Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	J-13012/27/08-IA-II(T)
Compliance ID	111920047
Compliance Number(For Tracking)	EC/M/COMPLIANCE/111920047/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	28-04-2025
RO/SRO Name	ARTATRANA MISHRA
RO/SRO Email	jhk109@ifs.nic.in
State	ODISHA
RO/SRO Office Address	Integrated Regional Offices, Bhubaneswar
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, ODISHA with Notification to Project Proponent.	

Dalmia cement
FUTURE TODAY

cement! sugar! refractories! power!

CPP/SEIAA/028/2025-26/022
April 28, 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 October 2024 to March 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 October 2024 to March 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 Jun(01 Oct - 31 Mar)

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 Jun(01 Oct - 31 Mar)

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 Mitigation measures are in place to control and mitigate air, water, land and noise pollution, including solid and hazardous waste management. Air Pollution Control systems adopted. 1. Two nos. high efficiency Electrostatic Precipitator (ESP) with six fields. 2. Pneumatic ash conveying system from Silo to Cement Plant. 3. Ash storage silos with bag filters installed. 4. Closed Conveyor belt for material transportation. 5. Bag filters (dust extraction) and dust suppression system in Coal handling transfer points and coal conveying circuits respectively. 6. 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. 1. STP is in place for treating domestic wastewater. 2. 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. 1. Compressor and TG area are acoustically sealed to prevent noise pollution. 2. In stream vent line, silencers are provided. 3. Seal blower silencers in Fans. Solid Waste Management, systems adopted. 1. Sludge from STP is utilized for green belt development / plantation. 2. Ash generated from power plants is utilized for cement manufacturing.	Date: 26/04/2025

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 by our CSR team in consultation with district administration.	Date: 26/04/2025

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 during public hearing have been addressed.	Date: 26/04/2025

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: 26/04/2025

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.	Date: 26/04/2025

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: 26/04/2025
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 cement manufacturing based on product recipe.		Date: 26/04/2025
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: 26/04/2025
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.		Date: 26/04/2025
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: 26/04/2025
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: 26/04/2025
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 98 percent ash utilization from April 2024 till March 2025			26/04/2025
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: 26/04/2025
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: 26/04/2025
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 reuse.			Date: 26/04/2025
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.			Date: 26/04/2025
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 its effective implementation at plant site.			Date: 26/04/2025
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 is being utilized in cement manufacturing and other avenues.			Date: 26/04/2025

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 and Gap filling has been carried out with a plantation of 1000 this year.	Date: 26/04/2025

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: 26/04/2025

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: 26/04/2025

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 attached. Online AAQMS has been installed for monitoring on a real time basis and the location and frequency of monitoring has been decided in consultation with OSPCB.	Date: 28/04/2025

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.	Date: 26/04/2025

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: 26/04/2025
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.		Date: 26/04/2025
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 fund allocated has been used for environmental protection measures and has not been diverted for any other purposes.		Date: 26/04/2025
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: 26/04/2025
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: 26/04/2025
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: 26/04/2025

Visit Remarks

Last Site Visit Report Date:	N/A
Additional Remarks:	The Environment Monitoring Report of CPP (2 X27 MW) for the period from October 2024 to March 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

OCTOBER 2024 – MARCH 2025

FOR

DALMIA CEMENT BHARAT LIMITED

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

Prepared By:

Cleenviron Private Limited

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

Tele: 0661 – 2475746

Email:cleenviron@gmail.com

1. DATA ANALYSIS

1.1 Micro-meteorological Study:

1.1.1 Wind Speed & Wind Direction

During the entire period from 1st October to 31st March all total 4371 no. of data are recorded by the instrument and after interpretation of the collected data it was found that Calm condition prevailed over 6.59%, while considering the 24 hourly data. 4.7% calm condition prevailed from morning 6 hrs to 14hrs for the entire study period, 2.5% calm condition prevailed from 14hrs to 22hrs and 13.0% calm condition prevailed from 22hrs to 06hrs. The predominant wind directions were from S, NE & SW with average wind speed 2.59 m/sec. The wind rose diagram for the entire study period are depicted on the **Figure No: 1.1, 1.2, 1.3 & 1.4.**

1.1.2 Temperature

The maximum & minimum temperature during the entire study period were divided in to three parts as the study period was covering post monsoon, winter as well as early summer seasons. The Minimum temperature during the post monsoon season was found to be 12.76°C and the Maximum temperature was found to be 35.36°C up to the end of 30th November.

The minimum and maximum temperature during the winter season i.e. from December to February was found to be 8.30°C and 36.56°C. During the month of March the minimum and maximum temperature were 12.62°C and 40.89°C. **Table No 1.1** shows a summary of micro-meteorological data collected for the entire period.

1.1.3 Rainfall

The total rain fall from 1st October to 31st March was observed to be 76.6 mm during the study period. A month wise rainfall data recorded at the site is depicted in **Table No 1.1.**

