

**Your (Half Yearly Compliance Report) has been Submitted with following details**

<b>Proposal No</b>	IA/OR/IND/59484/2016
<b>Compliance ID</b>	1229524130
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/1229524130/2026
<b>Reporting Year</b>	2026
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	29-05-2026
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	ODISHA
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Bhubaneswar

**Note:-** SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, ODISHA with Notification to Project Proponent.

DDSP/MOEFCC/001/2026-27/027  
May 26, 2026.

To,  
**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 2025 to March 2026.**

**Ref: Environment 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 2025 to March 2026.

Thanking you,

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



Pankaj Kumar  
**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, OSPCCB, Bhubaneswar, Odisha.**

**Half Yearly Compliance Report  
2026  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>	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.		
<b>Name of Entity / Corporate Office</b>	Dalmia Cement (Bharat) Limited		
<b>Village(s)</b>	N/A		
<b>District</b>	SUNDARGARH		
<b>Proposal No.</b>	IA/OR/IND/59484/2016	<b>Category</b>	Industrial Projects - 2
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	ODISHA	<b>Entity's PAN</b>	*****9414C
<b>MoEF File No.</b>	J-11011/232/2016-IA.II (I)	<b>Entity name as per PAN</b>	DALMIA CEMENT (BHARAT) LIMITED

**Compliance Reporting Details**

**Reporting Year**                      2026  
**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

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	0	0.02
Revenue Land	39.27	46.207
Forest	0	0
Others	N/A	N/A
<b>Total</b>	<b>39.27</b>	<b>46.227000000000004</b>

**Others Area**

Sr. no	Other Name	Area Granted	Area Actual
--------	------------	--------------	-------------

**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	2452441	3900000
2	WHRB	MW	31/03/2028	15	89735	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.
<b>PPs Submission:</b> Being Complied The amount earmarked for social commitments has been utilized as capital expenditure on health, education, livelihood and skill development initiatives.		Date: 29/05/2026
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 from the date of issue of EC. In addition to this 1500 additional plants shall be planted within the premises.
<b>PPs Submission:</b> Complied Green cover has been developed in and around the plant premises in consultation with the local DFO.		Date: 28/05/2026
3	WASTE MANAGEMENT	4. Kitchen waste shall be composted or converted to biogas for further use.
<b>PPs Submission:</b> Complied Mechanical bio-digester has been installed for composting of food and kitchen wastes which is further used as organic manure in horticulture.		Date: 28/05/2026
4	ENERGY PRESERVATION MEASURES	5. The project proponent shall adopt the slip power recovery system for energy conservation.
<b>PPs Submission:</b> Complied Slip power recovery system is in place for energy conservation.		Date: 28/05/2026
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.
<b>PPs Submission:</b> Complied No Schedule I species found within the project area.		Date: 28/05/2026
6	WATER QUALITY	No ground water shall be used for plant & township

	MONITORING AND PRESERVATION	
<b>PPs Submission:</b> Complied Ground water is not used in the plant or township.		<b>Date:</b> 28/05/2026
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.
<b>PPs Submission:</b> Complied The funds have been utilized for environmental protection and has not been diverted for any other purpose.		<b>Date:</b> 28/05/2026
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	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;
<b>PPs Submission:</b> Complied Continuous Emission Monitoring System (CEMS) have been installed in all process stacks and are connected to the Board server and real time data is being transmitted.		<b>Date:</b> 28/05/2026
2	AIR QUALITY MONITORING AND PRESERVATION	b. Monitor fugitive emissions in the plant premises;
<b>PPs Submission:</b> Complied Fugitive emissions are being regularly monitored within plant premises. Report attached.		<b>Date:</b> 28/05/2026
3	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 16th 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
<b>PPs Submission:</b> Complied Total of 5 nos. CAAQMS Stations have been installed within and outside the plant premises.		<b>Date:</b> 28/05/2026
4	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.
<b>PPs Submission:</b> Complied Six monthly compliance report along with monitored results are submitted to the statutory bodies periodically. The Monitoring Report attached.		<b>Date:</b> 28/05/2026
5	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-

	PRESERVATION	monthly monitoring report.
<b>PPs Submission:</b> Complied Six monthly compliance report along with monitored results are submitted to the statutory bodies periodically. The Monitoring Report attached.		Date: 28/05/2026
6	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;
<b>PPs Submission:</b> Complied Auxillary Bag filters, Bag houses and dust suppression systems have been installed at dust generating points including transfer towers.		Date: 28/05/2026
7	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.
<b>PPs Submission:</b> Complied Bag filters have been adequately designed and installed to control the PM emissions below 30 mg/Nm3.		Date: 28/05/2026
8	AIR QUALITY MONITORING AND PRESERVATION	c) Provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags:
<b>PPs Submission:</b> Complied Bag Houses are provided with leakage detection and mechanized bag cleaning facilities.		Date: 28/05/2026
9	AIR QUALITY MONITORING AND PRESERVATION	d) Provide pollution control system in the cement plant as per the CREP Guidelines of CPCB;
<b>PPs Submission:</b> Complied Pollution control measures installed as recommended.		Date: 28/05/2026
10	AIR QUALITY MONITORING AND PRESERVATION	e) Provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;
<b>PPs Submission:</b> Complied Heavy-duty mechanical road sweeper along with mechanized sweeping machines have been deployed to clean the roads and shop floors.		Date: 28/05/2026
11	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;
<b>PPs Submission:</b> Complied Lime and coal fines collected in the pollution control devices are recycled and reused.		Date: 28/05/2026
12	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;
<b>PPs Submission:</b> Complied Tarpaulin covered trucks are used for carrying raw materials. Closed bulkers and railway rakes are		Date: 28/05/2026

	used for fly ash transportation	
13	AIR QUALITY MONITORING AND PRESERVATION	h) Provide wind shelter fence and chemical spraying on the raw material stock piles:
<b>PPs Submission:</b> Complied Wind barriers have been provided near raw material stock piles along with green cover.		Date: 28/05/2026
14	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:
<b>PPs Submission:</b> Complied Low NOx burners have been installed to control NOx emissions.		Date: 28/05/2026
15	AIR QUALITY MONITORING AND PRESERVATION	j) Have separate truck parking area and monitor vehicular emissions at regular interval.
<b>PPs Submission:</b> Complied A dedicated truck parking area has been provided and vehicular emissions are monitored periodically.		Date: 28/05/2026
16	WATER QUALITY MONITORING AND PRESERVATION	a) Adhere to “zero liquid discharge”;
<b>PPs Submission:</b> Complied Cement manufacturing is a dry process, and zero liquid discharge is being adhered to except monsoon.		Date: 28/05/2026
17	WATER QUALITY MONITORING AND PRESERVATION	b) Provide Sewage Treatment Plant for domestic wastewater
<b>PPs Submission:</b> Complied Domestic wastewater is treated in Sewage Treatment Plant.		Date: 28/05/2026
18	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.
<b>PPs Submission:</b> Complied Garland drains with collection pits are provided at stockpile area.		Date: 28/05/2026
19	WATER QUALITY MONITORING AND PRESERVATION	a) Practice rainwater harvesting to maximum possible extent;
<b>PPs Submission:</b> Being Complied Rainwater harvesting is being practiced.		Date: 28/05/2026
20	WATER QUALITY MONITORING AND PRESERVATION	b) Provide water meters at the inlet to all unit processes in the cement plants:

<p><b>PPs Submission:</b> Complied Water meter has been installed.</p>		<p>Date: 28/05/2026</p>
21	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>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.</p>
<p><b>PPs Submission:</b> Complied Water conservation efforts are practised to minimize the freshwater consumption by maximizing the use of recycled water</p>		<p>Date: 28/05/2026</p>
22	<p>ENERGY PRESERVATION MEASURES</p>	<p>6 (a) provide Waste heat recovery system for kiln and cooler;</p>
<p><b>PPs Submission:</b> Complied A 15 MW Green Power plant has been installed having waste heat recovery system for kiln and cooler.</p>		<p>Date: 28/05/2026</p>
23	<p>ENERGY PRESERVATION MEASURES</p>	<p>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;</p>
<p><b>PPs Submission:</b> Being Complied Efforts are being made to lower the power and thermal energy consumption within the stipulated norms.</p>		<p>Date: 28/05/2026</p>
24	<p>ENERGY PRESERVATION MEASURES</p>	<p>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;</p>
<p><b>PPs Submission:</b> Complied 1.732 MW Solar power system has been installed.</p>		<p>Date: 29/05/2026</p>
25	<p>ENERGY PRESERVATION MEASURES</p>	<p>6 (d) provide the project proponent for LED lights in their offices and residential areas:</p>
<p><b>PPs Submission:</b> Complied LED lights are used in offices as well as residential areas.</p>		<p>Date: 29/05/2026</p>
26	<p>ENERGY PRESERVATION MEASURES</p>	<p>6 (e) maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards;</p>
<p><b>PPs Submission:</b> Complied Maximum utilization of fly ash as well as slag is done in the cement blend.</p>		<p>Date: 29/05/2026</p>
27	<p>ENERGY PRESERVATION MEASURES</p>	<p>6 (f) maximize utilization of alternate fuels and Co-processing to achieve best practice norms.</p>
<p><b>PPs Submission:</b> Complied Co-processing of Hazardous wastes as alternate fuels and raw mix is being carried out.</p>		<p>Date: 29/05/2026</p>
28	<p>Human Health Environment</p>	<p>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.</p>

<p><b>PPs Submission:</b> Complied Raw material like limestone is being transported through cross-country closed belt conveyor (CCBC), other material/product is being transported through railway/ covered trucks.</p>		<p>Date: 29/05/2026</p>
29	WASTE MANAGEMENT	8. Used refractories shall be recycled as far as possible.
<p><b>PPs Submission:</b> Complied Used refractories are recycled to the maximum extent possible.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Being Complied GHG emissions are monitored and tracked on regular basis and RDF as alternate fuel is being used to the maximum extent to reduce the fuel consumption. Plantation is carried out on a regular basis.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Complied Emergency Preparedness Plan based on HIRA and DMP is implemented at site along with mock drills conducted at regular intervals to check the effectiveness of the same.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Complied PPEs have been made mandatory job specific and heat stress analysis carried out for workmen working in high temperature zone.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Complied Environment Policy is in place and compliance status are reviewed at Board of Directors level periodically.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Complied All recommendations made in the CREP guidelines for Cement Plant are being adhered to.</p>		<p>Date: 29/05/2026</p>
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.
<p><b>PPs Submission:</b> Complied An Environmental Cell is in place with Head of Cell directly reporting to the Unit Head.</p>		<p>Date: 29/05/2026</p>

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.
<b>PPs Submission:</b> Complied Necessary basic infrastructure was provided to workers and labour during the construction phase		Date: 29/05/2026
37	Statutory compliance	16. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
<b>PPs Submission:</b> Being Complied Noted		Date: 29/05/2026
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).
<b>PPs Submission:</b> Complied Noted and no expansion/modification will be carried out without obtaining prior approval from the Ministry.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied Waste Oil, Grease and other Hazardous wastes are handled and disposed off as per HOWM Rules 2016 and amendments thereof.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied Chemicals are being stored properly in designated and earmarked areas as per storage rules.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied The ambient noise levels monitored are well within the stipulated norms. Report attached as annexure.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied The health surveillance of the workers as well as executives is done periodically, and records are maintained.		Date: 29/05/2026
43	MISCELLANEOUS	22. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.

