Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	J-13012/27/08-IA-II(T)
Compliance ID	138533486
Compliance Number(For Tracking)	EC/M/COMPLIANCE/138533486/2025
Reporting Year	2025
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	28-10-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	ODISHA
RO/SRO Office Address	Integrated Regional Offices, Bhubaneswar
Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, ODISHA with Notification to Project Proponent.	

Dalmia cement
FUTURE TODAY

cement! sugar! refractories! power!

CPP/SEIAA/028/2025-26/122
October 24, 2025.

To,
The State Environment Impact Assessment Authority,
(SEIAA), Odisha
Qtr. No. 5RF-2/1, Unit – IX,
Bhubaneswar – 751022

Sub: **Submission of Six-Monthly Compliance Report of the Environmental Clearance for (2x27 MW) Captive Power Plant of M/s Dalmia Cement Bharat Limited, At/Po. – Rajgangpur, Dist. – Sundargarh, Odisha for the period April 2025 to September 2025**

Ref: Environmental Clearance Letter No. SEIAA 619 / SEIAA – 128/10, dated 22.12.2010.

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 (2x27 MW) Captive Power Plant of M/s Dalmia Cement Bharat Limited, At/Po – Rajgangpur, Dist. – Sundargarh, Odisha for the period April 2025 to September 2025.

Thanking you,

Your Sincerely,
For **Dalmia Cement Bharat Limited,**

Akmishra.

Ashok Kumar Mishra
Head - Environment

Encl: As above

CC: 1. The Addl. PCCF (C), IRO, MoEF&CC, Eastern Zone, Bhubaneswar, Odisha.
2. The Member Secretary, OSPCB, Bhubaneswar, Odisha.
3. The Member Secretary, CPCB, New Delhi.

Half Yearly Compliance Report
2025
01 Dec(01 Apr - 30 Sep)

Acknowledgement

Proposal Name	(2 X 27) MW CPP of OCL India Limited at Rajgangpur, Dist-Sundargarh
Name of Entity / Corporate Office	Dalma Cement Bharat Limited
Village(s)	KUMARKELA
District	SUNDARGARH

Proposal No.	J-13012/27/08-IA-II(T)	**Category**	Thermal Projects
Plot / Survey / Khasra No.		**Sub-District**	Rajagangapur
State	ODISHA	**Entity's PAN**	*****9414C
MoEF File No.	SEIAA-128/10	**Entity name as per PAN**	DALMIA CEMENT (BHARAT) LIMITED

Compliance Reporting Details

Reporting Year 2025

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office Dalma Cement Bharat Limited

	Project Area as per EC Granted	Actual Project Area in Possession
Private	1.121	1.121
Revenue Land	9.82	9.82
Forest	0	0
Others	0	0
Total	10.941	10.941

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	POWER	MW	31/03/2028	54	336893	54

Conditions

General Conditions

Sr.No.	Condition Type	Condition Details

1	MISCELLANEOUS	The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water pollution, Noise pollution and Land pollution including solid waste management as mentioned by him in form-1, Final EIA reports and Environment Management Plant (EMP) in compliance with the prescribed statutory norms and standards.

PPs Submission: Complied We are taking all control measures to mitigate air, water, land and noise pollution, including solid and hazardous waste management. Air Pollution Control systems adopted. A. Two nos. high efficiency Electrostatic Precipitator (ESP) with six fields. B. Pneumatic ash conveying system from Silo to Cement Plant. C. Ash storage silos with bag filters installed. D. Closed Conveyor belt for material transportation. E. Bag filters (dust extraction) and dust suppression system in Coal handling transfer points and coal conveying circuits respectively. F. Truck mounted mist cannons have been deployed as well as a wind barrier of 30 meters height have been installed for preventing fugitive dust emission. Water pollution Control, systems adopted. A. STP is in place for treating domestic wastewater. B. Water generated from the process is recycled and reused. A surface run-off collection pond having a capacity of 30000 m3 has been made inside plant for collecting run-off and reutilization post treatment. Noise Pollution Control, systems adopted. A. Compressor and TG area are acoustically sealed to prevent noise pollution. B. In stream vent line, silencers are provided. C. Seal blower silencers in Fans. Solid Waste Management, systems adopted. A. Sludge from STP is utilized for green belt development / plantation. B. Ash generated from power plants is utilized for cement manufacturing.	Date: 25/10/2025

2	Corporate Environmental Responsibility	The applicant will take necessary steps for Socio-economic development of the people of the area on need-based assessment for providing employment education, health care, drinking water and sanitation, road and communication facilities etc., after a detailed primary socio-economic survey of the core zone.

PPs Submission: Being Complied The socio-economic development of the people in the local area/community is being taken up through our CSR foundation in consultation with district administration.	Date: 25/10/2025

3	PUBLIC HEARING	The applicant will comply with the points, concerns and issued raised by the people during public hearing on 29th May 2009 in accordance with the comments made by him thereon.

PPs Submission: Complied All the concerns and issues raised by the local people are being addressed from time to time.	Date: 25/10/2025

4	Statutory compliance	The applicant will take statutory clearance / approval / permission from the concerned authorities in respect of his project as and when required.

PPs Submission: Complied All statutory clearances and approvals/permissions from the concerned authorities are in place	Date: 25/10/2025

5	Statutory compliance	For post environmental clearance monitoring, the applicant will submit half yearly compliance report in respect of the stipulated terms and conditions of Environmental clearance to the State Environmental Impact Authority (SEIAA/), Orissa on 1st June and 1st December of each calendar year.

PPs Submission: Complied The half yearly EC compliance report is submitted to SEIAA periodically within the stipulated timeframe. The last report was submitted on 28.04.2025.	Date: 25/10/2025

6	AIR QUALITY	High efficiency Electrostatic Precipitators (ESPs) shall be installed

	MONITORING AND PRESERVATION	to ensure that particulate matter emission does not exceed 50 mg/Nm3.
PPs Submission: Complied ESPs are operating with more than 99 percent efficiency to control PM emission below 50mg/Nm3.		Date: 25/10/2025
7	WASTE MANAGEMENT	The proponent may use bottom ash as a supplement for the raw material for cement production with approved technology confirming to the relevant standards specification.
PPs Submission: Complied Bottom Ash is used for our captive cement manufacturing based on product recipe.		Date: 25/10/2025
8	MISCELLANEOUS	The unit shall be allowed to use Washery rejects as raw material having <60% ash content
PPs Submission: Complied Washery rejects with less than 60 percent ash content is being used along with domestic coal including coal fines.		Date: 25/10/2025
9	AIR QUALITY MONITORING AND PRESERVATION	The proponent shall treat the flue gas through Flue Gas De-sulfurization (FGD), if SO2 emission level exceeds the prescribed norm
PPs Submission: Complied Present SO2 emission levels are well within the prescribed norms. Hence, FGD is not required.		Date: 25/10/2025
10	WATER QUALITY MONITORING AND PRESERVATION	No ground water shall be extracted for the project work at any stage.
PPs Submission: Complied No groundwater was extracted during project work at any stage.		Date: 25/10/2025
11	AIR QUALITY MONITORING AND PRESERVATION	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dust areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
PPs Submission: Complied Adequate dust control systems have been installed as mentioned below- i) 8 nos. of bag filters in coal handling transfer points to control fugitive dust. ii) Pneumatic ash conveying system from Silo to Cement plant. iii) Covered conveyor belts provided for local transportation to eliminate fugitive dust. iv) Wind Barrier alongside of CPP boundary to control the dust emission to nearby locality. v) Mist cannons have been deployed in coal handling areas including a truck mounted vehicle for road dust suppression.		Date: 25/10/2025
12	WASTE MANAGEMENT	Fly ash shall be collected in dry form and storage facilities (silos) shall be provided. 100% fly ash utilized shall be ensured as per fly ash notification of MoEF&CC, Govt. of India. Unutilized fly ash and bottom ash shall be stored in the ash pond separately through high concentration slurry disposal method. Mercury levels along with other heavy metals (Pb, Cr, As, etc.) should be mentioned in the fly ash / bottom ash, leachates and effluents emanating from the ash pond.
PPs Submission: Complied		Date:

Fly ash and Bottom Ash are collected and stored in silos. The same is utilized in our captive cement manufacturing plant and hence no ash pond is required for storage of ash. We have achieved around 116 percent ash utilization from April 2025 to September 2025.		25/10/2025
13	MISCELLANEOUS	The ash pond should be constructed with impervious lining and ash pond embankment should be stone pitched.
PPs Submission: Complied No ash pond is required for storage of ash as the same is utilized in cement manufacturing and balance ash is stored in silos.		Date: 25/10/2025
14	WATER QUALITY MONITORING AND PRESERVATION	A sewage treatment plant shall be provided, and the treated sewage shall be used for raising greenbelt/ plantation.
PPs Submission: Complied Sewage treatment plant (STP) is in place for treating domestic wastewater and treated water is used for horticulture and dust suppression purposes.		Date: 25/10/2025
15	WATER QUALITY MONITORING AND PRESERVATION	Rainwater harvesting should be adopted. Central Groundwater Authority / Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished to the SEIAA, Orissa.
PPs Submission: Complied Rainwater harvesting has been adopted at site. The storm water is channelized to the earthen reservoir for further treatment and reused within the plant premises.		Date: 25/10/2025
16	Risk Mitigation and Disaster Management	Adequate safety measures shall be provided in the LDO and / HFO / LSHS shall be made in the plant area to check / minimize spontaneous fires in coal yard, especially during summer season. Details of these measures to be taken along with location plant layout shall be submitted to the SEIAA, Orissa.
PPs Submission: Complied Fire safety measures are in place to check fires within the plant premises with a dedicated fire team round the clock to handle emergency situations.		Date: 25/10/2025
17	Risk Mitigation and Disaster Management	Storage facilities for auxiliary liquid fuel such as LDO and /HFO / LSHS shall be made in the plant area where risk is minimum. On-site and off-site Disaster Management plans shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modification required if any, shall be incorporated in the Disaster Management plan (DMP). Sulfur content in the liquid fuel will not exceed 0.5%.
PPs Submission: Complied Storage facilities for liquid fuel have been earmarked within the plant premises. Disaster Management Plan along with onsite emergency plan is in place. Mock drills are conducted periodically to ensure effectiveness to handle emergency situations.		Date: 25/10/2025
18	WATER QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground water in and around the ash pond shall be carried out, records maintained, and half yearly reports shall be furnished to the SEIAA Orissa.
PPs Submission: Complied Not applicable as there are no ash ponds and ash generated is being utilized in cement manufacturing and other avenues as per Fly Ash notification, 2021 and subsequent amendments thereof.		Date: 25/10/2025

19	GREENBELT	A GREEN BELT of adequate width and density, preferably with local species along the periphery of the plant & alongside roads, etc. shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under permanent green belt throughout the year & for this purpose they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared accordingly and submitted to the SEIAA, Orissa.