Table No: 1.1

A SUMMARY OF THE MICRO-METEOROLOGICAL DATA

Project Site : DALMIA DSP UNIT
Location : CCR BUILDING

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

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

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

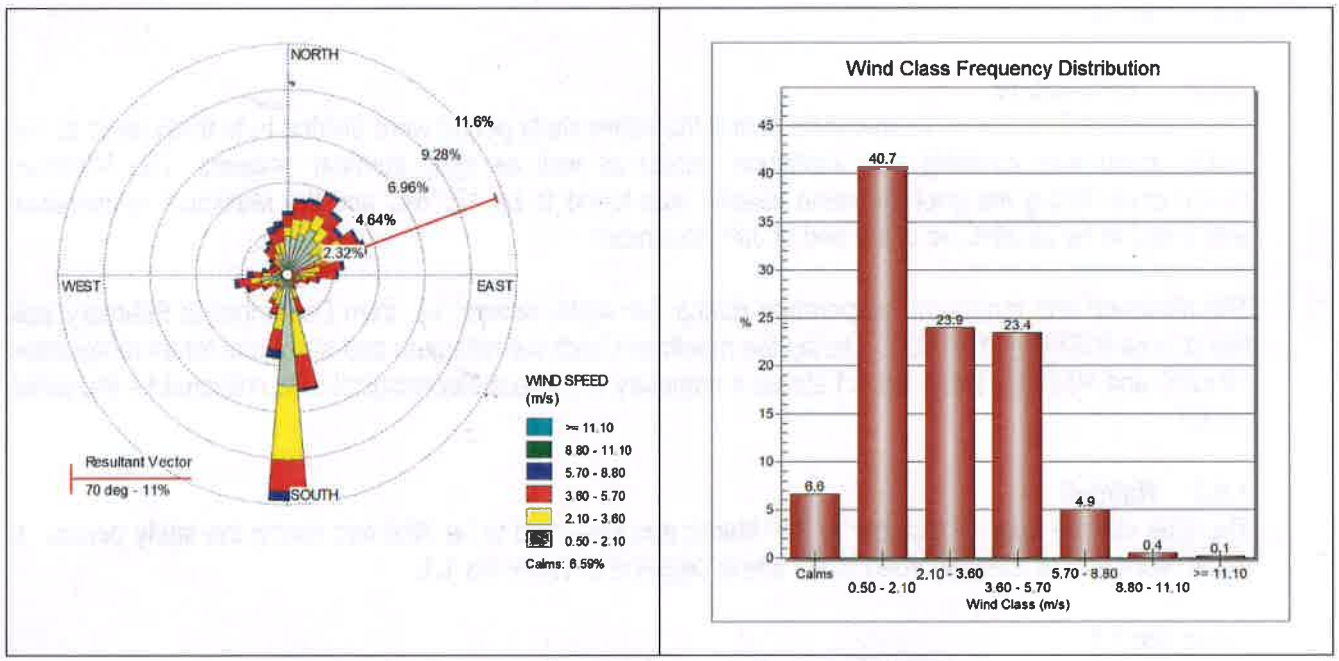

Figure No: 1.2 **Wind Rose Diagram from 06 – 14 Hours**

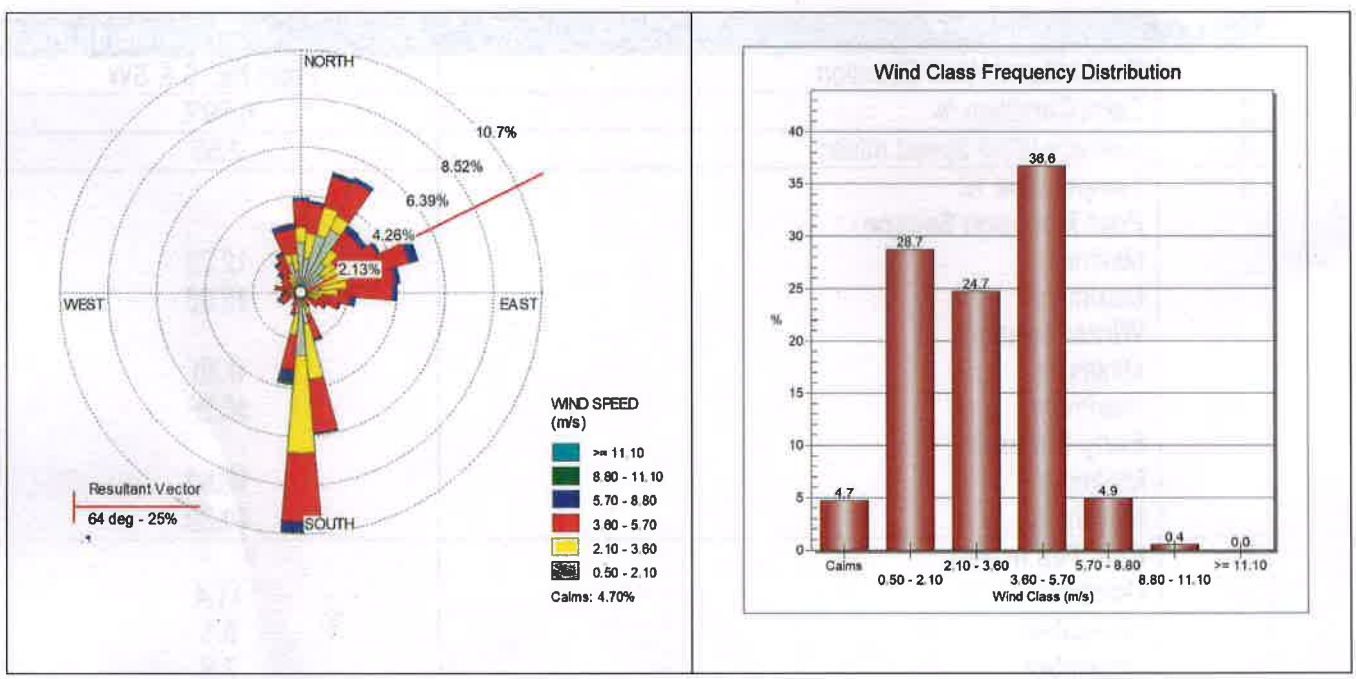

Figure No: 1.3 **Wind Rose Diagram from 14 – 22 Hours**

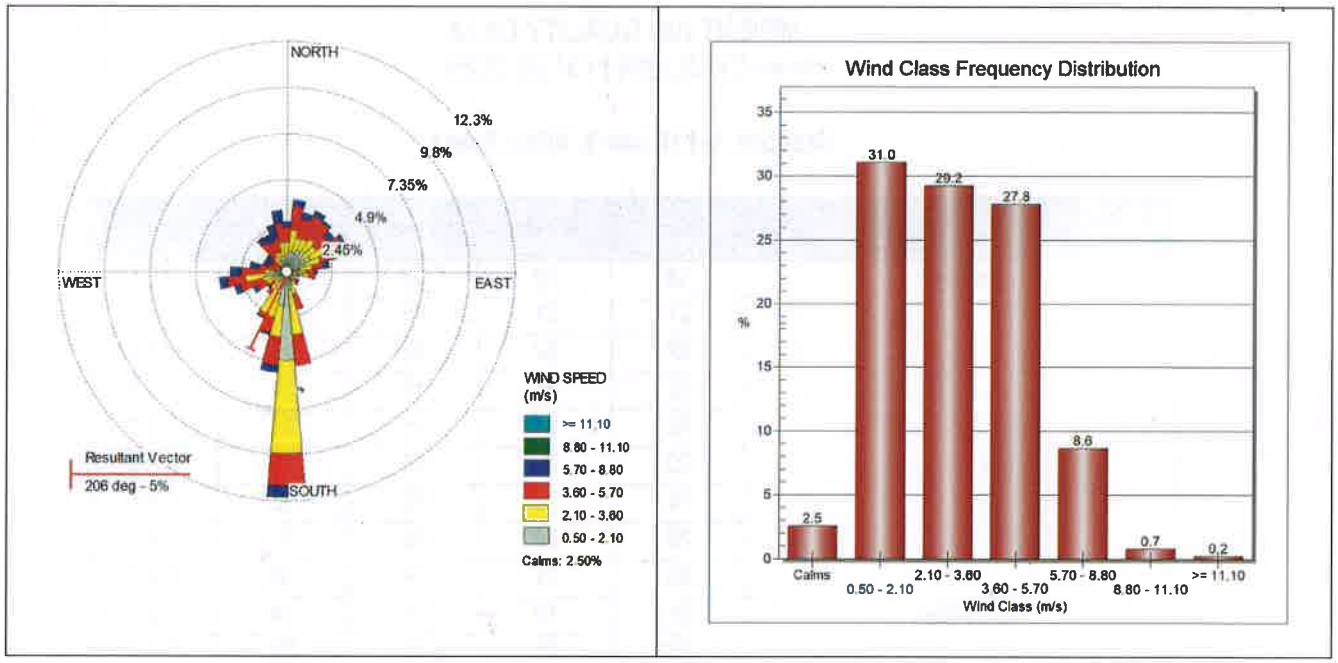

Figure No: 1.4 **Wind Rose Diagram from 22 – 06 Hours**

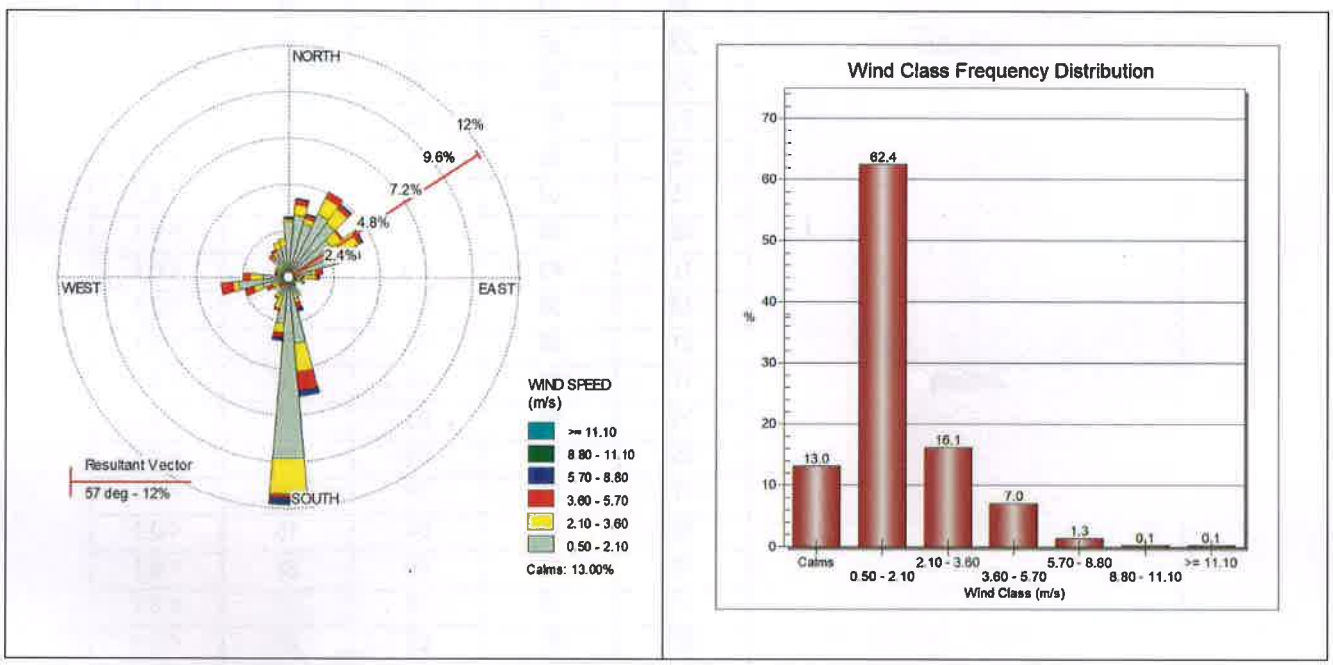

Table No: 1

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-1 (Konark Vihar Area)

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

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

Table No: 2

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

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

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

Table No: 3

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

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

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

Table No: 4

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

Station: A-4 (Near Refractory Main Gate)

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

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

Table No: 5

AMBIENT AIR QUALITY DATA

From 01.10.2024 to 31.03.2025

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

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

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

Table No: 6

AMBIENT AIR QUALITY DATA
From 01.10.2024 to 31.03.2025

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

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

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

Table No 7:

STACK EMISSION MONITORING RESULTS

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

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

Table No 8:

GROUND WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market	Tube Well Village Rani Bandha		
1	Turbidity	0.60	1.4	2.9	0.50	0.80	NTU	5.0
2	pH Value	7.25	7.16	6.58	6.75	6.51	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	173.38	173.38	379.01	467.71	346.75	mg/l	600
4	Iron (as Fe)	0.06	0.09	0.29	0.22	0.24	mg/l	0.3
5	Chlorides (as Cl)	15.65	18.59	45.99	59.68	50.88	mg/l	1000
6	Total Dissolved Solids	269	251	468	532	430	mg/l	2000
7	Electrical Conductivity	420	421	731	869	693	µS/cm	-
8	Calcium (as Ca)	53.33	56.56	119.55	135.75	101.81	mg/l	200
9	Magnesium (as Mg)	9.79	7.84	19.59	31.35	22.53	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	34.11	32.18	76.96	77.49	62.31	mg/l	400

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market	Tube Well Village Rani Bandha		
13	Total Nitrate (as NO_3)	4.06	4.46	5.49	10.69	3.67	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	144	116	224	192	164	mg/l	600
15	Acidity	04	14	14	20	12	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	17.64	19.69	29.72	20.29	20.13	mg/l	-
18	Potassium (as K)	2.56	2.24	2.19	1.59	2.94	mg/l	-
19	Fluoride (as F)	0.69	0.74	1.04	0.76	0.84	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	27.8	27.8	27.1	27.7	27.1	°C	-
32	Residual Free Chlorine	0.12	0.20	0.29	0.24	0.19	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 9:

GROUND WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	1.1	1.0	2.8	0.40	0.60	NTU	5.0
2	pH Value	6.71	6.46	6.72	6.80	6.16	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	548	176	272	384	216	mg/l	600
4	Iron (as Fe)	0.06	0.27	0.09	0.29	0.12	mg/l	0.3
5	Chlorides (as Cl)	226.93	13.99	72.98	58.98	42.99	mg/l	1000
6	Total Dissolved Solids	981	249	524	565	278	mg/l	2000
7	Electrical Conductivity	1635	392	907	869	464	µS/cm	-
8	Calcium (as Ca)	120.24	56.11	49.69	118.64	46.49	mg/l	200
9	Magnesium (as Mg)	60.26	8.75	35.96	21.38	24.30	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	114.24	20.98	80.69	84.73	22.05	mg/l	400
13	Total Nitrate (as NO_3)	36.91	3.27	12.99	11.76	19.76	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	252	136	236	244	108	mg/l	600
15	Acidity	56	24	42	40	46	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	38.46	7.19	32.54	23.33	10.41	mg/l	-
18	Potassium (as K)	3.11	2.63	1.69	1.27	1.45	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	0.20	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.8	25.2	25.0	25.1	25.1	°C	-
32	Residual Free Chlorine	0.21	0.16	0.14	0.20	0.10	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 10:

GROUND WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	5.10	18.3	0.53	0.22	< 0.1	NTU	5.0
2	pH Value	6.78	6.67	7.17	6.93	6.48	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	981	164	308	340	280	mg/l	600
4	Iron (as Fe)	0.06	0.10	0.08	0.22	0.22	mg/l	0.3
5	Chlorides (as Cl)	14.96	13.99	18.99	58.98	50.98	mg/l	1000
6	Total Dissolved Solids	981	282	510	588	490	mg/l	2000
7	Electrical Conductivity	1636	470	851	980	817	µS/cm	-
8	Calcium (as Ca)	173.15	49.69	60.92	99.39	68.94	mg/l	200
9	Magnesium (as Mg)	38.88	9.72	37.91	22.36	26.24	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	113.53	22.08	16.35	77.84	57.69	mg/l	400
13	Total Nitrate (as NO_3)	85.7	5.08	6.01	10.96	33.64	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	364	144	276	248	156	mg/l	600
15	Acidity	38	16	12	22	26	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	31.71	6.92	10.20	22.29	17.40	mg/l	-
18	Potassium (as K)	1.59	2.86	3.73	1.22	3.18	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	23.7	23.7	23.8	23.9	23.9	°C	-
32	Residual Free Chlorine	0.16	0.16	0.11	0.24	0.19	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 11:

GROUND WATER QUALITY RESULT FOR THE MONTH OFJANUARY 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	6.2	8.1	0.20	0.20	0.10	NTU	5.0
2	pH Value	6.67	6.49	6.52	6.83	5.89	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	746.64	167.28	379.44	379.44	159.12	mg/l	600
4	Iron (as Fe)	0.28	0.19	0.21	0.22	0.26	mg/l	0.3
5	Chlorides (as Cl)	246.92	17.99	79.97	62.98	40.98	mg/l	1000
6	Total Dissolved Solids	972	209	523	524	254	mg/l	2000
7	Electrical Conductivity	1621	342	871	874	416	µS/cm	-
8	Calcium (as Ca)	184.78	50.69	114.46	114.46	47.42	mg/l	200
9	Magnesium (as Mg)	69.40	9.91	22.80	22.80	9.91	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	173.13	17.64	96.36	89.43	23.07	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	11.30	39.14	< 2.20	2.40	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	260	88	116	200	80	mg/l	600
15	Acidity	32	20	26	22	38	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	33.98	6.91	29.35	23.21	9.50	mg/l	-
18	Potassium (as K)	3.10	2.40	1.53	1.04	1.35	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.1	24.0	23.7	24.1	23.9	°C	-
32	Residual Free Chlorine	0.39	0.20	0.21	0.32	0.16	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 12:

GROUND WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	118.52	16.70	90.87	96.86	58.85	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	9.28	32.15	< 2.20	3.27	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	364	144	208	260	172	mg/l	600
15	Acidity	48	18	30	24	32	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	30.03	6.13	27.88	19.11	17.48	mg/l	-
18	Potassium (as K)	1.39	2.52	1.90	1.39	3.10	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	26.7	26.7	26.8	26.7	26.7	°C	-
32	Residual Free Chlorine	0.14	0.04	0.11	0.12	0.09	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 13:

GROUND WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
1	Turbidity	5.1	1.0	4.5	0.5	0.9	NTU	5.0
2	pH Value	6.79	6.70	6.74	6.95	6.85	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	606.21	192.51	315.39	401.41	159.74	mg/l	600
4	Iron (as Fe)	0.08	0.10	0.12	0.24	0.12	mg/l	0.3
5	Chlorides (as Cl)	14.68	18.59	41.09	59.68	39.14	mg/l	1000
6	Total Dissolved Solids	999	228	466	566	226	mg/l	2000
7	Electrical Conductivity	1665	369	719	906	377	µS/cm	-
8	Calcium (as Ca)	177.30	52.53	78.80	70.59	47.61	mg/l	200
9	Magnesium (as Mg)	39.81	14.93	28.86	54.74	9.95	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	114.62	12.82	50.48	99.24	22.05	mg/l	400
13	Total Nitrate (as NO_3)	85.7	3.27	5.26	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	368	116	224	256	80	mg/l	600
15	Acidity	24	12	16	20	10	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	34.79	6.28	26.08	20.25	9.51	mg/l	-
18	Potassium (as K)	1.32	2.45	11.42	1.76	1.48	mg/l	-
19	Fluoride (as F)	0.26	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	mg/l	15.0

Sl No	Parameter	Results Obtained					Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Tube Well Village Liploi	Tube Well Village Surudihi	Tube Well IT Colony	Tube Well OCL Daily Market Gate	Tube Well Village Ranibandha		
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	29.1	28.9	28.2	28.9	28.6	°C	-
32	Residual Free Chlorine	0.16	0.16	0.16	0.10	0.18	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 14:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Near Packing House Drinking Water Point (Line – 1)	Drinking Water Point General Office Ground Floor	Drinking Water Point Near VRM (Line – 2)	Worker Shop Drinking Water Point (Line – 2)	Drinking Water Point Near New Weigh Bridge(DSP Unit)	Drinking Water Near CCR Building 2nd Floor Pantry Room (DSP Unit)		
1	Turbidity	0.40	0.30	0.40	0.20	0.90	0.30	NTU	5.0
2	pH Value	7.49	7.92	7.54	7.61	7.64	7.67	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	201.6	193.54	189.50	197.68	133.06	137.08	mg/l	600
4	Iron (as Fe)	0.15	0.25	0.19	0.20	0.22	0.28	mg/l	0.3
5	Chlorides (as Cl)	11.74	13.69	10.76	11.74	17.61	16.63	mg/l	1000
6	Total Dissolved Solids	232	234	218	256	208	208	mg/l	2000
7	Electrical Conductivity	362	368	357	402	357	358	µS/cm	-
8	Calcium (as Ca)	46.86	51.71	50.09	50.09	35.55	46.86	mg/l	200
9	Magnesium (as Mg)	20.57	15.68	15.68	17.64	10.78	4.89	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	25.47	21.81	24.94	56.11	30.50	19.48	mg/l	400
13	Total Nitrate (as NO_3)	7.65	< 2.20	2.46	< 2.20	2.61	3.19	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	124	136	120	120	108	124	mg/l	600
15	Acidity	10	06	02	04	08	08	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	4.92	8.23	3.94	4.58	10.35	7.41	mg/l	-
18	Potassium (as K)	2.09	1.96	1.08	2.14	2.48	1.64	mg/l	-
19	Fluoride (as F)	0.26	0.51	0.49	0.51	0.46	0.47	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	27.7	27.1	27.7	27.7	27.7	27.7	°C	-
32	Residual Free Chlorine	0.16	0.17	0.10	0.09	0.08	0.14	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 15:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Pyro Section Worker's Canteen Drinking Water Point	Drinking Water Near Clinker Silo Area	CPP Workers' CanteenDrinking Water Point (Line - 2)	Near Main Gate Drinking Water Point (Line – 2)	Near Workers Canteen Drinking Water Point (DSP Unit)	Near Coal Mill Drinking Water Point (DSP Unit)		
1	Turbidity	0.70	0.50	0.20	0.60	0.20	0.40	NTU	5.0
2	pH Value	8.13	7.95	7.98	8.02	8.02	8.02	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	212	208	208	208	216	216	mg/l	600
4	Iron (as Fe)	0.28	0.26	0.28	0.27	0.24	0.27	mg/l	0.3
5	Chlorides (as Cl)	28.99	18.99	20.99	19.99	21.99	20.99	mg/l	1000
6	Total Dissolved Solids	301	287	289	285	291	294	mg/l	2000
7	Electrical Conductivity	488	455	460	460	460	463	µS/cm	-
8	Calcium (as Ca)	44.89	41.68	48.09	38.48	46.49	48.09	mg/l	200
9	Magnesium (as Mg)	24.3	25.27	21.38	27.22	24.3	22.08	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	20.12	17.89	18.83	19.24	18.31	19.01	mg/l	400
13	Total Nitrate (as NO_3)	3.71	3.62	< 2.20	4.15	4.33	3.93	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	164	164	164	156	160	164	mg/l	600
15	Acidity	< 2.0	2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.64	10.57	10.54	10.77	11.23	10.89	mg/l	-
18	Potassium (as K)	3.65	3.56	3.50	3.59	3.49	3.51	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.9	25.1	24.9	24.9	24.9	24.9	°C	-
32	Residual Free Chlorine	0.10	0.14	0.12	0.11	0.12	0.10	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 16:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

