2 mg/Nm³	Hg mg/Nm³
October	Coal Mill – 1 Bag Filter	09	-	-	-
	Cooler ESP – 1	21	-	-	-
	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	06	-	-	-
	CVRM – 3 Bag Filter	09	-	-	-
	Coal Mill – 2 Bag Filter	22	-	-	-
	Cooler ESP – 2	18	-	-	-
	Kiln & VRM ESP – 1	07	15.84	374.8	-
	Kiln & VRM – 2 RABH	05	38.45	430.3	-
	Boiler 1 & 2 ESP Stack	27	418.42	252.2	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	26	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	05	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	09	59.03	236.3	-
November	Coal Mill – 1 Bag Filter	18	-	-	-
	Cooler ESP – 1	20	-	-	-
	CVRM – 1 Bag Filter	10	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	20	-	-	-
	Cooler ESP – 2	23	-	-	-
	Kiln & VRM ESP – 1	14	37.62	169.57	-
	Kiln & VRM – 2 RABH	07	50.35	220.65	-
	Boiler 1 & 2 ESP Stack	28	442.94	264.81	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	20	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	06	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	09	16.20	128.20	-
December	Coal Mill – 1 Bag Filter	14	-	-	-
	Cooler ESP – 1	08	-	-	-
	CVRM – 1 Bag Filter	06	-	-	-
	CVRM – 2 Bag Filter	16	-	-	-
	CVRM – 3 Bag Filter	05	-	-	-
	Coal Mill – 2 Bag Filter	21	-	-	-
	Cooler ESP – 2	12	-	-	-
	Kiln & VRM ESP – 1	15	12.75	321.14	-
	Kiln & VRM – 2 RABH	05	38.56	142.36	-
	Boiler 1 & 2 ESP Stack	32	431.34	240.67	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	19	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	06	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	06	31.29	150.23	-
January	Coal Mill – 1 Bag Filter	10	-	-	-
	Cooler ESP – 1	16	-	-	-
	CVRM – 1 Bag Filter	07	-	-	-
	CVRM – 2 Bag Filter	10	-	-	-
	CVRM – 3 Bag Filter	06	-	-	-
	Coal Mill – 2 Bag Filter	24	-	-	-
	Cooler ESP – 2	14	-	-	-

Months	Location of sampling	PM mg/Nm³	SO_2 mg/Nm³	NO_2 mg/Nm³	Hg mg/Nm³
	Kiln & VRM ESP – 1	19	17.81	297.88	-
	Kiln & VRM – 2 RABH	06	31.09	214	-
	Boiler 1 & 2 ESP Stack	32	404.08	221.04	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	11	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	05	11.56	112.84	-
February	Coal Mill – 1 Bag Filter	10	-	-	-
	Cooler ESP – 1	12	-	-	-
	CVRM – 1 Bag Filter	12	-	-	-
	CVRM – 2 Bag Filter	20	-	-	-
	CVRM – 3 Bag Filter	21	-	-	-
	Coal Mill – 2 Bag Filter	18	-	-	-
	Cooler ESP – 2	19	-	-	-
	Kiln & VRM ESP – 1	24	48.34	204.03	-
	Kiln & VRM – 2 RABH	09	37.25	298.58	-
	Clinker Cooler Attached To ESP (DSP Unit)	24	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	13	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	12	22.30	325.38	-
March	Coal Mill – 1 Bag Filter	13	-	-	-
	Cooler ESP – 1	12	-	-	-
	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	10	-	-	-
	CVRM – 3 Bag Filter	07	-	-	-
	Coal Mill – 2 Bag Filter	24	-	-	-
	Cooler ESP – 2	22	-	-	-
	Kiln & VRM ESP – 1	20	19.75	301.26	-
	Kiln & VRM – 2 RABH	08	34.67	222.96	-
	Boiler 1 & 2 ESP Stack	36	426.16	230.14	< 0.02
	Clinker Cooler Attached To ESP (DSP Unit)	18	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	10	14.43	128.27	-

Table No 8:

GROUND WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market	Tube Well Village Rani Bandha		
1	Turbidity	0.60	1.4	2.9	0.50	0.80	NTU	5.0
2	pH Value	7.25	7.16	6.58	6.75	6.51	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	173.38	173.38	379.01	467.71	346.75	mg/l	600
4	Iron (as Fe)	0.06	0.09	0.29	0.22	0.24	mg/l	0.3
5	Chlorides (as Cl)	15.65	18.59	45.99	59.68	50.88	mg/l	1000
6	Total Dissolved Solids	269	251	468	532	430	mg/l	2000
7	Electrical Conductivity	420	421	731	869	693	µS/cm	-
8	Calcium (as Ca)	53.33	56.56	119.55	135.75	101.81	mg/l	200
9	Magnesium (as Mg)	9.79	7.84	19.59	31.35	22.53	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)	34.11	32.18	76.96	77.49	62.31	mg/l	400

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market	Tube Well Village Rani Bandha		
13	Total Nitrate (as NO_3)	4.06	4.46	5.49	10.69	3.67	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	144	116	224	192	164	mg/l	600
15	Acidity	04	14	14	20	12	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	17.64	19.69	29.72	20.29	20.13	mg/l	-
18	Potassium (as K)	2.56	2.24	2.19	1.59	2.94	mg/l	-
19	Fluoride (as F)	0.69	0.74	1.04	0.76	0.84	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	27.8	27.8	27.1	27.7	27.1	°C	-
32	Residual Free Chlorine	0.12	0.20	0.29	0.24	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 9:

GROUND WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	1.1	1.0	2.8	0.40	0.60	NTU	5.0
2	pH Value	6.71	6.46	6.72	6.80	6.16	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	548	176	272	384	216	mg/l	600
4	Iron (as Fe)	0.06	0.27	0.09	0.29	0.12	mg/l	0.3
5	Chlorides (as Cl)	226.93	13.99	72.98	58.98	42.99	mg/l	1000
6	Total Dissolved Solids	981	249	524	565	278	mg/l	2000
7	Electrical Conductivity	1635	392	907	869	464	µS/cm	-
8	Calcium (as Ca)	120.24	56.11	49.69	118.64	46.49	mg/l	200
9	Magnesium (as Mg)	60.26	8.75	35.96	21.38	24.30	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)	114.24	20.98	80.69	84.73	22.05	mg/l	400
13	Total Nitrate (as NO_3)	36.91	3.27	12.99	11.76	19.76	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	252	136	236	244	108	mg/l	600
15	Acidity	56	24	42	40	46	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	38.46	7.19	32.54	23.33	10.41	mg/l	-
18	Potassium (as K)	3.11	2.63	1.69	1.27	1.45	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	0.20	< 0.05	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

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.8	25.2	25.0	25.1	25.1	°C	-
32	Residual Free Chlorine	0.21	0.16	0.14	0.20	0.10	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 DECEMBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	5.10	18.3	0.53	0.22	< 0.1	NTU	5.0
2	pH Value	6.78	6.67	7.17	6.93	6.48	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	981	164	308	340	280	mg/l	600
4	Iron (as Fe)	0.06	0.10	0.08	0.22	0.22	mg/l	0.3
5	Chlorides (as Cl)	14.96	13.99	18.99	58.98	50.98	mg/l	1000
6	Total Dissolved Solids	981	282	510	588	490	mg/l	2000
7	Electrical Conductivity	1636	470	851	980	817	µS/cm	-
8	Calcium (as Ca)	173.15	49.69	60.92	99.39	68.94	mg/l	200
9	Magnesium (as Mg)	38.88	9.72	37.91	22.36	26.24	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)	113.53	22.08	16.35	77.84	57.69	mg/l	400
13	Total Nitrate (as NO_3)	85.7	5.08	6.01	10.96	33.64	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	364	144	276	248	156	mg/l	600
15	Acidity	38	16	12	22	26	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	31.71	6.92	10.20	22.29	17.40	mg/l	-
18	Potassium (as K)	1.59	2.86	3.73	1.22	3.18	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	23.7	23.7	23.8	23.9	23.9	°C	-
32	Residual Free Chlorine	0.16	0.16	0.11	0.24	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 11:

GROUND WATER QUALITY RESULT FOR THE MONTH OFJANUARY 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	6.2	8.1	0.20	0.20	0.10	NTU	5.0
2	pH Value	6.67	6.49	6.52	6.83	5.89	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	746.64	167.28	379.44	379.44	159.12	mg/l	600
4	Iron (as Fe)	0.28	0.19	0.21	0.22	0.26	mg/l	0.3
5	Chlorides (as Cl)	246.92	17.99	79.97	62.98	40.98	mg/l	1000
6	Total Dissolved Solids	972	209	523	524	254	mg/l	2000
7	Electrical Conductivity	1621	342	871	874	416	µS/cm	-
8	Calcium (as Ca)	184.78	50.69	114.46	114.46	47.42	mg/l	200
9	Magnesium (as Mg)	69.40	9.91	22.80	22.80	9.91	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)	173.13	17.64	96.36	89.43	23.07	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	11.30	39.14	< 2.20	2.40	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	260	88	116	200	80	mg/l	600
15	Acidity	32	20	26	22	38	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	33.98	6.91	29.35	23.21	9.50	mg/l	-
18	Potassium (as K)	3.10	2.40	1.53	1.04	1.35	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	24.1	24.0	23.7	24.1	23.9	°C	-
32	Residual Free Chlorine	0.39	0.20	0.21	0.32	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 12:

GROUND WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	6.9	4.1	5.0	3.7	0.40	NTU	5.0
2	pH Value	6.44	6.42	6.42	6.51	6.22	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	493.68	167.28	395.76	391.68	297.84	mg/l	600
4	Iron (as Fe)	0.08	0.26	0.16	0.10	0.10	mg/l	0.3
5	Chlorides (as Cl)	113.96	14.99	76.98	57.98	48.98	mg/l	1000
6	Total Dissolved Solids	846	260	583	558	411	mg/l	2000
7	Electrical Conductivity	1459	378	897	884	711	µS/cm	-
8	Calcium (as Ca)	96.48	55.59	116.10	68.68	86.66	mg/l	200
9	Magnesium (as Mg)	61.47	6.94	25.78	53.54	19.73	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	118.52	16.70	90.87	96.86	58.85	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	9.28	32.15	< 2.20	3.27	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	364	144	208	260	172	mg/l	600
15	Acidity	48	18	30	24	32	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	30.03	6.13	27.88	19.11	17.48	mg/l	-
18	Potassium (as K)	1.39	2.52	1.90	1.39	3.10	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	26.7	26.7	26.8	26.7	26.7	°C	-
32	Residual Free Chlorine	0.14	0.04	0.11	0.12	0.09	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 MARCH 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	5.1	1.0	4.5	0.5	0.9	NTU	5.0
2	pH Value	6.79	6.70	6.74	6.95	6.85	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	606.21	192.51	315.39	401.41	159.74	mg/l	600
4	Iron (as Fe)	0.08	0.10	0.12	0.24	0.12	mg/l	0.3
5	Chlorides (as Cl)	14.68	18.59	41.09	59.68	39.14	mg/l	1000
6	Total Dissolved Solids	999	228	466	566	226	mg/l	2000
7	Electrical Conductivity	1665	369	719	906	377	µS/cm	-
8	Calcium (as Ca)	177.30	52.53	78.80	70.59	47.61	mg/l	200
9	Magnesium (as Mg)	39.81	14.93	28.86	54.74	9.95	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)	114.62	12.82	50.48	99.24	22.05	mg/l	400
13	Total Nitrate (as NO_3)	85.7	3.27	5.26	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	368	116	224	256	80	mg/l	600
15	Acidity	24	12	16	20	10	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	34.79	6.28	26.08	20.25	9.51	mg/l	-
18	Potassium (as K)	1.32	2.45	11.42	1.76	1.48	mg/l	-
19	Fluoride (as F)	0.26	< 0.05	< 0.05	< 0.05	< 0.05	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

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
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	29.1	28.9	28.2	28.9	28.6	°C	-
32	Residual Free Chlorine	0.16	0.16	0.16	0.10	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 OCTOBER 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Packing House Drinking Water Point (Line – 1)	Drinking Water Point General Office Ground Floor	Drinking Water Point Near VRM (Line – 2)	Worker Shop Drinking Water Point (Line – 2)	Drinking Water Point Near New Weigh Bridge(DSP Unit)	Drinking Water Near CCR Building 2nd Floor Pantry Room (DSP Unit)		
1	Turbidity	0.40	0.30	0.40	0.20	0.90	0.30	NTU	5.0
2	pH Value	7.49	7.92	7.54	7.61	7.64	7.67	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	201.6	193.54	189.50	197.68	133.06	137.08	mg/l	600
4	Iron (as Fe)	0.15	0.25	0.19	0.20	0.22	0.28	mg/l	0.3
5	Chlorides (as Cl)	11.74	13.69	10.76	11.74	17.61	16.63	mg/l	1000
6	Total Dissolved Solids	232	234	218	256	208	208	mg/l	2000
7	Electrical Conductivity	362	368	357	402	357	358	µS/cm	-
8	Calcium (as Ca)	46.86	51.71	50.09	50.09	35.55	46.86	mg/l	200
9	Magnesium (as Mg)	20.57	15.68	15.68	17.64	10.78	4.89	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)	25.47	21.81	24.94	56.11	30.50	19.48	mg/l	400
13	Total Nitrate (as NO_3)	7.65	< 2.20	2.46	< 2.20	2.61	3.19	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	124	136	120	120	108	124	mg/l	600
15	Acidity	10	06	02	04	08	08	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	4.92	8.23	3.94	4.58	10.35	7.41	mg/l	-
18	Potassium (as K)	2.09	1.96	1.08	2.14	2.48	1.64	mg/l	-
19	Fluoride (as F)	0.26	0.51	0.49	0.51	0.46	0.47	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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	27.7	27.1	27.7	27.7	27.7	27.7	°C	-
32	Residual Free Chlorine	0.16	0.17	0.10	0.09	0.08	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 NOVEMBER 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Pyro Section Worker's Canteen Drinking Water Point	Drinking Water Near Clinker Silo Area	CPP Workers' CanteenDrinking Water Point (Line - 2)	Near Main Gate Drinking Water Point (Line – 2)	Near Workers Canteen Drinking Water Point (DSP Unit)	Near Coal Mill Drinking Water Point (DSP Unit)		
1	Turbidity	0.70	0.50	0.20	0.60	0.20	0.40	NTU	5.0
2	pH Value	8.13	7.95	7.98	8.02	8.02	8.02	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	212	208	208	208	216	216	mg/l	600
4	Iron (as Fe)	0.28	0.26	0.28	0.27	0.24	0.27	mg/l	0.3
5	Chlorides (as Cl)	28.99	18.99	20.99	19.99	21.99	20.99	mg/l	1000
6	Total Dissolved Solids	301	287	289	285	291	294	mg/l	2000
7	Electrical Conductivity	488	455	460	460	460	463	µS/cm	-
8	Calcium (as Ca)	44.89	41.68	48.09	38.48	46.49	48.09	mg/l	200
9	Magnesium (as Mg)	24.3	25.27	21.38	27.22	24.3	22.08	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)	20.12	17.89	18.83	19.24	18.31	19.01	mg/l	400
13	Total Nitrate (as NO_3)	3.71	3.62	< 2.20	4.15	4.33	3.93	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	164	164	164	156	160	164	mg/l	600
15	Acidity	< 2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.64	10.57	10.54	10.77	11.23	10.89	mg/l	-
18	Potassium (as K)	3.65	3.56	3.50	3.59	3.49	3.51	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.9	25.1	24.9	24.9	24.9	24.9	°C	-
32	Residual Free Chlorine	0.10	0.14	0.12	0.11	0.12	0.10	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 DECEMBER 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near Cooler (Line – 1)	Drinking Water Near Clinker Silo(Line - 1)	Central WorkshopDrinking Water Point (Line - 2)	Near CPP Office Building Drinking Water Point(Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water Point (DSP Unit)		
1	Turbidity	0.22	0.25	0.67	< 0.1	0.30	0.05	NTU	5.0
2	pH Value	7.91	7.90	7.95	7.92	7.95	7.92	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	212	212	228	212	232	220	mg/l	600
4	Iron (as Fe)	0.25	0.26	0.24	0.26	0.29	0.28	mg/l	0.3
5	Chlorides (as Cl)	25.99	27.99	34.99	24.99	33.99	24.99	mg/l	1000
6	Total Dissolved Solids	326	345	334	337	356	341	mg/l	2000
7	Electrical Conductivity	563	575	566	562	593	569	µS/cm	-
8	Calcium (as Ca)	36.87	48.09	52.91	44.88	38.48	48.09	mg/l	200
9	Magnesium (as Mg)	29.16	22.36	23.33	24.3	33.05	24.3	mg/l	100