PPs Submission: Complied Adequate Green cover with native local species has been developed. Efforts are made to increase the survival rate beyond 90 percent. This year a total of 1102 plantation has been carried out in consultation with DFO, Sundargarh and Rourkela.	Date: 25/10/2025

20	Human Health Environment	First aid and sanitation arrangements shall be made for the drivers and other contract workers during the construction phase.

PPs Submission: Complied Necessary first aid and sanitation arrangements were in place for drivers and contract workers during the construction phase.	Date: 25/10/2025

21	Noise Monitoring & Prevention	Noise levels emanating from turbines and air compressors shall be limited to 75 dB (A); for people working in the high noise area, requisite personal protective equipment's like earplugs / ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy / less noisy areas.

PPs Submission: Complied Noise levels monitored within the plant premises conform to the prescribed limits for different localities. People working in the noise prone area are provided with earmuff and adequate Personal protective equipment (PPE) and periodically examined for any case of hearing loss.	Date: 25/10/2025

22	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground level concentrating of SO2, NOX, RSPM (PM10 & PM 2.5) etc. shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequently of monitoring shall be decided in consultation with SPCB, Orissa

PPs Submission: Complied Regular monitoring of SO2, NOX, RSPM (PM10 and PM2.5) etc. is being carried out as per guidelines of SPCB by 3rd party NABL accredited lab. The environmental monitoring report is enclosed. A total of 5 nos. of CAAQMS have been installed for monitoring on a real time basis the location and frequency of monitoring has been decided in consultation with OSPCB.	Date: 25/10/2025

23	Human Health Environment	Provision shall be made for housing of construction labours within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

PPs Submission: Complied Necessary basic infrastructure was in place during the project construction phase for the construction labors.	Date: 25/10/2025

24	MISCELLANEOUS	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental

		safeguards.
PPs Submission: Complied An environmental cell is in place for implementation of environmental safeguards with Head of cell reporting directly to Unit Head.		Date: 25/10/2025
25	Statutory compliance	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to the appropriate authorities.
PPs Submission: Complied The six-monthly report on the compliance status of EC conditions is submitted regularly to the statutory bodies. All environmental safeguards are in place. The last report was submitted on 28.04.2025.		Date: 25/10/2025
26	MISCELLANEOUS	Separate fund shall be allocated for implementation of environmental protection measures along with item-wise break- up. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported.
PPs Submission: Complied The funds for environmental protection measures has been utilized for the purpose allocated and not diverted.		Date: 25/10/2025
27	Corporate Environmental Responsibility	The need of the local people should be appropriately addressed in the CSR activities to be undertaken by the project proponent in the area. An action plan in this regard should be prepared and submitted to SEIAA Odisha.
PPs Submission: Being Complied The needs of the local people are being addressed from time to time through our CSR team in consultation with district administration.		Date: 25/10/2025
28	Statutory compliance	The above-mentioned stipulated conditions shall be complied with in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract under the provisions of Environmental Protection (EP) Act, 1986.
PPs Submission: Complied The above-mentioned stipulated conditions has been complied with in a time bound manner.		Date: 25/10/2025
29	WATER QUALITY MONITORING AND PRESERVATION	The treated effluents confirming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made so that effluents and storm water do not get mixed.
PPs Submission: Complied The treated effluent confirms to the prescribed standards and is reused within the plant. There is no discharge of effluent outside the plant boundary.		Date: 25/10/2025

Visit Remarks

Last Site Visit Report Date:	N/A

Additional Remarks:	The Environment Monitoring Report of CPP (2 X27 MW) for the period from April 2025 to September 2025 is attached as additional attachement.

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

ENVIRONMENTAL MONITORING REPORT

BASED ON DATA GENERATED

FROM

APRIL – SEPTEMBER 2025

FOR

DALMIA CEMENT BHARAT LIMITED

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

Prepared By:

Cleenviron Private Limited

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

Tele: 0661 – 2475746

Email:cleenviron@gmail.com

1. DATA ANALYSIS

1.1 Micro-meteorological Study:

1.1.1 Wind Speed & Wind Direction

During the entire period from 1st April to 30th September all total 4392 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 0.96%, while considering the 24 hourly data. 1.09% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 0.85% calm condition prevailed from 14hrs to 22hrs and 1.21% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from SE with average wind speed 4.00 m/sec. The wind rose diagram for the entire study period are depicted on the **Figure No: 1.1, 1.2, 1.3 & 1.4.**

1.1.2 Temperature

The maximum & minimum temperature during the entire study period were divided in to two parts as the study period was covering summer as well as monsoon seasons. The Minimum temperature during the summer season was found to be 20.52°C and the Maximum temperature was found to be 43.92°C up to the end of 30th June.

The minimum and maximum temperature during the monsoon season i.e. from July to September was found to be 23.26°C and 35.93°C. **Table No 1** shows a summary of micro-meteorological data collected for the entire period.

1.1.3 Rainfall

The total rain fall from 1st April to 30th September was observed to be 1202.2 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

Sl No	Parameters	From April – September 2025
1	Predominant Wind Direction	From SE
2	Calm Condition %	0.96%
3	Average Wind Speed m/sec	4.00
4	Temperature °C	
	Summer Season	
	Minimum	20.52
	Maximum	43.92
	Monsoon Season	
	Minimum	23.26
	Maximum	35.93
5	**Rain Fall in mm**	
	April	17.2
	May	128.6
	June	271.6
	July	432.2
	August	208.4
	September	144.2
	Total	**1202.2**