<b>PPs Submission:</b> Complied Complied and being monitored.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied Ventilation system has been designed for adequate air changes in all tunnels, motor houses, cement bagging plants.		Date: 29/05/2026
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.
<b>PPs Submission:</b> Complied Wastes are segregated and stored in colour coded bins. Housekeeping is done on a regular basis.		Date: 29/05/2026
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:
<b>PPs Submission:</b> Complied Copies of the Environmental Clearance were submitted to heads of local bodies and relevant Govt. Offices.		Date: 29/05/2026
47	Statutory compliance	25 (b) put on the clearance letter on the web site of the company for access to the Public.
<b>PPs Submission:</b> Complied Environmental Clearance Letter has been uploaded and made available on company website.		Date: 29/05/2026
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .
<b>PPs Submission:</b> 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: 29/05/2026
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
<b>PPs Submission:</b> Complied Status on compliance of EC conditions along with the environment monitoring data are uploaded periodically.		Date: 29/05/2026
50	Statutory compliance	25 (e) monitor the criteria pollutants Level namely PM10, SO2, 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;	
<b>PPs Submission:</b> Complied Stack emissions as well as ambient air quality are monitored and results displayed in public as well as uploaded on company website.			<b>Date:</b> 29/05/2026
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:	
<b>PPs Submission:</b> Complied Six monthly compliance reports including environment monitoring data are submitted to the statutory bodies. The last report was submitted on 24.10.2025.			<b>Date:</b> 29/05/2026
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;	
<b>PPs Submission:</b> Complied Environmental Statement in Form V has been submitted to OSPCB on 18.09.2025. The same is uploaded periodically on company website.			<b>Date:</b> 29/05/2026
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.	
<b>PPs Submission:</b> 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.			<b>Date:</b> 29/05/2026
54	MISCELLANEOUS	26. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	
<b>PPs Submission:</b> Complied Noted.			<b>Date:</b> 29/05/2026
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.	
<b>PPs Submission:</b> Complied Noted.			<b>Date:</b> 29/05/2026
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.	
<b>PPs Submission:</b> Being Complied All commitments and recommendations made in the EIA/EMP report are being implemented.			<b>Date:</b> 29/05/2026
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.
<b>PPs Submission:</b> Complied Noted.		<b>Date:</b> 29/05/2026
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.
<b>PPs Submission:</b> Complied Noted.		<b>Date:</b> 29/05/2026
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;
<b>PPs Submission:</b> Complied Cement manufacturing being a dry process, no such effluent is generated and wastewater generated is recycled back in the cooling circuit and also used for dust suppression on the roads as well as raw material stock piles.		<b>Date:</b> 29/05/2026
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		The detailed environment monitoring report for the period of October 2025 to March 2026 is attached as additional attachment.
<p><b>Note:</b> 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.</p>		

# ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

**OCTOBER 2025 – MARCH 2026**

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](mailto:cleenviron@gmail.com)

## 1. DATA ANALYSIS

### 1.1 Micro-meteorological Study:

#### 1.1.1 Wind Speed & Wind Direction

During the entire period from 1<sup>st</sup> October 2025 to 31<sup>st</sup> March 2026 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 11.26%, while considering the 24 hourly data. 13.25% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 7.81% calm condition prevailed from 14hrs to 22hrs and 12.57% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from South with average wind speed 2.44 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 and early summer seasons. The Minimum temperature up to November was found to be 10.34°C and the Maximum temperature was found to be 34.71°C.

The minimum and maximum temperature during the winter and early summer season i.e. from December to February was found to be 5.85°C and 35.30°C & 15.82°C and 39.84°C in March. **Table No 1** shows a summary of micro-meteorological data collected for the entire period.

#### 1.1.3 Rainfall

The total rain fall from 1<sup>st</sup> October 2025 to 31<sup>st</sup> March 2026 was observed to be 138.4 mm. during the study period. A month wise rainfall data recorded at the site is depicted in **Table No 1.**

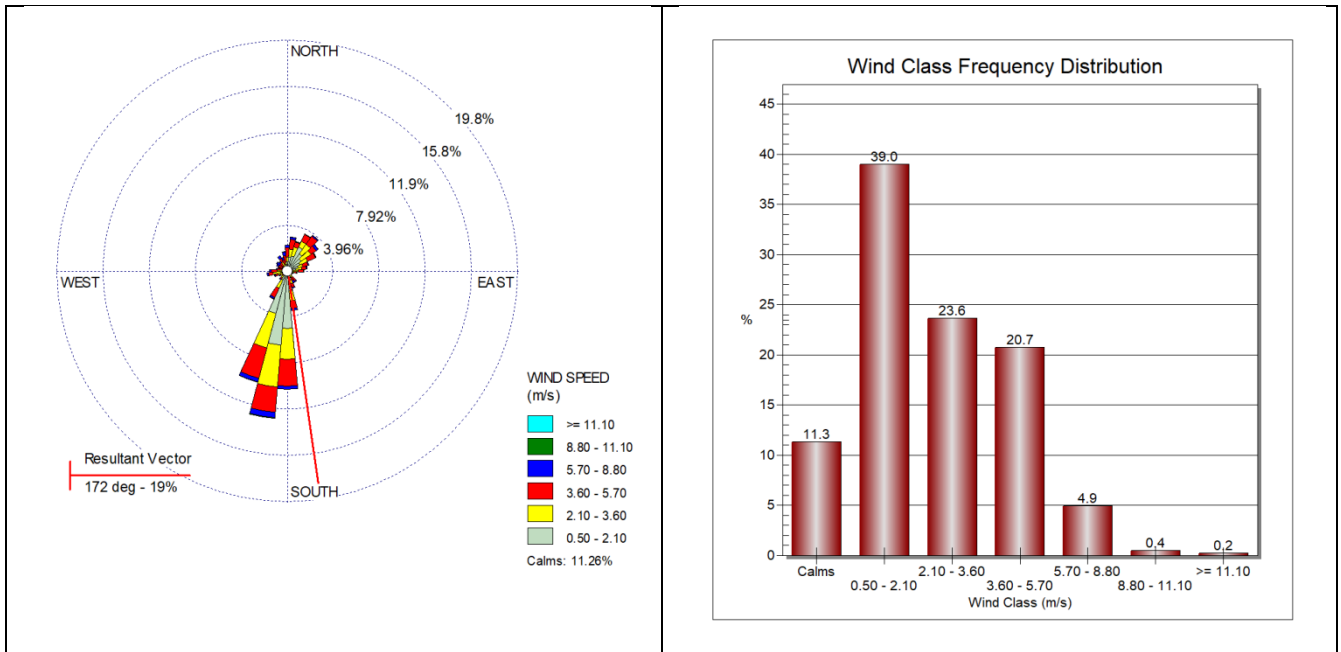
**Table No: 1**

### A SUMMARY OF THE MICRO-METEOROLOGICAL DATA

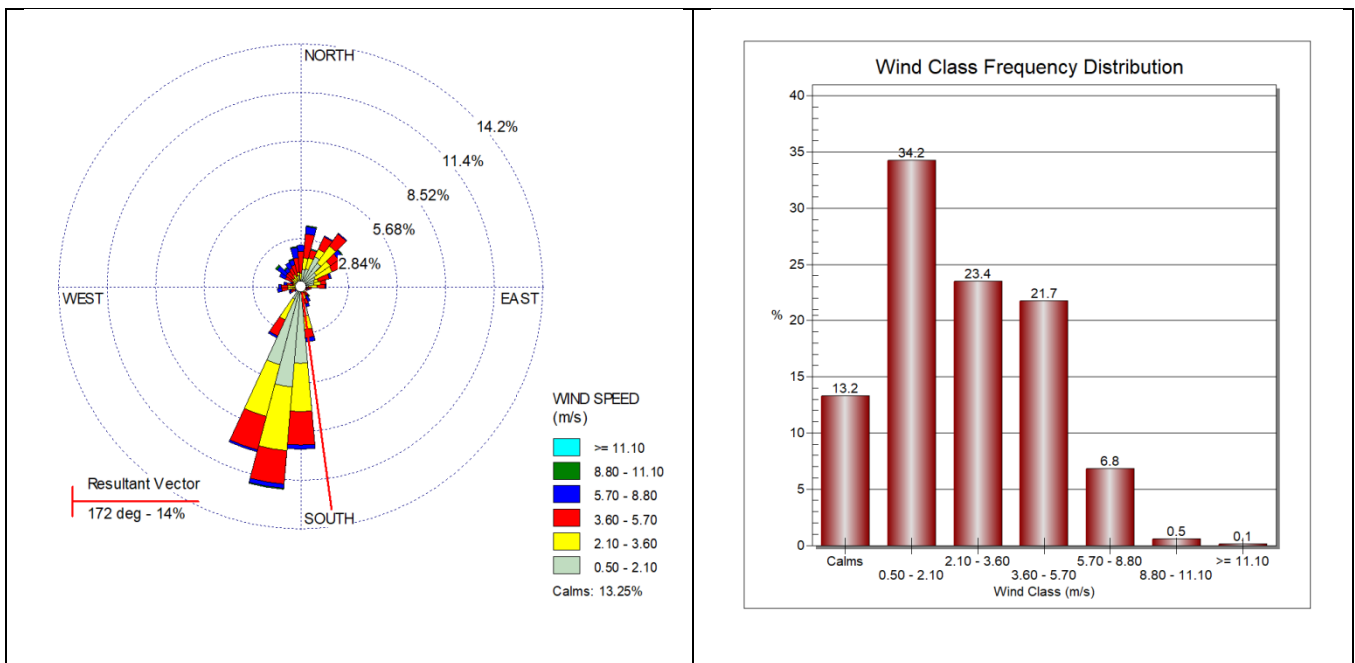
**Project Site :** DALMIA CEMENT BHARAT LIMITED & DSP UNIT, RAJGANGPUR  
**Location :** ROOF TOP OF CCR BUILDING DSP UNIT

SI No	Parameters	From October 2025 – March 2026
1	Predominant Wind Direction	From South
2	Calm Condition %	11.26%
3	Average Wind Speed m/sec	2.44
4	Temperature °C	
	<b>Post Monsoon Season</b>	
	Minimum	10.34
	Maximum	34.71
	<b>Winter Season</b>	
	Minimum	5.85
	Maximum	35.30
	<b>Early Summer Season</b>	
	Minimum	15.82
	Maximum	39.84
5	<b>Rain Fall in mm</b>	
	October	39.8
	November	0.6
	December	0.0
	January	0.0
	February	0.0
	March	98.0
	<b>Total</b>	<b>138.4</b>