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near Cooler (Line – 1)	Drinking Water Near Clinker Silo(Line - 1)	Central WorkshopDrinking Water Point (Line - 2)	Near CPP Office Building Drinking Water Point(Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water Point (DSP Unit)		
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)	17.24	18.02	18.2	18.04	18.56	18.59	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	4.55	3.80	4.46	5.35	4.33	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	180	172	184	184	176	184	mg/l	600
15	Acidity	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	11.06	10.87	11.38	10.95	11.54	11.55	mg/l	-
18	Potassium (as K)	4.22	4.12	4.19	4.14	4.18	4.17	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	23.9	23.8	23.7	23.7	23.7	23.7	°C	-
32	Residual Free Chlorine	0.17	0.16	0.13	0.14	0.20	0.21	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 JANUARY 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near CVRM – 2 (Line – 1)	Drinking Water Point Near General Office Ground Floor	Workshop Drinking Water Point (Line – 2)	Drinking Water Point Near VRM Area (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (DSP Unit)	Drinking Water Point Near Weigh Bridge (DSP Unit))		
1	Turbidity	0.10	0.30	0.20	0.30	0.20	0.10	NTU	5.0
2	pH Value	7.83	7.98	7.81	7.79	7.86	7.82	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	199.92	199.92	204	199.92	199.92	204	mg/l	600
4	Iron (as Fe)	0.21	0.18	0.24	0.26	0.19	0.20	mg/l	0.3
5	Chlorides (as Cl)	25.99	25.99	23.99	23.99	24.99	23.99	mg/l	1000
6	Total Dissolved Solids	252	246	260	275	246	290	mg/l	2000
7	Electrical Conductivity	419	411	432	459	410	449	µS/cm	-
8	Calcium (as Ca)	47.42	47.42	47.42	45.78	47.42	47.42	mg/l	200
9	Magnesium (as Mg)	19.82	19.82	20.82	20.82	19.82	20.82	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)	22.67	22.82	21.0	22.12	23.09	22.37	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	17.86	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	120	112	128	140	88	156	mg/l	600
15	Acidity	08	06	06	08	08	06	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.36	10.98	10.69	12.0	10.32	10.84	mg/l	-
18	Potassium (as K)	3.65	3.68	3.77	3.78	3.82	3.95	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near CVRM – 2 (Line – 1)	Drinking Water Point Near General Office Ground Floor	Workers' Drinking Water Point (Line – 2)	Drinking Water Point Near VRM Area (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (DSP Unit)	Drinking Water Point Near Weigh Bridge (DSP Unit)		
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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.3	24.4	24.4	24.3	24.3	24.3	°C	-
32	Residual Free Chlorine	0.18	0.36	0.26	0.21	0.20	0.24	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 FEBRUARY 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Main gate Canteen Drinking Water Point (Line – 1)	CPP Canteen Drinking Water Point (Line – 2)	Drinking Water Point Near AFR Area	Guest House Canteen Drinking Water Point	Near Coal Mill Drinking Water Point (DSP Unit)	Near Coal Mill Drinking Water Point (DSP Unit)		
1	Turbidity	0.70	1.1	0.70	< 0.1	2.4	1.3	NTU	5.0
2	pH Value	7.51	7.34	7.43	7.43	7.56	7.61	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	204	224.4	212.16	208.08	204	204	mg/l	600
4	Iron (as Fe)	0.16	0.06	0.27	0.08	0.20	0.21	mg/l	0.3
5	Chlorides (as Cl)	23.99	20.99	26.99	22.99	25.99	22.99	mg/l	1000
6	Total Dissolved Solids	299	290	286	297	278	311	mg/l	2000
7	Electrical Conductivity	451	440	469	446	469	456	µS/cm	-
8	Calcium (as Ca)	45.78	45.78	44.15	52.33	31.07	50.69	mg/l	200
9	Magnesium (as Mg)	21.81	26.76	24.79	18.84	30.73	18.84	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)	24.43	24.16	24.74	26.23	24.54	34.46	mg/l	400
13	Total Nitrate (as NO_3)	3.58	< 2.20	3.98	< 2.20	< 2.20	3.05	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	164	156	144	160	152	164	mg/l	600
15	Acidity	06	06	04	04	02	02	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.92	9.74	11.34	9.87	10.24	10.07	mg/l	-
18	Potassium (as K)	2.96	2.88	2.87	2.92	2.91	2.97	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	26.7	26.7	26.7	26.7	26.7	26.7	°C	-
32	Residual Free Chlorine	0.09	0.06	0.08	0.11	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 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor Drinking Water Point	Near Pyro Workers Canteen Drinking Water Point (Line – 1)	Near CPP Office Building Drinking Water Point (Line – 2)	Near VRM Drinking Water Point (Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	General Office Ground Floor Drinking Water Point (DSP Unit)		
1	Turbidity	0.4	0.6	0.3	0.4	0.3	0.4	NTU	5.0
2	pH Value	7.82	7.59	7.63	7.64	7.63	7.82	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	225.28	217.08	221.18	208.89	217.08	225.28	mg/l	600
4	Iron (as Fe)	0.25	0.23	0.24	0.19	0.26	0.25	mg/l	0.3
5	Chlorides (as Cl)	25.44	24.46	24.46	25.44	25.44	25.44	mg/l	1000
6	Total Dissolved Solids	296	304	303	299	307	296	mg/l	2000
7	Electrical Conductivity	494	487	506	498	490	494	µS/cm	-
8	Calcium (as Ca)	41.04	34.48	45.96	47.61	37.76	41.04	mg/l	200
9	Magnesium (as Mg)	29.86	31.85	25.87	21.89	29.85	29.86	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)	21.81	17.24	20.25	21.08	17.58	21.81	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	< 2.20	3.24	< 2.20	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	124	180	168	120	180	124	mg/l	600
15	Acidity	< 2.0	04	04	02	04	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.23	11.37	10.91	12.48	11.49	9.23	mg/l	-
18	Potassium (as K)	1.96	4.24	3.74	2.09	4.31	1.96	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	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	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	29.1	29.0	29.1	28.8	29.1	29.0	°C	-
32	Residual Free Chlorine	0.17	0.17	0.14	0.10	0.17	0.17	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 OCTOBER 2024