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

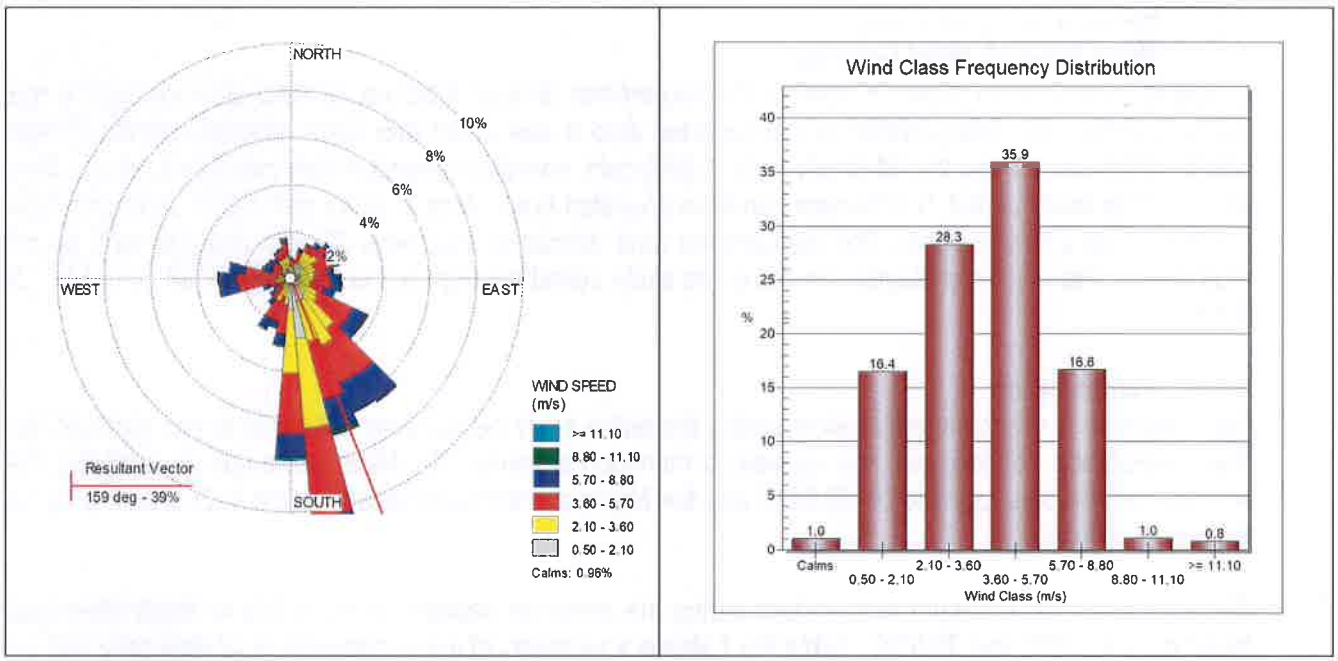

Figure No: 1.2 **Wind Rose Diagram from 06 – 14 Hours**

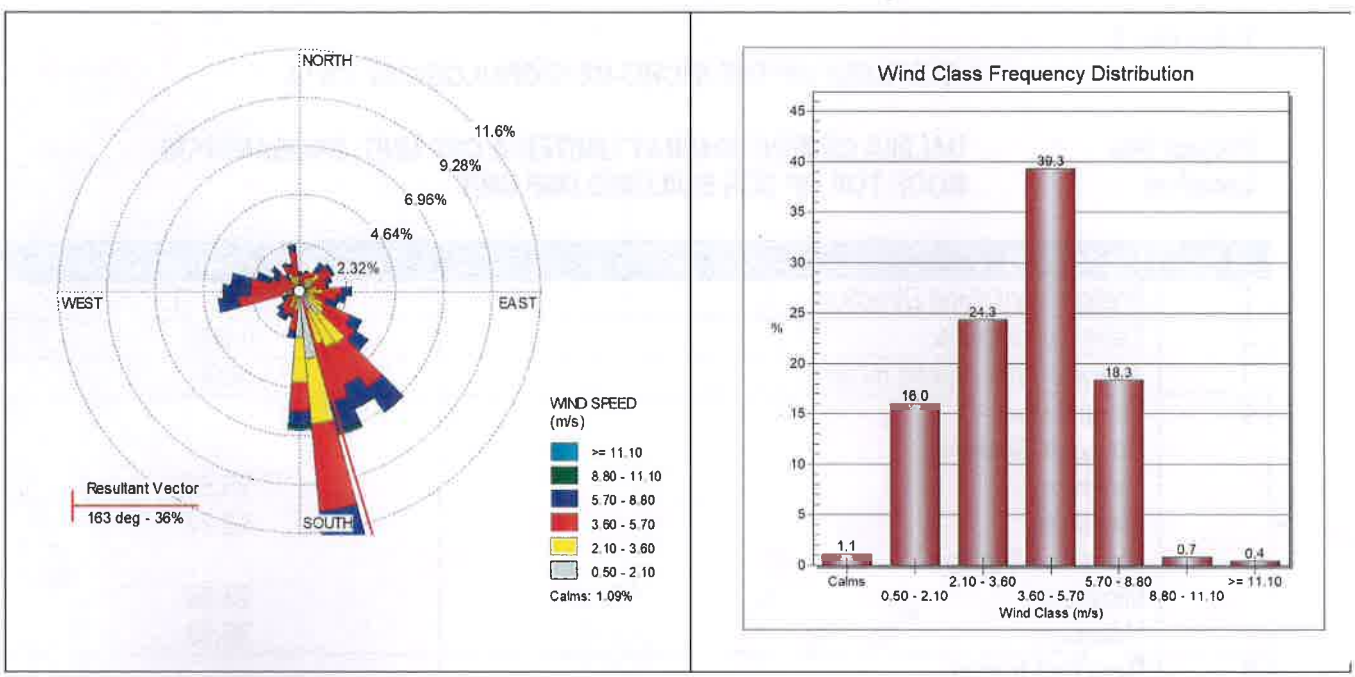

Figure No: 1.3 **Wind Rose Diagram from 14 – 22 Hours**

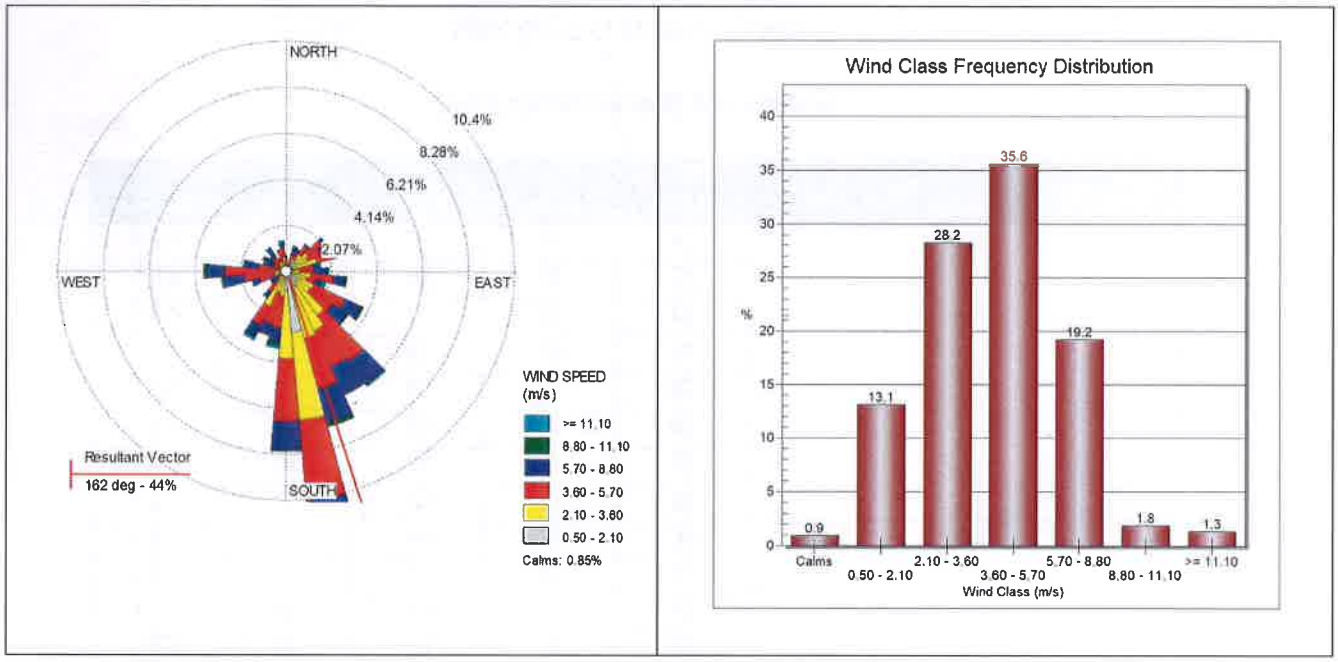

Figure No: 1.4 **Wind Rose Diagram from 22 – 06 Hours**

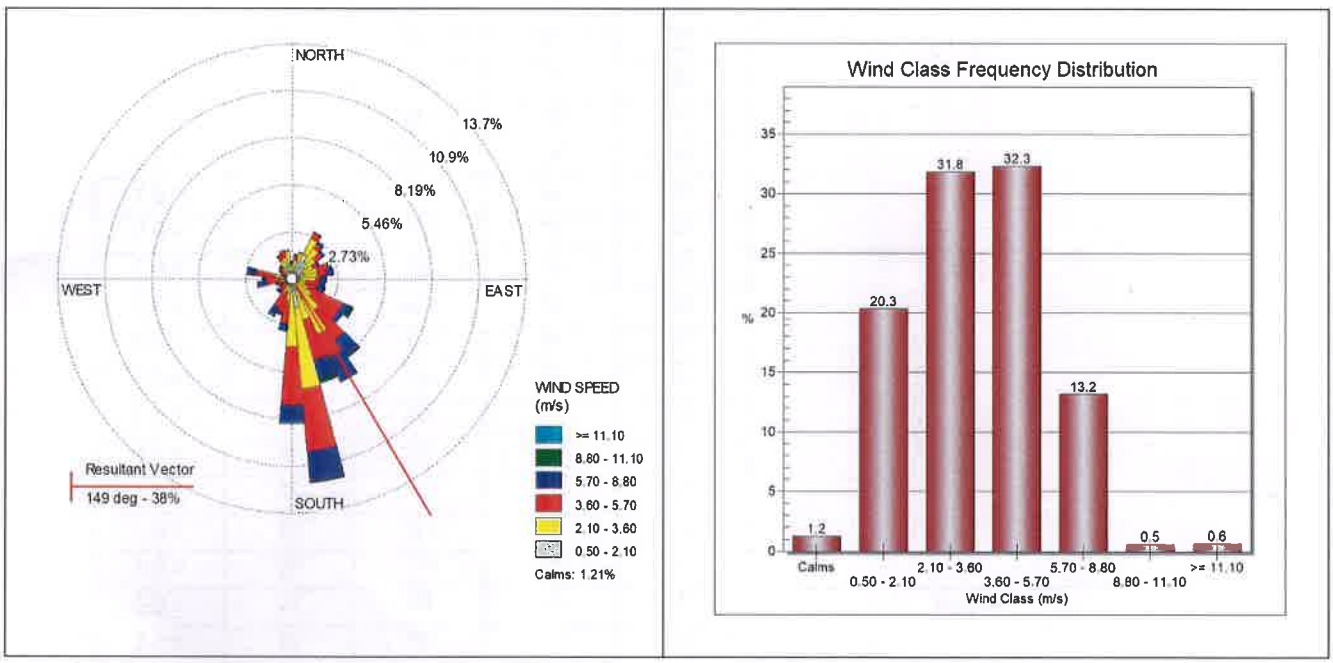

Table No: 2

AMBIENT AIR QUALITY DATA

From 01.04.2025 to 30.09.2025

Station: A-1 (Konark Vihar Area)

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	24	68	05	19	< 0.1
	22	61	08	22	< 0.1
	23	70	07	23	< 0.1
	17	51	06	17	< 0.1
	26	77	08	24	< 0.1
	26	79	05	20	< 0.1
	27	78	07	22	< 0.1
	26	76	06	22	< 0.1
May	20	61	05	20	< 0.1
	24	69	07	21	< 0.1
	26	73	07	25	< 0.1
	29	83	08	26	< 0.1
	28	81	06	22	< 0.1
	19	53	03	16	< 0.1
	27	76	< 03	13	< 0.1
	18	55	04	17	< 0.1
	17	51	03	18	< 0.1
June	23	68	08	25	< 0.1
	21	63	06	23	< 0.1
	22	66	04	18	< 0.1
	18	55	03	16	< 0.1
	17	51	< 03	14	< 0.1
	20	62	< 03	15	< 0.1
	20	58	04	19	< 0.1
	18	53	03	17	< 0.1
July	17	50	03	16	< 0.1
	16	48	< 03	14	< 0.1
	15	45	< 03	14	< 0.1
	18	49	03	15	< 0.1
	16	51	04	18	< 0.1
	17	46	03	15	< 0.1
	18	52	05	20	< 0.1
	14	42	< 03	13	< 0.1
	20	56	04	19	< 0.1
August	15	42	03	16	< 0.1
	22	67	05	22	< 0.1
	26	75	06	24	< 0.1
	17	47	03	14	< 0.1
	19	52	04	18	< 0.1
	21	54	03	17	< 0.1
	23	60	05	21	< 0.1
	20	57	04	19	< 0.1
	20	56	04	18	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
September	21	58	05	20	< 0.1
	22	63	05	21	< 0.1
	19	55	03	17	< 0.1
	23	60	06	22	< 0.1
	30	81	06	23	< 0.1
	18	51	03	16	< 0.1
	21	54	04	18	< 0.1
	19	52	04	19	< 0.1

Table No: 3

AMBIENT AIR QUALITY DATA

From 01.04.2025 to 30.09.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	21	61	06	20	< 0.1
	24	69	07	22	< 0.1
	27	79	08	23	< 0.1
	28	80	08	21	< 0.1
	23	77	08	23	< 0.1
	27	81	06	20	< 0.1
	29	83	08	24	< 0.1
	28	79	07	21	< 0.1
May	24	70	06	22	< 0.1
	26	80	07	23	< 0.1
	28	82	08	24	< 0.1
	27	81	07	26	< 0.1
	26	78	04	21	< 0.1
	25	79	05	20	< 0.1
	24	76	03	18	< 0.1
	28	83	06	22	< 0.1
	23	69	04	20	< 0.1
June	29	85	04	21	< 0.1
	28	86	05	25	< 0.1
	27	80	04	19	< 0.1
	21	61	03	16	< 0.1
	26	82	06	22	< 0.1
	27	79	05	20	< 0.1
	25	73	< 03	17	< 0.1
	17	51	03	15	< 0.1
July	21	62	04	19	< 0.1
	18	52	03	14	< 0.1
	16	49	04	17	< 0.1
	17	51	03	18	< 0.1
	29	86	05	20	< 0.1
	18	50	04	19	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	27	72	06	22	< 0.1
	14	42	< 03	14	< 0.1
	16	46	03	15	< 0.1
August	16	48	03	14	< 0.1
	26	75	05	21	< 0.1
	23	69	04	19	< 0.1
	25	72	05	20	< 0.1
	21	56	04	19	< 0.1
	20	58	03	15	< 0.1
	22	59	05	21	< 0.1
	19	56	04	18	< 0.1
	18	49	03	16	< 0.1
September	22	59	04	18	< 0.1
	30	84	06	25	< 0.1
	19	51	04	19	< 0.1
	21	62	05	21	< 0.1
	20	57	04	20	< 0.1
	27	78	06	22	< 0.1
	22	56	03	17	< 0.1
	23	58	04	18	< 0.1