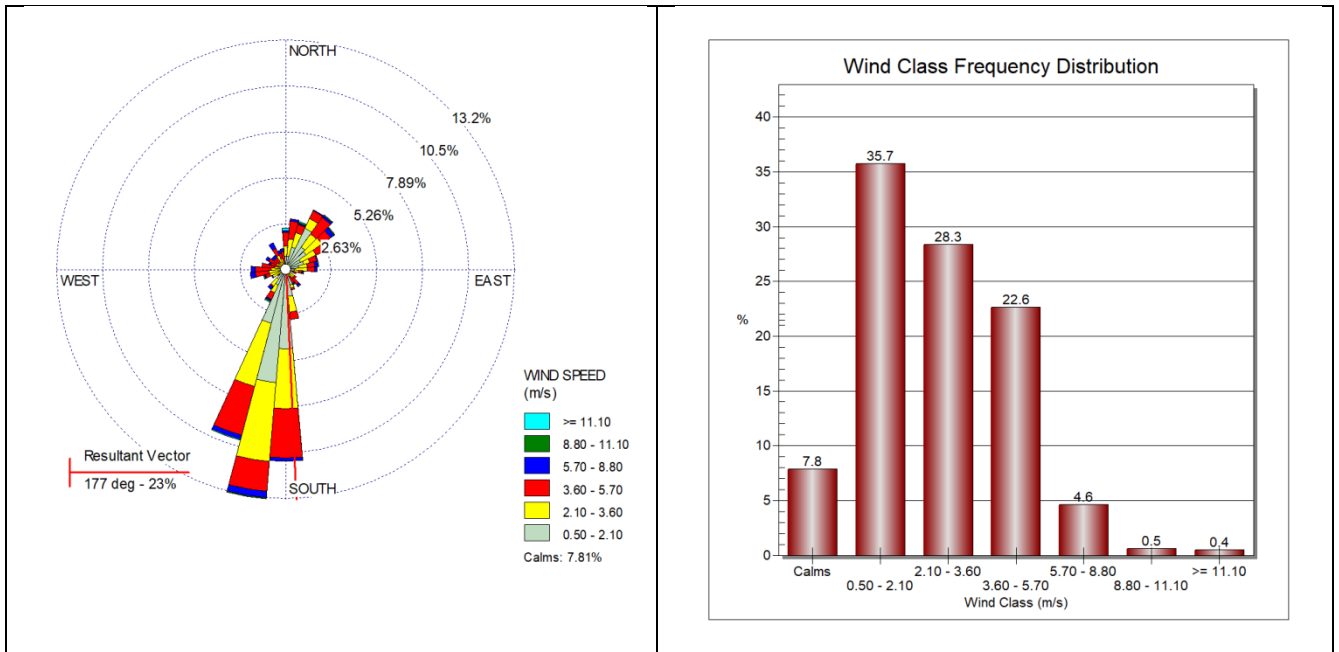
**Figure No: 1.1 Wind Rose Diagram for 24 Hours**



**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**

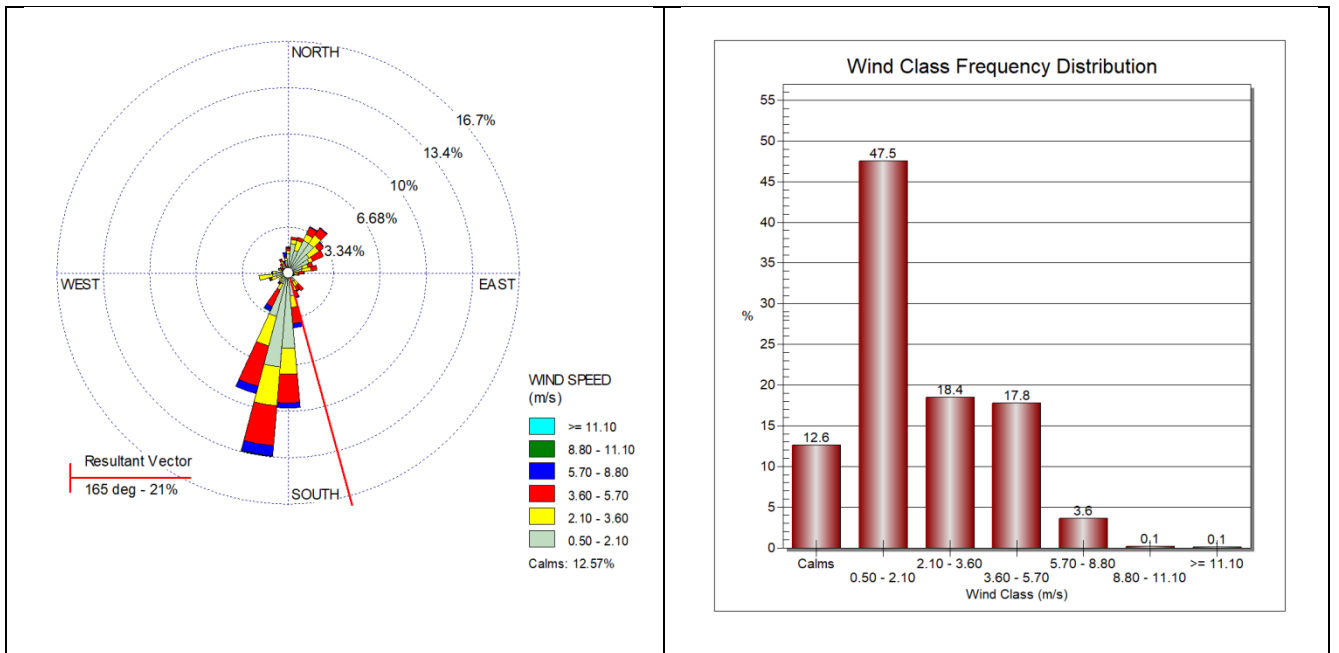


Table No: 2

**AMBIENT AIR QUALITY DATA**  
From 01.10.2025 to 31.03.2026

**Station: A-1 (Konark Vihar Area)**

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	18	49	3	15	< 0.1
	19	52	4	18	< 0.1
	18	50	3	16	< 0.1
	23	67	5	22	< 0.1
	25	78	6	24	< 0.1
	31	87	7	24	< 0.1
	29	80	5	23	< 0.1
	22	58	4	19	< 0.1
November	20	63	6	19	< 0.1
	18	55	4	17	< 0.1
	27	77	6	24	< 0.1
	26	74	5	22	< 0.1
	28	79	5	23	< 0.1
	25	72	4	20	< 0.1
	23	70	4	19	< 0.1
	22	66	4	18	< 0.1
December	24	71	4	21	< 0.1
	27	75	5	21	< 0.1
	28	78	6	23	< 0.1
	25	74	4	20	< 0.1
	26	72	4	18	< 0.1
	27	79	5	22	< 0.1
	29	77	7	25	< 0.1
	24	76	4	19	< 0.1
January	23	71	3	17	< 0.1
	28	77	5	22	< 0.1
	29	79	6	24	< 0.1
	26	74	4	20	< 0.1
	30	80	6	23	< 0.1
	25	78	5	19	< 0.1
	26	76	4	21	< 0.1
	22	72	3	17	< 0.1
February	27	75	5	22	< 0.1
	24	66	4	18	< 0.1
	33	82	5	19	< 0.1
	39	88	6	26	< 0.1
	31	85	5	28	< 0.1
	32	80	7	23	< 0.1
	38	86	8	27	< 0.1
	35	84	6	25	< 0.1
February	34	83	7	23	< 0.1
	36	87	6	26	< 0.1
	39	88	7	28	< 0.1

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
March	37	85	6	24	< 0.1
	36	90	8	26	< 0.1
	40	93	9	27	< 0.1
	35	90	7	24	< 0.1
	37	92	8	25	< 0.1
	34	86	7	26	< 0.1
	36	88	6	28	< 0.1
	38	96	5	30	< 0.1

**Table No: 3**

**AMBIENT AIR QUALITY DATA**

From 01.10.2025 to 31.03.2026

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

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	20	54	4	20	< 0.1
	21	57	4	19	< 0.1
	22	61	5	20	< 0.1
	25	72	6	24	< 0.1
	23	69	4	18	< 0.1
	30	82	8	23	< 0.1
	28	79	5	22	< 0.1
	27	73	5	21	< 0.1
November	25	76	5	21	< 0.1
	19	60	6	15	< 0.1
	30	80	6	25	< 0.1
	28	78	5	23	< 0.1
	27	76	4	19	< 0.1
	31	82	7	26	< 0.1
	24	74	5	21	< 0.1
	23	71	4	20	< 0.1
December	26	75	6	24	< 0.1
	25	72	4	20	< 0.1
	28	76	5	23	< 0.1
	32	80	6	25	< 0.1
	27	78	5	21	< 0.1
	33	82	6	23	< 0.1
	30	79	4	22	< 0.1
	24	75	5	20	< 0.1
January	31	83	7	24	< 0.1
	31	80	6	24	< 0.1
	33	82	5	23	< 0.1
	35	85	6	25	< 0.1
	27	78	4	19	< 0.1
	29	79	5	21	< 0.1
25	75	4	20	< 0.1	

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
	28	77	5	22	< 0.1
	32	81	7	26	< 0.1
	26	76	4	18	< 0.1
February	35	83	6	25	< 0.1
	37	86	7	26	< 0.1
	33	84	6	23	< 0.1
	38	88	5	24	< 0.1
	34	87	4	22	< 0.1
	32	81	5	21	< 0.1
	31	80	4	20	< 0.1
	36	82	5	26	< 0.1
March	36	86	7	26	< 0.1
	35	84	5	23	< 0.1
	41	93	7	26	< 0.1
	37	92	7	28	< 0.1
	32	86	5	25	< 0.1
	34	88	6	24	< 0.1
	35	89	7	27	< 0.1
	36	90	5	26	< 0.1
	34	87	6	25	< 0.1

Table No: 4

**AMBIENT AIR QUALITY DATA**  
From 01.10.2025 to 31.03.2026

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

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	19	52	4	18	< 0.1
	17	49	3	15	< 0.1
	24	74	5	22	< 0.1
	30	83	7	25	< 0.1
	29	80	5	23	< 0.1
	27	78	4	20	< 0.1
	31	81	6	24	< 0.1
	28	79	6	22	< 0.1
November	21	62	6	20	< 0.1
	19	64	7	21	< 0.1
	27	76	5	22	< 0.1
	25	72	4	19	< 0.1
	24	70	4	20	< 0.1
	28	77	6	23	< 0.1
	30	80	7	24	< 0.1
	26	75	5	21	< 0.1
December	23	73	4	17	< 0.1
	25	71	4	19	< 0.1
	30	79	6	25	< 0.1