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

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near Cooler (Line – 1)	Drinking Water Near Clinker Silo(Line - 1)	Central WorkshopDrinking Water Point (Line - 2)	Near CPP Office Building Drinking Water Point(Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	Near General Store Drinking Water Point (DSP Unit)		
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	17.24	18.02	18.2	18.04	18.56	18.59	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	4.55	3.80	4.46	5.35	4.33	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	180	172	184	184	176	184	mg/l	600
15	Acidity	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	11.06	10.87	11.38	10.95	11.54	11.55	mg/l	-
18	Potassium (as K)	4.22	4.12	4.19	4.14	4.18	4.17	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	23.9	23.8	23.7	23.7	23.7	23.7	°C	-
32	Residual Free Chlorine	0.17	0.16	0.13	0.14	0.20	0.21	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 17:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near CVRM – 2 (Line – 1)	Drinking Water Point Near General Office Ground Floor	Workshop Drinking Water Point (Line – 2)	Drinking Water Point Near VRM Area (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (DSP Unit)	Drinking Water Point Near Weigh Bridge (DSP Unit))		
1	Turbidity	0.10	0.30	0.20	0.30	0.20	0.10	NTU	5.0
2	pH Value	7.83	7.98	7.81	7.79	7.86	7.82	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	199.92	199.92	204	199.92	199.92	204	mg/l	600
4	Iron (as Fe)	0.21	0.18	0.24	0.26	0.19	0.20	mg/l	0.3
5	Chlorides (as Cl)	25.99	25.99	23.99	23.99	24.99	23.99	mg/l	1000
6	Total Dissolved Solids	252	246	260	275	246	290	mg/l	2000
7	Electrical Conductivity	419	411	432	459	410	449	µS/cm	-
8	Calcium (as Ca)	47.42	47.42	47.42	45.78	47.42	47.42	mg/l	200
9	Magnesium (as Mg)	19.82	19.82	20.82	20.82	19.82	20.82	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	22.67	22.82	21.0	22.12	23.09	22.37	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	< 2.20	17.86	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	120	112	128	140	88	156	mg/l	600
15	Acidity	08	06	06	08	08	06	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	10.36	10.98	10.69	12.0	10.32	10.84	mg/l	-
18	Potassium (as K)	3.65	3.68	3.77	3.78	3.82	3.95	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Drinking Water Point Near CVRM – 2 (Line – 1)	Drinking Water Point Near General Office Ground Floor	Workers' Drinking Water Point (Line – 2)	Drinking Water Point Near VRM Area (Line – 2)	CCR Building 2nd Floor Pantry Room Drinking Water Point (DSP Unit)	Drinking Water Point Near Weigh Bridge (DSP Unit)		
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	24.3	24.4	24.4	24.3	24.3	24.3	°C	-
32	Residual Free Chlorine	0.18	0.36	0.26	0.21	0.20	0.24	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 18:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		Main gate Canteen Drinking Water Point (Line – 1)	CPP Canteen Drinking Water Point (Line – 2)	Drinking Water Point Near AFR Area	Guest House Canteen Drinking Water Point	Near Coal Mill Drinking Water Point (DSP Unit)	Near Coal Mill Drinking Water Point (DSP Unit)		
1	Turbidity	0.70	1.1	0.70	< 0.1	2.4	1.3	NTU	5.0
2	pH Value	7.51	7.34	7.43	7.43	7.56	7.61	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	204	224.4	212.16	208.08	204	204	mg/l	600
4	Iron (as Fe)	0.16	0.06	0.27	0.08	0.20	0.21	mg/l	0.3
5	Chlorides (as Cl)	23.99	20.99	26.99	22.99	25.99	22.99	mg/l	1000
6	Total Dissolved Solids	299	290	286	297	278	311	mg/l	2000
7	Electrical Conductivity	451	440	469	446	469	456	µS/cm	-
8	Calcium (as Ca)	45.78	45.78	44.15	52.33	31.07	50.69	mg/l	200
9	Magnesium (as Mg)	21.81	26.76	24.79	18.84	30.73	18.84	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	24.43	24.16	24.74	26.23	24.54	34.46	mg/l	400
13	Total Nitrate (as NO_3)	3.58	< 2.20	3.98	< 2.20	< 2.20	3.05	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	164	156	144	160	152	164	mg/l	600
15	Acidity	06	06	04	04	02	02	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.92	9.74	11.34	9.87	10.24	10.07	mg/l	-
18	Potassium (as K)	2.96	2.88	2.87	2.92	2.91	2.97	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	26.7	26.7	26.7	26.7	26.7	26.7	°C	-
32	Residual Free Chlorine	0.09	0.06	0.08	0.11	0.10	0.11	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 19:

DRINKING WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl No	Parameter	Results Obtained						Unit	Permissible Limit in absence of Alternate Source as per IS 10500: 2012
		General Office Ground Floor Drinking Water Point	Near Pyro Workers Canteen Drinking Water Point (Line – 1)	Near CPP Office Building Drinking Water Point (Line – 2)	Near VRM Drinking Water Point (Line – 2)	Near Cooler Drinking Water Point (DSP Unit)	General Office Ground Floor Drinking Water Point (DSP Unit)		
1	Turbidity	0.4	0.6	0.3	0.4	0.3	0.4	NTU	5.0
2	pH Value	7.82	7.59	7.63	7.64	7.63	7.82	-	6.5 – 8.5
3	Total Hardness (as $CaCO_3$)	225.28	217.08	221.18	208.89	217.08	225.28	mg/l	600
4	Iron (as Fe)	0.25	0.23	0.24	0.19	0.26	0.25	mg/l	0.3
5	Chlorides (as Cl)	25.44	24.46	24.46	25.44	25.44	25.44	mg/l	1000
6	Total Dissolved Solids	296	304	303	299	307	296	mg/l	2000
7	Electrical Conductivity	494	487	506	498	490	494	µS/cm	-
8	Calcium (as Ca)	41.04	34.48	45.96	47.61	37.76	41.04	mg/l	200
9	Magnesium (as Mg)	29.86	31.85	25.87	21.89	29.85	29.86	mg/l	100
10	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
11	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.3
12	Sulfate (as SO_4)	21.81	17.24	20.25	21.08	17.58	21.81	mg/l	400
13	Total Nitrate (as NO_3)	< 2.20	< 2.20	3.24	< 2.20	< 2.20	< 2.20	mg/l	45
14	Total Alkalinity (as $CaCO_3$)	124	180	168	120	180	124	mg/l	600
15	Acidity	< 2.0	04	04	02	04	< 2.0	mg/l	-
16	Sulphide (as H_2S)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	0.05
17	Sodium (as Na)	9.23	11.37	10.91	12.48	11.49	9.23	mg/l	-
18	Potassium (as K)	1.96	4.24	3.74	2.09	4.31	1.96	mg/l	-
19	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
20	Cadmium (as Cd)	ND	ND	ND	ND	ND	ND	mg/l	0.003
21	Lead (as Pb)	ND	ND	ND	ND	ND	ND	mg/l	0.01
22	Arsenic (as As)	ND	ND	ND	ND	ND	ND	mg/l	0.05
23	Mercury (as Hg)	ND	ND	ND	ND	ND	ND	mg/l	0.001
24	Selenium (as Se)	ND	ND	ND	ND	ND	ND	mg/l	0.01
25	Nickel (as Ni)	ND	ND	ND	ND	ND	ND	mg/l	0.02
26	Zinc (as Zn)	ND	ND	ND	ND	ND	ND	mg/l	15.0
27	Total Chromium (as Cr)	ND	ND	ND	ND	ND	ND	mg/l	0.05
28	Colour	< 5	< 5	< 5	< 5	< 5	< 5	Hazen	15
29	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
30	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable
31	Temperature	29.1	29.0	29.1	28.8	29.1	29.0	°C	-
32	Residual Free Chlorine	0.17	0.17	0.14	0.10	0.17	0.17	mg/l	1.0 (min)
33	Total Bacterial Count	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent
34	E coli	Absent	Absent	Absent	Absent	Absent	Absent	Nos/100ml	Absent