Table No: 4

AMBIENT AIR QUALITY DATA

From 01.04.2025 to 30.09.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	25	72	07	23	< 0.1
	24	74	06	20	< 0.1
	26	76	05	19	< 0.1
	24	75	07	20	< 0.1
	26	80	09	25	< 0.1
	27	82	07	22	< 0.1
	28	80	06	23	< 0.1
	28	79	05	21	< 0.1
May	24	74	05	19	< 0.1
	28	80	07	24	< 0.1
	27	81	08	26	< 0.1
	29	82	06	21	< 0.1
	29	84	08	25	< 0.1
	26	78	04	27	< 0.1
	30	88	10	34	< 0.1
	31	89	07	26	< 0.1
	28	81	05	22	< 0.1
June	28	84	05	23	< 0.1
	23	69	03	15	< 0.1
	31	92	07	26	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	29	86	05	20	< 0.1
	24	71	04	19	< 0.1
	25	73	06	20	< 0.1
	20	59	03	16	< 0.1
	31	90	07	27	< 0.1
July	20	61	04	18	< 0.1
	15	44	< 03	12	< 0.1
	17	50	04	20	< 0.1
	16	48	< 03	15	< 0.1
	14	42	< 03	13	< 0.1
	16	47	03	14	< 0.1
	22	64	05	21	< 0.1
	15	43	03	16	< 0.1
	30	89	06	23	< 0.1
August	16	46	03	13	< 0.1
	25	73	03	18	< 0.1
	27	82	05	21	< 0.1
	24	71	05	22	< 0.1
	26	78	06	24	< 0.1
	23	66	04	20	< 0.1
	20	54	03	17	< 0.1
	31	84	06	26	< 0.1
September	25	71	05	20	< 0.1
	27	75	06	23	< 0.1
	26	76	05	21	< 0.1
	22	60	04	18	< 0.1
	24	66	06	24	< 0.1
	23	72	04	19	< 0.1
	19	49	03	16	< 0.1
	28	74	06	21	< 0.1
	25	64	05	21	< 0.1

Table No: 5

AMBIENT AIR QUALITY DATA
From 01.04.2025 to 30.09.2025

Station: A-4 (Near Refractory Main Gate)

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	21	65	05	18	< 0.1
	27	79	06	20	< 0.1
	26	75	07	21	< 0.1
	21	72	05	19	< 0.1
	22	70	05	18	< 0.1
	29	81	06	20	< 0.1
	27	82	06	21	< 0.1
	26	80	07	22	< 0.1
May	27	80	06	25	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	26	81	07	24	< 0.1
	28	83	08	26	< 0.1
	27	82	06	22	< 0.1
	28	84	07	23	< 0.1
	30	88	06	28	< 0.1
	32	90	09	35	< 0.1
	29	89	05	23	< 0.1
	31	91	08	28	< 0.1
June	31	92	05	24	< 0.1
	27	84	04	21	< 0.1
	30	89	06	23	< 0.1
	29	91	04	21	< 0.1
	28	87	05	20	< 0.1
	26	83	03	18	< 0.1
	32	93	07	25	< 0.1
	29	90	08	26	< 0.1
July	28	86	06	25	< 0.1
	16	48	03	15	< 0.1
	24	72	05	21	< 0.1
	21	61	04	19	< 0.1
	29	82	06	22	< 0.1
	27	80	07	24	< 0.1
	26	70	05	20	< 0.1
	30	77	04	21	< 0.1
	33	81	06	23	< 0.1
August	25	79	05	22	< 0.1
	28	81	06	23	< 0.1
	27	75	04	20	< 0.1
	30	80	06	24	< 0.1
	31	82	05	21	< 0.1
	21	56	03	17	< 0.1
	32	83	05	22	< 0.1
	27	78	04	18	< 0.1
September	27	79	06	23	< 0.1
	29	80	04	20	< 0.1
	30	82	07	24	< 0.1
	28	76	05	21	< 0.1
	25	78	06	22	< 0.1
	31	85	05	20	< 0.1
	32	81	05	23	< 0.1
	26	77	04	18	< 0.1
	24	76	04	20	< 0.1

Table No: 6

AMBIENT AIR QUALITY DATA

From 01.04.2025 to 30.09.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	22	61	04	20	< 0.1
	27	81	06	21	< 0.1
	25	70	05	26	< 0.1
	22	73	09	22	< 0.1
	24	71	04	18	< 0.1
	28	79	07	22	< 0.1
	26	80	06	21	< 0.1
	27	82	07	23	< 0.1
May	27	79	08	24	< 0.1
	26	78	06	21	< 0.1
	28	80	07	23	< 0.1
	29	82	06	23	< 0.1
	26	77	05	22	< 0.1
	25	80	05	18	< 0.1
	30	86	07	25	< 0.1
	22	67	04	20	< 0.1
	29	84	08	26	< 0.1
June	28	82	04	21	< 0.1
	27	84	03	19	< 0.1
	30	87	06	23	< 0.1
	21	64	03	18	< 0.1
	20	61	< 03	15	< 0.1
	26	75	05	22	< 0.1
	19	56	03	15	< 0.1
	20	58	04	19	< 0.1
July	17	51	04	17	< 0.1
	19	55	03	14	< 0.1
	18	52	04	16	< 0.1
	20	58	< 3	15	< 0.1
	23	66	05	21	< 0.1
	19	57	03	14	< 0.1
	16	46	< 3	13	< 0.1
	17	49	03	12	< 0.1
	18	50	04	18	< 0.1
August	17	51	04	18	< 0.1
	26	78	06	23	< 0.1
	21	64	05	21	< 0.1
	22	61	04	20	< 0.1
	20	58	03	17	< 0.1
	23	62	05	19	< 0.1
	19	55	03	16	< 0.1
	18	50	04	18	< 0.1
September	19	51	03	17	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	18	50	03	16	< 0.1
	26	75	05	22	< 0.1
	23	65	04	20	< 0.1
	24	68	06	23	< 0.1
	28	79	05	21	< 0.1
	21	56	04	19	< 0.1
	22	58	03	18	< 0.1
	20	55	04	20	< 0.1

Table No: 7

AMBIENT AIR QUALITY DATA

From 01.04.2025 to 30.09.2025

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

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
April	23	66	06	20	< 0.1
	26	80	07	21	< 0.1
	22	65	08	23	< 0.1
	25	79	07	23	< 0.1
	23	76	06	17	< 0.1
	27	77	06	22	< 0.1
	28	80	07	21	< 0.1
	26	81	06	23	< 0.1
May	25	78	07	21	< 0.1
	27	81	08	23	< 0.1
	26	79	06	22	< 0.1
	28	80	07	22	< 0.1
	29	82	08	24	< 0.1
	30	84	04	30	< 0.1
	24	68	04	26	< 0.1
	21	60	03	17	< 0.1
	27	79	05	20	< 0.1
June	27	80	04	23	< 0.1
	23	68	< 03	18	< 0.1
	28	82	05	21	< 0.1
	17	52	< 03	15	< 0.1
	25	75	04	19	< 0.1
	23	70	03	17	< 0.1
	30	89	07	25	< 0.1
	28	83	06	24	< 0.1
July	20	60	04	17	< 0.1
	21	61	05	20	< 0.1
	12	33	< 3	11	< 0.1
	16	47	03	14	< 0.1
	16	44	03	16	< 0.1
	17	51	04	18	< 0.1
	18	49	< 3	14	< 0.1

Months	PM2.5 µg/m³	PM10 µg/m³	SO_2 µg/m³	NO_2 µg/m³	CO mg/m³
	19	52	03	13	< 0.1
	28	86	05	20	< 0.1
August	26	78	05	22	< 0.1
	27	75	04	19	< 0.1
	25	72	05	21	< 0.1
	28	78	03	17	< 0.1
	21	57	04	18	< 0.1
	19	51	03	16	< 0.1
	18	47	< 3	14	< 0.1
	20	50	03	15	< 0.1
September	20	58	04	18	< 0.1
	17	48	03	16	< 0.1
	25	74	05	22	< 0.1
	21	55	04	17	< 0.1
	24	66	05	21	< 0.1
	29	80	06	24	< 0.1
	23	67	05	20	< 0.1
	19	56	03	17	< 0.1
	22	60	04	19	

Table No: 8

STACK EMISSION MONITORING RESULTS

Months	Location of sampling	PM mg/Nm³	SO_2 mg/Nm³	NO_2 mg/Nm³	Hg mg/Nm³
April	Coal Mill – 1 Bag Filter	10	-	-	-
	Cooler ESP – 1	14	-	-	-
	CVRM – 1 Bag Filter	11	-	-	-
	CVRM – 2 Bag Filter	09	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	23	-	-	-
	Cooler ESP – 2	22	-	-	-
	Kiln & VRM ESP – 1	28	18.40	303.83	-
	Kiln & VRM – 2 RABH	10	34.98	224.23	-
	Clinker Cooler Attached To ESP (DSP Unit)	24	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	09	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	09	12.30	125.16	-
	Boiler 1 ESP Stack	23	402.60	239.60	< 0.02
May	Coal Mill – 1 Bag Filter	10	-	-	-
	Cooler ESP – 1	13	-	-	-
	CVRM – 1 Bag Filter	06	-	-	-
	CVRM – 2 Bag Filter	06	-	-	-
	CVRM – 3 Bag Filter	18	-	-	-
	Coal Mill – 2 Bag Filter	10	-	-	-
	Cooler ESP – 2	20	-	-	-
	Kiln & VRM ESP – 1	19	19.4	301.65	-
	Kiln & VRM – 2 RABH	05	27.68	215.39	-
	Clinker Cooler Attached To ESP (DSP Unit)	24	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	06	-	-	-