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.10	7.12	7.55	7.66	-	6.5 – 8.5
2	Electrical Conductivity	428	425	371	382	µS/cm	-
3	Total Dissolved Solids	257	255	222	230	mg/l	1500
4	Total Hardness (as $CaCO_3$)	209.66	205.63	169.34	205.63	mg/l	-
5	Chlorides (as Cl)	16.63	16.63	17.61	13.69	mg/l	600
6	Sulfate (as SO_4)	21.53	20.14	23.82	15.59	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	0.50	0.56	0.60	0.59	mg/l	1.5
9	Calcium (as Ca)	54.94	54.94	38.78	53.33	mg/l	-

Sl	Parameter	Results Obtained				Unit	Surface Water Quality
10	Magnesium (as Mg)	17.63	16.66	17.64	17.63	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.21	0.32	0.29	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	-	-
24	Dissolved Oxygen (Min.)	6.1	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	02	01	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)	5.28	3.52	5.28	3.52	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_6H_5OH)	< 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 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.65	7.67	7.44	8.00	-	6.5 – 8.5
2	Electrical Conductivity	564	560	866	484	µS/cm	-
3	Total Dissolved Solids	338	336	520	290	mg/l	1500
4	Total Hardness (as $CaCO_3$)	208	216	288	220	mg/l	-
5	Chlorides (as Cl)	27.99	25.99	60.98	19.99	mg/l	600
6	Sulfate (as SO_4)	27.22	28.46	57.49	18.91	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	3.22	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	48.09	46.49	57.72	43.28	mg/l	-
10	Magnesium (as Mg)	21.38	24.30	34.99	27.22	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.21	0.25	0.29	0.26	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	-	-
24	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	02	01	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	< 0.10	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

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
30	Phenolic Compounds (as C_6H_5OH)	< 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	100	10	Nos/100ml	5000

Table No 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.28	7.40	7.30	7.55	-	6.5 – 8.5
2	Electrical Conductivity	810	815	1027	627	µS/cm	-
3	Total Dissolved Solids	486	489	616	376	mg/l	1500
4	Total Hardness (as $CaCO_3$)	244	240	300	220	mg/l	-
5	Chlorides (as Cl)	46.98	50.98	64.94	21.99	mg/l	600
6	Sulfate (as SO_4)	40.08	39.49	69.99	21.16	mg/l	400
7	Total Nitrate (as NO_3)	2.29	< 2.20	< 2.20	4.46	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	46.49	46.49	65.73	49.69	mg/l	-
10	Magnesium (as Mg)	31.10	30.13	33.05	23.33	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.26	0.32	0.29	0.25	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	-	-
24	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	01	01	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	8.8	12.32	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_6H_5OH)	< 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	100	10	Nos/100ml	5000

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	6.98	7.53	7.05	7.40	-	6.5 – 8.5
2	Electrical Conductivity	837	833	820	440	µS/cm	-

Sl	Parameter	Results Obtained				Unit	Surface Water
3	Total Dissolved Solids	503	500	492	264	mg/l	1500
4	Total Hardness (as $CaCO_3$)	314.16	314.16	314.16	204	mg/l	-
5	Chlorides (as Cl)	85.97	77.97	60.98	19.99	mg/l	600
6	Sulfate (as SO_4)	58.50	55.78	61.41	19.02	mg/l	400
7	Total Nitrate (as NO_3)	16.90	2.36	< 2.20	4.26	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	65.41	65.41	65.41	47.42	mg/l	-
10	Magnesium (as Mg)	36.68	36.68	36.68	20.82	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.31	0.34	0.30	0.28	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	-	-
24	Dissolved Oxygen (Min.)	6.2	6.0	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)	17.6	8.8	17.6	8.8	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_6H_5OH)	< 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	100	10	10	Nos/100ml	5000