Table No 20:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

Sl	Parameter	Results Obtained				Unit	Surface Water Quality
10	Magnesium (as Mg)	17.63	16.66	17.64	17.63	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.21	0.32	0.29	0.20	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.1	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	02	01	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	5.28	3.52	5.28	3.52	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	100	1000	1000	100	Nos/100ml	5000

Table No 21:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.65	7.67	7.44	8.00	-	6.5 – 8.5
2	Electrical Conductivity	564	560	866	484	µS/cm	-
3	Total Dissolved Solids	338	336	520	290	mg/l	1500
4	Total Hardness (as $CaCO_3$)	208	216	288	220	mg/l	-
5	Chlorides (as Cl)	27.99	25.99	60.98	19.99	mg/l	600
6	Sulfate (as SO_4)	27.22	28.46	57.49	18.91	mg/l	400
7	Total Nitrate (as NO_3)	< 2.20	< 2.20	< 2.20	3.22	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	48.09	46.49	57.72	43.28	mg/l	-
10	Magnesium (as Mg)	21.38	24.30	34.99	27.22	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.21	0.25	0.29	0.26	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	02	01	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	3.52	5.28	3.52	< 0.10	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	10	100	100	10	Nos/100ml	5000

Table No 22:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.28	7.40	7.30	7.55	-	6.5 – 8.5
2	Electrical Conductivity	810	815	1027	627	µS/cm	-
3	Total Dissolved Solids	486	489	616	376	mg/l	1500
4	Total Hardness (as $CaCO_3$)	244	240	300	220	mg/l	-
5	Chlorides (as Cl)	46.98	50.98	64.94	21.99	mg/l	600
6	Sulfate (as SO_4)	40.08	39.49	69.99	21.16	mg/l	400
7	Total Nitrate (as NO_3)	2.29	< 2.20	< 2.20	4.46	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	46.49	46.49	65.73	49.69	mg/l	-
10	Magnesium (as Mg)	31.10	30.13	33.05	23.33	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.26	0.32	0.29	0.25	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.2	6.1	6.2	6.2	mg/l	4
25	BOD 5 days at 20°C	01	01	01	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	8.8	8.8	12.32	7.04	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	10	100	100	10	Nos/100ml	5000

Table No 23:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF JANUARY 2025

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

Sl	Parameter	Results Obtained				Unit	Surface Water
3	Total Dissolved Solids	503	500	492	264	mg/l	1500
4	Total Hardness (as $CaCO_3$)	314.16	314.16	314.16	204	mg/l	-
5	Chlorides (as Cl)	85.97	77.97	60.98	19.99	mg/l	600
6	Sulfate (as SO_4)	58.50	55.78	61.41	19.02	mg/l	400
7	Total Nitrate (as NO_3)	16.90	2.36	< 2.20	4.26	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	65.41	65.41	65.41	47.42	mg/l	-
10	Magnesium (as Mg)	36.68	36.68	36.68	20.82	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.31	0.34	0.30	0.28	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.2	6.0	6.2	6.4	mg/l	4
25	BOD 5 days at 20°C	01	02	02	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	17.6	8.8	17.6	8.8	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	Absent	100	10	10	Nos/100ml	5000

Table No 24:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.07	6.98	6.98	7.09	-	6.5 – 8.5
2	Electrical Conductivity	938	869	905	438	µS/cm	-
3	Total Dissolved Solids	563	521	552	264	mg/l	1500
4	Total Hardness (as $CaCO_3$)	334.56	306	289.68	208.08	mg/l	-
5	Chlorides (as Cl)	97.96	88.97	72.98	19.99	mg/l	600
6	Sulfate (as SO_4)	61.7	59.88	58.28	23.74	mg/l	400
7	Total Nitrate (as NO_3)	10.29	< 2.20	< 2.20	4.11	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	94.84	60.50	80.13	37.61	mg/l	-
10	Magnesium (as Mg)	23.79	37.67	21.81	27.76	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	1.5
12	Iron (as Fe)	0.16	0.27	0.17	0.29	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.0	6.2	6.1	6.3	mg/l	4
25	BOD 5 days at 20°C	02	01	01	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	10.56	8.8	8.8	5.28	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	Absent	100	10	10	Nos/100ml	5000

Table No 25:

SURFACE WATER QUALITY RESULT FOR THE MONTH OF MARCH 2025

Sl No	Parameter	Results Obtained				Unit	Surface Water Quality Standard as per IS: 2296 (Class C)
		Liploi Nadi Upstream (Shirdi Sai Temple)	Liploi Nadi (Muncipality Dump Yard)	Liploi Nadi Downstream (Poda Nadi)	Amaghat Nadi		
1	pH Value	7.36	7.26	7.16	7.05	-	6.5 – 8.5
2	Electrical Conductivity	923	921	940	364	µS/cm	-
3	Total Dissolved Solids	554	553	564	218	mg/l	1500
4	Total Hardness (as $CaCO_3$)	339.96	315.39	344.06	167.94	mg/l	-
5	Chlorides (as Cl)	98.96	90.01	73.38	11.74	mg/l	600
6	Sulfate (as SO_4)	59.45	61.11	58.34	17.26	mg/l	400
7	Total Nitrate (as NO_3)	4.01	3.96	2.96	< 2.20	mg/l	50
8	Fluoride (as F)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.5
9	Calcium (as Ca)	96.86	62.38	96.86	39.40	mg/l	-
10	Magnesium (as Mg)	24.88	38.82	24.88	16.92	mg/l	-
11	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10.	mg/l	1.5
12	Iron (as Fe)	0.24	0.29	0.30	0.19	mg/l	50
13	Manganese (as Mn)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	-
14	Zinc (as Zn)	< 0.02	< 0.02	< 0.02	< 0.02	mg/l	15
15	Total Arsenic (as As)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.2
16	Mercury (as Hg)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	-
17	Lead (as Pb)	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
18	Cadmium (as Cd)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	0.01
19	Hex. Chromium (as Cr^{+6})	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
20	Selenium (as Se)	< 0.01	< 0.01	< 0.01	< 0.01	mg/l	0.05
21	Colour	< 5	< 5	< 5	< 5	Hazen	300
22	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	-
23	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	-
24	Dissolved Oxygen (Min.)	6.1	6.0	6.0	6.2	mg/l	4
25	BOD 5 days at 20°C	01	02	02	01	mg/l	3
26	Oil & Grease	< 0.10	< 0.10	< 0.10	< 0.10	mg/l	0.1
27	Free Carbon Dioxide (as CO_2)	8.8	7.04	10.56	5.28	mg/l	-
28	Free Ammonia (as NH_3)	< 0.012	< 0.012	< 0.012	< 0.012	mg/l	-
29	Cyanide (as CN)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.05
30	Phenolic Compounds (as C_6H_5OH)	< 0.002	< 0.002	< 0.002	< 0.002	mg/l	0.005
31	Anionic Detergents (as MBAS)	< 0.05	< 0.05	< 0.05	< 0.05	mg/l	1.0
32	Total Coliforms	Absent	100	100	10	Nos/100ml	5000

Table No 26:

26.1 EFFLUENT WATER QUALITY RESULT OF ETP INLET

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

26.2 EFFLUENT WATER QUALITY RESULT OF ETP OUTLET

Sl No	Parameters	Results Obtained						Permissible Limit as per CTO Conditions	Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH		
1	pH Value	7.50	7.44	7.56	7.61	7.39	7.54	5.5 – 9.0	-
2.	Total Suspended Solids	< 2.5	7.0	< 2.5	6.4	< 2.5	< 2.5	100	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	10	mg/l
4.	BOD 5days at 20°C	10	28	14	14	10	13	-	mg/l
5.	COD	33.612	85.712	43.118	43.461	32.481	40.251	-	mg/l

Table No 27 :

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

Sl No	Parameters	Results Obtained					Unit
		OCTOBER	NOVEMBER	DECEMBER	JANUARY	MARCH	
1	pH Value	8.26	8.88	7.67	8.25	8.96	-
2.	Total Suspended Solids	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	mg/l
3.	Oil & Grease	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	mg/l
4.	COD	25.624	27.162	24.621	26.362	25.819	mg/l
5.	Copper (as Cu)	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	mg/l
6.	Iron (as Fe)	0.28	0.24	0.30	0.23	0.22	mg/l

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

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

Table No 28 :

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

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

Table No 29:

EFFLUENT WATER QUALITY RESULT OF STP OUTLET (DSP UNIT)

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

Table No 30:

SOIL QUALITY RESULT FOR THE MONTH OF OCTOBER 2024

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

Table No 31:

SOIL QUALITY RESULT FOR THE MONTH OF NOVEMBER 2024

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

Table No 32:

SOIL QUALITY RESULT FOR THE MONTH OF DECEMBER 2024

Sl. No.	Parameter	Unit	Inside Store Yard (Line – 1)	132 KV Station Area (Line – 2)	Near Weigh Bridge DSP Unit
1.	Colour	-	Greyish	Greyish	Brownish
2.	Type of Soil	-	Fine Grained Soil	Fine Grained Soil	Fine Grained Soil
3.	Texture	-	Sandy Clay Loam	Silty Clay Loam	Silty Loam
4.	Bulk Density	gm/cm^3	1.3	1.8	1.42
5.	pH (1:2 Suspension)	-	7.83	8.50	8.75
6.	Electrical Conductivity	µS/cm	1421	467	452
7.	Iron	mg/kg	3.92	6.28	5.08
8.	Calcium	mg/kg	185	210	188
9.	Available Potassium (as K_2O)	Kg/ha	643.8	559.68	71.64
10.	Organic Carbon	%	3.03	1.5091	< 0.50
11.	Available Nitrogen (as N)	Kg/ha	87.80	150.528	37.63
12.	Manganese	mg/kg	9.61	7.95	9.02
13.	Infiltration Rate	cm/hr	6.54	4.65	9.64
14.	Porosity	g/cm^3	0.18	0.20	0.85
15.	Moisture Content	%	21.2	16.5	32.0
16.	Chloride	mg/kg	0.11	0.18	0.18
17.	Sulphate	mg/kg	0.60	0.58	0.76
18.	Available Phosphorous (as P_2O_5)	Kg/ha	< 5.0	< 5.0	< 5.0

Table No 33:

SOIL QUALITY RESULT FOR THE MONTH OF JANUARY 2025

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

Table No 34:

SOIL QUALITY RESULT FOR THE MONTH OF FEBRUARY 2025

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

Table No 35:

SOIL QUALITY RESULT FOR THE MONTH OF MARCH 2025

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

Table No: 36:

NOISE LEVEL MONITORING DATA

From 01.10.2024 to 31.03.2025

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

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

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