Months	Location of sampling	PM mg/Nm³	SO_2 mg/Nm³	NO_2 mg/Nm³	Hg mg/Nm³
	Kiln & Raw Mill RABH (DSP Unit)	12	13.81	315.40	-
	Boiler 1 ESP Stack	16	397.35	229.18	< 0.02
June	Coal Mill – 1 Bag Filter	12	-	-	-
	Cooler ESP – 1	11	-	-	-
	CVRM – 1 Bag Filter	06	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	09	-	-	-
	Coal Mill – 2 Bag Filter	14	-	-	-
	Cooler ESP – 2	15	-	-	-
	Kiln & VRM ESP – 1	18	14.19	309.56	-
	Kiln & VRM – 2 RABH	06	22.14	211.53	-
	Clinker Cooler Attached To ESP (DSP Unit)	23	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	08	13.73	379.02	-
	Boiler 1 ESP Stack	21	485.57	231.97	< 0.02
July	Coal Mill – 1 Bag Filter	07	-	-	-
	Cooler ESP – 1	16	-	-	-
	CVRM – 1 Bag Filter	17	-	-	-
	CVRM – 2 Bag Filter	07	-	-	-
	CVRM – 3 Bag Filter	09	-	-	-
	Coal Mill – 2 Bag Filter	17	-	-	-
	Cooler ESP – 2	09	-	-	-
	Kiln & VRM ESP – 1	10	11.29	308.60	-
	Kiln & VRM – 2 RABH	08	17.10	206.19	-
	Clinker Cooler Attached To ESP (DSP Unit)	24	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	17	12.60	356.25	-
	Boiler 1 ESP Stack	20	419.50	209.44	< 0.02
August	Coal Mill – 1 Bag Filter	18	-	-	-
	Cooler ESP – 1	22	-	-	-
	CVRM – 1 Bag Filter	07	-	-	-
	CVRM – 2 Bag Filter	09	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	22	-	-	-
	Cooler ESP – 2	12	-	-	-
	Kiln & VRM ESP – 1	07	7.89	276.23	-
	Kiln & VRM – 2 RABH	06	9.75	258.75	-
	Clinker Cooler Attached To ESP (DSP Unit)	22	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	08	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	09	10.67	300.63	-
	Boiler 1 ESP Stack	19	374.15	218.13	< 0.02
September	Coal Mill – 1 Bag Filter	14	-	-	-
	Cooler ESP – 1	20	-	-	-
	CVRM – 1 Bag Filter	06	-	-	-
	CVRM – 2 Bag Filter	08	-	-	-
	CVRM – 3 Bag Filter	08	-	-	-
	Coal Mill – 2 Bag Filter	11	-	-	-
	Cooler ESP – 2	10	-	-	-
	Kiln & VRM ESP – 1	09	7.89	271.18	-

Months	Location of sampling	PM mg/Nm³	SO_2 mg/Nm³	NO_2 mg/Nm³	Hg mg/Nm³
	Kiln & VRM – 2 RABH	08	10.26	275.86	-
	Clinker Cooler Attached To ESP (DSP Unit)	13	-	-	-
	Coal Mill Attached To Bag Filter (DSP Unit)	07	-	-	-
	Kiln & Raw Mill RABH (DSP Unit)	17	12.2	300.93	-
	Boiler 1 ESP Stack	22	379.40	232.86	< 0.02

Table No : 9

GROUND WATER QUALITY RESULT FOR THE MONTH OF APRIL 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	1.0	1.2	2.8	1.6	0.6	NTU	5.0
2	pH Value	6.69	6.76	6.60	6.56	6.23	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	741.38	413.70	335.87	192.51	192.51	mg/l	600
4	Iron (as Fe)	0.28	0.26	0.25	0.23	0.24	mg/l	0.3
5	Chlorides (as Cl)	90.99	59.68	45.98	14.68	43.05	mg/l	1000
6	Total Dissolved Solids	1002	565	492	234	318	mg/l	2000
7	Electrical Conductivity	1519	930	782	383	482	µS/cm	-
8	Calcium (as Ca)	226.55	129.69	109.99	57.46	60.74	mg/l	200
9	Magnesium (as Mg)	42.80	21.90	14.92	11.94	9.95	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	132.90	109.94	63.70	20.73	32.24	mg/l	400
13	Total Nitrate (as NO_3)	43.89	< 2.20	< 2.20	< 2.20	12.69	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	396	268	276	134	154	mg/l	600
15	Acidity	20	04	26	14	36	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	42.95	18.10	13.26	7.51	8.59	mg/l	-
18	Potassium (as K)	6.32	2.65	1.46	3.48	1.79	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)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	28.6	28.7	25.6	28.8	31.3	°C	-
32	Residual Free Chlorine	0.12	0.10	0.16	0.14	0.14	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 MAY 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.2	0.4	0.3	0.1	0.1	NTU	5.0
2	pH Value	7.16	7.06	6.94	7.08	6.80	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	735.58	416.94	329.18	186.94	296.67	mg/l	600

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 DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
4	Iron (as Fe)	0.53	0.90	0.46	0.36	0.11	mg/l	0.3
5	Chlorides (as Cl)	246.56	59.68	45.98	12.72	44.03	mg/l	1000
6	Total Dissolved Solids	962	588	484	238	404	mg/l	2000
7	Electrical Conductivity	1588	938	806	395	673	µS/cm	-
8	Calcium (as Ca)	281.79	141.15	99.36	55.38	74.93	mg/l	200
9	Magnesium (as Mg)	7.90	15.74	19.75	11.85	26.66	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	147.63	88.43	56.93	12.43	28.26	mg/l	400
13	Total Nitrate (as NO_3)	42.04	9.42	< 2.20	< 2.20	42.28	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	304	228	228	128	156	mg/l	600
15	Acidity	22	18	36	12	30	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	41.2	33.70	28.06	7.19	10.46	mg/l	-
18	Potassium (as K)	3.26	4.41	2.99	2.41	0.74	mg/l	-
19	Fluoride (as F)	< 0.05	0.60	0.81	< 0.05	0.20	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	25.9	26.8	24.9	25.9	25.8	°C	-
32	Residual Free Chlorine	0.16	0.21	0.19	0.09	0.15	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 JUNE 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.10	0.50	0.10	0.10	NTU	5.0
2	pH Value	6.63	6.59	6.53	6.39	6.25	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	756.98	412.89	416.94	182.16	271.22	mg/l	600
4	Iron (as Fe)	0.21	0.22	0.30	2.93	0.21	mg/l	0.3
5	Chlorides (as Cl)	213.09	58.82	80.03	12.54	11.57	mg/l	1000
6	Total Dissolved Solids	940	538	581	224	372	mg/l	2000
7	Electrical Conductivity	1565	895	969	374	622	µS/cm	-
8	Calcium (as Ca)	253.10	126.55	134.66	55.16	77.88	mg/l	200
9	Magnesium (as Mg)	30.49	23.61	19.67	10.82	18.69	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	151.9	94.15	97.35	16.97	38.66	mg/l	400
13	Total Nitrate (as NO_3)	35.72	10.30	8.56	8.07	41.50	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	296	232	198	128	148	mg/l	600
15	Acidity	26	12	12	18	28	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	100.16	30.40	116.54	11.31	22.02	mg/l	-
18	Potassium (as K)	2.51	2.09	2.12	2.11	2.59	mg/l	-
19	Fluoride (as F)	1.40	1.05	1.32	0.81	1.28	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 DailyMarket	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	25.6	25.4	25.9	25.5	25.6	°C	-
32	Residual Free Chlorine	0.13	0.22	0.13	0.16	0.14	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 OFJULY 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	1.9	0.20	10.6	1.6	1.7	NTU	5.0
2	pH Value	6.61	6.79	6.59	6.48	5.95	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	627.44	396.70	331.94	182.16	174.06	mg/l	600
4	Iron (as Fe)	2.85	0.36	0.96	1.34	< 0.01	mg/l	0.3
5	Chlorides (as Cl)	246.84	43.39	34.71	13.50	11.57	mg/l	1000
6	Total Dissolved Solids	900	520	450	224	250	mg/l	2000
7	Electrical Conductivity	1606	895	764	376	415	µS/cm	-
8	Calcium (as Ca)	111.95	61.65	111.95	56.78	48.67	mg/l	200
9	Magnesium (as Mg)	84.59	59.02	12.79	9.84	12.79	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	152.1	70.85	57.55	17.68	23.90	mg/l	400
13	Total Nitrate (as NO_3)	54.26	33.86	< 2.20	2.41	11.29	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	228	240	220	140	140	mg/l	600
15	Acidity	28	14	08	16	26	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	43.9	30.79	34.44	9.66	16.22	mg/l	-
18	Potassium (as K)	3.22	1.19	2.49	2.73	1.39	mg/l	-
19	Fluoride (as F)	1.15	1.54	< 0.05	0.95	0.83	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	25.2	25.3	25.2	25.2	25.3	°C	-
32	Residual Free Chlorine	1.03	1.04	0.15	0.11	0.12	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No : 13

GROUND WATER QUALITY RESULT FOR THE MONTH OF AUGUST 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.10	0.10	0.10	0.20	0.10	NTU	5.0
2	pH Value	6.62	6.75	6.61	6.53	6.25	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	538.38	445.28	323.84	186.21	311.7	mg/l	600
4	Iron (as Fe)	0.15	0.81	2.11	3.36	0.46	mg/l	0.3
5	Chlorides (as Cl)	94.49	60.75	74.25	21.21	43.39	mg/l	1000
6	Total Dissolved Solids	912	558	630	248	412	mg/l	2000
7	Electrical Conductivity	1520	929	1050	412	686	µS/cm	-
8	Calcium (as Ca)	173.60	131.42	110.32	48.67	79.50	mg/l	200
9	Magnesium (as Mg)	25.57	28.52	11.80	15.74	56.42	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	112.19	81.90	94.69	19.68	55.89	mg/l	400
13	Total Nitrate (as NO_3)	130.6	12.59	32.70	3.67	41.3	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	340	256	264	128	108	mg/l	600
15	Acidity	32	14	20	12	14	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	33.33	30.46	40.84	9.53	24.73	mg/l	-
18	Potassium (as K)	1.26	1.11	4.53	2.50	3.03	mg/l	-
19	Fluoride (as F)	0.18	0.14	0.11	0.10	0.12	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	26.3	26.3	26.6	26.2	°C	-
32	Residual Free Chlorine	0.10	0.14	0.19	0.12	0.15	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 SEPTEMBER 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well OCL DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
1	Turbidity	0.20	0.60	0.20	2.2	1.2	NTU	5.0
2	pH Value	6.50	6.67	6.53	6.23	6.16	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	594.34	328.64	381.79	177.12	247.97	mg/l	600
4	Iron (as Fe)	2.15	1.10	0.50	1.36	1.01	mg/l	0.3
5	Chlorides (as Cl)	222.74	58.82	73.28	19.28	39.53	mg/l	1000
6	Total Dissolved Solids	980	566	594	256	272	mg/l	2000
7	Electrical Conductivity	1721	942	991	427	452	µS/cm	-
8	Calcium (as Ca)	168.80	124.63	118.31	55.21	66.25	mg/l	200
9	Magnesium (as Mg)	42.08	4.30	21.04	9.56	20.09	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