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.07	6.98	6.98	7.09	-	6.5 – 8.5
2	Electrical Conductivity	938	869	905	438	µS/cm	-
3	Total Dissolved Solids	563	521	552	264	mg/l	1500
4	Total Hardness (as $CaCO_3$)	334.56	306	289.68	208.08	mg/l	-
5	Chlorides (as Cl)	97.96	88.97	72.98	19.99	mg/l	600
6	Sulfate (as SO_4)	61.7	59.88	58.28	23.74	mg/l	400
7	Total Nitrate (as NO_3)	10.29	< 2.20	< 2.20	4.11	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	94.84	60.50	80.13	37.61	mg/l	-
10	Magnesium (as Mg)	23.79	37.67	21.81	27.76	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.16	0.27	0.17	0.29	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	-	-

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.0	6.2	6.1	6.3	mg/l	4
25	BOD 5 days at 20°C	02	01	01	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	8.8	8.8	5.28	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_6H_5OH)	< 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	100	10	10	Nos/100ml	5000

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.36	7.26	7.16	7.05	-	6.5 – 8.5
2	Electrical Conductivity	923	921	940	364	µS/cm	-
3	Total Dissolved Solids	554	553	564	218	mg/l	1500
4	Total Hardness (as $CaCO_3$)	339.96	315.39	344.06	167.94	mg/l	-
5	Chlorides (as Cl)	98.96	90.01	73.38	11.74	mg/l	600
6	Sulfate (as SO_4)	59.45	61.11	58.34	17.26	mg/l	400
7	Total Nitrate (as NO_3)	4.01	3.96	2.96	< 2.20	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	96.86	62.38	96.86	39.40	mg/l	-
10	Magnesium (as Mg)	24.88	38.82	24.88	16.92	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10.	mg/l	1.5
12	Iron (as Fe)	0.24	0.29	0.30	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/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	-	-
24	Dissolved Oxygen (Min.)	6.1	6.0	6.0	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)	8.8	7.04	10.56	5.28	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_6H_5OH)	< 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	100	100	10	Nos/100ml	5000

Table No 26:

26.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

Sl No	Parameters	Results Obtained						Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
1	pH Value	7.36	7.36	7.49	7.65	7.42	7.48	-
2.	Total Suspended Solids	< 2.5	9.0	< 2.5	11.2	06	6.7	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	BOD 5days at 20°C	30	40	140	30	35	40	mg/l
5.	COD	92.46	122.62	420.16	92.462	109.92	122.82	mg/l

26.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH		
1	pH Value	7.50	7.44	7.56	7.61	7.39	7.54	5.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	7.0	< 2.5	6.4	< 2.5	< 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	10	28	14	14	10	13	-	mg/l
5.	COD	33.612	85.712	43.118	43.461	32.481	40.251	-	mg/l

Table No 27 :

27.1 EFFLUENT WATER QUALITY RESULT OF BOILER BLOW DOWN (CPP)

Sl No	Parameters	Results Obtained					Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	MARCH	
1	pH Value	8.26	8.88	7.67	8.25	8.96	-
2.	Total Suspended Solids	< 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	mg/l
4.	COD	25.624	27.162	24.621	26.362	25.819	mg/l
5.	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
6.	Iron (as Fe)	0.28	0.24	0.30	0.23	0.22	mg/l

27.2 EFFLUENT WATER QUALITY RESULT OF COOLING TOWER BLOW DOWN (CPP)

Sl No	Parameters	Results Obtained					Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	MARCH	
1	pH Value	8.21	8.61	7.63	8.08	8.63	-
2.	Total Suspended Solids	14	63	< 2.5	20.2	14.2	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	Total Nitrate (as NO_3)	5.56	5.43	4.96	5.02	5.24	mg/l
5.	Phosphate (as PO_4)	2.45	2.02	2.32	2.36	2.26	mg/l
6.	Total Chromium (as Cr)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
7.	Zinc (as Zn)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
8.	Residual Chlorine (as Cl_2)	0.22	0.26	0.18	0.20	0.23	mg/l

Table No 28 :

EFFLUENT WATER QUALITY RESULT OF STP OUTLET (LINE – 2)

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH		
1	pH Value	7.28	7.34	7.46	7.47	7.14	7.24	6.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	19	< 2.5	18.4	14.0	5.1	100	mg/l
3.	BOD 5days at 20°C	27	22	27	29	14	10	30	mg/l
4.	COD	78.60	77.46	83.42	88.20	45.612	32.490	-	mg/l
5.	Fecal coliform	100	100	100	100	100	100	1000	mg/l

Table No 29:

EFFLUENT WATER QUALITY RESULT OF STP OUTLET (DSP UNIT)

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH		
1	pH Value	7.49	7.41	7.50	7.51	7.14	7.26	6.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	8.0	< 2.5	26.4	14.0	31.8	100	mg/l
3.	BOD 5days at 20°C	23	24	25	28	14	28	30	mg/l
4.	COD	70.462	73.416	76.80	86.60	45.612	85.112	-	mg/l
5.	Fecal Coliform	100	100	100	100	100	1000	1000	mg/l