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
	24	74	3	18	< 0.1
	27	76	5	23	< 0.1
	29	78	4	22	< 0.1
	31	80	6	24	< 0.1
	32	82	7	25	< 0.1
	26	77	5	21	< 0.1
January	33	83	7	25	< 0.1
	30	79	5	21	< 0.1
	32	84	6	24	< 0.1
	27	77	4	20	< 0.1
	26	75	4	22	< 0.1
	24	78	5	23	< 0.1
	31	80	6	25	< 0.1
	26	76	4	19	< 0.1
February	28	74	5	20	< 0.1
	32	80	5	23	< 0.1
	36	85	7	27	< 0.1
	34	83	6	25	< 0.1
	35	84	4	22	< 0.1
	33	82	5	24	< 0.1
	37	86	6	28	< 0.1
	31	81	5	26	< 0.1
March	38	87	7	29	< 0.1
	34	83	6	25	< 0.1
	35	85	5	22	< 0.1
	41	94	7	25	< 0.1
	43	96	8	26	< 0.1
	35	88	6	26	< 0.1
	33	85	5	27	< 0.1
	37	90	7	26	< 0.1
38	91	7	24	< 0.1	
40	90	13	22	< 0.1	

Table No: 5

**AMBIENT AIR QUALITY DATA**

From 01.10.2025 to 31.03.2026

**Station: A-4 (Near Refractory Main Gate)**

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	27	79	5	20	< 0.1
	28	82	6	23	< 0.1
	29	85	5	21	< 0.1
	26	76	4	19	< 0.1
	30	80	6	22	< 0.1
	31	82	5	23	< 0.1
	32	84	6	25	< 0.1

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
	25	78	4	21	< 0.1
November	25	76	6	23	< 0.1
	18	55	6	18	< 0.1
	26	74	5	21	< 0.1
	31	82	7	24	< 0.1
	28	79	6	23	< 0.1
	32	83	6	25	< 0.1
	30	80	7	26	< 0.1
	25	77	5	22	< 0.1
December	24	75	4	20	< 0.1
	29	78	5	23	< 0.1
	31	80	6	24	< 0.1
	33	82	6	25	< 0.1
	30	79	5	21	< 0.1
	28	77	4	23	< 0.1
	32	83	5	22	< 0.1
	26	76	4	21	< 0.1
January	31	81	7	24	< 0.1
	32	82	5	25	< 0.1
	29	78	4	21	< 0.1
	34	84	6	26	< 0.1
	31	81	5	22	< 0.1
	30	80	7	24	< 0.1
	28	79	6	23	< 0.1
	26	77	4	19	< 0.1
February	33	83	7	26	< 0.1
	27	76	4	20	< 0.1
	34	83	7	24	< 0.1
	38	87	4	21	< 0.1
	33	82	5	23	< 0.1
	36	85	6	26	< 0.1
	31	84	7	25	< 0.1
	35	86	8	27	< 0.1
March	30	81	6	26	< 0.1
	28	79	5	22	< 0.1
	35	86	7	25	< 0.1
	38	88	6	23	< 0.1
	38	89	6	25	< 0.1
	40	91	7	24	< 0.1
	32	82	4	21	< 0.1
	35	85	6	23	< 0.1
36	87	7	24	< 0.1	
34	84	5	25	< 0.1	
37	87	5	20	< 0.1	

**Table No: 6**

**AMBIENT AIR QUALITY DATA**  
From 01.10.2025 to 31.03.2026

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

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	18	48	3	14	< 0.1
	22	61	5	18	< 0.1
	20	55	4	17	< 0.1
	26	74	5	21	< 0.1
	24	68	4	19	< 0.1
	28	76	6	22	< 0.1
	27	72	5	20	< 0.1
	21	60	3	17	< 0.1
November	22	64	5	20	< 0.1
	20	59	4	18	< 0.1
	26	72	5	22	< 0.1
	25	70	4	21	< 0.1
	24	67	4	18	< 0.1
	28	75	5	23	< 0.1
	26	71	5	20	< 0.1
	23	66	4	18	< 0.1
December	21	62	3	17	< 0.1
	24	70	4	19	< 0.1
	27	75	5	22	< 0.1
	26	73	4	20	< 0.1
	28	76	5	22	< 0.1
	25	72	4	20	< 0.1
	29	78	6	23	< 0.1
	23	69	3	18	< 0.1
January	26	74	5	21	< 0.1
	27	75	5	21	< 0.1
	29	77	5	22	< 0.1
	26	73	4	19	< 0.1
	30	79	5	23	< 0.1
	24	70	4	18	< 0.1
	27	74	5	20	< 0.1
	23	68	3	17	< 0.1
February	28	76	6	22	< 0.1
	25	72	4	19	< 0.1
	31	79	5	22	< 0.1
	35	84	6	24	< 0.1
	32	80	5	23	< 0.1
	34	83	6	25	< 0.1
	30	78	5	21	< 0.1
	33	81	6	24	< 0.1
March	29	77	4	20	< 0.1
	32	80	5	23	< 0.1
March	36	87	7	25	< 0.1

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
	35	85	6	23	< 0.1
	38	91	7	26	< 0.1
	39	92	8	27	< 0.1
	33	84	6	24	< 0.1
	35	86	7	25	< 0.1
	34	85	6	24	< 0.1
	37	88	7	26	< 0.1
	38	90	6	28	< 0.1

Table No: 7

**AMBIENT AIR QUALITY DATA**

From 01.10.2025 to 31.03.2026

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

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
October	20	56	4	17	< 0.1
	22	63	5	20	< 0.1
	21	58	4	18	< 0.1
	27	76	6	23	< 0.1
	25	71	5	21	< 0.1
	29	80	7	24	< 0.1
	28	77	5	22	< 0.1
	23	65	4	19	< 0.1
November	23	67	5	21	< 0.1
	21	62	4	19	< 0.1
	27	74	5	22	< 0.1
	26	73	5	22	< 0.1
	25	70	4	19	< 0.1
	29	78	6	24	< 0.1
	27	74	5	21	< 0.1
	24	69	4	19	< 0.1
December	22	65	3	18	< 0.1
	26	72	5	20	< 0.1
	29	77	5	22	< 0.1
	28	75	4	21	< 0.1
	27	74	5	21	< 0.1
	26	73	4	19	< 0.1
	30	79	6	23	< 0.1
	25	71	4	19	< 0.1
January	28	76	5	22	< 0.1
	29	78	5	22	< 0.1
	31	80	6	24	< 0.1
	28	76	4	20	< 0.1
	32	82	6	25	< 0.1
	27	74	5	21	< 0.1
	28	76	4	20	< 0.1
25	71	3	18	< 0.1	

Months	PM2.5 µg/m <sup>3</sup>	PM10 µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>
	30	79	6	23	< 0.1
	26	73	4	19	< 0.1
February	33	81	5	22	< 0.1
	36	85	6	25	< 0.1
	34	82	5	23	< 0.1
	35	84	6	25	< 0.1
	31	80	5	22	< 0.1
	34	83	6	24	< 0.1
	30	79	5	21	< 0.1
	33	82	5	23	< 0.1
March	37	88	7	26	< 0.1
	36	87	6	24	< 0.1
	39	92	7	27	< 0.1
	40	93	8	28	< 0.1
	34	85	6	24	< 0.1
	36	87	7	25	< 0.1
	35	86	6	25	< 0.1
	37	89	7	26	< 0.1
	39	91	6	27	< 0.1

Table No: 8

### STACK EMISSION MONITORING RESULTS

Months	Location of sampling	PM mg/Nm <sup>3</sup>	SO <sub>2</sub> mg/Nm <sup>3</sup>	NO <sub>2</sub> mg/Nm <sup>3</sup>	Hg mg/Nm <sup>3</sup>
October	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	22	-	-	-
	Cooler ESP – 2	10	-	-	-
	Kiln & VRM RABH – 2	07	7.61	269.99	-
	Clinker Cooler Attached To ESP	17	-	-	-
	Coal Mill Attached To Bag Filter	09	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	13	9.10	279.07	-
	Boiler 1 ESP Stack	17	309.25	207.62	< 0.02
November	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	15	-	-	-
	Coal Mill – 2 Bag Filter	19	-	-	-
	Cooler ESP – 2	14	-	-	-
	Kiln & VRM RABH – 2	08	9.07	272.50	-
	Clinker Cooler Attached To ESP	23	-	-	-
	Coal Mill Attached To Bag Filter	07	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	11	8.01	263.77	-
	Boiler 1 ESP Stack	24	329.90	218.78	< 0.02
December	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	13	-	-	-
	CVRM – 3 Bag Filter	10	-	-	-

Months	Location of sampling	PM mg/Nm <sup>3</sup>	SO <sub>2</sub> mg/Nm <sup>3</sup>	NO <sub>2</sub> mg/Nm <sup>3</sup>	Hg mg/Nm <sup>3</sup>
	Coal Mill – 2 Bag Filter	18	-	-	-
	Cooler ESP – 2	16	-	-	-
	Kiln & VRM RABH – 2	10	11.45	290.34	-
	Clinker Cooler Attached To ESP	23	-	-	-
	Coal Mill Attached To Bag Filter	07	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	15	9.01	277.53	-
	Boiler 1 ESP Stack	37	345.83	276.35	< 0.02
January	CVRM – 1 Bag Filter	10	-	-	-
	CVRM – 2 Bag Filter	08	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 1 Bag Filter	13	-	-	-
	Cooler ESP – 1	15	-	-	-
	Coal Mill – 2 Bag Filter	19	-	-	-
	Cooler ESP – 2	16	-	-	-
	Kiln & VRM Bag House – 1	11	13.5	278.5	-
	Kiln & VRM RABH – 2	08	10	284.34	-
	Clinker Cooler Attached To ESP	20	-	-	-
	Coal Mill Attached To Bag Filter	09	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	13	8.73	280.59	-
	Boiler 1 ESP Stack	28	475.5	237.72	< 0.02
February	CVRM – 1 Bag Filter	10	-	-	-
	CVRM – 2 Bag Filter	13	-	-	-
	CVRM – 3 Bag Filter	11	-	-	-
	Coal Mill – 1 Bag Filter	13	-	-	-
	Cooler ESP – 1	15	-	-	-
	Coal Mill – 2 Bag Filter	11	-	-	-
	Cooler ESP – 2	16	-	-	-
	Kiln & VRM Bag House – 1	16	18.6	296.02	-
	Kiln & VRM RABH – 2	07	11.3	288.20	-
	Clinker Cooler Attached To ESP	21	-	-	-
	Coal Mill Attached To Bag Filter	08	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	10	6.72	267.49	-
	Boiler 1 ESP Stack	33	320	288	< 0.02
March	CVRM – 1 Bag Filter	09	-	-	-
	CVRM – 2 Bag Filter	12	-	-	-
	CVRM – 3 Bag Filter	07	-	-	-
	Coal Mill – 1 Bag Filter	18	-	-	-
	Cooler ESP – 1	13	-	-	-
	Coal Mill – 2 Bag Filter	22	-	-	-
	Cooler ESP – 2	12	-	-	-
	Kiln & VRM Bag House – 1	15	16.88	288.10	-
	Kiln & VRM RABH – 2	09	12.21	290.09	-
	Clinker Cooler Attached To ESP	23	-	-	-
	Coal Mill Attached To Bag Filter	10	-	-	-
	Kiln & Raw Mill RABH Attached To Bag Filter	11	9.12	268.92	-
	Boiler 1&2 ESP Stack	39	373.20	294.25	< 0.02