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 DailyMarket	Tube Well IT Colony	Tube Well Village Surudi	Tube Well Village Rani Bandha		
12	Sulfate (as SO_4)	99.03	79.33	79.98	19.04	26.38	mg/l	400
13	Total Nitrate (as NO_3)	128.20	11.78	15.32	29.46	13.97	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	340	280	260	124	132	mg/l	600
15	Acidity	34	20	24	28	20	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	60.66	29.50	39.18	9.62	18.48	mg/l	-
18	Potassium (as K)	2.96	1.14	2.44	2.50	1.54	mg/l	-
19	Fluoride (as F)	0.27	0.30	0.48	0.38	< 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	26.6	26.8	26.9	26.7	26.8	°C	-
32	Residual Free Chlorine	0.11	0.12	0.11	0.12	0.10	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No : 15

DRINKING WATER QUALITY RESULT FOR THE MONTH OF APRIL 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Guest House Drinking Water Point	CCR Building Ground Floor Drinking Water Point (Line – 1)	Near Pyro Workers Canteen Drinking Water Point (Line – 1)	Near Main Gate Drinking Water Point (Line – 2)	Near Coal Mill Drinking Water Point (DSP Unit)	Near Workers' Canteen Drinking Water Point (DSP Unit)		
1	Turbidity	1.6	0.4	0.8	0.9	0.7	1.4	NTU	5.0
2	pH Value	7.48	7.36	7.54	6.80	7.42	7.54	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	237.57	225.28	229.38	425.98	233.47	212.99	mg/l	600
4	Iron (as Fe)	0.13	0.15	0.12	0.28	0.21	0.10	mg/l	0.3
5	Chlorides (as Cl)	19.57	19.57	19.57	59.68	23.48	17.61	mg/l	1000
6	Total Dissolved Solids	312	286	312	624	300	274	mg/l	2000
7	Electrical Conductivity	472	476	473	947	482	467	µS/cm	-
8	Calcium (as Ca)	36.12	47.61	42.68	67.31	45.97	36.12	mg/l	200
9	Magnesium (as Mg)	35.83	25.88	29.86	62.70	28.86	29.86	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	29.81	29.28	7.95	92.57	28.17	28.88	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	8.0	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	212	172	196	352	172	192	mg/l	600
15	Acidity	04	04	06	24	02	04	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	6.91	8.43	10.20	16.48	10.32	10.0	mg/l	-
18	Potassium (as K)	2.30	2.76	3.11	1.56	3.10	2.87	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Guest House Drinking Water Point	CSP Building Ground Floor Drinking Water Point (Line – 1)	Near Fire Workers Canteen Drinking Water Point (Line – 1)	Near Main Gate Drinking Water Point (Line – 2)	Near Coal Mill Drinking Water Point (CSP Unit)	Near Workers' Canteen Drinking Water Point (CSP Unit)		
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	25.5	25.6	25.7	25.5	25.7	25.4	°C	-
32	Residual Free Chlorine	0.10	0.18	0.12	0.20	0.11	0.09	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 MAY 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Cooler Drinking Water point (Line – 1)	General Office – Ground Floor Drinking Water point	CPP/Canteen Drinking Water point (Line – 2)	Near Workers' Canteen Drinking Water point (Line – 2)	Near Spare in Dispensary Drinking Water Point	Near Weigh BridgeDrinking Water point (CSP Unit		
1	Turbidity	0.3	0.1	0.2	0.1	0.2	0.2	NTU	5.0
2	pH Value	7.64	8.00	7.80	7.70	7.88	7.65	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	219.46	234.78	214.54	218.59	218.59	226.69	mg/l	600
4	Iron (as Fe)	0.07	0.02	0.08	0.11	0.11	0.06	mg/l	0.3
5	Chlorides (as Cl)	20.55	21.52	20.55	22.50	19.57	19.57	mg/l	1000
6	Total Dissolved Solids	302	298	302	300	298	304	mg/l	2000
7	Electrical Conductivity	501	497	503	502	496	506	µS/cm	-
8	Calcium (as Ca)	79.50	50.29	50.29	51.92	48.67	50.29	mg/l	200
9	Magnesium (as Mg)	5.13	26.56	21.64	21.64	23.61	24.59	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	18.95	18.79	19.10	19.18	17.60	18.14	mg/l	400
13	Total Nitrate (as NO_3)	12.22	< 2.20	13.50	13.73	11.95	12.15	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	156	144	152	152	168	160	mg/l	600
15	Acidity	12	06	06	12	02	06	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	6.14	10.36	12.11	13.11	3.68	13.86	mg/l	-
18	Potassium (as K)	1.73	3.61	2.42	2.42	1.28	4.10	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	0.52	0.72	0.63	< 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	24.6	25.6	25.4	25.3	25.3	26.0	°C	-
32	Residual Free Chlorine	0.16	0.08	0.12	0.26	0.10	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 JUNE 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)	Main Gate Canteen Drinking Water Point	OPP Office Building Drinking Water Point (Line – 2)	Near VRM Drinking Water Point (Line – 2)	Near General Store Drinking Water Point (DSP Unit)	Near Cooler 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	7.48	7.26	7.23	7.26	7.49	7.21	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	286	190.26	206.44	214.54	202.4	214.54	mg/l	600
4	Iron (as Fe)	< 0.01	< 0.01	< 0.01	0.09	0.24	0.25	mg/l	0.3
5	Chlorides (as Cl)	23.14	23.14	26.99	26.03	25.07	24.11	mg/l	1000
6	Total Dissolved Solids	286	284	294	296	288	286	mg/l	2000
7	Electrical Conductivity	478	475	491	489	479	479	µS/cm	-
8	Calcium (as Ca)	50.29	50.29	51.91	51.92	58.41	48.67	mg/l	200
9	Magnesium (as Mg)	21.64	15.74	18.69	19.67	13.77	22.62	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	31.88	30.19	29.71	29.23	30.27	31.29	mg/l	400
13	Total Nitrate (as NO_3)	12.22	13.41	12.22	12.18	13.08	11.54	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	144	144	144	140	136	144	mg/l	600
15	Acidity	02	04	04	06	06	04	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	17.61	17.49	18.72	18.47	17.50	17.94	mg/l	-
18	Potassium (as K)	5.56	5.25	5.33	5.42	5.40	5.46	mg/l	-
19	Fluoride (as F)	0.84	0.75	0.58	0.54	0.56	0.16	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	25.9	25.7	25.2	25.3	25.2	25.5	°C	-
32	Residual Free Chlorine	0.17	0.11	0.17	0.13	0.18	0.13	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No : 18

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JULY 2025

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 2nd 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 $CaCO_3$)	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

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Packing House Drinking Water Point (Line – 4)	Near CVRM – 2 Drinking Water Point(Line – 1)	Work Shop Drinking Water Point (Line – 2)	Near ATR Storage Drinking Water Point (Line – 2)	Near Coal Mill Drinking Water Point (DSP Unit)	CCR Building 2nd Floor 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_4)	47.37	54.01	55.70	47.94	37.86	40.78	mg/l	400
13	Total Nitrate (as NO_3)	11.08	11.26	11.12	8.74	10.08	9.91	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	96	100	104	108	108	112	mg/l	600
15	Acidity	10	06	08	08	04	04	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.66	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
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 AUGUST 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor	Near Clinker Silo Drinking Water Point(Line – 1)	Near Main Gate Drinking Water Point (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (Line – 2)	Near Workers' Canteen Drinking Water Point (DSP Unit)	CCR New Weigh Bridge Canteen 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	7.52	7.51	7.58	7.66	7.60	7.56	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	210.50	190.26	210.50	194.30	198.35	194.30	mg/l	600
4	Iron (as Fe)	0.18	0.27	0.24	0.21	0.12	0.09	mg/l	0.3
5	Chlorides (as Cl)	23.14	18.32	16.39	16.39	17.36	17.36	mg/l	1000
6	Total Dissolved Solids	262	220	242	226	236	240	mg/l	2000
7	Electrical Conductivity	438	388	403	399	394	399	µS/cm	-
8	Calcium (as Ca)	48.67	43.80	53.54	42.18	35.69	45.43	mg/l	200
9	Magnesium (as Mg)	21.64	19.67	18.68	21.64	26.56	19.67	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	41.03	27.99	31.63	29.45	26.71	28.53	mg/l	400
13	Total Nitrate (as NO_3)	9.42	8.49	9.64	9.42	9.42	9.25	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	104	100	100	104	100	108	mg/l	600
15	Acidity	06	4.0	04	02	04	04	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.71	9.66	9.62	9.42	9.56	9.40	mg/l	-
18	Potassium (as K)	3.11	3.05	3.14	3.13	3.06	3.07	mg/l	-
19	Fluoride (as F)	0.17	0.10	0.09	< 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

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor	Near Clinker Silo Drinking Water Point(Line – 1)	Near Main Gate Drinking Water Point (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (Line – 2)	Near Workers' Canteen Drinking Water Point (DSP Unit)	CCR New Weigh Bridge Canteen Drinking Water Point (DSP Unit)		
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	26.2	26.6	26.1	26.1	26.1	26.8	°C	-
32	Residual Free Chlorine	0.13	0.12	0.11	0.12	0.18	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 SEPTEMBER 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Pyro Section Workers' Canteen Drinking water point, Line – 1	CCR Building 2nd Floor Pantry Room Drinking Water point (Line – 1)	Near CPP Office Building Drinking Water point (Line – 2)	Near VRM Drinking Water point (Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water point (DSP Unit)		
1	Turbidity	0.10	0.10	0.10	0.20	< 0.1	0.10	NTU	5.0
2	pH Value	7.61	7.66	7.64	7.51	7.43	7.73	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	177.12	169.25	137.76	169.25	192.86	145.63	mg/l	600
4	Iron (as Fe)	0.09	0.26	0.12	0.28	0.14	0.28	mg/l	0.3
5	Chlorides (as Cl)	21.21	22.18	12.53	19.28	16.39	16.39	mg/l	1000
6	Total Dissolved Solids	250	250	192	234	212	210	mg/l	2000
7	Electrical Conductivity	416	419	318	397	352	349	µS/cm	-
8	Calcium (as Ca)	45.75	45.75	34.71	45.75	36.28	41.02	mg/l	200
9	Magnesium (as Mg)	15.30	13.39	12.53	13.39	24.87	10.52	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	55.04	52.83	30.93	48.32	39.90	39.17	mg/l	400
13	Total Nitrate (as NO_3)	9.12	9.32	8.63	8.90	8.78	8.80	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	92	92	92	84	92	84	mg/l	600
15	Acidity	04	02	04	04	04	04	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	7.74	8.04	7.93	7.57	7.60	7.62	mg/l	-
18	Potassium (as K)	1.98	2.0	1.94	1.92	2.04	2.06	mg/l	-
19	Fluoride (as F)	0.30	0.09	0.39	0.31	0.08	0.17	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	25.5	25.7	25.7	25.8	26.4	26.4	°C	-
32	Residual Free Chlorine	0.10	0.12	0.16	0.18	0.15	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 : 21