Table No 30:

SOIL QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

Sl. No.	Parameter	Unit	In front of HR office	AFR Area (Line – 2)	STP Area (DSP Unit)
1.	Colour	-	Brownish	Greyish	Brownish
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	1.4	1.6	1.5
5.	pH (1:2 Suspension)	-	7.85	8.30	8.62
6.	Electrical Conductivity	µS/cm	233	348	386
7.	Iron	mg/kg	3.92	6.28	2.21
8.	Calcium	mg/kg	185	210	182
9.	Available Potassium (as K_2O)	Kg/ha	516	639.12	597.48
10.	Organic Carbon	%	0.88	< 0.50	0.90
11.	Available Nitrogen (as N)	Kg/ha	426.49	263.42	263.42
12.	Manganese	mg/kg	7.53	8.46	7.83
13.	Infiltration Rate	cm/hr	7.34	5.26	6.26
14.	Porosity	g/cm^3	0.23	0.19	0.34
15.	Moisture Content	%	20.44	22.84	21.75
16.	Chloride	mg/kg	0.21	0.18	0.31
17.	Sulphate	mg/kg	0.56	0.39	0.48
18.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0

Table No 31:

SOIL QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl. No.	Parameter	Unit	AFR Area (Line – 1)	Water Harvesting Pond (Line – 2)	Konark Vihar Area (Line – 2)	AFR Area DSP Unit
1.	Colour	-	Greyish	Greyish	Brownish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Loam	Silty Loam
4.	Bulk Density	gm/cm^3	1.6	1.5	1.4	1.6
5.	pH (1:2 Suspension)	-	7.70	7.41	7.30	7.58
6.	Electrical Conductivity	µS/cm	402	679	289	453
7.	Iron	mg/kg	3.86	6.34	5.45	4.32
8.	Calcium	mg/kg	190	215	185	194
9.	Available Potassium (as K_2O)	Kg/ha	497.28	439.56	339.24	784.8
10.	Organic Carbon	%	2.84	1.024	2.72	3.62
11.	Available Nitrogen (as N)	Kg/ha	137.98	225.79	112.89	250.86
12.	Manganese	mg/kg	4.55	8.22	5.65	6.25
13.	Infiltration Rate	cm/hr	7.28	5.69	6.25	5.60
14.	Porosity	g/cm^3	0.26	0.22	0.24	0.40
15.	Moisture Content	%	20.5	22.5	24.3	25.6
16.	Chloride	mg/kg	0.28	0.22	0.30	0.45
17.	Sulphate	mg/kg	0.62	0.45	0.52	0.68
18.	Available Phosphorous (as P_2O_5)	Kg/ha	10.96	< 5.0	< 5.0	14.96

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

Sl. No.	Parameter	Unit	Inside Store Yard (Line – 1)	132 KV Station Area (Line – 2)	Near Weigh Bridge DSP Unit
1.	Colour	-	Greyish	Greyish	Brownish
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	1.8	1.42
5.	pH (1:2 Suspension)	-	7.83	8.50	8.75
6.	Electrical Conductivity	µS/cm	1421	467	452
7.	Iron	mg/kg	3.92	6.28	5.08
8.	Calcium	mg/kg	185	210	188
9.	Available Potassium (as K_2O)	Kg/ha	643.8	559.68	71.64
10.	Organic Carbon	%	3.03	1.5091	< 0.50
11.	Available Nitrogen (as N)	Kg/ha	87.80	150.528	37.63
12.	Manganese	mg/kg	9.61	7.95	9.02
13.	Infiltration Rate	cm/hr	6.54	4.65	9.64
14.	Porosity	g/cm^3	0.18	0.20	0.85
15.	Moisture Content	%	21.2	16.5	32.0
16.	Chloride	mg/kg	0.11	0.18	0.18
17.	Sulphate	mg/kg	0.60	0.58	0.76
18.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JANUARY 2025

Sl. No.	Parameter	Unit	ETP Area (Line -1)	STP Area (Line – 2)	Liquid AFR AREA (DSP UNIT)
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	1.4	1.7	1.34
5.	pH (1:2 Suspension)	-	7.62	8.42	8.88
6.	Electrical Conductivity	µS/cm	398	625	320
7.	Iron	mg/kg	4.8	4.88	6.04
8.	Calcium	mg/kg	168	189	197
9.	Available Potassium (as K_2O)	Kg/ha	173.16	261.72	279
10.	Organic Carbon	%	0.57	1.20	0.94
11.	Available Nitrogen (as N)	Kg/ha	175.61	137.98	150.52
12.	Manganese	mg/kg	8.62	7.53	9.02
13.	Infiltration Rate	cm/hr	5.54	4.74	9.64
14.	Porosity	g/cm^3	0.18	0.20	0.85
15.	Moisture Content	%	20.2	23.7	25.3
16.	Chloride	mg/kg	0.19	0.15	0.21
17.	Sulphate	mg/kg	0.54	0.69	0.86
18.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0

Table No 34:

SOIL QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

Sl. No.	Parameter	Unit	In Front Of HR Office (Line -1)	AFR Area (Line – 2)	Konark Vihar Area	STP Area (DSP Unit)
1.	Colour	-	Brownish	Greyish	Brownish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Silty Clay Loam	Clay Loam	Clay Loam	Silty Loam
4.	Bulk Density	gm/cm^3	1.4	1.6	1.5	1.8
5.	pH (1:2 Suspension)	-	8.22	7.84	8.22	8.07
6.	Electrical Conductivity	µS/cm	342	615	312	605
7.	Iron	mg/kg	7.05	6.13	7.21	7.02
8.	Calcium	mg/kg	163	184	170	157
9.	Available Potassium (as K_2O)	Kg/ha	326.40	466.08	257.64	305.76
10.	Organic Carbon	%	0.90	3.15	1.09	1.60
11.	Available Nitrogen (as N)	Kg/ha	188.16	188.16	238.34	225.79
12.	Manganese	mg/kg	9.76	8.63	9.23	5.02
13.	Infiltration Rate	cm/hr	4.77	4.26	4.26	7.39
14.	Porosity	g/cm^3	0.20	0.21	0.19	0.12
15.	Moisture Content	%	22.84	21.2	22.5	20.74
16.	Chloride	mg/kg	0.23	0.19	0.16	0.26
17.	Sulphate	mg/kg	0.8	0.61	0.71	0.67
18.	Available Phosphorous(as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0	< 5.0

Table No 35:

SOIL QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl. No.	Parameter	Unit	Inside Storeyard (Line -1)	Water Harvesting Pond (Line – 2)	AFR Area (DSP UNIT)
1.	Colour	-	Greyish	Brownish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Clay Loam	Silty Loam
4.	Bulk Density	gm/cm^3	2.24	2.5	1.2
5.	pH (1:2 Suspension)	-	8.21	8.05	7.86
6.	Electrical Conductivity	µS/cm	487	948	427
7.	Iron	mg/kg	6.2	6.34	5.08
8.	Calcium	mg/kg	184	221	174
9.	Available Potassium (as K_2O)	Kg/ha	179.52	365.64	431.28
10.	Organic Carbon	%	1.10	0.88	0.80
11.	Available Nitrogen (as N)	Kg/ha	125.44	213.25	175.62
12.	Manganese	mg/kg	8.9	8.22	5.64
13.	Infiltration Rate	cm/hr	8.64	9.69	7.62
14.	Porosity	g/cm^3	0.18	0.22	0.12
15.	Moisture Content	%	26.9	28.5	28.7
16.	Chloride	mg/kg	0.19	0.11	0.12
17.	Sulphate	mg/kg	0.63	0.55	0.72
18.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0

Table No: 36:

NOISE LEVEL MONITORING DATA

From 01.10.2024 to 31.03.2025

Month	Location	L_{eq} dB(A) Day Time	L_{eq} dB(A) Night Time
October	Main gate Near Canteen (Line – 1)	61.0	59.3
	General Store (Line – 1)	59.8	60.3
	Guest House Area	56.0	50.6
	Konark Vihar	49.9	43.0
	CPP Area (Line – 2)	61.2	59.9
	TT 4 Area (Line – 2)	61.3	62.1
	Project Gate Area (DSP Unit)	48.8	52.2
	General Store Area (DSP Unit)	60.4	59.6
November	Atithi Niwas	59.7	50.1
	General Store (Line – 1)	58.0	56.5
	Guest House Area	54.5	48.0
	Konark Vihar	46.4	40.3
	CCR Building Area (Line – 2)	66.5	65.7
	Refractory Main Gate	66.2	66.2
	STP Area (DSP Unit)	55.8	54.4
	AFR Storage Area (DSP Unit)	50.8	39.8
December	Main gate Near Canteen (Line – 1)	55.4	52.0
	B .G Loco Gate Area (Line – 1)	59.5	58.0
	Guest House Area	53.6	42.8
	Konark Vihar	44.4	42.7
	CPP Area(Line – 2)	54.6	51.9
	TT – 4 Area (Line – 2)	55.5	48.7
	General Store Area (DSP Unit)	58.5	57.2
	Project Gate Area (DSP Unit)	59.4	63.1
January	Near General Store Area (Line – 1)	61.2	59.0

Month	Location	L_{eq} dB(A) Day Time	L_{eq} dB(A) Night Time
	Refractory Main Gate Area (Line – 1)	65.7	64.9
	Guest House Area	54.9	42.1
	Konark Vihar	41.3	34.4
	Workshop Area(Line – 2)	51.8	52.5
	CCR Building (Line – 2)	62.9	59.0
	AFR Storage Area (DSP Unit)	60.0	59.0
	STP Area (DSP Unit)	65.5	65.4
February	Near General Store Area (Line – 1)	56.1	52.6
	Refractory Main Gate Area (Line – 1)	61.2	59.6
	Guest House Area	55.6	49.3
	Konark Vihar	42.2	38.1
	CPP Area (Line – 2)	49.1	43.1
	Lime Stone Transfer Point Area (Line – 2)	69.0	68.1
	General Store Area (DSP Unit)	58.8	57.1
	Project Gate Area (DSP Unit)	58.6	58.0
March	Near General Store Area (Line – 1)	60.0	58.8
	Refractory Main Gate Area (Line – 1)	65.0	65.3
	Guest House Area	53.9	45.0
	Konark Vihar	48.8	36.3
	Workshop Area(Line – 2)	59.2	57.4
	CCR Building (Line – 2)	70.0	70.2
	General Store Area (DSP Unit)	60.0	60.7
	Project Gate Area (DSP Unit)	68.6	68.6

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