Table No : 9

## GROUND WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2025

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	3.8	0.80	1.8	0.20	0.40	NTU	5.0
2	pH Value	6.63	6.72	6.65	7.05	6.27	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	654.72	325.38	412.67	210.30	297.6	mg/l	600
4	Iron (as Fe)	0.08	0.26	0.29	0.28	0.21	mg/l	0.3
5	Chlorides (as Cl)	94.49	58.82	78.10	20.25	50.14	mg/l	1000
6	Total Dissolved Solids	862	500	568	272	414	mg/l	2000
7	Electrical Conductivity	1435	876	947	453	689	µS/cm	-
8	Calcium (as Ca)	152.67	57.25	139.95	60.43	95.42	mg/l	200
9	Magnesium (as Mg)	66.53	44.47	15.43	14.46	14.46	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 <sub>4</sub> )	140.08	87.06	86.56	17.23	68.39	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	43.89	9.27	< 2.20	< 2.20	12.69	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	364	248	248	172	144	mg/l	600
15	Acidity	22	18	18	08	16	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	29.64	25.59	23.64	8.06	21.68	mg/l	-
18	Potassium (as K)	1.16	1.24	2.71	3.12	2.94	mg/l	-
19	Fluoride (as F)	0.18	< 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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	26.3	26.4	26.3	26.2	26.3	°C	-
32	Residual Free Chlorine	0.12	0.11	0.14	0.09	0.11	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 NOVEMBER 2025

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.30	0.60	4.6	1.2	NTU	5.0
2	pH Value	6.59	6.84	6.59	6.58	6.58	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	503.94	365.06	448.38	174.59	178.56	mg/l	600
4	Iron (as Fe)	0.28	0.24	0.23	0.25	0.27	mg/l	0.3
5	Chlorides (as Cl)	92.57	63.24	75.21	16.39	40.50	mg/l	1000
6	Total Dissolved Solids	870	544	582	212	258	mg/l	2000
7	Electrical Conductivity	1464	905	969	378	439	µS/cm	-
8	Calcium (as Ca)	127.23	117.69	151.08	31.81	39.76	mg/l	200
9	Magnesium (as Mg)	45.32	17.36	17.35	23.14	19.28	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 <sub>4</sub> )	156.20	82.55	90.99	7.78	25.07	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	44.2	20.0	9.71	18.61	7.53	mg/l	45

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
14	Total Alkalinity (as CaCO <sub>3</sub> )	352	212	200	120	100	mg/l	600
15	Acidity	38	22	24	14	26	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	32.35	30.32	46.25	9.22	19.54	mg/l	-
18	Potassium (as K)	1.20	1.01	1.22	2.54	1.62	mg/l	-
19	Fluoride (as F)	0.81	< 0.05	1.16	< 0.05	0.98	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	24.9	24.8	22.9	24.9	24.8	°C	-
32	Residual Free Chlorine	0.11	0.11	0.19	0.16	0.13	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 OF DECEMBER 2025**

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.10	0.30	0.10	0.10	NTU	5.0
2	pH Value	6.65	6.60	6.55	6.57	6.58	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	398.40	402.38	298.8	549.79	318.72	mg/l	600
4	Iron (as Fe)	0.27	0.29	0.27	0.30	0.04	mg/l	0.3
5	Chlorides (as Cl)	134.03	63.64	50.14	242.02	47.25	mg/l	1000
6	Total Dissolved Solids	792	556	520	962	458	mg/l	2000
7	Electrical Conductivity	1303	925	865	1580	760	µS/cm	-
8	Calcium (as Ca)	65.47	119.76	55.89	126.15	87.82	mg/l	200
9	Magnesium (as Mg)	57.12	25.17	38.72	57.12	24.20	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 <sub>4</sub> )	72.29	94.75	51.42	99.03	55.25	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	42.1	9.59	5.63	41.85	41.77	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	384	244	260	300	148	mg/l	600
15	Acidity	28	22	38	26	14	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	65.34	38.54	40.74	50.04	25.14	mg/l	-
18	Potassium (as K)	1.52	1.12	2.64	3.31	3.47	mg/l	-
19	Fluoride (as F)	0.83	0.14	0.34	0.87	0.26	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
31	Temperature	24.6	25.5	24.5	24.2	25.4	°C	-
32	Residual Free Chlorine	0.13	0.18	0.16	0.18	0.13	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 JANUARY 2026**

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.1	0.1	0.1	0.2	0.1	NTU	5.0
2	pH Value	6.53	6.50	6.48	6.40	6.23	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	577.68	406.37	362.54	170.62	314.74	mg/l	600
4	Iron (as Fe)	0.28	0.28	0.12	0.82	0.44	mg/l	0.3
5	Chlorides (as Cl)	238.17	61.71	53.99	13.50	51.10	mg/l	1000
6	Total Dissolved Solids	1068	562	510	240	458	mg/l	2000
7	Electrical Conductivity	1778	936	870	406	760	µS/cm	-
8	Calcium (as Ca)	159.67	127.74	71.86	52.48	92.61	mg/l	200
9	Magnesium (as Mg)	43.56	21.30	44.53	9.64	20.33	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 <sub>4</sub> )	155.35	89.34	78.32	26.84	58.60	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	18.37	7.06	2.62	11.64	18.30	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	284	236	238	128	210	mg/l	600
15	Acidity	22	20	40	14	18	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	36.82	21.24	28.79	7.51	10.45	mg/l	-
18	Potassium (as K)	2.18	1.67	5.62	2.38	2.58	mg/l	-
19	Fluoride (as F)	0.16	< 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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	25.1	24.6	25.2	24.8	24.6	°C	-
32	Residual Free Chlorine	0.10	< 0.01	0.16	0.15	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 : 13**

**GROUND WATER QUALITY RESULT FOR THE MONTH OF FEBRYARY 2026**

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.10	0.10	0.10	0.10	NTU	5.0
2	pH Value	6.82	6.85	6.63	6.71	6.50	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	784.85	410.35	398.40	187.25	322.70	mg/l	600
4	Iron (as Fe)	0.37	0.26	0.30	0.36	0.13	mg/l	0.3

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
5	Chlorides (as Cl)	216.95	60.75	52.07	12.54	47.25	mg/l	1000
6	Total Dissolved Solids	968	546	522	242	446	mg/l	2000
7	Electrical Conductivity	1613	908	869	401	744	µS/cm	-
8	Calcium (as Ca)	261.87	114.96	113.37	41.52	119.76	mg/l	200
9	Magnesium (as Mg)	31.95	30.01	28.08	20.33	5.81	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 <sub>4</sub> )	109.80	99.46	84.54	25.08	64.08	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	31.29	10.43	18.65	4.68	15.52	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	300	244	200	144	188	mg/l	600
15	Acidity	02	08	16	14	08	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	40.49	31.23	43.39	10.22	23.98	mg/l	-
18	Potassium (as K)	2.94	1.25	2.49	2.50	3.09	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	0.24	< 0.05	0.19	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	25.1	24.6	25.2	24.8	24.6	°C	-
32	Residual Free Chlorine	0.10	< 0.01	0.16	0.15	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

**GROUND WATER QUALITY RESULT FOR THE MONTH OF MARCH 2026**

SI No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.20	0.10	0.30	0.10	NTU	5.0
2	pH Value	6.69	6.79	6.53	6.71	6.61	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	352	356	372	208	316	mg/l	600
4	Iron (as Fe)	0.92	0.84	0.77	0.29	0.07	mg/l	0.3
5	Chlorides (as Cl)	132.1	65.67	55.93	14.46	46.28	mg/l	1000
6	Total Dissolved Solids	750	560	480	228	428	mg/l	2000
7	Electrical Conductivity	1292	931	872	378	711	µS/cm	-
8	Calcium (as Ca)	73.74	84.96	92.98	65.73	84.96	mg/l	200
9	Magnesium (as Mg)	40.82	34.9	34.02	10.69	25.27	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 <sub>4</sub> )	111.83	104.15	110.64	13.95	42.62	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	18.62	9.85	< 2.20	7.85	24.81	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	340	240	264	112	180	mg/l	600
15	Acidity	26	12	24	20	32	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	54.49	34.71	43.60	10.37	22.38	mg/l	-
18	Potassium (as K)	1.55	1.31	3.0	2.53	3.08	mg/l	-
19	Fluoride (as F)	0.64	0.84	0.90	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL Daily Market	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	25.1	24.6	25.2	24.8	24.6	°C	-
32	Residual Free Chlorine	0.10	< 0.01	0.16	0.15	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 : 15**

**DRINKING WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2025**

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near General Store Workers' Canteen Drinking water point (Line - 1)	Near Cooler Drinking Water point (Line - 1)	Near Workers Canteen Drinking Water point (Line - 2)	Near AFR Storage Area Drinking Water point (Line - 2)	CCR Building 2 <sup>nd</sup> Floor Drinking Water Point (DSP Unit)	Near Coal Mill Drinking Water point (DSP Unit)		
1	Turbidity	0.10	0.40	0.30	0.10	0.20	0.30	NTU	5.0
2	pH Value	7.58	7.29	7.53	7.85	7.54	8.01	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	166.66	154.75	150.78	166.66	170.62	142.85	mg/l	600
4	Iron (as Fe)	0.12	0.08	0.21	< 0.01	0.05	0.24	mg/l	0.3
5	Chlorides (as Cl)	17.36	11.57	15.43	15.43	15.43	11.57	mg/l	1000
6	Total Dissolved Solids	222	190	208	214	212	190	mg/l	2000
7	Electrical Conductivity	370	330	347	355	351	324	µS/cm	-
8	Calcium (as Ca)	42.94	36.58	39.76	33.40	38.17	34.99	mg/l	200
9	Magnesium (as Mg)	14.46	15.43	12.53	20.25	18.32	13.50	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 <sub>4</sub> )	34.71	13.92	36.75	34.80	22.45	24.91	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	7.93	11.54	7.58	8.74	11.12	5.74	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	96	100	96	100	104	100	mg/l	600
15	Acidity	02	04	02	< 2.0	02	< 2.0	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	8.95	8.98	9.04	8.96	9.04	8.56	mg/l	-
18	Potassium (as K)	2.29	2.34	2.15	2.23	2.23	2.20	mg/l	-
19	Fluoride (as F)	< 0.05	0.10	< 0.05	0.19	0.96	< 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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	26.3	26.3	26.2	26.0	26.0	26.2	°C	-
32	Residual Free Chlorine	0.10	0.15	0.13	0.12	0.12	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 : 16