SURFACE WATER QUALITY RESULT FOR THE MONTH OF APRIL 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.46	7.17	7.21	6.98	-	6.5 – 8.5
2	Electrical Conductivity	967	873	870	526	µS/cm	-
3	Total Dissolved Solids	638	576	574	342	mg/l	1500
4	Total Hardness (as $CaCO_3$)	372.74	327.68	278.53	245.76	mg/l	-
5	Chlorides (as Cl)	88.06	83.16	59.68	22.50	mg/l	600
6	Sulfate (as SO_4)	50.77	60.49	40.76	16.58	mg/l	400
7	Total Nitrate (as NO_3)	30.19	< 2.20	3.57	< 2.20	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	67.31	67.31	64.02	57.46	mg/l	-
10	Magnesium (as Mg)	49.77	38.82	28.86	24.88	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.23	0.26	0.25	0.21	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.2	5.8	5.9	6.3	mg/l	4
25	BOD 5 days at 20°C	01	02	01	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	1.76	19.36	17.6	5.28	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	Absent	100	100	10	Nos/100ml	5000

Table No : 22

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MAY 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.17	7.38	7.46	7.33	-	6.5 – 8.5
2	Electrical Conductivity	1069	1062	791	546	µS/cm	-
3	Total Dissolved Solids	641	638	476	328	mg/l	1500
4	Total Hardness (as $CaCO_3$)	369.82	398.27	243.84	210.50	mg/l	-
5	Chlorides (as Cl)	111.54	107.63	101.75	29.35	mg/l	600
6	Sulfate (as SO_4)	36.05	36.16	26.45	11.29	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	89.59	87.96	81.44	55.16	mg/l	-
10	Magnesium (as Mg)	35.55	43.45	9.87	17.71	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.46	0.33	0.32	0.45	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Dissolved Oxygen (Min.)	6.2	6.02	6.1	6.3	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_2)	12.32	19.36	17.60	12.32	mg/l	-
25	Total Suspended Solids	< 2.5	< 2.5	9.4	3.6	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_3)	< 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_6H_5OH)	< 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 JUNE 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.21	7.31	7.37	7.18	-	6.5 – 8.5
2	Electrical Conductivity	772	760	940	487	µS/cm	-
3	Total Dissolved Solids	462	472	564	302	mg/l	1500
4	Total Hardness (as $CaCO_3$)	271.22	267.17	303.6	210.50	mg/l	-
5	Chlorides (as Cl)	81.96	80.03	72.32	21.21	mg/l	600
6	Sulfate (as SO_4)	48.40	31.65	53.65	17.54	mg/l	400
7	Total Nitrate (as NO_3)	5.04	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	1.22	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	77.88	73.01	82.74	55.16	mg/l	-
10	Magnesium (as Mg)	18.69	20.66	23.61	17.70	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.21	0.57	0.65	0.29	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Dissolved Oxygen (Min.)	6.1	6.0	6.3	6.1	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_2)	7.04	7.04	12.32	5.28	mg/l	-
25	Total Suspended Solids	19.9	20.5	23.3	10.2	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_3)	< 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

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
31	Phenolic Compounds(as C_6H_5OH)	< 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 JULY 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.14	7.45	7.49	7.48	-	6.5 – 8.5
2	Electrical Conductivity	179.2	157.5	199	239	µS/cm	-
3	Total Dissolved Solids	108	96	120	142	mg/l	1500
4	Total Hardness (as $CaCO_3$)	85.01	72.86	85.01	125.49	mg/l	-
5	Chlorides (as Cl)	10.61	5.78	11.57	10.61	mg/l	600
6	Sulfate (as SO_4)	31.02	25.02	29.02	30.72	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	0.45	0.26	0.77	0.91	mg/l	1.5
9	Calcium (as Ca)	19.47	19.47	19.47	29.20	mg/l	-
10	Magnesium (as Mg)	8.85	5.90	8.85	2.79	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.37	0.43	0.32	0.91	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.1	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_2)	5.28	3.52	5.28	5.28	mg/l	-
25	Total Suspended Solids	54.7	76.5	55.3	3.8	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_3)	< 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_6H_5OH)	< 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 AUGUST 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.04	7.19	7.26	7.42	-	6.5 – 8.5
2	Electrical Conductivity	353	323	475	383	µS/cm	-
3	Total Dissolved Solids	212	194	286	230	mg/l	1500

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Lipoi Nadi Upstream (Shirdi Sai Temple)	Lipoi Nadi (Muncipality Dump Yard)	Lipoi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
4	Total Hardness (as $CaCO_3$)	145.73	133.58	206.45	194.30	mg/l	-
5	Chlorides (as Cl)	19.28	15.43	25.07	17.36	mg/l	600
6	Sulfate (as SO_4)	14.03	12.43	40.89	20.98	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	2.49	3.20	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	38.94	43.80	53.54	38.94	mg/l	-
10	Magnesium (as Mg)	11.80	5.90	17.71	23.61	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.98	1.09	1.54	0.53	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Dissolved Oxygen (Min.)	6.1	6.1	6.2	6.1	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_2)	5.28	3.52	7.04	7.04	mg/l	-
25	Total Suspended Solids	92.1	154.7	134.8	29.0	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_3)	< 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_6H_5OH)	< 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 SEPTEMBER 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Lipoi Nadi Upstream (Shirdi Sai Temple)	Lipoi Nadi (Muncipality Dump Yard)	Lipoi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.48	7.50	7.45	7.64	-	6.5 – 8.5
2	Electrical Conductivity	259	264	316	280	µS/cm	-
3	Total Dissolved Solids	156	158	190	169	mg/l	1500
4	Total Hardness (as $CaCO_3$)	90.53	98.40	110.21	122.02	mg/l	-
5	Chlorides (as Cl)	10.61	10.61	13.50	9.64	mg/l	600
6	Sulfate (as SO_4)	23.87	23.16	28.13	19.62	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	mg/l	50
8	Fluoride (as F)	< 0.05	0.22	0.25	0.45	mg/l	1.5
9	Calcium (as Ca)	23.66	25.24	28.39	26.82	mg/l	-
10	Magnesium (as Mg)	7.65	8.61	25.06	13.39	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.90	1.82	0.92	0.25	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
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_2)	3.52	3.52	3.52	3.52	mg/l	-
25	Total Suspended Solids	50.4	58.6	36.8	29.2	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_3)	< 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_6H_5OH)	< 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

Sl No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.28	7.36	7.34	7.16	7.62	7.17	-
2.	Total Suspended Solids	31.8	12.6	< 2.5	23.3	38.8	22.1	mg/l
3.	Oil & Grease	3.6	2.2	4.2	3.2	3.8	3.8	mg/l
4.	BOD 5days at 20°C	30	40	24	33	26	29	mg/l
5.	COD	88.69	124.80	70.54	97.47	79.91	86.67	mg/l

27.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER		
1	pH Value	7.47	7.46	7.61	7.09	7.91	7.41	5.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	< 2.5	< 2.5	7.7	17.2	17.9	100	mg/l
3.	Oil & Grease	< 2.0	< 2.0	2.0	< 2.0	2.6	< 2.0	10	mg/l
4.	BOD 5days at 20°C	19	19	20	17	13	07	-	mg/l
5.	COD	64.57	58.84	58.36	60.86	38.54	19.49	-	mg/l

Table No : 28

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

Sl No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.54	7.50	6.60	7.75	8.63	8.80	-
2.	Total Suspended Solids	< 2.5	< 2.5	2.5	< 2.5	< 2.5	< 2.5	mg/l
3.	Oil & Grease	< 2.0	2.6	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	COD	20.89	28.01	22.48	15.76	54.94	15.92	mg/l
5.	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
6.	Iron (as Fe)	0.09	0.23	0.07	0.18	0.12	0.31	mg/l

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

Sl No	Parameters	Results Obtained						Unit
		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	pH Value	7.71	8.09	8.50	7.41	7.66	7.15	-
2.	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	3.1	9.7	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	Total Nitrate (as NO_3)	16.92	11.39	13.41	10.18	32.77	10.06	mg/l
5.	Phosphate (as PO_4)	1.96	3.11	1.43	2.84	0.84	2.98	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_2)	0.31	0.24	< 0.10	< 0.10	0.14	0.18	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
		APR	MAY	JUN	JULY	AUG	SEPT		
1	pH Value	7.22	7.54	7.60	7.27	7.67	7.39	6.5 – 9.0	-
2.	Total Suspended Solids	5.30	5.1	41	12.5	36.8	14.5	100	mg/l
3.	BOD 5days at 20°C	19	25	12	22	20	22	30	mg/l
4.	COD	52.64	78.23	33.25	58.23	64.98	64.10	-	mg/l
5.	Fecal coliform	100	100	100	1000	100	100	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
		APR	MAY	JUN	JULY	AUG	SEPT		
1	pH Value	7.39	7.55	7.46	7.30	7.95	7.25	6.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	5.8	4.5	35.1	48.3	31.7	100	mg/l
3.	BOD 5days at 20°C	24	24	28	28	27	27	30	mg/l
4.	COD	76.22	73.112	90.87	82.51	82.97	82.91	-	mg/l
5.	Fecal Coliform	100	100	100	1000	100	100	1000	mg/l

Table No : 31

SOIL QUALITY RESULT FOR THE MONTH OF APRIL 2025

Sl. No.	Parameter	Unit	Guest House Area	Water Harvesting Pond (L – 2)	Near ETP Area (L – 1)	Near New Weigh Bridge 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	Clay Loam	Clay Loam	Sandy Clay Loam
4.	Bulk Density	gm/cm^3	1.8	1.2	1.3	1.2
5.	pH (1:2 Suspension)	-	7.79	8.02	7.98	8.17
6.	Electrical Conductivity	µS/cm	721	448	741	1091

Sl. No.	Parameter	Unit	Guest House Area	Water Harvesting Pond (L – 2)	Near ETP Area (L – 1)	Near New Weigh Bridge Area (DSP Unit)
7.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0	5.848
8.	Available Potassium (as K_2O)	Kg/ha	373.92	244.44	293.16	365.76
9.	Organic Carbon	%	1.85	2.95	0.22	0.99
10.	Available Nitrogen (as N)	Kg/ha	163.07	125.44	188.16	238.338
11.	Iron	mg/kg	4.8	5.21	6.05	6.08
12.	Calcium	mg/kg	168	172	179	178
13.	Manganese	mg/kg	9.61	9.23	9.76	7.02
14.	Infiltration Rate	cm/hr	6.54	4.26	4.77	5.64
15.	Porosity	gm/cm^3	0.19	0.20	0.26	0.15
16.	Moisture Content	%	21.26	22.57	22.8	23.0
17.	Chloride	mg/kg	0.13	0.18	0.10	0.18
18.	Sulphate	mg/kg	0.62	0.54	0.48	0.71