## DRINKING WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2025

SI 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	Spandan Dispensary Drinking Water point (Line – 1)	CPP Canteen Drinking Water point (Line – 2)	Workshop Drinking Water point (Line – 2)	Workers' Canteen Drinking Water Point (DSP Unit)	Near New Weigh Bridge Drinking Water point (DSP Unit)		
1	Turbidity	0.10	0.20	0.10	0.20	0.10	0.20	NTU	5.0
2	pH Value	7.20	7.92	7.96	8.05	8.17	7.47	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	206.34	222.21	190.46	186.50	182.53	174.59	mg/l	600
4	Iron (as Fe)	0.23	0.08	0.08	0.23	0.21	0.21	mg/l	0.3
5	Chlorides (as Cl)	18.32	17.36	18.32	16.39	16.39	16.39	mg/l	1000
6	Total Dissolved Solids	242	250	236	236	236	238	mg/l	2000
7	Electrical Conductivity	404	422	398	393	392	396	µS/cm	-
8	Calcium (as Ca)	41.35	38.17	39.76	39.76	28.63	38.17	mg/l	200
9	Magnesium (as Mg)	25.07	30.86	22.22	21.21	26.99	19.28	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 <sub>4</sub> )	31.89	28.35	29.62	29.46	30.35	30.30	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	13.19	13.07	12.57	16.23	13.21	12.23	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	124	116	104	112	120	120	mg/l	600
15	Acidity	04	04	04	04	04	06	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	13.03	12.40	11.99	12.40	12.08	11.83	mg/l	-
18	Potassium (as K)	1.24	0.40	1.02	1.12	1.09	0.98	mg/l	-
19	Fluoride (as F)	0.52	0.24	< 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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	25.0	24.9	24.8	24.8	24.9	°C	-
32	Residual Free Chlorine	0.19	0.16	0.12	0.20	0.82	0.18	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 DECEMBER 2025

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Clinker Silo Drinking water point, Line – 1	Packing House Drinking Water point (Line – 1)	Near CPP Office Building Drinking Water point (Line – 2)	Near Main Gate Drinking Water point (Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water point (DSP Unit)		
1	Turbidity	0.10	0.10	0.10	0.10	0.10	0.10	NTU	5.0
2	pH Value	7.60	7.54	7.35	7.59	7.45	7.63	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	227.09	247.01	211.15	219.12	235.06	270.91	mg/l	600
4	Iron (as Fe)	0.28	0.17	0.09	0.28	0.30	0.20	mg/l	0.3
5	Chlorides (as Cl)	25.07	20.25	16.39	5.78	16.39	19.28	mg/l	1000
6	Total Dissolved Solids	264	284	260	270	294	290	mg/l	2000
7	Electrical Conductivity	458	499	470	469	502	494	µS/cm	-
8	Calcium (as Ca)	46.31	57.48	52.69	52.69	52.69	54.29	mg/l	200
9	Magnesium (as Mg)	27.11	25.17	19.36	21.30	25.17	32.91	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Clinker Silo Drinking water point, Line – 1	Packing House Drinking Water point (Line – 1)	Near CPP Office Building Drinking Water point (Line – 2)	Near Main Gate Drinking Water point (Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water point (DSP Unit)		
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO <sub>4</sub> )	19.51	18.43	15.76	32.46	21.86	24.23	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	13.12	11.61	13.80	12.96	27.44	10.51	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	136	156	144	148	148	144	mg/l	600
15	Acidity	06	06	02	04	04	04	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	8.12	8.77	8.08	8.09	8.57	8.75	mg/l	-
18	Potassium (as K)	3.02	3.57	3.34	3.42	3.60	3.57	mg/l	-
19	Fluoride (as F)	0.18	0.13	0.60	0.32	0.18	0.46	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	24.5	24.4	24.3	24.8	24.5	24.2	°C	-
32	Residual Free Chlorine	0.14	0.11	0.12	0.19	0.20	0.19	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 JANUARY 2026**

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Packing House Drinking Water Point (Line – 1)	Near CVRM – 2 Drinking Water Point(Line – 1)	Work Shop Drinking Water Point (Line – 2)	Near AFR Storage Drinking Water Point (Line – 2)	Near Coal Mill Drinking Water Point (DSP Unit)	CCR Building 2 <sup>nd</sup> Floor Drinking Water Point (DSP Unit)		
1	Turbidity	0.20	0.10	0.30	0.10	0.40	0.20	NTU	5.0
2	pH Value	7.18	7.18	7.18	7.06	7.42	7.55	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	194.30	202.4	186.21	202.40	190.26	186.21	mg/l	600
4	Iron (as Fe)	< 0.01	< 0.01	0.09	< 0.01	0.02	0.28	mg/l	0.3
5	Chlorides (as Cl)	16.39	16.39	16.39	23.14	15.43	16.39	mg/l	1000
6	Total Dissolved Solids	250	244	244	256	220	252	mg/l	2000
7	Electrical Conductivity	410	417	409	444	393	402	µS/cm	-
8	Calcium (as Ca)	43.81	50.30	45.43	55.16	43.81	45.43	mg/l	200
9	Magnesium (as Mg)	20.65	18.69	17.71	15.74	19.67	17.71	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 <sub>4</sub> )	47.37	54.01	55.70	47.94	37.86	40.78	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	11.08	11.26	11.12	8.74	10.08	9.91	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	96	100	104	108	108	112	mg/l	600
15	Acidity	10	06	08	08	04	04	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.66	10.50	10.39	11.52	9.83	10.25	mg/l	-
18	Potassium (as K)	4.36	4.46	4.62	4.95	4.56	4.73	mg/l	-
19	Fluoride (as F)	0.88	1.13	0.81	1.19	1.06	1.40	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Packing House Drinking Water Point (Line – 1)	Near CVRM – 2 Drinking Water Point (Line – 1)	Work Shop Drinking Water Point (Line – 2)	Near AFR Storage Drinking Water Point (Line – 2)	Near Coal Mill Drinking Water Point (DSP Unit)	CCR Building 2 <sup>nd</sup> Floor Drinking Water Point (DSP Unit)		
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	25.1	25.1	25.2	25.2	25.2	25.2	°C	-
32	Residual Free Chlorine	0.11	0.12	0.16	0.13	0.15	0.19	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 FEBRUARY 2026**

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near General Store Workers' Canteen Drinking Water Point, Line – 1	General Office Ground Floor Drinking Water Point	CPP Workers' Canteen Drinking Water point (Line – 2)	Workshop Drinking Water Point (Line – 2)	Near New Weigh Bridge Canteen Drinking Water Point (DSP Unit)	CCR Building 2 <sup>nd</sup> Floor Pantry Room Drinking Water point (DSP Unit)		
1	Turbidity	0.10	0.10	0.10	0.20	0.10	0.10	NTU	5.0
2	pH Value	7.88	7.91	7.98	7.86	7.84	7.95	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	215.14	223.10	207.17	219.12	243.02	219.12	mg/l	600
4	Iron (as Fe)	0.12	0.16	0.16	0.29	0.10	0.18	mg/l	0.3
5	Chlorides (as Cl)	17.36	19.28	18.32	17.36	19.28	20.25	mg/l	1000
6	Total Dissolved Solids	286	284	282	286	286	282	mg/l	2000
7	Electrical Conductivity	473	473	468	476	473	472	µS/cm	-
8	Calcium (as Ca)	44.71	36.73	39.92	43.11	43.11	38.32	mg/l	200
9	Magnesium (as Mg)	25.17	31.95	26.14	27.11	32.91	30.01	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 <sub>4</sub> )	46.87	47.81	44.62	47.37	46.20	46.23	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	10.76	12.14	9.30	10.93	< 2.20	11.81	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	140	140	148	136	144	140	mg/l	600
15	Acidity	02	04	02	02	2.0	2.0	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	11.12	< 0.02	mg/l	0.05
17	Sodium (as Na)	15.65	15.44	15.44	15.42	15.73	15.65	mg/l	-
18	Potassium (as K)	3.14	3.18	3.0	3.03	3.11	3.12	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	24.8	24.9	25.0	24.8	24.8	24.8	°C	-
32	Residual Free Chlorine	0.15	0.11	0.12	0.17	0.12	0.13	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No : 20

## DRINKING WATER QUALITY RESULT FOR THE MONTH OF MARCH 2026

SI No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Main Gate Canteen Drinking Water Point, Line - 1	Near Clinker Silo Drinking Water Point, Line - 1	Near CPP Office Building Drinking Water Point, Line - 2	Near Worker's Canteen Drinking Water Point, Line - 2	Near Cooler Drinking Water Point, DSP Unit	Near General Store Drinking Water Point, DSP Unit		
1	Turbidity	0.10	0.10	0.10	0.10	0.10	0.10	NTU	5.0
2	pH Value	7.60	7.64	7.38	7.42	7.08	7.07	-	6.5 – 8.5
3	Total Hardness (as CaCO <sub>3</sub> )	240	224	228	208	192	216	mg/l	600
4	Iron (as Fe)	0.24	0.26	0.18	0.03	0.09	0.07	mg/l	0.3
5	Chlorides (as Cl)	16.39	17.36	17.36	17.36	16.39	16.39	mg/l	1000
6	Total Dissolved Solids	286	280	274	274	264	280	mg/l	2000
7	Electrical Conductivity	476	466	467	483	463	493	µS/cm	-
8	Calcium (as Ca)	60.92	49.7	40	38.47	35.27	33.6	mg/l	200
9	Magnesium (as Mg)	23.81	24.3	31.1	27.2	25.27	32.1	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 <sub>4</sub> )	33.07	49.38	30.88	31.69	25.61	32.95	mg/l	400
13	Total Nitrate (as NO <sub>3</sub> )	9.15	8.35	8.47	8.74	8.45	8.49	mg/l	45
14	Total Alkalinity (as CaCO <sub>3</sub> )	148	136	140	152	156	160	mg/l	600
15	Acidity	02	06	02	04	14	06	mg/l	-
16	Sulphide (as H <sub>2</sub> S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	13.57	13.58	13.75	14.40	14.10	13.56	mg/l	-
18	Potassium (as K)	2.95	2.11	2.78	2.87	2.89	2.96	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)	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	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	24.8	24.9	25.0	24.8	24.8	24.8	°C	-
32	Residual Free Chlorine	0.15	0.11	0.12	0.17	0.12	0.13	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No : 21

## SURFACE WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2025

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.45	7.28	7.23	7.65	-	6.5 – 8.5
2	Electrical Conductivity	422	492	612	388	µS/cm	-
3	Total Dissolved Solids	254	296	368	234	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	166.66	206.34	242.05	194.43	mg/l	-
5	Chlorides (as Cl)	14.46	21.21	31.82	14.46	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	27.25	43.69	63.16	24.08	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	0.42	0.21	0.65	0.26	mg/l	1.5
9	Calcium (as Ca)	50.89	73.16	65.20	49.30	mg/l	-

SI	Parameter	Results Obtained				Unit	Surface Water Quality
10	Magnesium (as Mg)	9.64	5.78	19.28	17.35	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.31	0.39	0.42	0.89	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 <sup>6+</sup> )	< 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	Dissolved Oxygen (Min.)	6.2	6.1	6.0	6.2	Hazen	300
22	BOD 5 days at 20°C	01	01	01	01	-	-
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	-
24	Free Carbon Dioxide (as CO <sub>2</sub> )	5.28	7.04	12.32	7.04	mg/l	4
25	Total Suspended Solids	10.3	14.9	15.9	< 2.5	mg/l	3
26	Colour	< 5	< 5	< 5	< 5	mg/l	0.1
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	0.05
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	1.0
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	5000
33	Total Coliforms	Absent	Absent	Absent	Absent		

**Table No : 22**

**SURFACE WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2025**

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.54	7.57	7.54	7.58	-	6.5 – 8.5
2	Electrical Conductivity	559	601	600	457	µS/cm	-
3	Total Dissolved Solids	334	362	360	274	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	210.30	206.34	226.18	214.27	mg/l	-
5	Chlorides (as Cl)	26.03	28.93	27.96	16.39	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	31.28	31.81	31.35	23.45	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	20.74	20.63	20.76	3.28	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	0.82	mg/l	1.5
9	Calcium (as Ca)	41.35	39.76	44.53	52.48	mg/l	-
10	Magnesium (as Mg)	26.03	26.03	27.96	20.25	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.59	0.77	0.37	0.08	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 <sup>6+</sup> )	< 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	Dissolved Oxygen (Min.)	6.2	6.1	6.1	6.2	Hazen	4
22	BOD 5 days at 20°C	01	02	01	01	-	3
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	0.1
24	Free Carbon Dioxide (as CO <sub>2</sub> )	7.04	3.52	8.80	10.0	mg/l	-
25	Total Suspended Solids	3.7	3.9	4.1	10.4	mg/l	-
26	Colour	< 5	< 5	< 5	< 5	mg/l	300
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	1.0
33	Total Coliforms	Absent	Absent	Absent	Absent		5000

**Table No : 23**

**SURFACE WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2025**

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.40	7.32	7.20	6.91	-	6.5 – 8.5
2	Electrical Conductivity	753	918	977	507	µS/cm	-
3	Total Dissolved Solids	452	552	586	304	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	294.82	322.70	350.59	219.12	mg/l	-
5	Chlorides (as Cl)	40.50	68.46	70.39	20.25	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	50.95	59.70	72.40	37.90	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	< 2.20	3.01	< 2.20	4.97	mg/l	50
8	Fluoride (as F)	0.28	0.11	0.17	< 0.05	mg/l	1.5
9	Calcium (as Ca)	55.89	67.06	51.89	57.48	mg/l	-
10	Magnesium (as Mg)	37.76	37.75	22.27	18.39	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.24	0.36	0.39	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 <sup>+6</sup> )	< 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	Dissolved Oxygen (Min.)	6.2	6.1	6.0	6.2	Hazen	4
22	BOD 5 days at 20°C	01	02	02	01	-	3
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	0.1
24	Free Carbon Dioxide (as CO <sub>2</sub> )	8.80	5.28	8.80	7.04	mg/l	-
25	Total Suspended Solids	< 2.5	6.1	23.90	< 2.5	mg/l	-
26	Colour	< 5	< 5	< 5	< 5	mg/l	300
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	1.0
33	Total Coliforms	Absent	Absent	Absent	Absent		5000

**Table No : 24**

**SURFACE WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2026**

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.64	7.62	7.36	7.49	-	6.5 – 8.5
2	Electrical Conductivity	895	835	935	512	µS/cm	-

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
3	Total Dissolved Solids	538	502	562	308	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	354.58	326.69	322.70	231.07	mg/l	-
5	Chlorides (as Cl)	62.67	46.28	63.64	21.21	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	57.43	54.81	67.51	32.63	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	4.36	3.77	< 2.20	4.92	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	62.27	63.87	84.63	47.90	mg/l	-
10	Magnesium (as Mg)	48.40	40.66	27.11	27.11	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.78	0.26	0.15	0.16	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 <sup>6</sup> )	< 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	Dissolved Oxygen (Min.)	6.1	6.0	6.0	6.2	Hazen	4
22	BOD 5 days at 20°C	01	01	02	01	-	3
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	0.1
24	Free Carbon Dioxide (as CO <sub>2</sub> )	3.52	10.56	19.36	5.28	mg/l	-
25	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	mg/l	-
26	Colour	< 5	< 5	< 5	< 5	mg/l	300
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	1.0
33	Total Coliforms	Absent	Absent	Absent	Absent	-	5000

Table No : 25

**SURFACE WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2026**

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.59	7.65	7.37	7.52	-	6.5 – 8.5
2	Electrical Conductivity	847	840	879	514	µS/cm	-
3	Total Dissolved Solids	510	504	528	308	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	290.83	306.77	314.74	223.10	mg/l	-
5	Chlorides (as Cl)	64.60	65.57	61.71	20.25	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	67.20	67.26	81.72	32.45	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	4.25	3.96	4.22	2.60	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	62.27	63.87	83.03	51.10	mg/l	-
10	Magnesium (as Mg)	32.91	35.82	26.14	23.23	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.48	0.53	0.56	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 <sup>6</sup> )	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.2	Hazen	4
22	BOD 5 days at 20°C	01	01	01	01	-	3
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	0.1
24	Free Carbon Dioxide (as CO <sub>2</sub> )	< 2.0	7.04	< 2.0	< 2.0	mg/l	-
25	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	mg/l	-
26	Colour	< 5	< 5	< 5	< 5	mg/l	300
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	1.0
33	Total Coliforms	Absent	Absent	Absent	Absent		5000

**Table No : 26**

**SURFACE WATER QUALITY RESULT FOR THE MONTH OF MARCH 2026**

SI No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Municipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.42	7.44	7.23	7.08	-	6.5 – 8.5
2	Electrical Conductivity	964	976	914	784	µS/cm	-
3	Total Dissolved Solids	580	586	550	472	mg/l	1500
4	Total Hardness (as CaCO <sub>3</sub> )	284	300	360	324	mg/l	-
5	Chlorides (as Cl)	71.35	78.10	59.78	58.82	mg/l	600
6	Sulfate (as SO <sub>4</sub> )	49.45	62.91	64.52	48.09	mg/l	400
7	Total Nitrate (as NO <sub>3</sub> )	4.24	2.27	6.38	< 2.20	mg/l	50
8	Fluoride (as F)	0.26	0.36	0.43	< 0.05	mg/l	1.5
9	Calcium (as Ca)	59.20	56.0	60.8	83.36	mg/l	-
10	Magnesium (as Mg)	33.05	38.88	50.54	28.19	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	0.47	0.07	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 <sup>6+</sup> )	< 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	Dissolved Oxygen (Min.)	6.2	6.2	6.2	6.2	Hazen	4
22	BOD 5 days at 20°C	01	01	01	01	-	3
23	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	-	0.1
24	Free Carbon Dioxide (as CO <sub>2</sub> )	3.52	7.04	14.08	14.08	mg/l	-
25	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	mg/l	-
26	Colour	< 5	< 5	< 5	< 5	mg/l	300
27	Odour	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
28	Taste	Agreeable	Agreeable	Agreeable	Agreeable	mg/l	-
29	Free Ammonia (as NH <sub>3</sub> )	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
30	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
31	Phenolic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
32	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	Nos/100ml	1.0
33	Total Coliforms	Absent	Absent	Absent	Absent		5000

**Table No : 27**

**27.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET**

SI No	Parameters	Results Obtained						Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26	
1	pH Value	8.52	7.71	8.65	7.73	7.60	7.48	-
2.	Total Suspended Solids	22.7	12.5	15	16	52.3	29.5	mg/l
3.	Oil & Grease	4.1	5.2	2.6	3.8	3.8	3.4	mg/l
4.	BOD 5days at 20°C	36	33	96	22	40	39	mg/l
5.	COD	109.82	98.16	286.30	68.43	122.84	119.4	mg/l

**27.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET**

SI No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26		
1	pH Value	8.44	7.74	8.41	7.81	7.69	7.52	5.5 – 9.0	-
2.	Total Suspended Solids	15.7	10	12.3	15.6	25.7	27.7	100	mg/l
3.	Oil & Grease	2.8	2.6	< 2.0	2.6	< 2.0	2.4	10	mg/l
4.	BOD 5days at 20°C	16	16	20	12	14	15	-	mg/l
5.	COD	52.54	49.36	58.35	38.24	40.70	42.8	-	mg/l

**Table No : 28**

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

SI No	Parameters	Results Obtained						Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26	
1	pH Value	9.13	7.93	6.60	8.23	9.51	9.26	-
2.	Total Suspended Solids	15.1	< 2.5	2.5	< 2.5	< 2.5	< 2.5	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	COD	14.58	49.02	22.48	24.46	58.471	19.78	mg/l
5.	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
6.	Iron (as Fe)	0.21	0.19	0.07	0.09	0.21	0.07	mg/l

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

SI No	Parameters	Results Obtained						Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26	
1	pH Value	7.60	7.36	8.50	8.45	8.81	8.76	-
2.	Total Suspended Solids	< 2.5	10.8	< 2.5	5.8	36.7	7.8	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	Total Nitrate (as NO <sub>3</sub> )	9.22	24.90	13.41	7.06	18.14	7.27	mg/l
5.	Phosphate (as PO <sub>4</sub> )	1.46	1.26	1.43	1.82	1.44	1.46	mg/l
6.	Total Chromium (as Cr)	< 0.10	< 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	< 0.10	mg/l
8.	Residual Chlorine (as Cl <sub>2</sub> )	< 0.10	0.18	< 0.10	< 0.01	< 0.01	< 0.01	mg/l

Table No : 29

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

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26		
1	pH Value	7.60	7.10	7.23	7.42	7.37	7.50	6.5 – 9.0	-
2.	Total Suspended Solids	21.9	49.9	43.80	42.2	21.1	25.2	100	mg/l
3.	BOD 5days at 20°C	23	12	28	16	20	20	30	mg/l
4.	COD	68.45	37.42	83.97	46.85	58.471	62.28	-	mg/l
5.	Fecal coliform	100	100	100	100	100	10 <sup>2</sup>	1000	mg/l

Table No : 30

## EFFLUENT WATER QUALITY RESULT OF STP OUTLET (DSP UNIT)

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCT-25	NOV-25	DEC-25	JAN-26	FEB-26	MAR-26		
1	pH Value	7.77	7.49	7.17	7.56	7.58	7.37	6.5 – 9.0	-
2.	Total Suspended Solids	25.2	23.8	18.0	13.0	9.3	24.2	100	mg/l
3.	BOD 5days at 20°C	24	28	24	28	22	28	30	mg/l
4.	COD	74.51	86.31	76.57	84.67	67.47	91.48	-	mg/l
5.	Fecal Coliform	100	1000	100	100	10 <sup>3</sup>	10 <sup>2</sup>	1000	mg/l