Table No : 32

SOIL QUALITY RESULT FOR THE MONTH OF MAY 2025

Sl. No.	Parameter	Unit	InFront of HR Office	AFR Area Line – 2	STP 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	Clay Loam	Sandy Clay Loam
4.	Bulk Density	gm/cm^3	1.53	1.49	1.72
5.	pH (1:2 Suspension)	-	8.61	8.23	8.41
6.	Electrical Conductivity	µS/cm	450	1730	492
7.	Available Phosphorous (as P_2O_5)	Kg/ha	5.58	5.82	< 5.0
8.	Available Potassium (as K_2O)	Kg/ha	301.56	478.08	337.68
9.	Organic Carbon	%	1.15	1.98	2.07
10.	Organic Matter	%	1.98	3.41	3.57
11.	Available Nitrogen (as N)	Kg/ha	150.53	163.07	200.70
12.	Iron	mg/kg	5.2	5.4	2.22
13.	Calcium	mg/kg	182	176	158
14.	Manganese	mg/kg	7.3	5.24	4.21
15.	Infiltration Rate	cm/hr	2.44	2.23	3.39
16.	Porosity	gm/cm^3	0.25	0.28	0.19
17.	Moisture Content	%	15.6	18.6	18.9
18.	Chloride	mg/kg	0.14	0.21	0.16
19.	Sulphate	mg/kg	0.70	0.62	0.56

Table No : 33

SOIL QUALITY RESULT FOR THE MONTH OF JUNE 2025

Sl. No.	Parameter	Unit	Near 132KV Station Area (Line – 2)	AFR Area (Line – 1)	STP Area (DSP Unit)
1.	Colour	-	Brownish	Brownish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm^3	1.2	1.8	1.2
5.	pH (1:2 Suspension)	-	7.80	8.60	8.34
6.	Electrical Conductivity	µS/cm	420	376	1806
7.	Available Phosphorous (as P_2O_5)	Kg/ha	8.51	7.72	14.82
8.	Available Potassium (as K_2O)	Kg/ha	143.52	257.28	361.32

Sl. No.	Parameter	Unit	Near 132KV Station Area (Line – 2)	AFR Area (Line – 1)	STP Area (DSP Unit)
9.	Organic Carbon	%	< 0.50	1.03	2.55
10.	Organic Matter	%	< 0.86	1.77	4.40
11.	Available Nitrogen (as N)	Kg/ha	112.90	150.53	137.98
12.	Iron	mg/kg	3.2	2.1	3.26
13.	Calcium	mg/kg	186	153	155
14.	Manganese	mg/kg	5.62	5.72	6.02
15.	Infiltration Rate	cm/hr	3.26	2.09	5.61
16.	Porosity	gm/cm^3	0.29	0.23	0.12
17.	Moisture Content	%	26.7	27.8	23.4
18.	Chloride	mg/kg	0.16	0.14	0.16
19.	Sulphate	mg/kg	0.33	0.47	0.51

Table No : 34

SOIL QUALITY RESULT FOR THE MONTH OF JULY 2025

Sl. No.	Parameter	Unit	ETP AREA (LINE – 1)	STP AREA (LINE – 2)	Liquid AFR Area (DSP UNIT)
1.	Colour	-	Blackish	Brownish	Greyish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Silty Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm^3	1.0	1.1	1.1
5.	pH (1:2 Suspension)	-	7.81	8.58	8.82
6.	Electrical Conductivity	µS/cm	518	914	358
7.	Available Phosphorous (as P_2O_5)	Kg/ha	18.24	12.72	8.40
8.	Available Potassium (as K_2O)	Kg/ha	278.88	513.0	138.0
9.	Organic Carbon	%	3.9	0.67	< 0.50
10.	Organic Matter	%	6.7	1.15	< 0.86
11.	Available Nitrogen (as N)	Kg/ha	288.51	188.16	200.70
12.	Iron	mg/kg	5.7	6.1	3.26
13.	Calcium	mg/kg	177	169	145
14.	Manganese	mg/kg	2.62	3.87	6.21
15.	Infiltration Rate	cm/hr	5.09	4.36	6.61
16.	Porosity	gm/cm^3	1.09	0.84	0.16
17.	Moisture Content	%	31.7	29.9	29.9
18.	Chloride	mg/kg	0.11	0.17	0.18
19.	Sulphate	mg/kg	0.43	0.46	0.58

Table No : 35

SOIL QUALITY RESULT FOR THE MONTH OF AUGUST 2025

Sl. No.	Parameter	Unit	In Front Of HR Office (Line – 1)	Truck Parking Area (Line – 2)	Near New Weigh Bridge Area (DSP Unit)
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	Silty Loam
4.	Bulk Density	gm/cm^3	1.4	1.6	1.5
5.	pH (1:2 Suspension)	-	8.57	8.47	8.68
6.	Electrical Conductivity	µS/cm	216	239	515
7.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	5.85
8.	Available Potassium (as K_2O)	Kg/ha	204.36	186.6	277.44
9.	Organic Carbon	%	1.01	< 0.5	1.24

Sl. No.	Parameter	Unit	In Front Of HR Office (Line – 1)	Truck Parking Area (Line – 2)	Near New Weigh Bridge Area (DSP Unit)
10.	Organic Matter	%	1.74	< 0.86	2.14
11.	Available Nitrogen (as N)	Kg/ha	137.98	100.35	125.44
12.	Iron	mg/kg	3.92	6.28	2.21
13.	Calcium	mg/kg	185	210	182
14.	Manganese	mg/kg	7.53	8.46	7.83
15.	Infiltration Rate	cm/hr	7.34	5.26	6.26
16.	Porosity	gm/cm^3	0.23	0.19	0.34
17.	Moisture Content	%	20.44	22.84	21.75
18.	Chloride	mg/kg	0.21	0.18	0.31
19.	Sulphate	mg/kg	0.56	0.39	0.48

Table No : 36

SOIL QUALITY RESULT FOR THE MONTH OF SEPTEMBER 2025

Sl. No.	Parameter	Unit	Konark Vihar	AFR Area (Line – 1)	AFR Area (Line – 2)	STP Area (DSP Unit)
1.	Colour	-	Brownish	Greyish	Greyish	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^3	1.7	2.3	1.8	1.6
5.	pH (1:2 Suspension)	-	7.89	8.50	8.58	8.13
6.	Electrical Conductivity	µS/cm	240	184.6	227	239
7.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	6.89	< 5.0
8.	Available Potassium (as K_2O)	Kg/ha	144.48	160.08	230.64	147.6
9.	Organic Carbon	%	1.78	0.90	1.94	2.16
10.	Organic Matter	%	3.07	1.55	3.34	3.72
11.	Available Nitrogen (as N)	Kg/ha	213.25	125.44	125.44	188.16
12.	Iron	mg/kg	4.75	5.31	5.11	3.25
13.	Calcium	mg/kg	208	176	184	163
14.	Manganese	mg/kg	4.27	6.72	7.62	6.37
15.	Infiltration Rate	cm/hr	4.56	6.18	5.29	5.26
16.	Porosity	gm/cm^3	0.23	0.19	0.26	0.29
17.	Moisture Content	%	25.37	24.8	26.52	27.75
18.	Chloride	mg/kg	0.21	0.18	0.10	0.22
19.	Sulphate	mg/kg	1.24	1.30	0.95	0.57

Table No: : 37

NOISE LEVEL MONITORING DATA

From 01.04.2025 to 30.09.2025

Month	Location	L_{eq} dB(A) Day Time	L_{eq} dB(A) Night Time
Apr	Konark Vihar Area	47.2	37.8
	Guest House Area	56.9	46.8
	Atithi Niwas Area	62.1	60.3
	Main Gate Canteen Area(Line – 1)	56.5	53.3
	CPP Area (Line – 2)	55.8	50.8
	B. G Loco Gate Area (Line – 1)	61.2	59.5
	Project Gate Area (DSP Unit)	52.1	47.3
	General Store Area (DSP Unit)	61.2	60.2
May	Konark Vihar Area	44.2	38.5
	Guest House Area	55.1	53.2

Month	Location	L_{eq} dB(A) Day Time	L_{eq} dB(A) Night Time
	General Store Area (Line – 1)	61.4	59.8
	Refractory Main Gate	62.0	61.1
	CCR Building Area (Line – 2)	70.8	69.3
	Work Shop Area (Line – 2)	59.3	58.5
	Project Gate Area (DSP Unit)	61.2	59.5
	General Store Area (DSP Unit)	52.1	47.3
Jun	Konark Vihar Area	46.3	47.6
	Guest House Area	55.4	50.7
	Main Gate Canteen Building (Line – 1)	57.2	58.4
	B. G Loco Gate Area (Line – 1)	62.7	61.8
	TT – 4 Area (Line – 2)	69.8	71.9
	CPP Area (Line – 2)	59.4	59.7
	AFR Storage Area (DSP Unit)	66.8	73.2
	STP Area (DSP Unit)	67.9	67.6
Jul	Konark Vihar Area	54.9	62.0
	Guest House Area	50.8	54.4
	General Store Area (Line – 1)	60.6	60.1
	Refractory Main Gate Area (Line – 1)	60.4	58.6
	CCR Building Area (Line – 2)	62.2	58.3
	Workshop Area (Line – 2)	61.2	60.3
	General Store Area (DSP Unit)	60.3	59.3
	Project Gate Area (DSP Unit)	53.6	64.2
Aug	Konark Vihar Area	42.0	45.8
	Guest House Area	58.0	62.5
	Near Main Gate Canteen Area (Line – 1)	60.0	58.5
	B. G Loco Gate (Line – 1)	62.2	59.7
	CPP Area (Line – 2)	57.4	54.7
	TT – 4 Area (Line – 2)	69.2	67.0
	STP Area (DSP Unit)	69.0	68.1
	General Store Area (DSP Unit)	59.6	58.6
Sept	Konark Vihar Area	49.2	57.1
	Guest House Area	55.4	54.7
	General Store (Line – 1)	61.2	60.1
	Refractory Main Gate	57.1	54.5
	CCR Building Area (Line – 2)	71.3	71.9
	Workshop Area (Line – 2)	58.2	61.8
	Project Gate Area (DSP Unit)	60.7	59.4
	General Store Area (DSP Unit)	57.4	58.6

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