Table No : 31

## SOIL QUALITY RESULT FOR THE MONTH OF OCTOBER 2025

Sl. No.	Parameter	Unit	Guest House Area	Near 132KV Sub-Station Area (Line – 2)	Near ETP Area (L – 1)
1.	Colour	-	Greyish	Brownish	Brownish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Clay Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.63	1.8	1.3
5.	pH (1:2 Suspension)	-	7.77	8.01	7.98
6.	Electrical Conductivity	µS/cm	513	365	741
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	14.20	10.18	< 5.0
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	547.6	410.28	293.16
9.	Organic Carbon	%	3.88	3.59	0.22
10.	Organic Matter		6.69	6.19	
11.	Available Nitrogen (as N)	Kg/ha	301.06	150.53	188.16
12.	Iron	mg/kg	5.2	4.88	6.05
13.	Calcium	mg/kg	182	179	179
14.	Manganese	mg/kg	7.3	7.95	9.76
15.	Infiltration Rate	cm/hr	2.44	4.65	4.77
16.	Porosity	gm/cm <sup>3</sup>	0.25	0.20	0.26
17.	Moisture Content	%	15.6	16.5	22.8
18.	Chloride	mg/kg	0.14	0.18	0.10
19.	Sulphate	mg/kg	0.70	0.58	0.48

Table No : 32

## SOIL QUALITY RESULT FOR THE MONTH OF NOVEMBER 2025

Sl. No.	Parameter	Unit	In Front of HR Area (Line – 1)	Water Harvesting Pond (L – 2)	AFR 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	Clay Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.63	1.2	1.3
5.	pH (1:2 Suspension)	-	8.14	7.91	7.98
6.	Electrical Conductivity	μS/cm	852	241	741
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	7.44	11.23	< 5.0
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	506.4	541.68	293.16
9.	Organic Carbon	%	1.37	3.01	0.22
10.	Organic Matter		2.36	5.19	
11.	Available Nitrogen (as N)	Kg/ha	238.34	125.44	188.16
12.	Iron	mg/kg	5.2	5.21	6.05
13.	Calcium	mg/kg	182	172	179
14.	Manganese	mg/kg	7.3	8.23	9.76
15.	Infiltration Rate	cm/hr	2.44	3.26	4.77
16.	Porosity	gm/cm <sup>3</sup>	0.25	0.20	0.26
17.	Moisture Content	%	15.6	18.57	22.8
18.	Chloride	mg/kg	0.14	0.18	0.10
19.	Sulphate	mg/kg	0.70	0.54	0.48

Table No : 33

## SOIL QUALITY RESULT FOR THE MONTH OF DECEMBER 2025

Sl. No.	Parameter	Unit	Inside Store Yard Area (Line – 1)	Konark Vihar Area	AFR Area (Line – 2)	Near New Weigh Bridge Area, DSP Unit
1.	Colour	-	Greyish	Brownish	Greyish	Brownish
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 Clay Loam	Silty Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.49	1.28	1.8	1.37
5.	pH (1:2 Suspension)	-	8.56	8.49	8.71	8.89
6.	Electrical Conductivity	μS/cm	299	232	326	691
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	< 5.0	< 5.0	5.82	7.43
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	431.04	298.8	547.2	266.16
9.	Organic Carbon	%	1.3	2.10	1.11	1.51
10.	Organic Matter		2.24	3.62	1.91	2.60
11.	Available Nitrogen (as N)	Kg/ha	238.33	163.07	175.62	250.88
12.	Iron	mg/kg	4.6	5.2	5.7	7.4
13.	Calcium	mg/kg	163	176	180	184
14.	Manganese	mg/kg	4.9	7.3	6.4	6.15
15.	Infiltration Rate	cm/hr	4.29	5.44	4.65	3.54
16.	Porosity	gm/cm <sup>3</sup>	0.31	0.25	0.20	0.28
17.	Moisture Content	%	12.8	15.6	16.5	21.7
18.	Chloride	mg/kg	0.17	0.14	0.18	0.16
19.	Sulphate	mg/kg	0.49	0.70	0.58	0.53

Table No : 34

## SOIL QUALITY RESULT FOR THE MONTH OF JANUARY 2026

Sl. No.	Parameter	Unit	ETP Area (Line – 1)	132 KVA Sub-Station Area (Line – 2)	Near Liquid 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	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.63	1.78	1.3
5.	pH (1:2 Suspension)	-	7.62	7.31	8.31
6.	Electrical Conductivity	μS/cm	322	232	440
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	< 5.0	8.51	8.40
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	299.28	283.32	138
9.	Organic Carbon	%	< 0.50	< 0.50	0.67
10.	Organic Matter	%	< 0.86	< 0.86	1.15
11.	Available Nitrogen (as N)	Kg/ha	150.53	125.44	238.34
12.	Iron	mg/kg	5.1	4.86	5.20
13.	Calcium	mg/kg	180	178	178
14.	Manganese	mg/kg	7.3	7.95	9.22
15.	Infiltration Rate	cm/hr	2.44	4.65	4.25
16.	Porosity	gm/cm <sup>3</sup>	0.25	0.20	0.18
17.	Moisture Content	%	15.6	16.5	22.58
18.	Chloride	mg/kg	0.14	0.18	0.09
19.	Sulphate	mg/kg	0.70	0.58	0.51

Table No : 35

## SOIL QUALITY RESULT FOR THE MONTH OF FEBRUARY 2026

Sl. No.	Parameter	Unit	AFR Area (Line – 1)	Water Harvesting Pond (Line – 2)	AFR Area (DSP Unit)
1.	Colour	-	Brownish	Greyish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.8	1.3	1.2
5.	pH (1:2 Suspension)	-	8.05	8.02	8.00
6.	Electrical Conductivity	μS/cm	366	489	1428
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	6.79	7.85	14.89
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	394.8	381.6	679.2
9.	Organic Carbon	%	0.94	0.62	3.48
10.	Organic Matter	%	1.62	1.07	6.0
11.	Available Nitrogen (as N)	Kg/ha	188.16	125.44	200.7
12.	Iron	mg/kg	4.8	6.05	6.08
13.	Calcium	mg/kg	168	179	178
14.	Manganese	mg/kg	9.61	9.76	7.02
15.	Infiltration Rate	cm/hr	6.54	4.77	5.64
16.	Porosity	gm/cm <sup>3</sup>	0.19	0.26	0.15
17.	Moisture Content	%	21.26	22.8	23.0
18.	Chloride	mg/kg	0.13	0.10	0.18
19.	Sulphate	mg/kg	0.62	0.48	0.71

Table No : 36

## SOIL QUALITY RESULT FOR THE MONTH OF MARCH 2026

Sl. No.	Parameter	Unit	STP Area (Line – 2)	Inside Store Yard (Line – 1)	Konark Vihar Area	STP Area (DSP Unit)
1.	Colour	-	Greyish	Brownish	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 Clay Loam	Silty Loam
4.	Bulk Density	gm/cm <sup>3</sup>	1.6	1.5	1.4	1.3
5.	pH (1:2 Suspension)	-	7.97	8.20	8.08	8.22
6.	Electrical Conductivity	μS/cm	1952	384	284	350
7.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/ha	13.88	< 5.0	< 5.0	< 5.0
8.	Available Potassium (as K <sub>2</sub> O)	Kg/ha	960.12	434.76	240.84	254.16
9.	Organic Carbon	%	1.28	0.68	0.75	0.69
10.	Organic Matter	%	2.21	1.17	1.29	1.19
11.	Available Nitrogen (as N)	Kg/ha	313.6	250.88	137.98	137.98
12.	Iron	mg/kg	5.03	6.15	6.02	6.28
13.	Calcium	mg/kg	165	182	173	176
14.	Manganese	mg/kg	8.62	9.75	8.72	7.12
15.	Infiltration Rate	cm/hr	6.56	3.72	4.76	5.52
16.	Porosity	gm/cm <sup>3</sup>	0.17	0.28	0.25	0.16
17.	Moisture Content	%	21.25	21.4	21.4	24.0
18.	Chloride	mg/kg	0.14	0.12	0.10	0.17
19.	Sulphate	mg/kg	0.63	0.42	0.44	0.64

Table No : 37

## NOISE LEVEL MONITORING DATA

From 01.10.2025 to 31.03.2026

Month	Location	Leq dB(A) Day Time	Leq dB(A) Night Time
Oct	Konark Vihar Area	49.6	53.7
	Guest House Area	49.4	55.2
	Main Gate Canteen Area (Line – 1)	54.6	50.9
	B. G Loco Gate Area (Line – 1)	60.0	57.4
	Lime Stone TT Point Area (Line – 2)	–	–
	CPP Area (Line – 2)	–	–
	STP Area (DSP Unit)	51.0	50.7
	AFR Storage Area (DSP Unit)	49.9	47.3
Nov	Konark Vihar Area	47.1	47.2
	Guest House Area	51.2	45.3
	General Store Area (Line – 1)	59.9	57.9
	Refractory Main Gate Area (Line – 1)	57.5	56.9
	CCR Building Area (Line – 2)	–	–
	Workshop Area (Line – 2)	–	–
	General Store Area (DSP Unit)	60.3	57.9
	Project Gate Area (DSP Unit)	58.0	55.1

Month	Location	Leq dB(A) Day Time	Leq dB(A) Night Time
<b>Dec</b>	Konark Vihar Area	38.8	34.9
	Guest House Area	51.8	45.2
	Near Main Gate Canteen Area (Line – 1)	51.9	47.5
	B. G Loco Gate Area (Line – 1)	61.1	52.6
	CPP Area (Line – 2)	–	–
	Transfer Tower – 4 Area (Line – 2)	–	–
	AFR Storage Area (DSP Unit)	61.6	55.7
	STP Area (DSP Unit)	65.1	63.8
<b>Jan</b>	Konark Vihar Area	40.4	34.3
	Guest House Area	59.3	57.3
	CCR Building Area (Line – 2)	70.3	70.3
	Workshop Area (Line – 2)	54.9	54.4
	Guest House Area (Line – 2)	–	–
	Refractory Main Gate Area (Line – 1)	–	–
	General Store Area (DSP Unit)	52.3	48.3
	Project Gate Area (DSP Unit)	56.6	60.6
<b>Feb</b>	Konark Vihar Area	41.3	41.6
	Guest House Area	44.2	40.8
	Near Main Gate Canteen Area (Line – 1)	54.8	52.3
	B. G Loco Gate Area (Line – 1)	59.6	56.6
	Guest House Area (Line – 2)	–	–
	CPP DM Plant Area (Line – 2)	–	–
	General Store Area (DSP Unit)	61.3	60.5
	Project Gate Area (DSP Unit)	58.1	58.9
<b>Mar</b>	Konark Vihar Area	42.8	40.5
	Guest House Area	53.6	51.6
	General Store Area (Line – 1)	61.2	60.0
	Refractory Main Gate Area	61.4	59.4
	CCR Building Area (Line – 2)	–	–
	Workshop Area (Line – 2)	–	–
	General Store Area (DSP Unit)	65.5	65.3
	Project Gate Area (DSP Unit)	60.0	59.2

\*\*\*